

CBR-012

Petrotek

United States Nuclear Regulatory Commission Official Hearing Exhibit

In the Matter of: CROW BUTTE RESOURCES, INC.
(License Renewal for the In Situ Leach Facility, Crawford, Nebraska)

ASLBP #: 08-867-02-OLA-BD01

Docket #: 04008943

Exhibit #: CBR-012-00-BD01

Admitted: 8/18/2015

Rejected:

Other:

Identified: 8/18/2015

Withdrawn:

Stricken:

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October 10, 2002

Crow Butte Resources
P.O. Box 169
Crawford, NE 69339

Attention: Mike Griffin

Subject: Chadron Formation Pumping Testing Report
Crow Butte Project, Crawford, Nebraska

Dear Mike:

During the period from August 19 and 26, 2002, a pumping test was performed to (1) demonstrate the integrity of confinement of the Chadron Sandstone in the southern permit area, and (2) assess the formation characteristics of the mining zone.

The analysis of the testing data, including the demonstration of confinement, is included in the enclosed report. Three copies of the pumping test report are enclosed. Two copies are for Crow Butte; one copy needs to be forwarded under a Crow Butte cover letter to Dave Miesbach at NDEQ.

No response to pumping was observed in the Brule monitoring well. With regard to formation characteristics of the Chadron Sandstone, the hydraulic capacity (e.g., transmissivity) appears to be higher in the southern area evaluated during this test than in the northern and central portions of the permit area.

Please contact the undersigned if you have any questions or comments regarding the analysis, report, or other matters.

Sincerely,

Petrotek Engineering Corporation
Hal P. Demuth
Project Manager

CC: Ken Cooper - PEC

HPD:hd

Enclosures (3 reports)



Technical
Report

GROUND-WATER PUMPING TEST #4
DATA EVALUATION REPORT



CROW BUTTE RESOURCES, INC.
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Lakewood, CO 80228

October 10, 2002

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GROUND-WATER PUMPING TEST #4 DATA EVALUATION REPORT

Crow Butte Resources, Inc.

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- Appendix D - Chadron Formation Test Analyses

1.0 INTRODUCTION

Crow Butte Resources, Inc. (CBR) operates an in-situ uranium mine (the Crow Butte Project) in Dawes County, Nebraska. Authorization to operate the mine according to the Underground Injection Control (UIC) regulations has been granted to CBR (UIC Permit Number NE 0122611) by the Nebraska Department of Environmental Quality (NDEQ). Part II, Paragraph A of the permit specifies that, prior to mine development within the existing permit area, ground-water pumping tests shall be conducted to demonstrate the integrity of the confining layer above the mining zone. Based on the pumping rate, test duration, and formation characteristics, the Radius of Influence (ROI) (i.e., the area over which drawdown occurs) can be determined for a given test.

In accordance with the permit, CBR performed a ground-water pumping test (Test #4) from August 19th through August 25th, 2002 at the Crow Butte Project. The test consisted of pumping one well completed in the Chadron Sandstone and monitoring ground-water levels in four wells in the Chadron Sandstone, and in one well in the overlying Brule Formation. This test is the fourth in a series of long-term pumping tests conducted in the Chadron Sandstone between 1982 and present.

This report has been prepared (1) to document the methods used to perform Test #4, and (2) to present the results from that test with regard to ROI, confinement, and the hydraulic characteristics of the mining zone.

1.1 BACKGROUND

The Crow Butte Project is an in-situ uranium mine located southeast of Crawford, Nebraska. The mine was developed to recover uranium from the Chadron Sandstone. During the initial permitting and development of the mine, CBR performed two pumping tests (referred to as Tests #1 and #2) in the central portion of the permit area to (1) confirm

the confinement of the ore-bearing horizon and (2) assess the hydraulic characteristics of the Chadron Sandstone (Figure 1). Based on the test results, a ROI was established for each test. A third test (Test #3) was conducted in 1996 to demonstrate confinement prior to mining in the northwestern portion of the site.

CBR is planning mining activities in the southern portion of the permit area (i.e., to the south of the area covered under the ROI from Test #1). As noted, this new development requires that an additional pumping test be performed.

1.2 SITE CHARACTERIZATION

Ore-grade uranium deposits underlying the site are predominantly located in the Chadron Sandstone, which averages 50 feet in thickness (typically 35 feet net sand), and occurs at depths ranging from 400 to 1,200 feet. The Upper Chadron Formation and the Brule Formation, consisting predominantly of clay, claystone, and siltstone, form a confining layer above the Chadron Sandstone (Figure 2). The thickness of the confining layer averages 300 feet across the site. The general stratigraphy underlying the site is summarized in Table 1. The depth and thickness of the respective formations presented on Table 1 are representative of the southern portion of the permit area.

TABLE 1 GENERALIZED STRATIGRAPHIC SECTION WITHIN THE SOUTHERN PORTION OF THE PERMIT AREA	
<i>Depth (feet)</i>	<i>Description</i>
0 – 20	Topsoil and alluvial deposits
20 – 320	Brule Formation (interbedded siltstone, sandstone)
320 – 650	Chadron Formation (interbedded clay, claystone, and siltstone)
650 – 700	Chadron Sandstone (interbedded sandstone and clay)
700 +	Pierre Shale

Additional detailed information related to the characterization of the surface and subsurface geology in the vicinity of the Crow Butte Project has been presented in the report "Application and Supporting Environmental Report for State of Nebraska Underground Injection Control Program Commercial Permit" (Ferret of Nebraska, 1987).

1.3 SUMMARY OF PREVIOUS TESTING RESULTS

As noted, three previous ground-water pumping tests have been performed at the site. The results from those tests indicate that the Chadron Sandstone is relatively homogeneous and isotropic (i.e., the hydraulic conductivity [permeability] is consistent with respect to direction and location) within the northern and central portions of the permit area (Table 2).

TABLE 2 SUMMARY OF PREVIOUS PUMPING TEST RESULTS			
Test	#1	#2	#3
Date Conducted	Nov., 1982	June, 1987	Sept., 1996
Test Duration (hours)	51	72	55
Pumping Rate (gpm)	23.8	47.2	51.2
Transmissivity (ft ² /d)	400	360	330
Hydraulic Conductivity (ft/d)	9.0	9.1	9.8
Storativity	1.0×10^{-4}	1.0×10^{-4}	9.0×10^{-5}
Radius of Influence (ft)	4,000	5,000	5,700

826
20.6
 6.2×10^{-5}
5500
32.5 ft
+ 12.1 ft

~ 40 ft
+ 12.1 ft

2.0 TEST #4 DESCRIPTION

2.1 WELL INSTALLATION

CBR installed five new wells (CPW2002, COW2002, CM9-04, CM9-13, and CM9-14) in the Chadron Sandstone prior to performance of Test #4. CPW2002 was installed specifically for use as a pumping well, and the remainder were installed as observation wells. One new well (SM9-10) was installed in the monitoring zone within the Brule Formation (see Figure 2).

All of the wells used for this pumping test are located in Township 31 North, Range 52 West (Figure 3), and were constructed with 4.5-inch nominal diameter casing. The nature and thickness of the subsurface formations encountered during the installation of the new wells generally were consistent with other wells in the southern portion of the permit area. However, because surface elevation increases to the south and east, formation depths for wells located in those areas (CM9-04 and COW2002, in particular) also increase. A typical stratigraphic section, based on the log from the pumping well (CPW2002), is presented in Table 1. Information specific to each well is presented in Table 3.

TABLE 3 MONITORING WELL INFORMATION						
Well Number	CPW2002	COW2002	CM9-04	CM9-13	CM9-14	SM9-10
Location (Section)	30	29	29	30	30	30
Location (1/4)	NE	SW	NW	NE	NE	NE
Depth (ft)	740	840	790	730	740	250
Formation	Chadron SS	Chadron SS	Chadron SS	Chadron SS	Chadron SS	Brule FM
Dist. From Pumping Well (ft)	0	2337.2	760.6	461.6	621.2	65.9
Year Installed	2002	2002	2002	2002	2002	2002
Screen Interval (ft)	646-706	763-823	721-766	665-715	675-720	175-240
Net Sand (ft)	46	31	44	43	33	39

2.2 TESTING EQUIPMENT

The test was performed using a 7.5 Hp electrical submersible pump powered by a portable generator; the pump was set at an approximate depth of 440 feet in well CPW2002. Flow from the pump was controlled as needed, with a manual diaphragm valve. Surface flow monitoring equipment included two Halliburton Model MC-2 flow/totalizer meters. Discharge water was land applied to a pasture located approximately 500 feet to the south of the pumping well via a 2-inch diameter plastic line.

Water levels in each well were measured and recorded with either (1) an integrated pressure transducer and datalogger (referred to as a miniTROLL) or (2) a combination of a Hermit 3000 datalogger and 10 psi PDX-261 transducers (a 50-psi PTX-160 transducer was used for the pumping well). All the equipment is manufactured by In-Situ, Inc. (Laramie, Wyoming). The equipment was programmed to automatically calibrate prior to the test, take an initial reference (head) reading prior to the start of the test, and measure and record water levels according to a linear schedule (e.g., every 15 minutes for background monitoring and distant observation wells) or a logarithmic time schedule (i.e., rapid measurement/recording during the early stages of the test, and less frequent measurements thereafter). A summary of the monitoring equipment used for each well is presented in Table 4.

TABLE 4 WATER LEVEL MONITORING EQUIPMENT SUMMARY			
WELL	MONITORING EQUIPMENT	EQUIPMENT RATING (psi)	ORIGINAL DEPTH TO WATER (feet)
CPW2002	Hermit 3000	50	247.4
COW2002	miniTroll	30	377.2
CM9-04	miniTroll	30	303.1
CM9-13	Hermit 3000	10	254.6
CM9-14	Hermit 3000	10	247.5
SM9-10	Hermit 3000	10	68.4

2.3 TESTING PROCEDURES

The majority of the testing equipment (e.g., pump, flow meters, Hermit 3000's and transducers) was installed and checked for proper operation on August 15th, 2002. To assess the potential for fluctuations in background ground water levels, baseline level information was collected from August 16th to 19th (Appendix A). The miniTROLLS were installed on the afternoon of August 19th.

The pumping period started at 1600 hours on August 19, 2002, and continued until 0830 hours on August 22nd, resulting in a pumping duration of 64.5 hours. The recovery period monitoring began at 0830 hours on August 22nd and continued until August 26th.

The average pumping rate recorded by the surface monitoring equipment was 50.2 gallons per minute (gpm); the two surface flow meters agreed to within 1.3% (instantaneous readings) and 0.4% (total flow for the test).

The drawdown in the pumping well at the end of the pumping period was 45.3 feet. No drawdown was observed in the Brule observation well (SM9-10) (Appendix B). The drawdowns in the Chadron observation wells (CM9-04, CM9-13, CM9-14 and COW2002) were 4.9, 5.8, 5.2, and 2.4 feet, respectively (Appendix C).

3.0 ANALYTICAL METHODS AND TEST RESULTS

3.1 ANALYTICAL METHODS

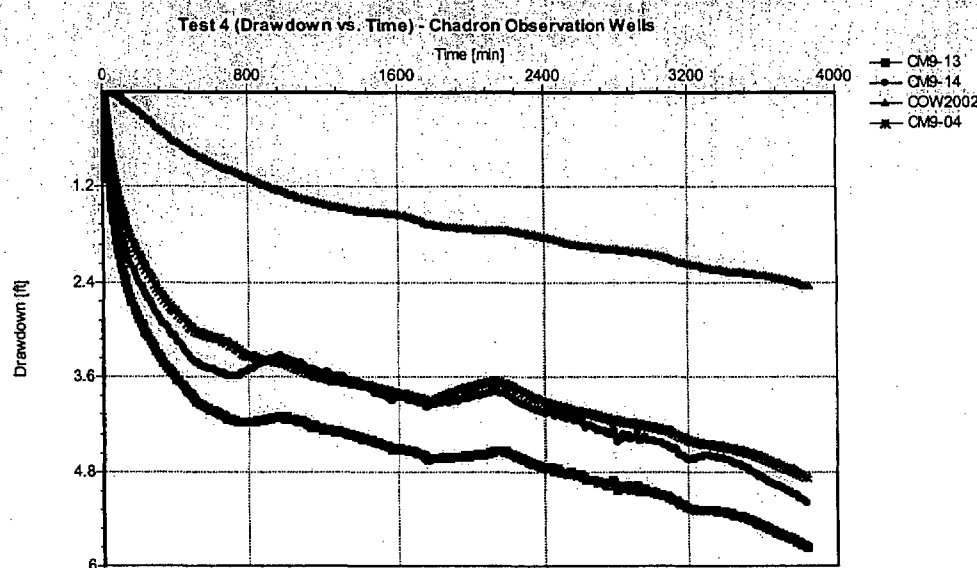
Conventional analytical techniques (i.e., log-log, semi-log, recovery, and distance-drawdown methods developed by Theis, Jacob, and Cooper & Jacob) were used to evaluate the response of the aquifer to pumping, and to assess the hydraulic characteristics of the Chadron Sandstone. The analyses were performed using the Aquifer Test software (Waterloo Hydrogeologic, Inc.) based on an average aquifer thickness of 40 feet. The analyses included assumptions of a constant flow rate in an infinite, homogeneous and isotropic confined aquifer. Recovery analyses were performed on the data from the end of pumping (3870 minutes) to a total test time of 7,000 minutes. This time period represents 80 percent of the pumping period, but the water level recovery, was in most cases, 95 to 100 percent. Water level fluctuations after 7,000 minutes were attributed to mining operations in Mine Unit 7 and barometric effects. The analytical results are summarized in this section, and presented in detail in Appendix D.

3.2 TESTING RESULTS

The testing results demonstrate the integrity of the confining layer above the mining zone, and indicate that the Chadron Sandstone is relatively homogeneous and isotropic within the southern portion of the permit area. Higher values for transmissivity (T) and hydraulic conductivity (k) were obtained than those from previous testing in the central and northern portions of the permit area. The T increase is expected, as the average aquifer thickness in the northern mine area is only 32.5 feet, compared to 40 to 45 feet to the south. The higher K results appear to be indicative of higher quality sand to the south.

Minor fluctuations in the water level data during the test likely are the result of mining operations in Mine Unit 7 (Wellhouses 28-33) located approximately 1,400 feet north of the pumping well), and Mine Unit 5 (approximately 3,000 feet from the pumping well).

However, these fluctuations (typically less than 4 percent of the total drawdown observed during the test) do not significantly impact the usefulness of the data, or the resulting analysis. The impact of mining operations north of the testing area is evident from the drawdown versus time for the observation wells shown below.



The first deviation from expected behavior (at approximately $t = 1,000$ minutes) occurs in the northern-most observation well (CM9-14). This response may be related to shutting in, and subsequently turning on well P2328 (24 gpm) between 2100 and 2200 hours on August 19th. A delayed and dampened response to operation of this well is observed in CM9-13, which is located south of CM9-14. Another water level fluctuation was observed at $t = 2,000$ minutes in CM9-14, CM9-13, and CM9-04, which is likely related to rate adjustments in wellhouses 28-33 (Mine Unit 7). Delayed and dampened responses are observed in COW2002, which is located 2337 feet southeast of the pumping well.

An increase in drawdown versus time was observed late in the test in all the wells, particularly CM9-13 and CM9-14 (Appendix D). These responses may be related to operation of wellhouses 10 and 11 (rate fluctuations of 160 and 60 gpm, respectively).

Radius of Influence

The Radius of Influence (ROI) for Test #4 was evaluated based on a distance-drawdown analysis of the drawdown data from wells CM9-04, CM9-13, CM9-14 and COW2002 at the end of the pumping period. Based on these data, and a minimum drawdown of 1.0 feet, the ROI for Test #4 is approximately 5,500 feet (Figure 4). This ROI covers all of the southern portion of the permit area (Figure 5).

Formation Characteristics

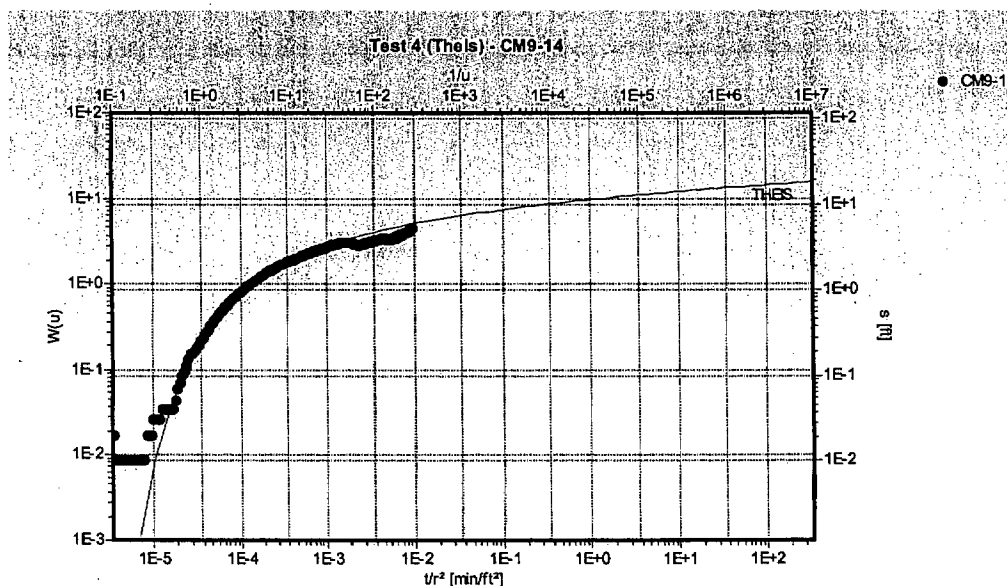
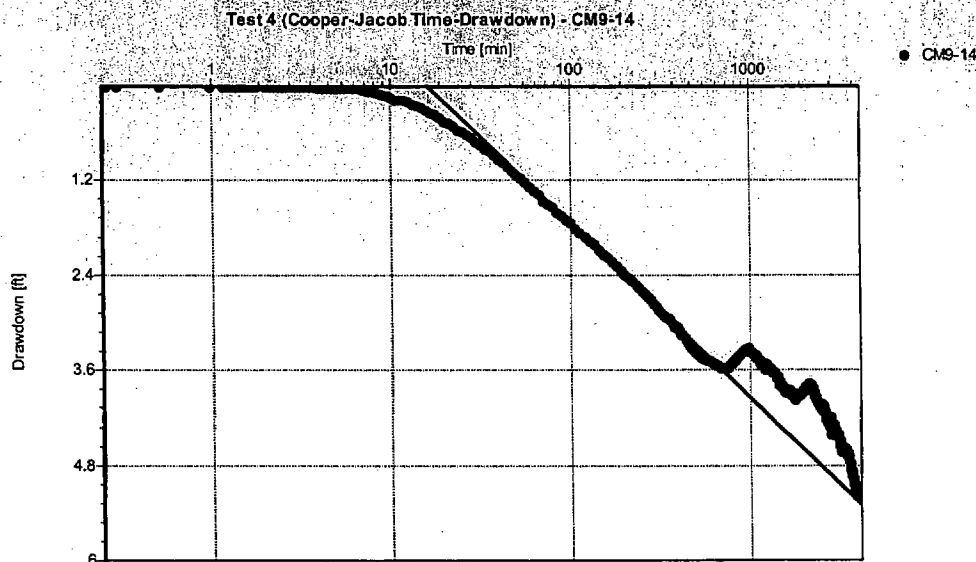
The formation characteristics were evaluated with respect to transmissivity (T), hydraulic conductivity (k), and storativity (S), where applicable (Table 5). The results from the four Chadron observation wells, located at different distances and orientations with respect to the pumping well, generally are similar, with the data from COW2002 yielding the highest T and k values. Transmissivity values for the observation wells (conventional analyses) range from 658 ft²/d (CM9-14) to 1261 ft²/d (COW2002). Storativity values range from 4.8×10^{-5} to 8.2×10^{-5} , which is consistent with a highly confined aquifer. A distance-drawdown analysis of the observation wells yields a T value of 747 ft²/d and a storativity of 8.1×10^{-5} .

As noted, these results (i.e., from Test #4) are generally higher than the results from Tests #1, #2, and #3 (Table 6), but are within the same order of magnitude.

TABLE 5 SUMMARY OF PUMPING TEST RESULTS CROW BUTTE RESOURCES, INC. - TEST #4				
<i>Observation Well</i>	<i>Log-Log Analysis</i>	<i>Semi-log Analysis</i>	<i>Recovery Analysis</i>	<i>Mean</i>
	(Theis Method)	(Jacob Method)	(Theis-Jacob Method)	All Methods
CPW2002				
Transmissivity (ft ² /day)	NA	NA	675	675
Hyd. Cond. (ft/day)	NA	NA	16.9	16.9
Storativity	NA	NA	NA	NA
COW2002				
Transmissivity (ft ² /day)	755	1092	1261	1036
Hyd. Cond. (ft/day)	18.9	27.3	31.5	25.9
Storativity	7.2×10^{-5}	5.2×10^{-5}	NA	6.2×10^{-5}
CM9-04				
Transmissivity (ft ² /day)	755	810	898	821
Hyd. Cond. (ft/day)	18.9	20.3	22.4	20.5
Storativity	6.4×10^{-5}	4.8×10^{-5}	NA	5.6×10^{-5}
CM9-13				
Transmissivity (ft ² /day)	689	748	769	735
Hyd. Cond. (ft/day)	17.2	18.7	19.2	18.4
Storativity	8.2×10^{-5}	6.4×10^{-5}	NA	7.3×10^{-5}
CM9-14				
Transmissivity (ft ² /day)	658	801	827	762
Hyd. Cond. (ft/day)	16.4	20.0	20.7	19.0
Storativity	6.3×10^{-5}	5.1×10^{-5}	NA	5.7×10^{-5}
Mean (all wells)				
Transmissivity (ft ² /day)	714	862	886	826
Hyd. Cond. (ft/day)	17.9	21.6	22.1	20.6
Storativity	7.0×10^{-5}	5.8×10^{-5}	NA	6.2×10^{-5}

The results presented in Table 5 are on based type-curve matches from the Aquifer Test program. Because of interference from mining operations north of the testing area, the type-curve match points were derived from the middle-time data during both the pumping and recovery periods (see examples below). The type curve matches for well CM9-13 (log-

log and semi-log methods, respectively, including results) is shown on Figures 6 and 7. The detailed analyses for each well, including both the pumping and recovery periods, are included in Appendix D.



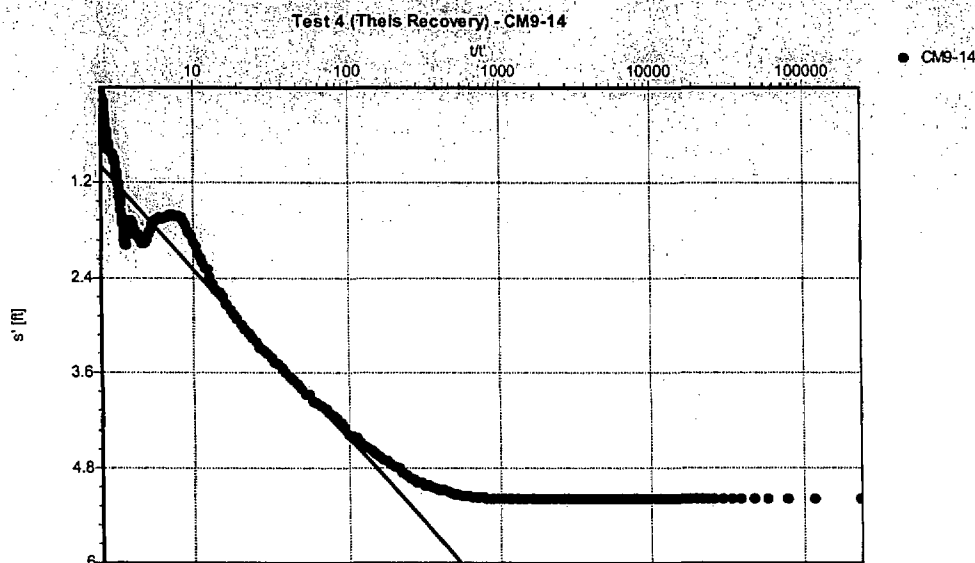
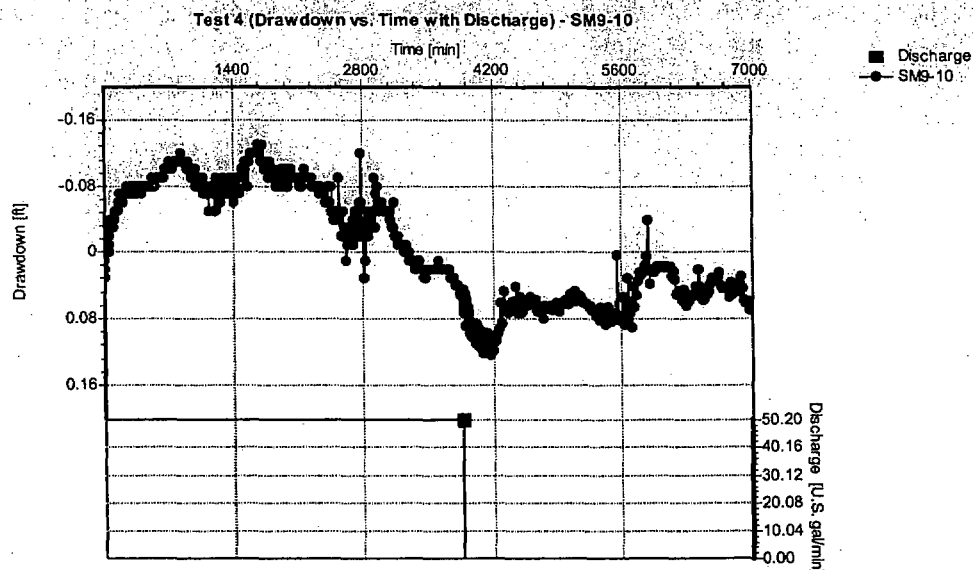


TABLE 6
COMPARISON OF TEST #4 RESULTS TO PREVIOUS TESTING RESULTS
(Arithmetic Mean)

Test	#1	#2	#3	#4
Transmissivity (ft ² /day)	400	360	330	826
Hyd. Cond. (ft/day)	9.0	9.1	9.8	20.6
Storativity	1×10^{-4}	1×10^{-4}	9.0×10^{-5}	6.2×10^{-5}

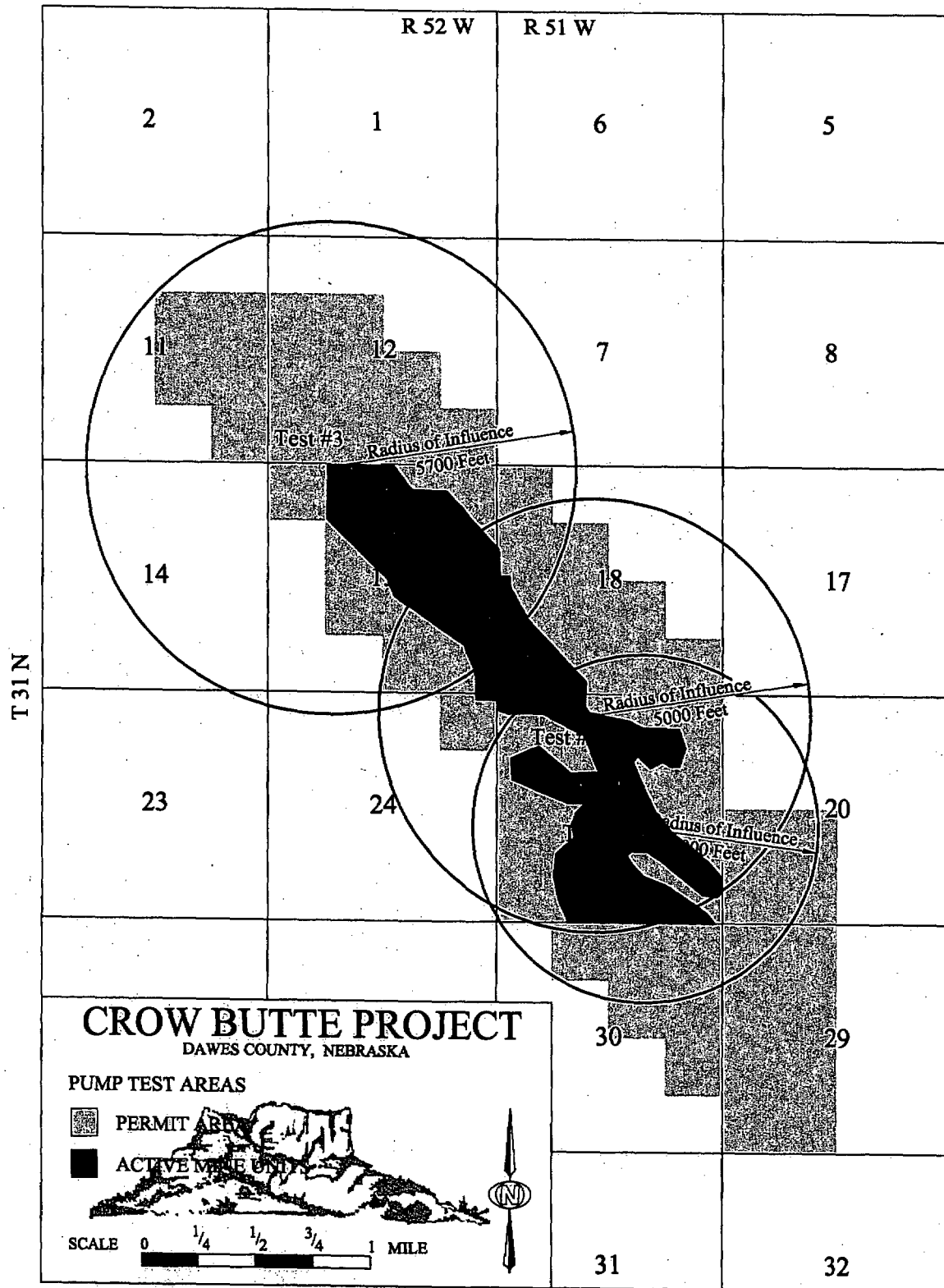
3.3 INTEGRITY OF THE CONFINING LAYER

As shown below and on Figure 8, no significant response to either the pumping or recovery period was observed in the observation well completed in the Brule Formation (SM9-10). The minor fluctuations observed can be attributed to barometric variations (Figure 9) and changes in ambient temperature. Such results are expected based on the results from Tests #1, #2 and #3, and the fact that the Chadron Sandstone and the Brule Formation are separated by more than 400 feet of clay, claystone, and siltstone. Additional data regarding the Brule Formation test data with barometric and temperature variations are included in Appendices A and D.



Test #4 was not performed to quantitatively assess the nature of the confining layer above the Chadron Sandstone. However, it is expected that the hydraulic characteristics of the confining layer in the central portion of the permit area (presented in detail after Test #2 [Ferret of Nebraska, 1987]) also apply to the confining layer in the southern portion of the permit area. This information, combined with the results from Test #4, further demonstrates the integrity of the confining layer between the Brule Formation and the Chadron Sandstone.

FIGURE 1
Location of Pumping Well & ROI's
From Previous Pumping Tests



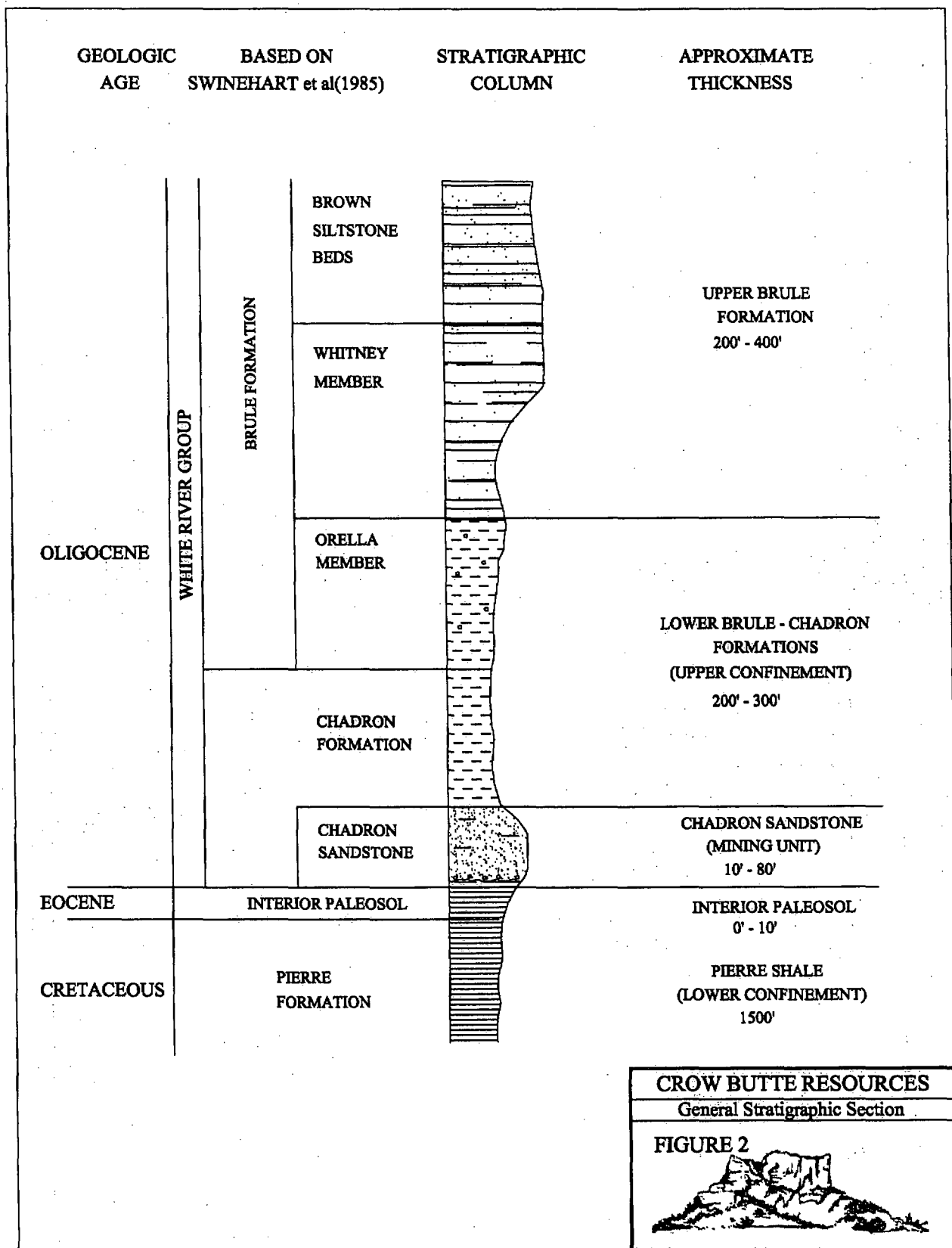
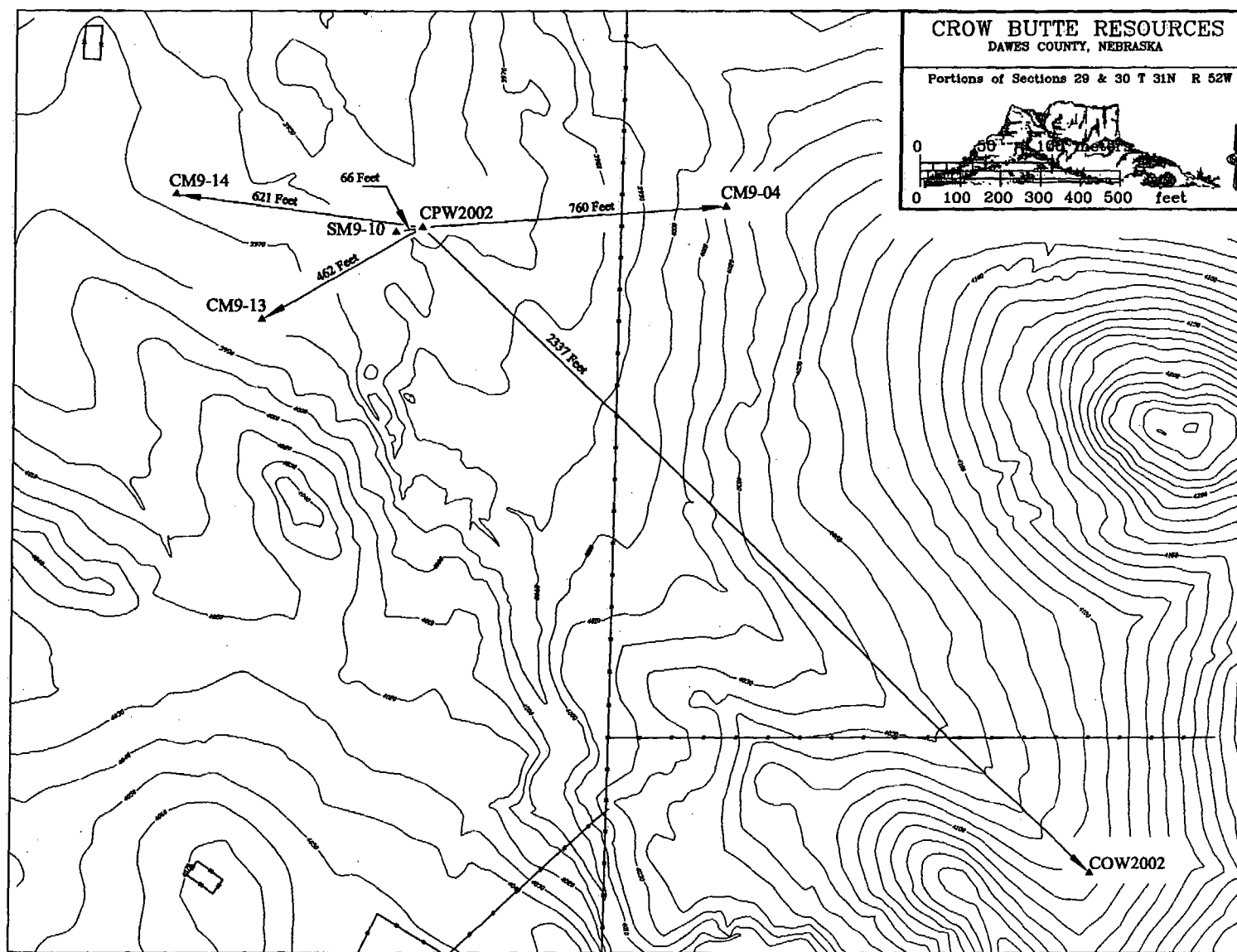
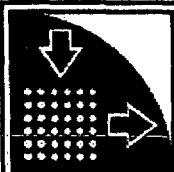


FIGURE 3
Location of Pumping Well and Observation Wells - Test #4





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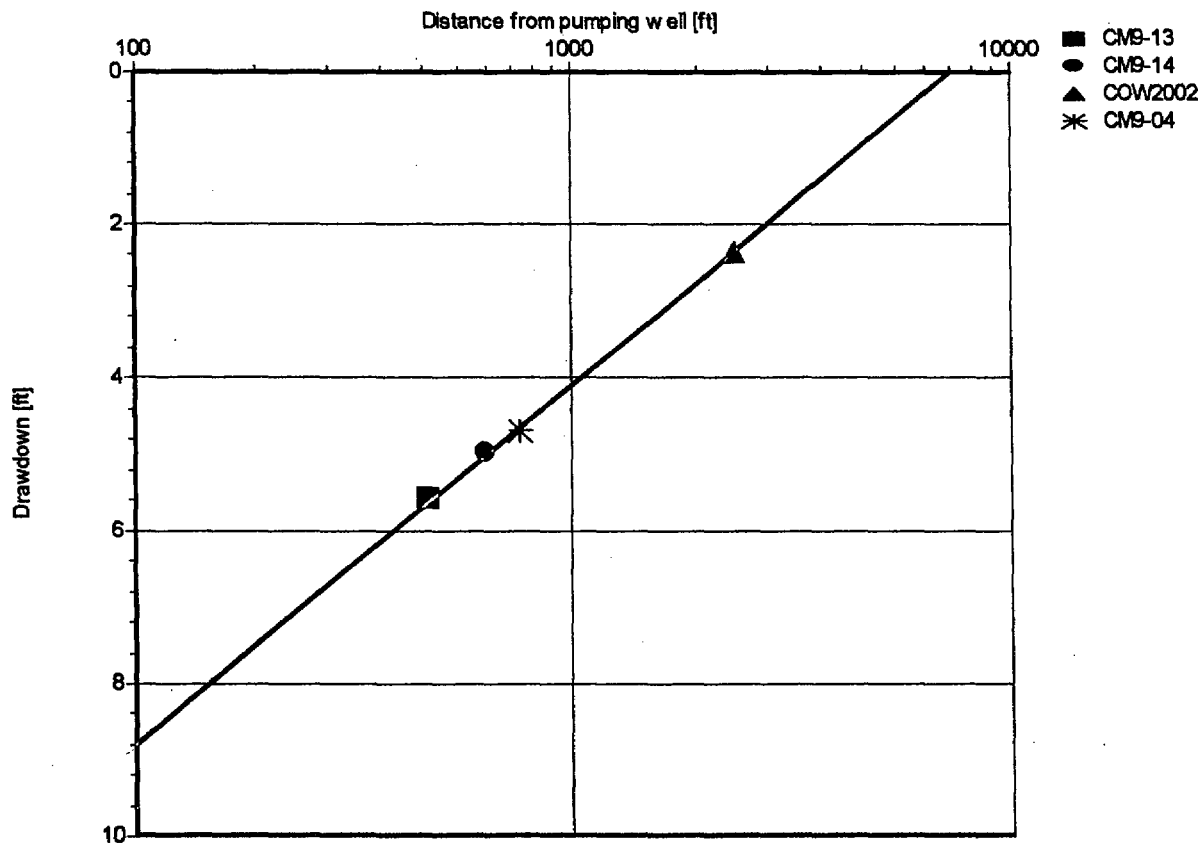
Pumping Test Analysis Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

Test 4 (Cooper-Jacob Distance-Drawdown) - Chadron Wells



Test name: Test 4

Analysis method: Cooper-Jacob Distance-Drawdown

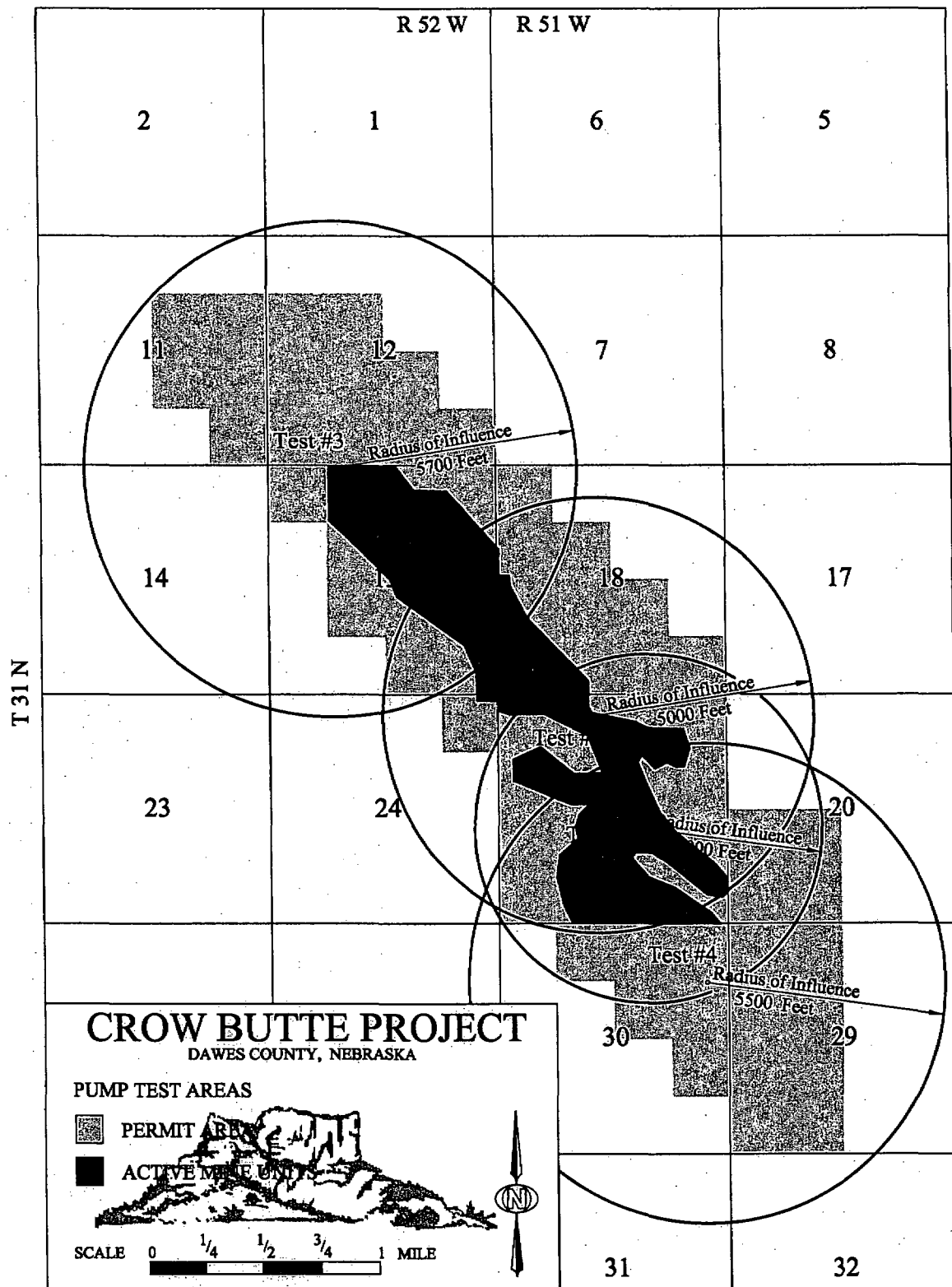
Analysis results:	Transmissivity:	7.47E+2 [ft ² /d]	Conductivity:	1.87E+1 [ft/d]
	Storativity:	8.06E-5		

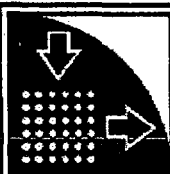
Test parameters:	Pumping well:	CPW2002	Aquifer thickness:	40 [ft]
	Screen radius:	0.1875 [ft]	Confined aquifer	
	Screen length:	60 [ft]		
	Casing radius:	0.33333333 [ft]		
	Discharge rate:	50.2 [U.S. gal/min]		
	Calculation time:	3680 [min]		

Comments: FIGURE 4
 T = 3680 minutes

Evaluated by: HPD
 Date: 10/4/2002

FIGURE 5
Radius of Influence - Test #4



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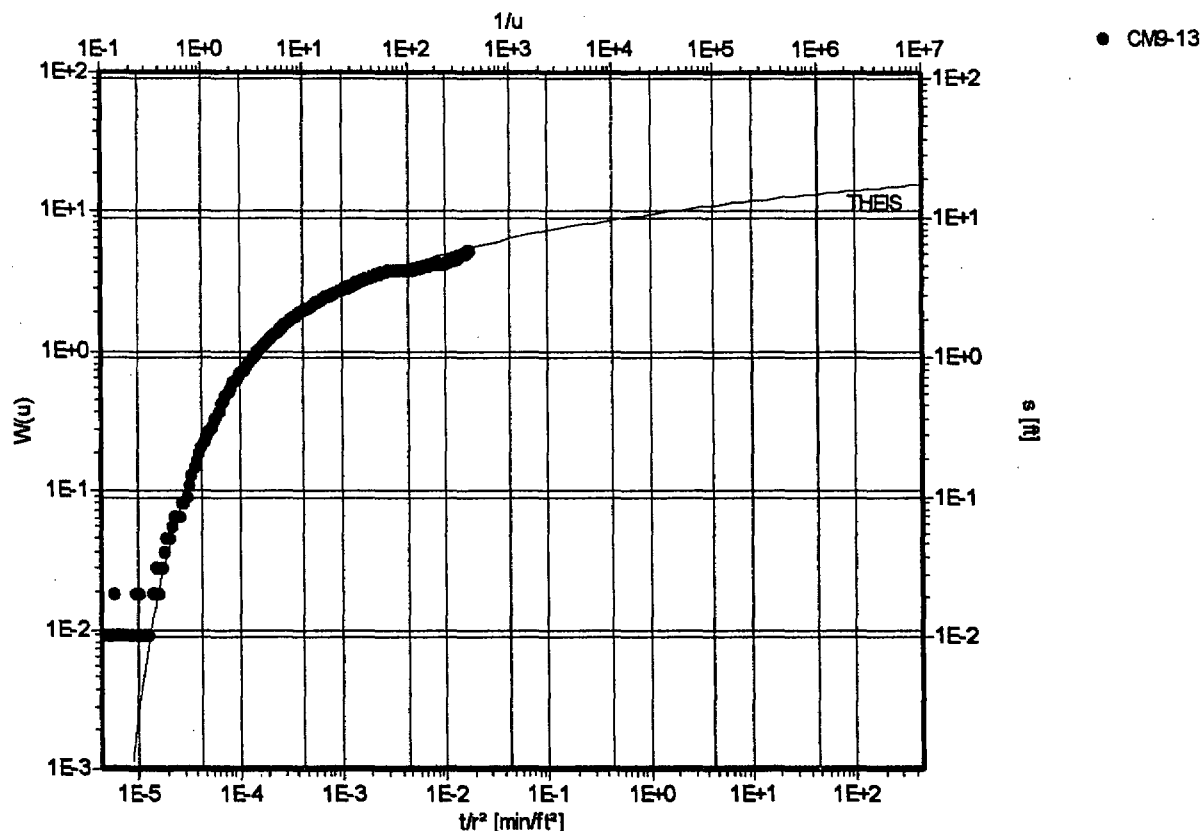
303-290-9414

Pumping Test Analysis Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

Test 4 (Theis) - CM9-13Test name: Test 4Analysis method: Theis

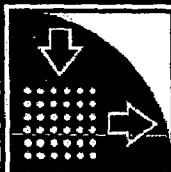
Analysis results: Transmissivity: 6.89E+2 [ft²/d] Conductivity: 1.72E+1 [ft/d]
 Storativity: 8.16E-5

Test parameters: Pumping well: CPW2002 Aquifer thickness: 40 [ft]
 Screen radius: 0.1875 [ft] Confined aquifer
 Screen length: 60 [ft]
 Casing radius: 0.33333333 [ft]
 Discharge rate: 50.2 [U.S. gal/min]

Comments: FIGURE 6

Evaluated by: HPD

Date: 10/4/2002

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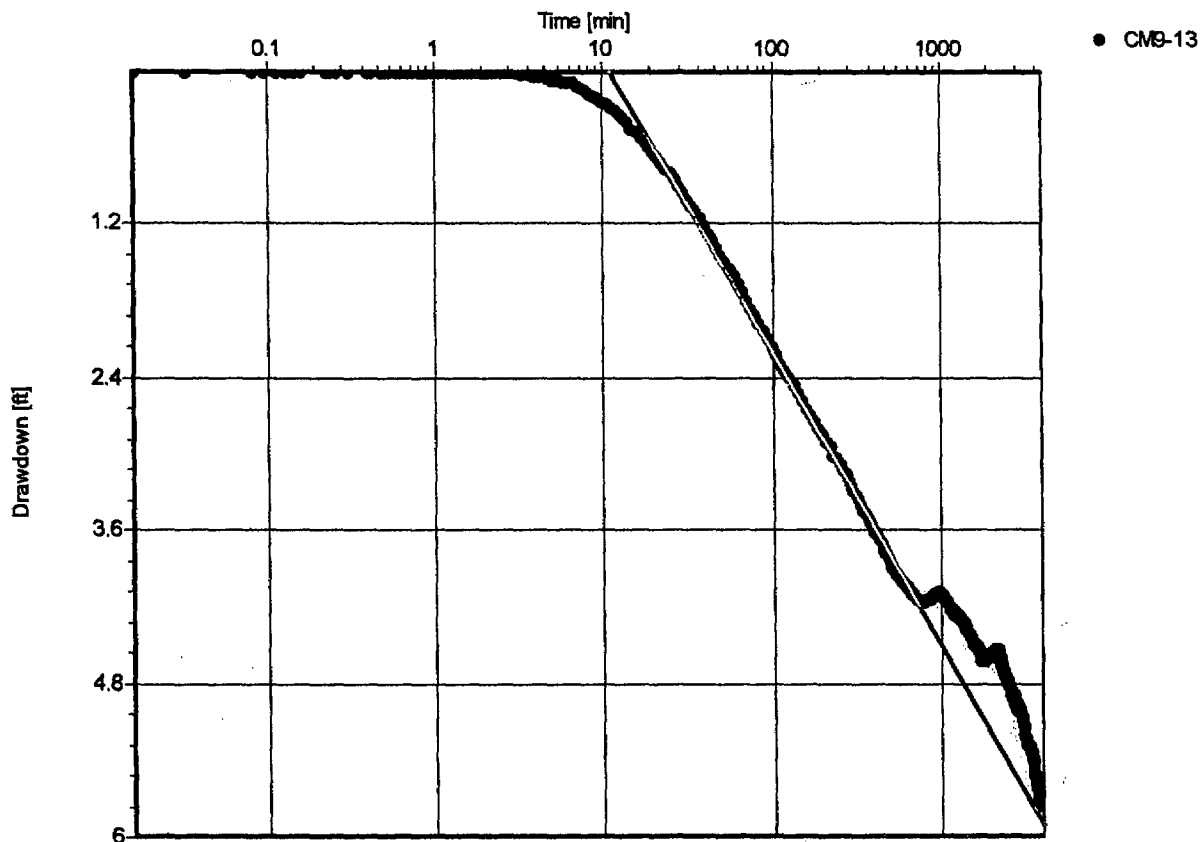
Pumping Test Analysis Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

Test 4 (Cooper-Jacob Time-Draw down) - CM9-13

Test name: Test 4Analysis method: Cooper-Jacob Time-Drawdown

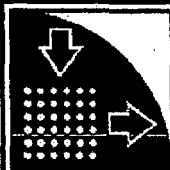
Analysis results: Transmissivity: $7.68E+2$ [ft²/d] Conductivity: $1.92E+1$ [ft/d]

Test parameters: Pumping well: CPW2002 Aquifer thickness: 40 [ft]
 Screen radius: 0.1875 [ft] Confined aquifer
 Screen length: 60 [ft]
 Casing radius: 0.3333333 [ft]
 Discharge rate: 50.2 [U.S. gal/min]

Comments: FIGURE 7

Evaluated by: HPD

Date: 10/4/2002

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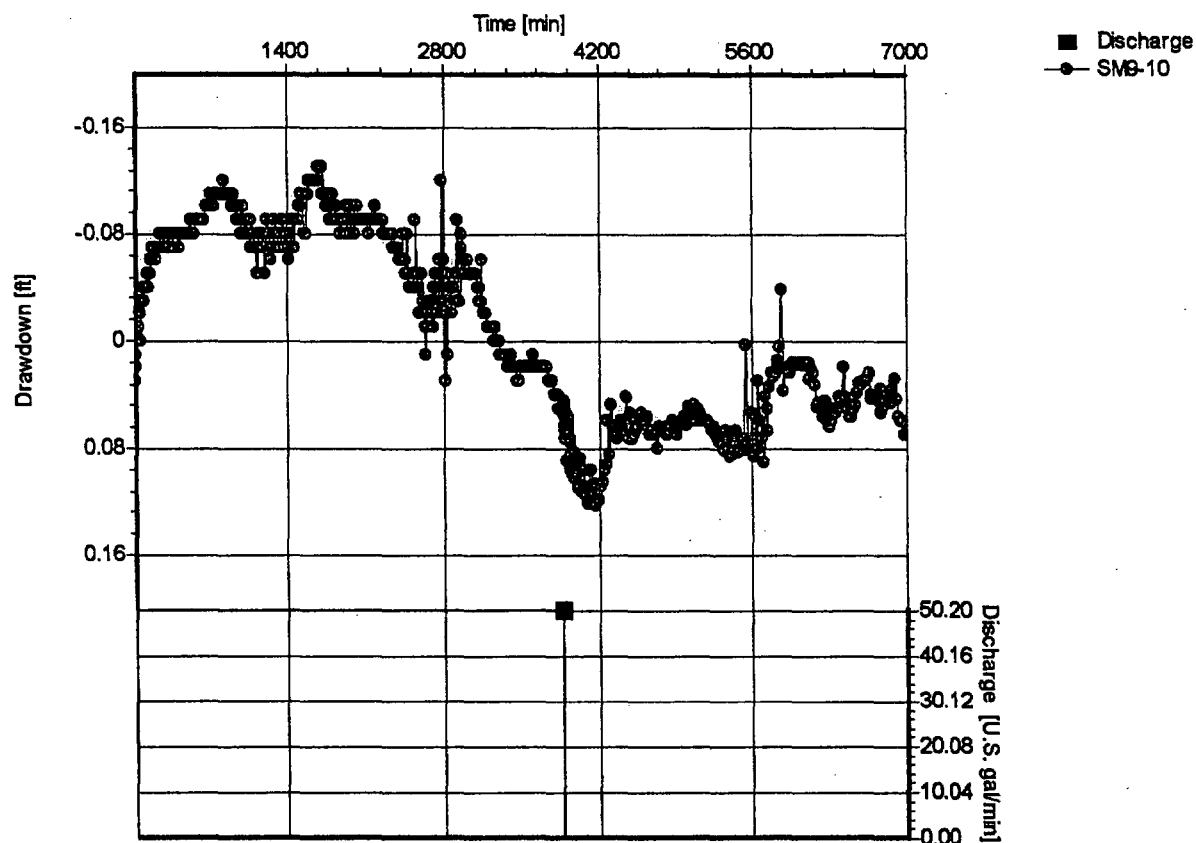
303-290-9414

Pumping Test Analysis Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

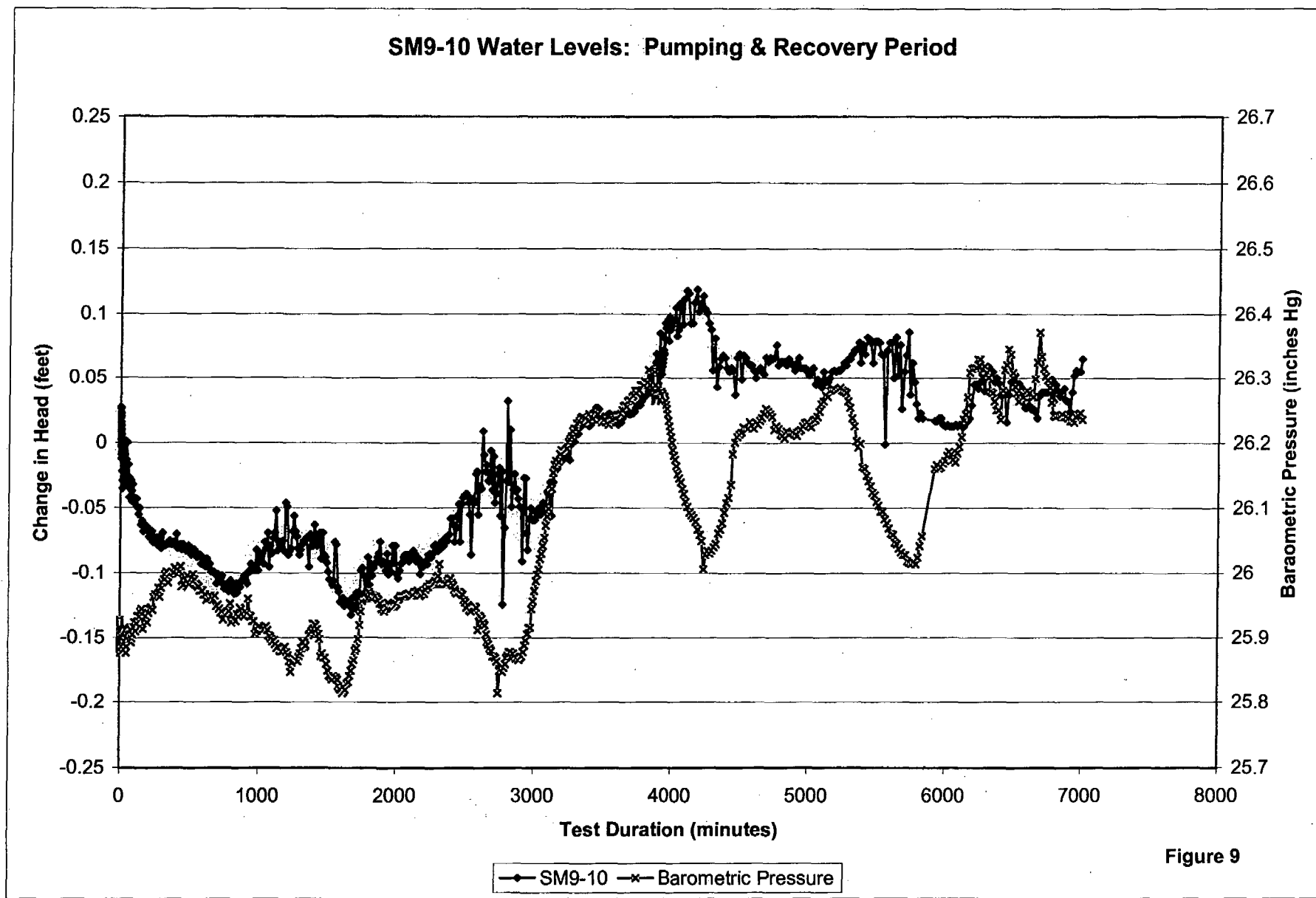
Test 4 (Drawdown vs. Time with Discharge) - SM9-10Test name: Test 4Analysis method: Drawdown vs. Time with DischargeAnalysis results:

<u>Test parameters:</u>	Pumping well:	CPW2002	Aquifer thickness:	40 [ft]
	Screen radius:	0.1875 [ft]		
	Screen length:	60 [ft]		
	Casing radius:	0.3333333 [ft]		
	Discharge rate:	50.2 [U.S. gal/min]		

Comments: Figure 8

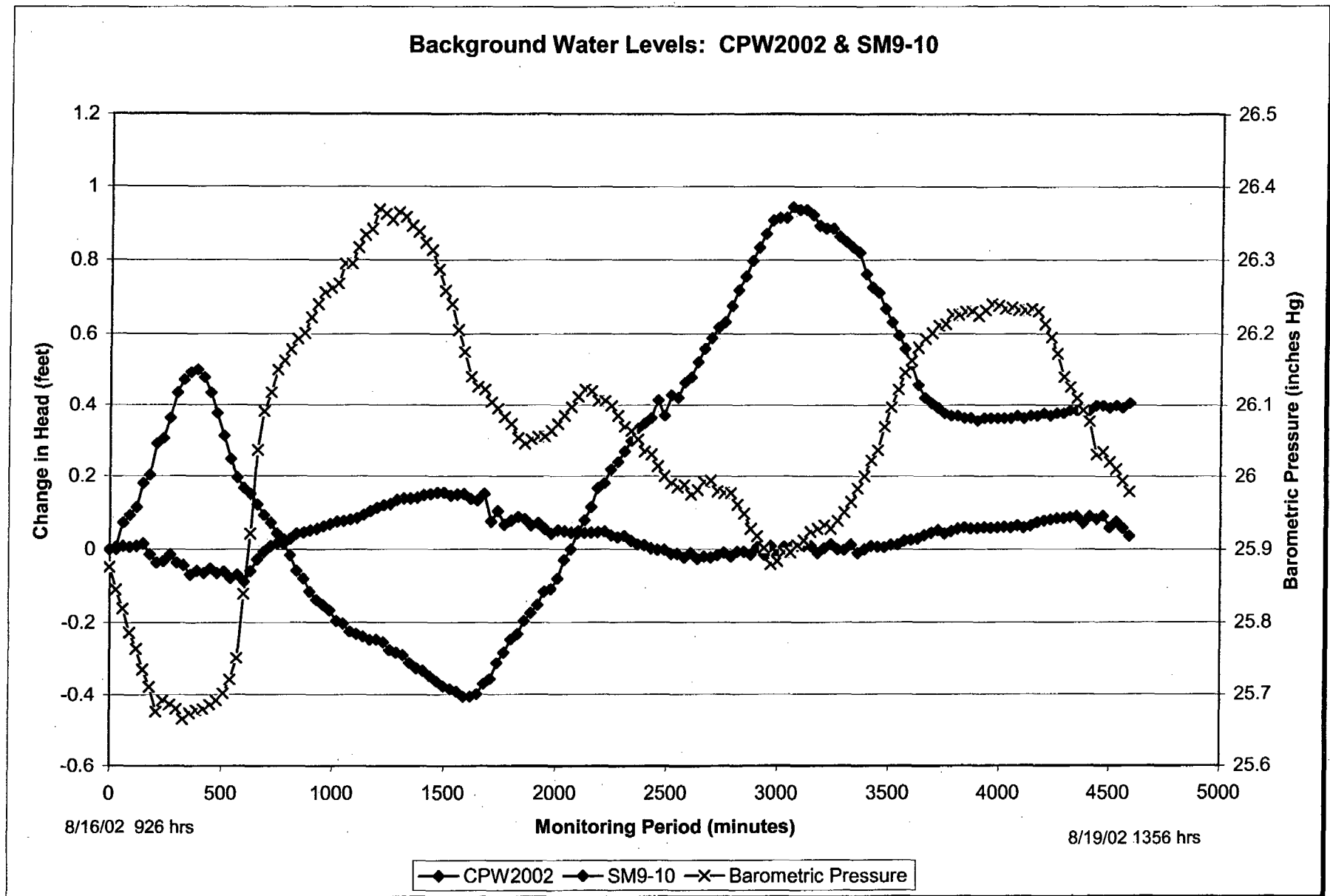
Evaluated by: HPD

Date: 10/7/2002

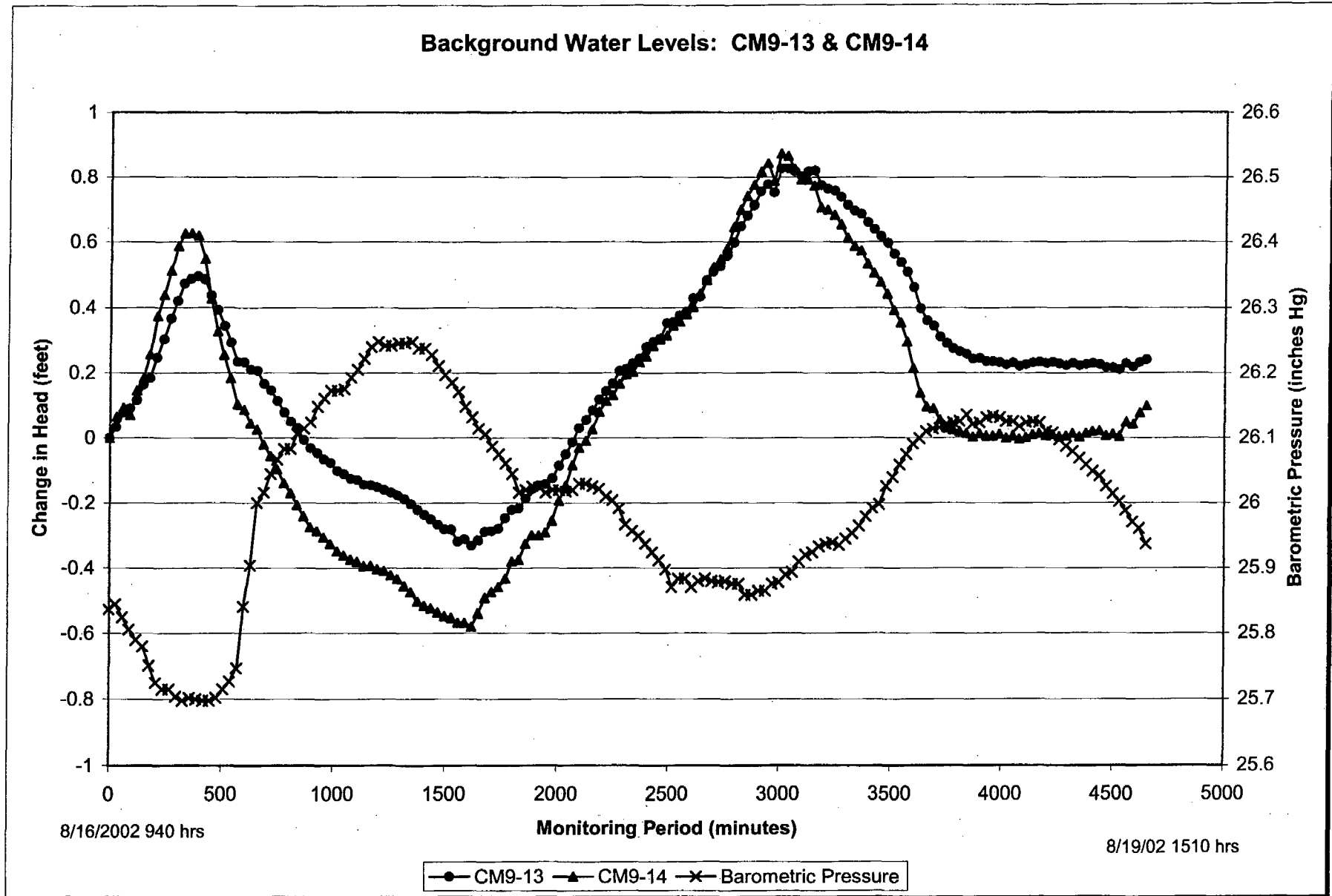


Appendix A

Background Water Level Data



Crow Butte Resources
Pumping Test #4



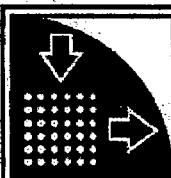
10/8/2002

PETROTEK

CBR-LR-000032_0061

Appendix B

Brule Formation Water Level Data

**Petrotek Engineering**

9088 S. Ridgeline Blvd., Suite 105

Littleton, CO 80433 USA

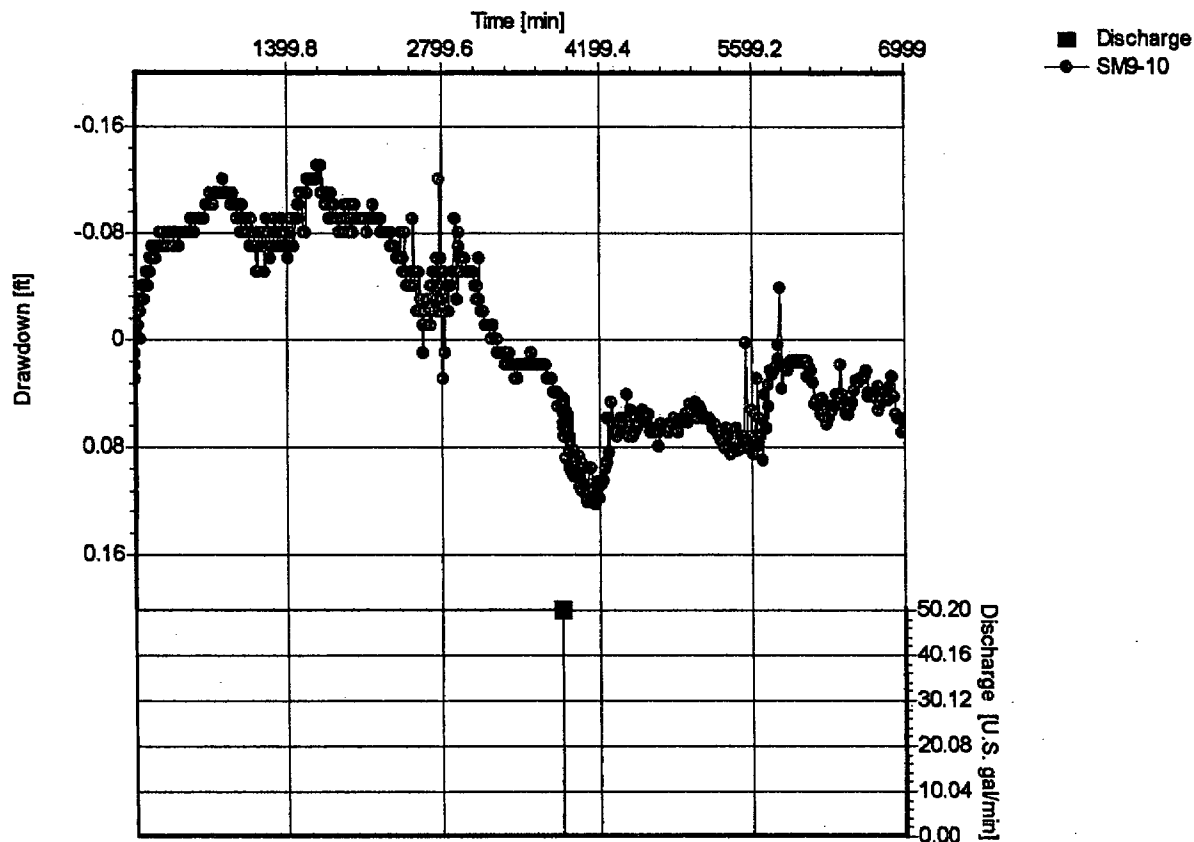
303-290-9414

Pumping Test Analysis Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

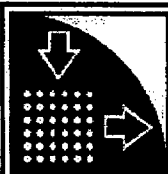
Test 4 (Drawdown vs. Time with Discharge) - SM9-10Test name: Test 4Analysis method: Drawdown vs. Time with DischargeAnalysis results:

<u>Test parameters:</u>	Pumping well:	CPW2002	Aquifer thickness:	40 [ft]
	Screen radius:	0.1875 [ft]		
	Screen length:	60 [ft]		
	Casing radius:	0.33333333 [ft]		
	Discharge rate:	50.2 [U.S. gal/min]		

Comments:

Evaluated by:

Date: 10/7/2002

**Petrotek Engineering**

9088 S. Ridgeline Blvd., Suite 105

Littleton, CO 80433 USA

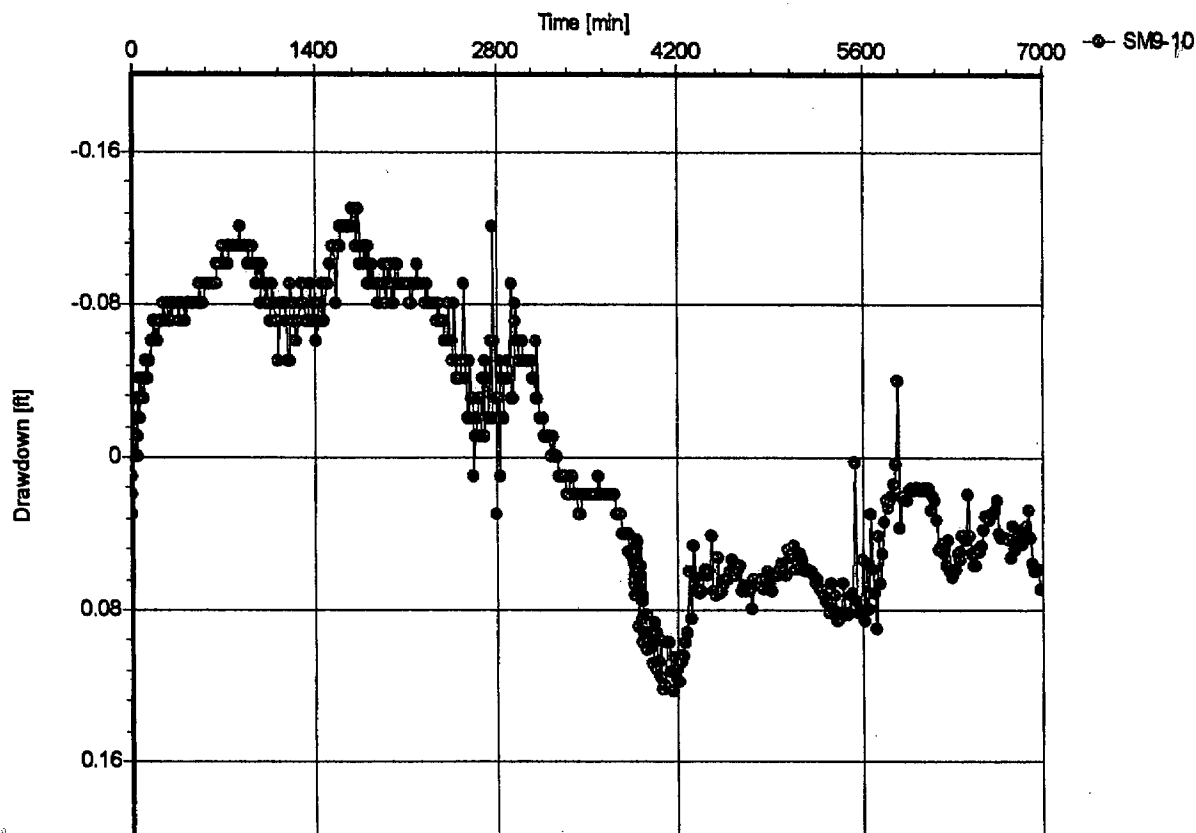
303-290-9414

Pumping Test Analysis Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

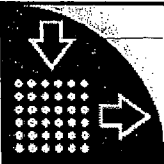
Test 4 (Drawdown vs. Time) - Brule Observation WellTest name: Test 4Analysis method: Drawdown vs. TimeAnalysis results:

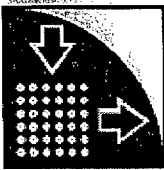
<u>Test parameters:</u>	Pumping well:	CPW2002	Aquifer thickness:	40 [ft]
	Screen radius:	0.1875 [ft]		
	Screen length:	60 [ft]		
	Casing radius:	0.33333333 [ft]		
	Discharge rate:	50.2 [U.S. gal/min]		

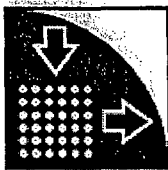
Comments: SM9-10 Water Levels for Entire Testing Period

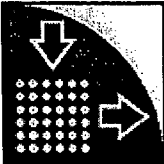
Evaluated by: HPD

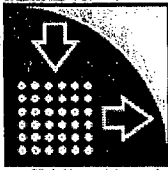
Date: 10/4/2002

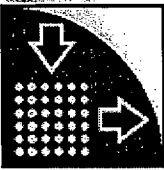
	Petrotek Engineering		Pumping Test Data Report	
	9088 S. Ridgeline Blvd., Suite 105		Project: Pumping Test #4	
	Littleton, CO 80433 USA		No:	
	303-290-9414		Client: Crow Butte Resources	Page 1
Data observed at: SM9-10		Pumping test: Test 4		
Distance from PW: 75.8 [ft]		Pumping well: CPW2002		
Depth to static WL: 68.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
1	0	68.40	0.00	
2	0.016	68.40	0.00	
3	0.033	68.40	0.00	
4	0.049	68.40	0.00	
5	0.065	68.40	0.00	
6	0.082	68.40	0.00	
7	0.098	68.40	0.00	
8	0.114	68.40	0.00	
9	0.131	68.40	0.00	
10	0.147	68.40	0.00	
11	0.163	68.40	0.00	
12	0.18	68.40	0.00	
13	0.196	68.40	0.00	
14	0.212	68.40	0.00	
15	0.229	68.40	0.00	
16	0.245	68.40	0.00	
17	0.261	68.40	0.00	
18	0.278	68.40	0.00	
19	0.294	68.40	0.00	
20	0.31	68.40	0.00	
21	0.327	68.40	0.00	
22	0.343	68.40	0.00	
23	0.361	68.41	0.01	
24	0.38	68.40	0.00	
25	0.4	68.40	0.00	
26	0.421	68.40	0.00	
27	0.443	68.40	0.00	
28	0.466	68.40	0.00	
29	0.491	68.41	0.01	
30	0.517	68.41	0.01	
31	0.545	68.41	0.01	

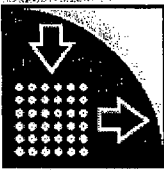
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 2
Data observed at: SM9-10		Pumping test: Test 4		
Distance from PW: 75.8 [ft]		Pumping well: CPW2002		
Depth to static WL: 68.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
32	0.575	68.40	0.00	
33	0.606	68.41	0.01	
34	0.64	68.41	0.01	
35	0.675	68.41	0.01	
36	0.712	68.41	0.01	
37	0.752	68.41	0.01	
38	0.793	68.41	0.01	
39	0.838	68.41	0.01	
40	0.885	68.41	0.01	
41	0.935	68.41	0.01	
42	0.987	68.41	0.01	
43	1.043	68.41	0.01	
44	1.102	68.41	0.01	
45	1.165	68.41	0.01	
46	1.231	68.41	0.01	
47	1.302	68.42	0.02	
48	1.376	68.42	0.02	
49	1.455	68.42	0.02	
50	1.539	68.42	0.02	
51	1.627	68.42	0.02	
52	1.721	68.43	0.03	
53	1.82	68.42	0.02	
54	1.926	68.42	0.02	
55	2.037	68.41	0.01	
56	2.155	68.41	0.01	
57	2.281	68.41	0.01	
58	2.413	68.42	0.02	
59	2.554	68.42	0.02	
60	2.702	68.42	0.02	
61	2.86	68.42	0.02	
62	3.027	68.43	0.03	

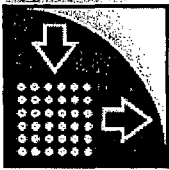
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 3
Data observed at: SM9-10		Pumping test: Test 4		
Distance from PW: 75.8 [ft]		Pumping well: CPW2002		
Depth to static WL: 68.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
63	3.204	68.43	0.03	
64	3.391	68.43	0.03	
65	3.589	68.42	0.02	
66	3.799	68.42	0.02	
67	4.022	68.42	0.02	
68	4.258	68.41	0.01	
69	4.508	68.41	0.01	
70	4.772	68.41	0.01	
71	5.053	68.41	0.01	
72	5.35	68.40	0.00	
73	5.664	68.40	0.00	
74	5.997	68.40	0.00	
75	6.35	68.40	0.00	
76	6.724	68.39	-0.01	
77	7.12	68.39	-0.01	
78	7.539	68.39	-0.01	
79	7.984	68.39	-0.01	
80	8.454	68.40	0.00	
81	8.953	68.40	0.00	
82	9.481	68.40	0.00	
83	10.04	68.39	-0.01	
84	10.633	68.40	0.00	
85	11.26	68.39	-0.01	
86	11.925	68.38	-0.02	
87	12.629	68.38	-0.02	
88	13.375	68.37	-0.03	
89	14.165	68.37	-0.03	
90	15.002	68.39	-0.01	
91	15.888	68.39	-0.01	
92	16.827	68.40	0.00	
93	17.822	68.40	0.00	

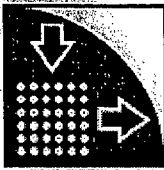
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 4
Data observed at: SM9-10		Pumping test: Test 4		
Distance from PW: 75.8 [ft]		Pumping well: CPW2002		
Depth to static WL: 68.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
94	18.876	68.40	0.00	
95	19.992	68.40	0.00	
96	21.174	68.39	-0.01	
97	22.426	68.40	0.00	
98	23.752	68.40	0.00	
99	25.157	68.40	0.00	
100	26.646	68.39	-0.01	
101	28.222	68.39	-0.01	
102	29.892	68.39	-0.01	
103	31.661	68.38	-0.02	
104	33.535	68.40	0.00	
105	35.519	68.38	-0.02	
106	37.622	68.38	-0.02	
107	39.848	68.40	0.00	
108	42.207	68.39	-0.01	
109	44.706	68.37	-0.03	
110	47.353	68.40	0.00	
111	50.156	68.37	-0.03	
112	53.126	68.37	-0.03	
113	56.271	68.38	-0.02	
114	59.603	68.37	-0.03	
115	63.133	68.37	-0.03	
116	66.871	68.36	-0.04	
117	70.832	68.36	-0.04	
118	75.026	68.37	-0.03	
119	79.47	68.36	-0.04	
120	84.176	68.36	-0.04	
121	89.162	68.37	-0.03	
122	94.443	68.36	-0.04	
123	100.037	68.36	-0.04	
124	105.962	68.35	-0.05	

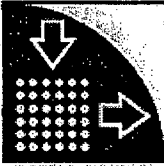
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 5
Data observed at: SM9-10		Pumping test: Test 4		
Distance from PW: 75.8 [ft]		Pumping well: CPW2002		
Depth to static WL: 68.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
125	112.238	68.36	-0.04	
126	118.887	68.36	-0.04	
127	125.929	68.35	-0.05	
128	133.388	68.35	-0.05	
129	141.29	68.35	-0.05	
130	149.659	68.34	-0.06	
131	158.525	68.34	-0.06	
132	167.916	68.33	-0.07	
133	177.864	68.34	-0.06	
134	187.864	68.33	-0.07	
135	197.864	68.34	-0.06	
136	207.864	68.33	-0.07	
137	217.864	68.33	-0.07	
138	227.864	68.33	-0.07	
139	237.864	68.32	-0.08	
140	247.864	68.32	-0.08	
141	257.864	68.33	-0.07	
142	267.864	68.33	-0.07	
143	277.864	68.32	-0.08	
144	287.864	68.33	-0.07	
145	297.864	68.32	-0.08	
146	307.864	68.33	-0.07	
147	317.864	68.32	-0.08	
148	327.864	68.32	-0.08	
149	337.864	68.32	-0.08	
150	347.864	68.32	-0.08	
151	357.864	68.33	-0.07	
152	367.864	68.32	-0.08	
153	377.864	68.32	-0.08	
154	387.864	68.32	-0.08	
155	397.864	68.32	-0.08	

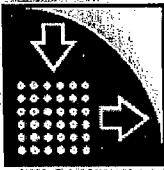
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 6
Data observed at: SM9-10		Pumping test: Test 4		
Distance from PW: 75.8 [ft]		Pumping well: CPW2002		
Depth to static WL: 68.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
156	407.864	68.33	-0.07	
157	417.864	68.32	-0.08	
158	427.864	68.32	-0.08	
159	437.864	68.32	-0.08	
160	447.864	68.32	-0.08	
161	457.864	68.32	-0.08	
162	467.864	68.32	-0.08	
163	477.864	68.32	-0.08	
164	487.864	68.32	-0.08	
165	497.864	68.32	-0.08	
166	507.864	68.32	-0.08	
167	517.864	68.31	-0.09	
168	527.864	68.32	-0.08	
169	537.864	68.32	-0.08	
170	547.864	68.32	-0.08	
171	557.864	68.31	-0.09	
172	567.864	68.31	-0.09	
173	577.864	68.31	-0.09	
174	587.864	68.31	-0.09	
175	597.864	68.31	-0.09	
176	607.864	68.31	-0.09	
177	617.864	68.31	-0.09	
178	627.864	68.31	-0.09	
179	637.864	68.31	-0.09	
180	647.864	68.31	-0.09	
181	657.864	68.30	-0.10	
182	667.864	68.30	-0.10	
183	677.864	68.30	-0.10	
184	687.864	68.30	-0.10	
185	697.864	68.29	-0.11	
186	707.864	68.30	-0.10	

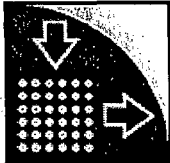
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 7
Data observed at: SM9-10		Pumping test: Test 4		
Distance from PW: 75.8 [ft]		Pumping well: CPW2002		
Depth to static WL: 68.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
187	717.864	68.30	-0.10	
188	727.864	68.30	-0.10	
189	737.864	68.30	-0.10	
190	747.864	68.29	-0.11	
191	757.864	68.29	-0.11	
192	767.864	68.29	-0.11	
193	777.864	68.29	-0.11	
194	787.864	68.29	-0.11	
195	797.864	68.29	-0.11	
196	807.864	68.29	-0.11	
197	817.864	68.29	-0.11	
198	827.864	68.28	-0.12	
199	837.864	68.29	-0.11	
200	847.864	68.29	-0.11	
201	857.864	68.29	-0.11	
202	867.864	68.29	-0.11	
203	877.864	68.29	-0.11	
204	887.864	68.29	-0.11	
205	897.864	68.30	-0.10	
206	907.864	68.29	-0.11	
207	917.864	68.29	-0.11	
208	927.864	68.30	-0.10	
209	937.864	68.30	-0.10	
210	947.864	68.31	-0.09	
211	957.864	68.31	-0.09	
212	967.864	68.30	-0.10	
213	977.864	68.30	-0.10	
214	987.864	68.32	-0.08	
215	997.864	68.30	-0.10	
216	1007.864	68.31	-0.09	
217	1017.864	68.31	-0.09	

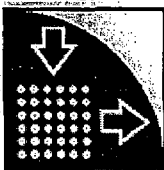
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 8
Data observed at: SM9-10		Pumping test: Test 4		
Distance from PW: 75.8 [ft]		Pumping well: CPW2002		
Depth to static WL: 68.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
218	1027.864	68.32	-0.08	
219	1037.864	68.31	-0.09	
220	1047.864	68.32	-0.08	
221	1057.864	68.32	-0.08	
222	1067.864	68.33	-0.07	
223	1077.864	68.31	-0.09	
224	1087.864	68.32	-0.08	
225	1097.864	68.32	-0.08	
226	1107.864	68.33	-0.07	
227	1117.864	68.33	-0.07	
228	1127.864	68.35	-0.05	
229	1137.864	68.32	-0.08	
230	1147.864	68.32	-0.08	
231	1157.864	68.32	-0.08	
232	1167.864	68.32	-0.08	
233	1177.864	68.33	-0.07	
234	1187.864	68.32	-0.08	
235	1197.864	68.35	-0.05	
236	1207.864	68.35	-0.05	
237	1217.864	68.31	-0.09	
238	1227.864	68.32	-0.08	
239	1237.864	68.32	-0.08	
240	1247.864	68.33	-0.07	
241	1257.864	68.34	-0.06	
242	1267.864	68.33	-0.07	
243	1277.864	68.33	-0.07	
244	1287.864	68.32	-0.08	
245	1297.864	68.31	-0.09	
246	1307.864	68.32	-0.08	
247	1317.864	68.32	-0.08	
248	1327.864	68.33	-0.07	

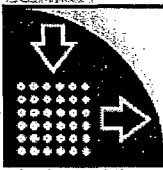
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 9
Data observed at: SM9-10		Pumping test: Test 4		
Distance from PW: 75.8 [ft]		Pumping well: CPW2002		
Depth to static WL: 68.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
249	1337.864	68.33	-0.07	
250	1347.864	68.33	-0.07	
251	1367.864	68.31	-0.09	
252	1377.864	68.33	-0.07	
253	1387.864	68.32	-0.08	
254	1397.864	68.32	-0.08	
255	1407.864	68.34	-0.06	
256	1417.864	68.33	-0.07	
257	1427.864	68.32	-0.08	
258	1437.864	68.32	-0.08	
259	1447.864	68.33	-0.07	
260	1457.864	68.31	-0.09	
261	1467.864	68.33	-0.07	
262	1477.864	68.31	-0.09	
263	1487.864	68.31	-0.09	
264	1497.864	68.31	-0.09	
265	1507.864	68.30	-0.10	
266	1517.864	68.30	-0.10	
267	1527.864	68.29	-0.11	
268	1537.864	68.29	-0.11	
269	1547.864	68.29	-0.11	
270	1557.864	68.32	-0.08	
271	1567.864	68.32	-0.08	
272	1577.864	68.29	-0.11	
273	1587.864	68.29	-0.11	
274	1597.864	68.28	-0.12	
275	1607.864	68.28	-0.12	
276	1617.864	68.28	-0.12	
277	1627.864	68.28	-0.12	
278	1637.864	68.28	-0.12	
279	1647.864	68.28	-0.12	

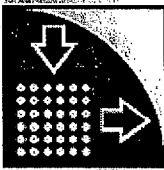
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 10
Data observed at: SM9-10		Pumping test: Test 4		
Distance from PW: 75.8 [ft]		Pumping well: CPW2002		
Depth to static WL: 68.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
280	1657.864	68.28	-0.12	
281	1667.864	68.28	-0.12	
282	1677.864	68.27	-0.13	
283	1687.864	68.28	-0.12	
284	1697.864	68.27	-0.13	
285	1707.864	68.27	-0.13	
286	1717.864	68.29	-0.11	
287	1727.864	68.27	-0.13	
288	1737.864	68.29	-0.11	
289	1747.864	68.30	-0.10	
290	1757.864	68.30	-0.10	
291	1767.864	68.30	-0.10	
292	1777.864	68.29	-0.11	
293	1787.864	68.29	-0.11	
294	1797.864	68.31	-0.09	
295	1807.864	68.29	-0.11	
296	1817.864	68.31	-0.09	
297	1827.864	68.30	-0.10	
298	1837.864	68.30	-0.10	
299	1847.864	68.31	-0.09	
300	1857.864	68.31	-0.09	
301	1867.864	68.31	-0.09	
302	1877.864	68.32	-0.08	
303	1887.864	68.32	-0.08	
304	1897.864	68.31	-0.09	
305	1907.864	68.31	-0.09	
306	1917.864	68.31	-0.09	
307	1927.864	68.30	-0.10	
308	1937.864	68.32	-0.08	
309	1947.864	68.30	-0.10	
310	1957.864	68.31	-0.09	

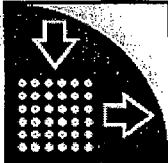
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 11
Data observed at: SM9-10		Pumping test: Test 4	
Distance from PW: 75.8 [ft]		Pumping well: CPW2002	
Depth to static WL: 68.4 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
311	1967.864	68.30	-0.10
312	1977.864	68.32	-0.08
313	1987.864	68.31	-0.09
314	1997.864	68.32	-0.08
315	2007.864	68.30	-0.10
316	2017.864	68.30	-0.10
317	2027.864	68.30	-0.10
318	2037.864	68.31	-0.09
319	2047.864	68.31	-0.09
320	2057.864	68.31	-0.09
321	2067.864	68.31	-0.09
322	2077.864	68.31	-0.09
323	2087.864	68.31	-0.09
324	2097.864	68.31	-0.09
325	2107.864	68.31	-0.09
326	2117.864	68.31	-0.09
327	2127.864	68.32	-0.08
328	2137.864	68.32	-0.08
329	2147.864	68.31	-0.09
330	2157.864	68.31	-0.09
331	2167.864	68.31	-0.09
332	2177.864	68.30	-0.10
333	2187.864	68.31	-0.09
334	2197.864	68.31	-0.09
335	2207.864	68.31	-0.09
336	2217.864	68.31	-0.09
337	2227.864	68.31	-0.09
338	2237.864	68.31	-0.09
339	2247.864	68.32	-0.08
340	2257.864	68.31	-0.09
341	2267.864	68.32	-0.08

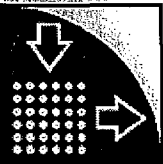
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 12
Data observed at: SM9-10		Pumping test: Test 4		
Distance from PW: 75.8 [ft]		Pumping well: CPW2002		
Depth to static WL: 68.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
342	2277.864	68.32	-0.08	
343	2287.864	68.32	-0.08	
344	2297.864	68.32	-0.08	
345	2307.864	68.32	-0.08	
346	2317.864	68.32	-0.08	
347	2327.864	68.32	-0.08	
348	2337.864	68.33	-0.07	
349	2347.864	68.32	-0.08	
350	2357.864	68.33	-0.07	
351	2367.864	68.33	-0.07	
352	2377.864	68.33	-0.07	
353	2387.864	68.33	-0.07	
354	2397.864	68.34	-0.06	
355	2407.864	68.34	-0.06	
356	2417.864	68.34	-0.06	
357	2427.864	68.32	-0.08	
358	2437.864	68.34	-0.06	
359	2447.864	68.34	-0.06	
360	2457.864	68.35	-0.05	
361	2467.864	68.32	-0.08	
362	2477.864	68.35	-0.05	
363	2487.864	68.36	-0.04	
364	2497.864	68.36	-0.04	
365	2507.864	68.36	-0.04	
366	2517.864	68.36	-0.04	
367	2527.864	68.35	-0.05	
368	2537.864	68.35	-0.05	
369	2547.864	68.31	-0.09	
370	2557.864	68.36	-0.04	
371	2567.864	68.35	-0.05	
372	2577.864	68.38	-0.02	

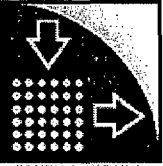
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 13
Data observed at: SM9-10		Pumping test: Test 4	
Distance from PW: 75.8 [ft]		Pumping well: CPW2002	
Depth to static WL: 68.4 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
373	2587.864	68.38	-0.02
374	2597.864	68.35	-0.05
375	2607.864	68.37	-0.03
376	2617.864	68.37	-0.03
377	2627.864	68.41	0.01
378	2637.864	68.39	-0.01
379	2647.864	68.38	-0.02
380	2657.864	68.38	-0.02
381	2667.864	68.37	-0.03
382	2677.864	68.37	-0.03
383	2687.864	68.39	-0.01
384	2697.864	68.36	-0.04
385	2707.864	68.39	-0.01
386	2717.864	68.35	-0.05
387	2727.864	68.36	-0.04
388	2737.864	68.38	-0.02
389	2747.864	68.38	-0.02
390	2757.864	68.34	-0.06
391	2767.864	68.38	-0.02
392	2777.864	68.28	-0.12
393	2787.864	68.34	-0.06
394	2797.864	68.37	-0.03
395	2807.864	68.43	0.03
396	2817.864	68.37	-0.03
397	2827.864	68.41	0.01
398	2837.864	68.35	-0.05
399	2847.864	68.36	-0.04
400	2857.864	68.38	-0.02
401	2867.864	68.36	-0.04
402	2877.864	68.36	-0.04
403	2887.864	68.36	-0.04

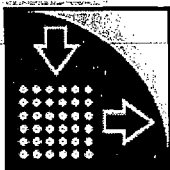
	Petrotek Engineering		Pumping Test Data Report	
	9088 S. Ridgeline Blvd., Suite 105		Project: Pumping Test #4	
	Littleton, CO 80433 USA		No:	
	303-290-9414		Client: Crow Butte Resources	Page 14
Data observed at: SM9-10		Pumping test: Test 4		
Distance from PW: 75.8 [ft]		Pumping well: CPW2002		
Depth to static WL: 68.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
404	2897.864	68.35	-0.05	
405	2907.864	68.35	-0.05	
406	2917.864	68.31	-0.09	
407	2927.864	68.37	-0.03	
408	2937.864	68.37	-0.03	
409	2947.864	68.33	-0.07	
410	2957.864	68.32	-0.08	
411	2967.864	68.34	-0.06	
412	2977.864	68.35	-0.05	
413	2987.864	68.34	-0.06	
414	2997.864	68.34	-0.06	
415	3007.864	68.34	-0.06	
416	3017.864	68.35	-0.05	
417	3027.864	68.35	-0.05	
418	3037.864	68.35	-0.05	
419	3047.864	68.35	-0.05	
420	3057.864	68.35	-0.05	
421	3067.864	68.35	-0.05	
422	3077.864	68.35	-0.05	
423	3087.864	68.35	-0.05	
424	3097.864	68.36	-0.04	
425	3107.864	68.36	-0.04	
426	3117.864	68.37	-0.03	
427	3127.864	68.34	-0.06	
428	3137.864	68.37	-0.03	
429	3147.864	68.38	-0.02	
430	3157.864	68.38	-0.02	
431	3167.864	68.38	-0.02	
432	3177.864	68.38	-0.02	
433	3187.864	68.39	-0.01	
434	3197.864	68.39	-0.01	

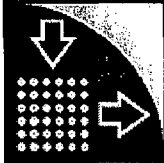
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 15
Data observed at: SM9-10		Pumping test: Test 4	
Distance from PW: 75.8 [ft]		Pumping well: CPW2002	
Depth to static WL: 68.4 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
435	3207.864	68.39	-0.01
436	3217.864	68.39	-0.01
437	3227.864	68.39	-0.01
438	3237.864	68.40	0.00
439	3247.864	68.40	0.00
440	3257.864	68.39	-0.01
441	3267.864	68.40	0.00
442	3277.864	68.40	0.00
443	3287.864	68.40	0.00
444	3297.864	68.41	0.01
445	3307.864	68.41	0.01
446	3317.864	68.41	0.01
447	3327.864	68.41	0.01
448	3337.864	68.41	0.01
449	3347.864	68.41	0.01
450	3357.864	68.42	0.02
451	3367.864	68.42	0.02
452	3377.864	68.42	0.02
453	3387.864	68.41	0.01
454	3397.864	68.41	0.01
455	3407.864	68.41	0.01
456	3417.864	68.42	0.02
457	3427.864	68.42	0.02
458	3437.864	68.42	0.02
459	3447.864	68.43	0.03
460	3457.864	68.43	0.03
461	3467.864	68.43	0.03
462	3477.864	68.42	0.02
463	3487.864	68.42	0.02
464	3497.864	68.42	0.02
465	3507.864	68.42	0.02

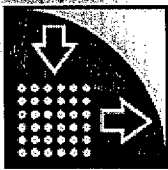
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 16
Data observed at: SM9-10		Pumping test: Test 4		
Distance from PW: 75.8 [ft]		Pumping well: CPW2002		
Depth to static WL: 68.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
466	3517.864	68.42	0.02	
467	3527.864	68.42	0.02	
468	3537.864	68.42	0.02	
469	3547.864	68.42	0.02	
470	3557.864	68.42	0.02	
471	3567.864	68.42	0.02	
472	3577.864	68.42	0.02	
473	3587.864	68.42	0.02	
474	3597.864	68.42	0.02	
475	3607.864	68.41	0.01	
476	3617.864	68.42	0.02	
477	3627.864	68.42	0.02	
478	3637.864	68.42	0.02	
479	3647.864	68.42	0.02	
480	3657.864	68.42	0.02	
481	3667.864	68.42	0.02	
482	3677.864	68.42	0.02	
483	3687.864	68.42	0.02	
484	3697.864	68.42	0.02	
485	3707.864	68.42	0.02	
486	3717.864	68.42	0.02	
487	3727.864	68.42	0.02	
488	3737.864	68.43	0.03	
489	3747.864	68.43	0.03	
490	3757.864	68.43	0.03	
491	3767.864	68.43	0.03	
492	3777.864	68.43	0.03	
493	3787.864	68.44	0.04	
494	3797.864	68.44	0.04	
495	3807.864	68.44	0.04	
496	3817.864	68.44	0.04	

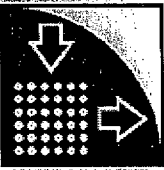
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 17
Data observed at: SM9-10		Pumping test: Test 4		
Distance from PW: 75.8 [ft]		Pumping well: CPW2002		
Depth to static WL: 68.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
497	3827.864	68.44	0.04	
498	3837.864	68.45	0.05	
499	3870	68.45	0.05	
500	3870.017	68.45	0.05	
501	3870.033	68.45	0.05	
502	3870.05	68.45	0.05	
503	3870.066	68.45	0.05	
504	3870.082	68.45	0.05	
505	3870.099	68.45	0.05	
506	3870.115	68.45	0.05	
507	3870.132	68.45	0.05	
508	3870.148	68.45	0.05	
509	3870.165	68.45	0.05	
510	3870.182	68.45	0.05	
511	3870.198	68.45	0.05	
512	3870.215	68.45	0.05	
513	3870.231	68.45	0.05	
514	3870.247	68.45	0.05	
515	3870.264	68.45	0.05	
516	3870.28	68.45	0.05	
517	3870.297	68.45	0.05	
518	3870.314	68.45	0.05	
519	3870.33	68.45	0.05	
520	3870.347	68.45	0.05	
521	3870.364	68.45	0.05	
522	3870.383	68.45	0.05	
523	3870.403	68.45	0.05	
524	3870.424	68.45	0.05	
525	3870.446	68.45	0.05	
526	3870.47	68.45	0.05	
527	3870.494	68.45	0.05	

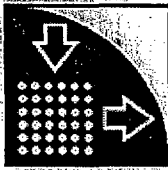
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 18
Data observed at: SM9-10		Pumping test: Test 4	
Distance from PW: 75.8 [ft]		Pumping well: CPW2002	
Depth to static WL: 68.4 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
528	3870.521	68.45	0.05
529	3870.549	68.45	0.05
530	3870.578	68.45	0.05
531	3870.61	68.45	0.05
532	3870.643	68.45	0.05
533	3870.678	68.45	0.05
534	3870.715	68.45	0.05
535	3870.755	68.45	0.05
536	3870.797	68.45	0.05
537	3870.841	68.45	0.05
538	3870.888	68.45	0.05
539	3870.938	68.45	0.05
540	3870.99	68.45	0.05
541	3871.046	68.45	0.05
542	3871.106	68.45	0.05
543	3871.168	68.45	0.05
544	3871.235	68.45	0.05
545	3871.305	68.45	0.05
546	3871.379	68.45	0.05
547	3871.458	68.45	0.05
548	3871.542	68.45	0.05
549	3871.631	68.45	0.05
550	3871.724	68.45	0.05
551	3871.824	68.45	0.05
552	3871.929	68.45	0.05
553	3872.041	68.45	0.05
554	3872.159	68.45	0.05
555	3872.284	68.45	0.05
556	3872.416	68.45	0.05
557	3872.557	68.45	0.05
558	3872.706	68.45	0.05

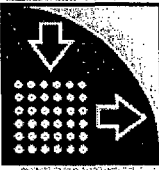
	Petrotek Engineering		Pumping Test Data Report	
	9088 S. Ridgeline Blvd., Suite 105		Project: Pumping Test #4	
	Littleton, CO 80433 USA		No:	
	303-290-9414		Client: Crow Butte Resources	Page 19
Data observed at: SM9-10		Pumping test: Test 4		
Distance from PW: 75.8 [ft]		Pumping well: CPW2002		
Depth to static WL: 68.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
559	3872.863	68.45	0.05	
560	3873.03	68.45	0.05	
561	3873.207	68.45	0.05	
562	3873.394	68.45	0.05	
563	3873.593	68.45	0.05	
564	3873.803	68.45	0.05	
565	3874.025	68.45	0.05	
566	3874.261	68.45	0.05	
567	3874.511	68.45	0.05	
568	3874.776	68.45	0.05	
569	3875.056	68.45	0.05	
570	3875.353	68.45	0.05	
571	3875.667	68.45	0.05	
572	3876.001	68.45	0.05	
573	3876.353	68.45	0.05	
574	3876.727	68.45	0.05	
575	3877.123	68.45	0.05	
576	3877.543	68.45	0.05	
577	3877.987	68.45	0.05	
578	3878.457	68.45	0.05	
579	3878.956	68.45	0.05	
580	3879.484	68.45	0.05	
581	3880.043	68.46	0.06	
582	3880.636	68.46	0.06	
583	3881.263	68.46	0.06	
584	3881.928	68.46	0.06	
585	3882.632	68.46	0.06	
586	3883.378	68.47	0.07	
587	3884.168	68.47	0.07	
588	3885.005	68.47	0.07	
589	3885.892	68.46	0.06	

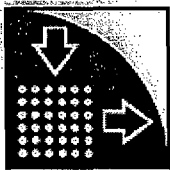
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 20
Data observed at: SM9-10		Pumping test: Test 4		
Distance from PW: 75.8 [ft]		Pumping well: CPW2002		
Depth to static WL: 68.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
590	3886.831	68.46	0.06	
591	3887.825	68.45	0.05	
592	3888.879	68.45	0.05	
593	3889.995	68.44	0.04	
594	3891.177	68.45	0.05	
595	3892.429	68.45	0.05	
596	3893.756	68.45	0.05	
597	3895.161	68.45	0.05	
598	3896.649	68.45	0.05	
599	3898.226	68.46	0.06	
600	3899.895	68.47	0.07	
601	3901.664	68.47	0.07	
602	3903.538	68.46	0.06	
603	3905.523	68.46	0.06	
604	3907.625	68.49	0.09	
605	3909.852	68.46	0.06	
606	3912.211	68.46	0.06	
607	3914.709	68.46	0.06	
608	3917.356	68.46	0.06	
609	3920.159	68.46	0.06	
610	3923.129	68.46	0.06	
611	3926.275	68.47	0.07	
612	3929.607	68.47	0.07	
613	3933.136	68.48	0.08	
614	3936.875	68.48	0.08	
615	3940.835	68.47	0.07	
616	3945.03	68.50	0.10	
617	3949.473	68.49	0.09	
618	3954.18	68.49	0.09	
619	3959.165	68.49	0.09	
620	3964.446	68.50	0.10	

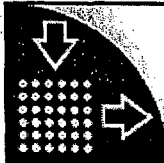
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 21
Data observed at: SM9-10		Pumping test: Test 4	
Distance from PW: 75.8 [ft]		Pumping well: CPW2002	
Depth to static WL: 68.4 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
621	3970.04	68.48	0.08
622	3975.965	68.50	0.10
623	3982.242	68.49	0.09
624	3988.89	68.50	0.09
625	3995.932	68.50	0.10
626	4003.392	68.50	0.10
627	4011.293	68.50	0.10
628	4019.663	68.51	0.11
629	4028.528	68.49	0.09
630	4037.919	68.49	0.09
631	4047.867	68.51	0.11
632	4058.404	68.51	0.11
633	4069.565	68.50	0.10
634	4081.387	68.52	0.12
635	4093.911	68.52	0.12
636	4107.176	68.52	0.12
637	4121.227	68.50	0.10
638	4136.111	68.50	0.10
639	4151.111	68.51	0.11
640	4166.111	68.52	0.12
641	4181.111	68.51	0.11
642	4196.111	68.51	0.11
643	4211.111	68.52	0.12
644	4226.111	68.51	0.11
645	4241.111	68.50	0.10
646	4256.111	68.50	0.10
647	4271.111	68.49	0.09
648	4286.111	68.46	0.06
649	4301.111	68.48	0.08
650	4316.111	68.45	0.05
651	4331.111	68.46	0.06

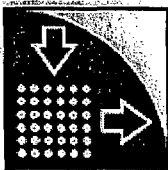
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 22
Data observed at: SM9-10		Pumping test: Test 4	
Distance from PW: 75.8 [ft]		Pumping well: CPW2002	
Depth to static WL: 68.4 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
652	4346.111	68.47	0.07
653	4361.111	68.47	0.07
654	4376.111	68.47	0.07
655	4391.111	68.46	0.06
656	4406.111	68.46	0.06
657	4421.111	68.46	0.06
658	4436.111	68.46	0.06
659	4451.111	68.44	0.04
660	4466.111	68.47	0.07
661	4481.111	68.47	0.07
662	4496.111	68.45	0.05
663	4511.111	68.47	0.07
664	4526.111	68.47	0.07
665	4541.111	68.47	0.07
666	4556.111	68.46	0.06
667	4571.111	68.46	0.06
668	4586.111	68.46	0.06
669	4601.111	68.45	0.05
670	4616.111	68.46	0.06
671	4631.111	68.46	0.06
672	4646.111	68.46	0.06
673	4661.111	68.46	0.06
674	4676.111	68.47	0.07
675	4691.111	68.47	0.07
676	4706.111	68.47	0.07
677	4721.111	68.47	0.07
678	4736.111	68.47	0.07
679	4751.111	68.48	0.08
680	4766.111	68.46	0.06
681	4781.111	68.47	0.07
682	4796.111	68.47	0.07

	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 23
Data observed at: SM9-10		Pumping test: Test 4		
Distance from PW: 75.8 [ft]		Pumping well: CPW2002		
Depth to static WL: 68.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
683	4811.111	68.47	0.07	
684	4826.111	68.46	0.06	
685	4841.111	68.47	0.07	
686	4856.111	68.47	0.07	
687	4871.111	68.46	0.06	
688	4886.111	68.46	0.06	
689	4901.111	68.47	0.07	
690	4916.111	68.47	0.07	
691	4931.111	68.46	0.06	
692	4946.111	68.46	0.06	
693	4961.111	68.46	0.06	
694	4976.111	68.46	0.06	
695	4991.111	68.46	0.06	
696	5006.111	68.46	0.06	
697	5021.111	68.46	0.06	
698	5036.111	68.45	0.05	
699	5051.111	68.45	0.05	
700	5066.111	68.45	0.05	
701	5081.111	68.45	0.05	
702	5096.111	68.46	0.06	
703	5111.111	68.45	0.05	
704	5126.111	68.45	0.05	
705	5141.111	68.45	0.05	
706	5156.111	68.46	0.06	
707	5171.111	68.46	0.06	
708	5186.111	68.46	0.06	
709	5201.111	68.46	0.06	
710	5216.111	68.46	0.06	
711	5231.111	68.46	0.06	
712	5246.111	68.47	0.07	
713	5261.111	68.46	0.06	

	Petrotek Engineering		Pumping Test Data Report	
	9088 S. Ridgeline Blvd., Suite 105		Project: Pumping Test #4	
	Littleton, CO 80433 USA		No:	
	303-290-9414		Client: Crow Butte Resources	Page 24
Data observed at: SM9-10		Pumping test: Test 4		
Distance from PW: 75.8 [ft]		Pumping well: CPW2002		
Depth to static WL: 68.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
714	5276.111	68.47	0.07	
715	5291.111	68.47	0.07	
716	5306.111	68.47	0.07	
717	5321.111	68.48	0.08	
718	5336.111	68.48	0.08	
719	5351.111	68.48	0.08	
720	5366.111	68.47	0.07	
721	5381.111	68.48	0.08	
722	5396.111	68.47	0.07	
723	5411.111	68.49	0.09	
724	5426.111	68.48	0.08	
725	5441.111	68.48	0.08	
726	5456.111	68.47	0.07	
727	5471.111	68.48	0.08	
728	5486.111	68.48	0.08	
729	5501.111	68.48	0.08	
730	5516.111	68.47	0.07	
731	5531.111	68.47	0.07	
732	5546.111	68.40	0.00	
733	5561.111	68.48	0.08	
734	5576.111	68.48	0.08	
735	5591.111	68.48	0.08	
736	5606.111	68.45	0.05	
737	5621.111	68.49	0.09	
738	5636.111	68.46	0.06	
739	5651.111	68.48	0.08	
740	5666.111	68.43	0.03	
741	5681.111	68.46	0.06	
742	5696.111	68.47	0.07	
743	5711.111	68.49	0.09	
744	5726.111	68.44	0.04	

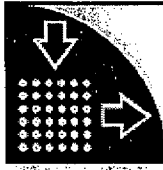
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 25
Data observed at: SM9-10		Pumping test: Test 4		
Distance from PW: 75.8 [ft]		Pumping well: CPW2002		
Depth to static WL: 68.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
745	5741.111	68.47	0.07	
746	5756.111	68.45	0.05	
747	5771.111	68.43	0.03	
748	5786.111	68.42	0.02	
749	5801.111	68.43	0.03	
750	5816.111	68.42	0.02	
751	5831.111	68.42	0.02	
752	5846.111	68.42	0.02	
753	5861.111	68.40	0.00	
754	5876.111	68.36	-0.04	
755	5891.111	68.44	0.04	
756	5906.111	68.42	0.02	
757	5921.111	68.42	0.02	
758	5936.111	68.42	0.02	
759	5951.111	68.42	0.02	
760	5966.111	68.42	0.02	
761	5981.111	68.42	0.02	
762	5996.111	68.42	0.02	
763	6011.111	68.42	0.02	
764	6026.111	68.42	0.02	
765	6041.111	68.42	0.02	
766	6056.111	68.42	0.02	
767	6071.111	68.42	0.02	
768	6086.111	68.42	0.02	
769	6101.111	68.42	0.02	
770	6116.111	68.42	0.02	
771	6131.111	68.43	0.03	
772	6146.111	68.42	0.02	
773	6161.111	68.42	0.02	
774	6176.111	68.43	0.03	
775	6191.111	68.45	0.05	

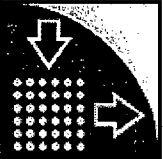
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 26
Data observed at: SM9-10		Pumping test: Test 4		
Distance from PW: 75.8 [ft]		Pumping well: CPW2002		
Depth to static WL: 68.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
776	6206.111	68.45	0.05	
777	6221.111	68.45	0.05	
778	6236.111	68.45	0.05	
779	6251.111	68.46	0.06	
780	6266.111	68.44	0.04	
781	6281.111	68.46	0.06	
782	6296.111	68.46	0.06	
783	6311.111	68.46	0.06	
784	6326.111	68.46	0.06	
785	6341.111	68.45	0.05	
786	6356.111	68.45	0.05	
787	6371.111	68.45	0.05	
788	6386.111	68.44	0.04	
789	6401.111	68.44	0.04	
790	6416.111	68.44	0.04	
791	6431.111	68.42	0.02	
792	6446.111	68.44	0.04	
793	6461.111	68.45	0.05	
794	6476.111	68.46	0.06	
795	6491.111	68.46	0.06	
796	6506.111	68.45	0.05	
797	6521.111	68.45	0.05	
798	6536.111	68.45	0.05	
799	6551.111	68.44	0.04	
800	6566.111	68.43	0.03	
801	6581.111	68.43	0.03	
802	6596.111	68.43	0.03	
803	6611.111	68.43	0.03	
804	6626.111	68.43	0.03	
805	6641.111	68.43	0.03	
806	6656.111	68.42	0.02	

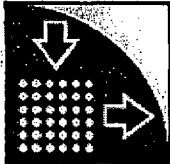
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 27
Data observed at: SM9-10		Pumping test: Test 4		
Distance from PW: 75.8 [ft]		Pumping well: CPW2002		
Depth to static WL: 68.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
807	6671.111	68.44	0.04	
808	6686.111	68.44	0.04	
809	6701.111	68.44	0.04	
810	6716.111	68.44	0.04	
811	6731.111	68.44	0.04	
812	6746.111	68.44	0.04	
813	6761.111	68.45	0.05	
814	6776.111	68.44	0.04	
815	6791.111	68.45	0.05	
816	6806.111	68.44	0.04	
817	6821.111	68.44	0.04	
818	6836.111	68.44	0.04	
819	6851.111	68.45	0.05	
820	6866.111	68.44	0.04	
821	6881.111	68.44	0.04	
822	6896.111	68.43	0.03	
823	6911.111	68.44	0.04	
824	6926.111	68.46	0.06	
825	6941.111	68.46	0.06	
826	6956.111	68.46	0.06	
827	6971.111	68.46	0.06	
828	6986.111	68.47	0.07	
829	7001.111	68.46	0.06	

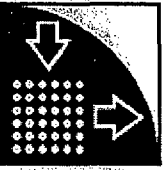
Appendix C

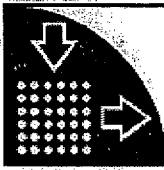
Chadron Formation Water Level Data

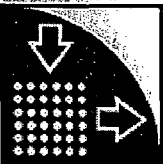
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 1
Data observed at: CPW2002		Pumping test: Test 4	
Distance from PW: 0 [ft]		Pumping well: CPW2002	
Depth to static WL: 247.4 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
1	0	247.40	0.00
2	0.016	247.40	0.00
3	0.033	247.42	0.02
4	0.049	247.39	-0.01
5	0.065	250.97	3.57
6	0.082	250.35	2.95
7	0.098	250.90	3.50
8	0.114	252.22	4.82
9	0.131	254.05	6.65
10	0.147	255.27	7.87
11	0.163	255.93	8.53
12	0.18	257.44	10.03
13	0.196	258.18	10.78
14	0.212	258.99	11.59
15	0.229	260.46	13.06
16	0.245	261.27	13.87
17	0.261	261.62	14.22
18	0.278	263.02	15.62
19	0.294	263.41	16.01
20	0.31	264.13	16.73
21	0.327	264.77	17.37
22	0.343	265.61	18.21
23	0.361	266.09	18.69
24	0.38	266.83	19.43
25	0.4	267.54	20.14
26	0.421	268.19	20.79
27	0.443	268.65	21.25
28	0.466	269.58	22.18
29	0.491	270.15	22.75
30	0.517	271.12	23.72
31	0.545	271.46	24.06

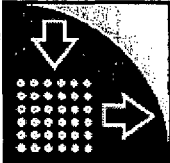
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 2
Data observed at: CPW2002		Pumping test: Test 4		
Distance from PW: 0 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
32	0.575	272.47	25.07	
33	0.606	272.67	25.27	
34	0.64	273.62	26.22	
35	0.675	274.36	26.96	
36	0.712	274.97	27.57	
37	0.752	275.38	27.98	
38	0.793	276.05	28.65	
39	0.838	276.69	29.28	
40	0.885	277.21	29.81	
41	0.935	277.71	30.31	
42	0.987	278.35	30.95	
43	1.043	278.65	31.25	
44	1.102	279.14	31.74	
45	1.165	279.67	32.27	
46	1.231	280.00	32.60	
47	1.302	280.44	33.04	
48	1.376	280.68	33.28	
49	1.455	281.15	33.75	
50	1.539	281.24	33.84	
51	1.627	281.58	34.18	
52	1.721	281.78	34.38	
53	1.82	281.94	34.54	
54	1.926	282.45	35.05	
55	2.037	282.45	35.05	
56	2.155	282.91	35.51	
57	2.281	283.16	35.76	
58	2.413	283.50	36.10	
59	2.554	283.46	36.06	
60	2.702	283.61	36.21	
61	2.86	284.04	36.64	
62	3.027	284.11	36.71	

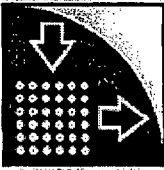
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 3
Data observed at: CPW2002		Pumping test: Test 4	
Distance from PW: 0 [ft]		Pumping well: CPW2002	
Depth to static WL: 247.4 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
63	3.204	284.16	36.76
64	3.391	284.54	37.14
65	3.589	284.40	37.00
66	3.799	284.77	37.37
67	4.022	284.83	37.43
68	4.258	284.98	37.58
69	4.508	284.88	37.48
70	4.772	285.25	37.85
71	5.053	284.95	37.55
72	5.35	285.14	37.74
73	5.664	285.36	37.96
74	5.997	285.12	37.72
75	6.35	284.99	37.59
76	6.724	284.95	37.55
77	7.12	285.27	37.87
78	7.539	285.01	37.61
79	7.984	285.37	37.97
80	8.454	285.68	38.28
81	8.953	285.57	38.17
82	9.481	285.48	38.08
83	10.04	285.78	38.38
84	10.633	285.60	38.20
85	11.26	285.74	38.34
86	11.925	286.00	38.60
87	12.629	286.03	38.63
88	13.375	285.90	38.50
89	14.165	286.16	38.76
90	15.002	286.36	38.96
91	15.888	286.45	39.05
92	16.827	286.44	39.04
93	17.822	286.29	38.89

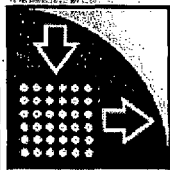
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 4
Data observed at: CPW2002		Pumping test: Test 4	
Distance from PW: 0 [ft]		Pumping well: CPW2002	
Depth to static WL: 247.4 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
94	18.876	286.54	39.14
95	19.992	286.70	39.30
96	21.174	286.51	39.11
97	22.426	286.49	39.09
98	23.752	286.81	39.41
99	25.157	286.92	39.52
100	26.646	287.10	39.70
101	28.222	287.18	39.78
102	29.892	286.97	39.57
103	31.661	287.03	39.63
104	33.535	287.25	39.85
105	35.519	287.21	39.81
106	37.622	287.39	39.99
107	39.848	287.58	40.18
108	42.207	287.51	40.11
109	44.706	287.69	40.28
110	47.353	287.54	40.14
111	50.156	287.65	40.25
112	53.126	287.76	40.36
113	56.271	287.81	40.41
114	59.603	287.83	40.43
115	63.133	287.83	40.43
116	66.871	288.00	40.60
117	70.832	288.14	40.74
118	75.026	287.98	40.58
119	79.47	288.10	40.70
120	84.176	288.32	40.92
121	89.162	288.20	40.80
122	94.443	288.13	40.73
123	100.037	288.37	40.97
124	105.962	288.43	41.03

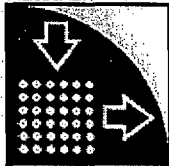
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 5
Data observed at: CPW2002		Pumping test: Test 4		
Distance from PW: 0 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
125	112.238	288.43	41.03	
126	118.887	288.22	40.82	
127	125.929	288.52	41.12	
128	133.388	288.49	41.09	
129	141.29	288.55	41.15	
130	149.659	288.75	41.35	
131	158.525	288.80	41.40	
132	167.916	288.85	41.45	
133	177.864	288.96	41.56	
134	187.864	289.07	41.67	
135	197.864	289.08	41.68	
136	207.864	289.11	41.71	
137	217.864	289.17	41.77	
138	227.864	289.40	42.00	
139	237.864	289.29	41.89	
140	247.864	289.28	41.88	
141	257.864	289.35	41.95	
142	267.864	289.44	42.04	
143	277.864	289.58	42.18	
144	287.864	289.41	42.01	
145	297.864	289.58	42.18	
146	307.864	289.54	42.14	
147	317.864	289.62	42.22	
148	327.864	289.69	42.29	
149	337.864	289.63	42.23	
150	347.864	289.99	42.59	
151	357.864	289.90	42.50	
152	367.864	289.87	42.47	
153	377.864	290.06	42.66	
154	387.864	289.82	42.42	
155	397.864	290.04	42.64	

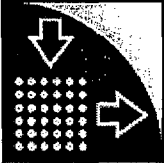
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 6
Data observed at: CPW2002		Pumping test: Test 4	
Distance from PW: 0 [ft]		Pumping well: CPW2002	
Depth to static WL: 247.4 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
156	407.864	290.07	42.67
157	417.864	290.13	42.73
158	427.864	290.17	42.77
159	437.864	289.99	42.59
160	447.864	290.15	42.75
161	457.864	290.27	42.87
162	467.864	290.43	43.03
163	477.864	290.24	42.84
164	487.864	290.38	42.98
165	497.864	290.41	43.01
166	507.864	290.46	43.06
167	517.864	290.37	42.97
168	527.864	290.43	43.03
169	537.864	290.40	43.00
170	547.864	290.62	43.22
171	557.864	290.40	43.00
172	567.864	290.42	43.02
173	577.864	290.67	43.27
174	587.864	290.56	43.16
175	597.864	290.57	43.17
176	607.864	290.64	43.24
177	617.864	290.57	43.17
178	627.864	290.62	43.22
179	637.864	290.73	43.33
180	647.864	290.79	43.39
181	657.864	290.75	43.35
182	667.864	290.64	43.24
183	677.864	290.75	43.35
184	687.864	290.73	43.33
185	697.864	290.61	43.21
186	707.864	290.64	43.24

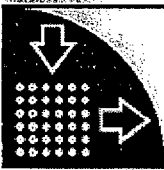
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 7
Data observed at: CPW2002		Pumping test: Test 4	
Distance from PW: 0 [ft]		Pumping well: CPW2002	
Depth to static WL: 247.4 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
187	717.864	290.66	43.26
188	727.864	290.63	43.23
189	737.864	290.73	43.33
190	747.864	290.64	43.24
191	757.864	290.77	43.37
192	767.864	290.63	43.23
193	777.864	290.86	43.46
194	787.864	291.00	43.60
195	797.864	290.70	43.30
196	807.864	290.91	43.51
197	817.864	290.82	43.42
198	827.864	290.80	43.40
199	837.864	290.73	43.33
200	847.864	290.71	43.31
201	857.864	290.86	43.46
202	867.864	290.88	43.48
203	877.864	290.96	43.56
204	887.864	290.70	43.30
205	897.864	290.82	43.42
206	907.864	290.74	43.34
207	917.864	290.76	43.36
208	927.864	290.79	43.39
209	937.864	290.75	43.35
210	947.864	290.78	43.38
211	957.864	290.73	43.33
212	967.864	290.71	43.31
213	977.864	290.97	43.57
214	987.864	290.74	43.34
215	997.864	290.70	43.30
216	1007.864	290.64	43.24
217	1017.864	290.84	43.44

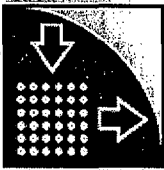
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 8
Data observed at: CPW2002		Pumping test: Test 4	
Distance from PW: 0 [ft]		Pumping well: CPW2002	
Depth to static WL: 247.4 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
218	1027.864	290.69	43.29
219	1037.864	290.71	43.31
220	1047.864	290.78	43.38
221	1057.864	290.81	43.41
222	1067.864	290.85	43.45
223	1077.864	290.73	43.33
224	1087.864	290.73	43.33
225	1097.864	290.86	43.46
226	1107.864	290.79	43.39
227	1117.864	290.77	43.37
228	1127.864	290.76	43.36
229	1137.864	290.81	43.41
230	1147.864	290.77	43.37
231	1157.864	290.70	43.30
232	1167.864	290.62	43.22
233	1177.864	290.51	43.11
234	1187.864	290.67	43.27
235	1197.864	290.65	43.25
236	1207.864	290.78	43.38
237	1217.864	290.73	43.33
238	1227.864	290.72	43.32
239	1237.864	290.75	43.35
240	1247.864	290.67	43.27
241	1257.864	290.73	43.33
242	1267.864	290.73	43.33
243	1277.864	290.75	43.35
244	1287.864	290.58	43.18
245	1297.864	290.78	43.38
246	1307.864	290.71	43.31
247	1317.864	290.70	43.30
248	1327.864	290.70	43.30

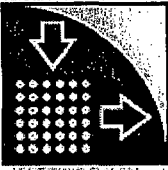
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 9
Data observed at: CPW2002		Pumping test: Test 4		
Distance from PW: 0 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
249	1337.864	290.66	43.26	
250	1347.864	290.65	43.25	
251	1357.864	290.81	43.41	
252	1367.864	290.88	43.48	
253	1377.864	290.70	43.30	
254	1387.864	290.89	43.49	
255	1397.864	290.98	43.58	
256	1407.864	290.86	43.46	
257	1417.864	290.81	43.41	
258	1427.864	290.94	43.54	
259	1437.864	290.73	43.33	
260	1447.864	290.90	43.50	
261	1457.864	291.04	43.64	
262	1467.864	290.73	43.33	
263	1477.864	290.65	43.25	
264	1487.864	290.70	43.30	
265	1497.864	290.76	43.36	
266	1507.864	290.59	43.19	
267	1517.864	290.88	43.48	
268	1527.864	290.79	43.39	
269	1537.864	290.65	43.25	
270	1547.864	290.78	43.38	
271	1557.864	290.71	43.31	
272	1567.864	290.67	43.27	
273	1577.864	290.72	43.32	
274	1587.864	290.59	43.19	
275	1597.864	290.51	43.11	
276	1607.864	290.57	43.17	
277	1617.864	290.73	43.33	
278	1627.864	290.70	43.30	
279	1637.864	290.53	43.13	

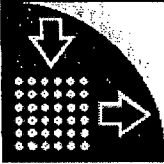
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 10
Data observed at: CPW2002		Pumping test: Test 4		
Distance from PW: 0 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
280	1647.864	290.59	43.19	
281	1657.864	290.68	43.28	
282	1667.864	290.67	43.27	
283	1677.864	290.73	43.33	
284	1687.864	290.69	43.29	
285	1697.864	290.67	43.27	
286	1707.864	290.85	43.45	
287	1717.864	290.80	43.40	
288	1727.864	290.88	43.48	
289	1737.864	290.96	43.56	
290	1747.864	290.93	43.53	
291	1757.864	291.06	43.66	
292	1767.864	290.83	43.43	
293	1777.864	291.01	43.61	
294	1787.864	290.91	43.51	
295	1797.864	290.95	43.55	
296	1807.864	290.74	43.34	
297	1817.864	291.04	43.64	
298	1827.864	291.10	43.70	
299	1837.864	290.96	43.56	
300	1847.864	291.01	43.61	
301	1857.864	291.04	43.64	
302	1867.864	291.16	43.76	
303	1877.864	290.98	43.58	
304	1887.864	291.12	43.72	
305	1897.864	291.11	43.71	
306	1907.864	290.98	43.58	
307	1917.864	290.82	43.42	
308	1927.864	290.78	43.38	
309	1937.864	290.99	43.59	
310	1947.864	290.98	43.58	

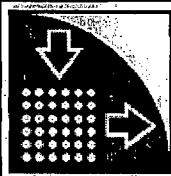
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
	Project: Pumping Test #4			
	No:			
	Client: Crow Butte Resources			Page 11
Data observed at: CPW2002		Pumping test: Test 4		
Distance from PW: 0 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
311	1957.864	291.01	43.61	
312	1967.864	290.96	43.56	
313	1977.864	291.04	43.64	
314	1987.864	290.89	43.49	
315	1997.864	290.88	43.48	
316	2007.864	290.74	43.34	
317	2017.864	290.97	43.57	
318	2027.864	291.06	43.66	
319	2037.864	291.14	43.74	
320	2047.864	290.97	43.57	
321	2057.864	291.12	43.72	
322	2067.864	291.04	43.64	
323	2077.864	290.93	43.53	
324	2087.864	290.98	43.58	
325	2097.864	291.01	43.61	
326	2107.864	290.96	43.56	
327	2117.864	291.07	43.67	
328	2127.864	290.99	43.59	
329	2137.864	291.18	43.78	
330	2147.864	290.99	43.59	
331	2157.864	291.04	43.64	
332	2167.864	291.01	43.61	
333	2177.864	290.95	43.55	
334	2187.864	291.01	43.61	
335	2197.864	291.10	43.70	
336	2207.864	291.12	43.72	
337	2217.864	291.46	44.06	
338	2227.864	291.34	43.94	
339	2237.864	291.44	44.04	
340	2247.864	291.38	43.98	
341	2257.864	291.23	43.83	

	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 12
Data observed at: CPW2002		Pumping test: Test 4		
Distance from PW: 0 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
342	2267.864	291.33	43.93	
343	2277.864	291.44	44.04	
344	2287.864	291.22	43.82	
345	2297.864	291.23	43.83	
346	2307.864	291.33	43.93	
347	2317.864	291.27	43.87	
348	2327.864	291.23	43.83	
349	2337.864	291.33	43.93	
350	2347.864	291.29	43.89	
351	2357.864	291.12	43.72	
352	2367.864	291.28	43.88	
353	2377.864	291.40	44.00	
354	2387.864	291.42	44.02	
355	2397.864	291.39	43.99	
356	2407.864	291.20	43.80	
357	2417.864	291.30	43.90	
358	2427.864	291.27	43.87	
359	2437.864	291.20	43.80	
360	2447.864	291.25	43.85	
361	2457.864	291.20	43.80	
362	2467.864	291.14	43.74	
363	2477.864	291.55	44.15	
364	2487.864	291.13	43.73	
365	2497.864	291.03	43.63	
366	2507.864	291.01	43.61	
367	2517.864	291.10	43.70	
368	2527.864	291.10	43.70	
369	2537.864	291.05	43.65	
370	2547.864	290.98	43.58	
371	2557.864	291.05	43.65	
372	2567.864	290.97	43.57	

 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 13
Data observed at: CPW2002		Pumping test: Test 4	
Distance from PW: 0 [ft]		Pumping well: CPW2002	
Depth to static WL: 247.4 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
373	2577.864	291.06	43.66
374	2587.864	291.21	43.81
375	2597.864	290.89	43.49
376	2607.864	291.05	43.65
377	2617.864	291.04	43.64
378	2627.864	291.06	43.66
379	2637.864	291.14	43.74
380	2647.864	291.12	43.72
381	2657.864	291.07	43.67
382	2667.864	291.12	43.72
383	2677.864	291.02	43.62
384	2687.864	291.10	43.70
385	2697.864	291.14	43.74
386	2707.864	291.20	43.80
387	2717.864	291.23	43.83
388	2727.864	291.17	43.77
389	2737.864	291.17	43.77
390	2747.864	291.20	43.80
391	2757.864	290.94	43.54
392	2767.864	291.00	43.60
393	2777.864	291.04	43.64
394	2787.864	291.03	43.63
395	2797.864	291.24	43.84
396	2807.864	291.14	43.74
397	2817.864	291.20	43.80
398	2827.864	291.25	43.85
399	2837.864	291.17	43.77
400	2847.864	291.13	43.73
401	2857.864	291.11	43.71
402	2867.864	291.12	43.72
403	2877.864	291.26	43.86

 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414	Pumping Test Data Report		
	Project: Pumping Test #4		
	No:		
	Client: Crow Butte Resources		Page 14
Data observed at: CPW2002		Pumping test: Test 4	
Distance from PW: 0 [ft]		Pumping well: CPW2002	
Depth to static WL: 247.4 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
404	2887.864	291.03	43.63
405	2897.864	291.00	43.60
406	2907.864	291.20	43.80
407	2917.864	291.04	43.64
408	2927.864	291.09	43.69
409	2937.864	291.03	43.63
410	2947.864	291.14	43.74
411	2957.864	291.04	43.64
412	2967.864	291.20	43.80
413	2977.864	291.24	43.84
414	2987.864	291.00	43.60
415	2997.864	291.22	43.82
416	3007.864	291.15	43.75
417	3017.864	291.25	43.85
418	3027.864	291.42	44.02
419	3037.864	291.27	43.87
420	3047.864	291.33	43.93
421	3057.864	291.33	43.93
422	3067.864	291.48	44.08
423	3077.864	291.47	44.07
424	3087.864	291.55	44.15
425	3097.864	291.44	44.04
426	3107.864	291.44	44.04
427	3117.864	291.68	44.28
428	3127.864	291.54	44.14
429	3137.864	291.52	44.12
430	3147.864	291.70	44.30
431	3157.864	291.60	44.20
432	3167.864	291.63	44.23
433	3177.864	291.67	44.27
434	3187.864	291.61	44.21

 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 15
Data observed at: CPW2002		Pumping test: Test 4	
Distance from PW: 0 [ft]		Pumping well: CPW2002	
Depth to static WL: 247.4 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
435	3197.864	291.77	44.37
436	3207.864	291.62	44.22
437	3217.864	291.73	44.33
438	3227.864	291.96	44.56
439	3237.864	291.76	44.36
440	3247.864	291.94	44.54
441	3257.864	291.71	44.31
442	3267.864	291.79	44.39
443	3277.864	291.69	44.29
444	3287.864	291.98	44.58
445	3297.864	291.80	44.40
446	3307.864	291.93	44.53
447	3317.864	291.83	44.43
448	3327.864	291.96	44.56
449	3337.864	291.88	44.48
450	3347.864	291.90	44.50
451	3357.864	291.87	44.47
452	3367.864	292.08	44.68
453	3377.864	291.88	44.48
454	3387.864	291.88	44.48
455	3397.864	291.88	44.48
456	3407.864	291.81	44.41
457	3417.864	291.91	44.51
458	3427.864	291.94	44.54
459	3437.864	291.94	44.54
460	3447.864	292.11	44.71
461	3457.864	291.98	44.58
462	3467.864	292.12	44.72
463	3477.864	291.88	44.48
464	3487.864	292.14	44.74
465	3497.864	292.11	44.71

**Petrotek Engineering**

9088 S. Ridgeline Blvd., Suite 105

Littleton, CO 80433 USA

303-290-9414

Pumping Test Data Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

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Data observed at: CPW2002

Distance from PW: 0 [ft]

Depth to static WL: 247.4 [ft]

Location: Crawford, NE

Test performed by: HPD

Date: 10/4/2

Pumping test: Test 4

Pumping well: CPW2002

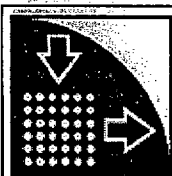
Screen radius: 0.1875 [ft]

Screen length: 60 [ft]

Casing radius: 0.33333333 [ft]

Aquifer thickness: 40 [ft]

	Time [min]	Depth to WL [ft]	Drawdown [ft]
466	3507.864	292.13	44.73
467	3517.864	292.20	44.80
468	3527.864	292.17	44.77
469	3537.864	292.15	44.75
470	3547.864	292.10	44.70
471	3557.864	292.06	44.66
472	3567.864	292.23	44.83
473	3577.864	292.20	44.80
474	3587.864	292.34	44.94
475	3597.864	292.21	44.81
476	3607.864	292.38	44.98
477	3617.864	292.23	44.83
478	3627.864	292.38	44.98
479	3637.864	292.55	45.15
480	3647.864	292.38	44.98
481	3657.864	292.30	44.90
482	3667.864	292.36	44.96
483	3677.864	292.46	45.06
484	3687.864	292.39	44.99
485	3697.864	292.38	44.98
486	3707.864	292.40	45.00
487	3717.864	292.46	45.06
488	3727.864	292.39	44.99
489	3737.864	292.57	45.17
490	3747.864	292.36	44.96
491	3757.864	292.59	45.19
492	3767.864	292.46	45.06
493	3777.864	292.42	45.02
494	3787.864	292.45	45.05
495	3797.864	292.56	45.16
496	3807.864	292.52	45.12

**Petrotek Engineering**

9088 S. Ridgeline Blvd., Suite 105

Littleton, CO 80433 USA

303-290-9414

Pumping Test Data Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

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Data observed at: CPW2002**Pumping test: Test 4**

Distance from PW: 0 [ft]

Pumping well: CPW2002

Depth to static WL: 247.4 [ft]

Screen radius: 0.1875 [ft]

Location: Crawford, NE

Screen length: 60 [ft]

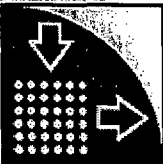
Test performed by: HPD

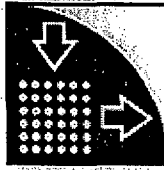
Casing radius: 0.33333333 [ft]

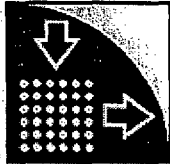
Date: 10/4/2

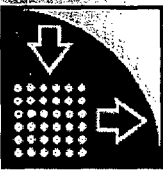
Aquifer thickness: 40 [ft]

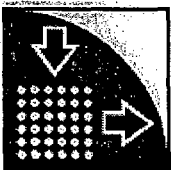
	Time [min]	Depth to WL [ft]	Drawdown [ft]
497	3817.864	292.33	44.93
498	3827.864	292.65	45.25
499	3837.864	292.68	45.28
500	3870	292.68	45.28
501	3870.017	292.65	45.25
502	3870.033	286.43	39.03
503	3870.05	290.22	42.82
504	3870.066	288.68	41.28
505	3870.082	288.86	41.46
506	3870.099	285.94	38.54
507	3870.115	284.79	37.39
508	3870.132	284.14	36.74
509	3870.148	283.11	35.71
510	3870.165	282.02	34.62
511	3870.182	281.34	33.94
512	3870.198	280.29	32.89
513	3870.215	279.55	32.15
514	3870.231	278.60	31.20
515	3870.247	277.87	30.47
516	3870.264	277.04	29.64
517	3870.28	276.35	28.95
518	3870.297	275.61	28.21
519	3870.314	274.93	27.53
520	3870.33	274.27	26.87
521	3870.347	273.61	26.21
522	3870.364	273.01	25.61
523	3870.383	272.39	24.99
524	3870.403	271.77	24.37
525	3870.424	271.14	23.74
526	3870.446	270.50	23.10
527	3870.47	269.79	22.39

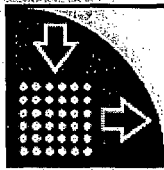
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 18
Data observed at: CPW2002		Pumping test: Test 4	
Distance from PW: 0 [ft]		Pumping well: CPW2002	
Depth to static WL: 247.4 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
528	3870.494	269.06	21.66
529	3870.521	268.43	21.03
530	3870.549	267.80	20.40
531	3870.578	267.18	19.78
532	3870.61	266.56	19.16
533	3870.643	266.20	18.80
534	3870.678	265.24	17.84
535	3870.715	264.62	17.22
536	3870.755	264.03	16.63
537	3870.797	263.45	16.05
538	3870.841	262.89	15.49
539	3870.888	262.35	14.95
540	3870.938	261.83	14.43
541	3870.99	261.34	13.94
542	3871.046	260.88	13.48
543	3871.106	260.42	13.02
544	3871.168	260.01	12.61
545	3871.235	259.62	12.22
546	3871.305	259.25	11.85
547	3871.379	258.91	11.51
548	3871.458	258.59	11.19
549	3871.542	258.30	10.90
550	3871.631	258.01	10.61
551	3871.724	257.76	10.36
552	3871.824	257.51	10.11
553	3871.929	257.30	9.90
554	3872.041	257.08	9.68
555	3872.159	256.90	9.50
556	3872.284	256.71	9.31
557	3872.416	256.55	9.15
558	3872.557	256.39	8.99

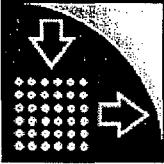
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 19
Data observed at: CPW2002		Pumping test: Test 4		
Distance from PW: 0 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
559	3872.706	256.25	8.85	
560	3872.863	256.13	8.73	
561	3873.03	255.99	8.59	
562	3873.207	255.88	8.48	
563	3873.394	255.78	8.38	
564	3873.593	255.68	8.28	
565	3873.803	255.57	8.17	
566	3874.025	255.47	8.07	
567	3874.261	255.37	7.97	
568	3874.511	255.28	7.88	
569	3874.776	255.19	7.79	
570	3875.056	255.11	7.71	
571	3875.353	255.03	7.63	
572	3875.667	254.95	7.55	
573	3876.001	254.88	7.48	
574	3876.353	254.79	7.39	
575	3876.727	254.71	7.31	
576	3877.123	254.64	7.24	
577	3877.543	254.56	7.16	
578	3877.987	254.51	7.11	
579	3878.457	254.46	7.06	
580	3878.956	254.42	7.02	
581	3879.484	254.35	6.95	
582	3880.043	254.28	6.88	
583	3880.636	254.20	6.80	
584	3881.263	254.11	6.71	
585	3881.928	254.02	6.62	
586	3882.632	253.91	6.51	
587	3883.378	253.82	6.42	
588	3884.168	253.71	6.31	
589	3885.005	253.62	6.22	

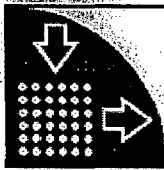
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 20
Data observed at: CPW2002		Pumping test: Test 4	
Distance from PW: 0 [ft]		Pumping well: CPW2002	
Depth to static WL: 247.4 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
590	3885.892	253.51	6.11
591	3886.831	253.42	6.02
592	3887.825	253.33	5.93
593	3888.879	253.25	5.85
594	3889.995	253.16	5.76
595	3891.177	253.07	5.67
596	3892.429	252.99	5.59
597	3893.756	252.91	5.51
598	3895.161	252.83	5.43
599	3896.649	252.77	5.37
600	3898.226	252.69	5.29
601	3899.895	252.64	5.24
602	3901.664	252.59	5.19
603	3903.538	252.53	5.13
604	3905.523	252.45	5.05
605	3907.625	252.37	4.97
606	3909.852	252.29	4.89
607	3912.211	252.22	4.82
608	3914.709	252.15	4.75
609	3917.356	252.08	4.68
610	3920.159	252.00	4.60
611	3923.129	251.94	4.54
612	3926.275	251.87	4.47
613	3929.607	251.80	4.40
614	3933.136	251.74	4.34
615	3936.875	251.67	4.27
616	3940.835	251.61	4.21
617	3945.03	251.55	4.15
618	3949.473	251.48	4.08
619	3954.18	251.42	4.02
620	3959.165	251.36	3.96

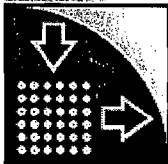
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 21
Data observed at: CPW2002		Pumping test: Test 4		
Distance from PW: 0 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
621	3964.446	251.29	3.89	
622	3970.04	251.24	3.84	
623	3975.965	251.18	3.78	
624	3982.242	251.12	3.72	
625	3988.89	251.07	3.67	
626	3995.932	251.00	3.60	
627	4003.392	250.95	3.55	
628	4011.293	250.89	3.49	
629	4019.663	250.84	3.44	
630	4028.528	250.80	3.40	
631	4037.919	250.73	3.33	
632	4047.867	250.68	3.28	
633	4058.404	250.62	3.22	
634	4069.565	250.56	3.16	
635	4081.387	250.50	3.10	
636	4093.911	250.44	3.04	
637	4107.176	250.39	2.99	
638	4121.227	250.33	2.93	
639	4136.111	250.26	2.86	
640	4151.111	250.21	2.81	
641	4166.111	250.16	2.76	
642	4181.111	250.10	2.70	
643	4196.111	250.04	2.64	
644	4211.111	249.98	2.58	
645	4226.111	249.92	2.52	
646	4241.111	249.89	2.49	
647	4256.111	249.82	2.42	
648	4271.111	249.77	2.37	
649	4286.111	249.71	2.31	
650	4301.111	249.67	2.27	
651	4316.111	249.61	2.21	

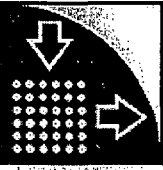
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 22
Data observed at: CPW2002		Pumping test: Test 4	
Distance from PW: 0 [ft]		Pumping well: CPW2002	
Depth to static WL: 247.4 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
652	4331.111	249.56	2.16
653	4346.111	249.53	2.13
654	4361.111	249.49	2.09
655	4376.111	249.44	2.04
656	4391.111	249.41	2.01
657	4406.111	249.37	1.97
658	4421.111	249.34	1.94
659	4436.111	249.32	1.92
660	4451.111	249.31	1.91
661	4466.111	249.29	1.89
662	4481.111	249.28	1.88
663	4496.111	249.26	1.86
664	4511.111	249.25	1.85
665	4526.111	249.24	1.84
666	4541.111	249.24	1.84
667	4556.111	249.23	1.83
668	4571.111	249.23	1.83
669	4586.111	249.23	1.83
670	4601.111	249.23	1.83
671	4616.111	249.23	1.83
672	4631.111	249.23	1.83
673	4646.111	249.22	1.82
674	4661.111	249.22	1.82
675	4676.111	249.21	1.81
676	4691.111	249.22	1.82
677	4706.111	249.21	1.81
678	4721.111	249.22	1.82
679	4736.111	249.22	1.82
680	4751.111	249.23	1.83
681	4766.111	249.23	1.83
682	4781.111	249.25	1.85

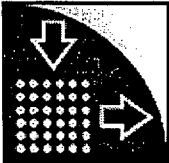
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 23
Data observed at: CPW2002		Pumping test: Test 4		
Distance from PW: 0 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
683	4796.111	249.26	1.86	
684	4811.111	249.27	1.87	
685	4826.111	249.29	1.89	
686	4841.111	249.31	1.91	
687	4856.111	249.33	1.93	
688	4871.111	249.34	1.94	
689	4886.111	249.37	1.97	
690	4901.111	249.38	1.98	
691	4916.111	249.39	1.99	
692	4931.111	249.39	1.99	
693	4946.111	249.39	1.99	
694	4961.111	249.37	1.97	
695	4976.111	249.39	1.99	
696	4991.111	249.38	1.98	
697	5006.111	249.37	1.97	
698	5021.111	249.36	1.96	
699	5036.111	249.34	1.94	
700	5051.111	249.34	1.94	
701	5066.111	249.33	1.93	
702	5081.111	249.33	1.93	
703	5096.111	249.32	1.92	
704	5111.111	249.31	1.91	
705	5126.111	249.31	1.91	
706	5141.111	249.31	1.91	
707	5156.111	249.29	1.89	
708	5171.111	249.28	1.88	
709	5186.111	249.26	1.86	
710	5201.111	249.25	1.85	
711	5216.111	249.23	1.83	
712	5231.111	249.23	1.83	
713	5246.111	249.23	1.83	

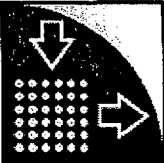
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 24
Data observed at: CPW2002		Pumping test: Test 4	
Distance from PW: 0 [ft]		Pumping well: CPW2002	
Depth to static WL: 247.4 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
714	5261.111	249.24	1.84
715	5276.111	249.25	1.85
716	5291.111	249.25	1.85
717	5306.111	249.28	1.88
718	5321.111	249.33	1.93
719	5336.111	249.41	2.01
720	5351.111	249.46	2.06
721	5366.111	249.49	2.09
722	5381.111	249.52	2.12
723	5396.111	249.50	2.10
724	5411.111	249.49	2.09
725	5426.111	249.46	2.06
726	5441.111	249.43	2.03
727	5456.111	249.40	2.00
728	5471.111	249.38	1.98
729	5486.111	249.33	1.93
730	5501.111	249.30	1.90
731	5516.111	249.26	1.86
732	5531.111	249.22	1.82
733	5546.111	249.17	1.77
734	5561.111	249.15	1.75
735	5576.111	249.11	1.71
736	5591.111	249.08	1.68
737	5606.111	249.04	1.64
738	5621.111	249.00	1.60
739	5636.111	248.97	1.57
740	5651.111	248.94	1.54
741	5666.111	248.91	1.51
742	5681.111	248.87	1.47
743	5696.111	248.83	1.43
744	5711.111	248.81	1.41

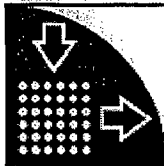
	Petrotek Engineering		Pumping Test Data Report	
	9088 S. Ridgeline Blvd., Suite 105		Project: Pumping Test #4	
	Littleton, CO 80433 USA		No:	
	303-290-9414		Client: Crow Butte Resources	Page 25
Data observed at: CPW2002		Pumping test: Test 4		
Distance from PW: 0 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
745	5726.111	248.79	1.39	
746	5741.111	248.76	1.36	
747	5756.111	248.73	1.33	
748	5771.111	248.71	1.31	
749	5786.111	248.68	1.28	
750	5801.111	248.66	1.26	
751	5816.111	248.65	1.25	
752	5831.111	248.63	1.23	
753	5846.111	248.61	1.21	
754	5861.111	248.61	1.21	
755	5876.111	248.59	1.19	
756	5891.111	248.58	1.18	
757	5906.111	248.56	1.16	
758	5921.111	248.55	1.15	
759	5936.111	248.54	1.14	
760	5951.111	248.54	1.14	
761	5966.111	248.52	1.12	
762	5981.111	248.51	1.11	
763	5996.111	248.52	1.12	
764	6011.111	248.51	1.11	
765	6026.111	248.51	1.11	
766	6041.111	248.50	1.10	
767	6056.111	248.49	1.09	
768	6071.111	248.48	1.08	
769	6086.111	248.47	1.07	
770	6101.111	248.44	1.04	
771	6116.111	248.42	1.02	
772	6131.111	248.40	1.00	
773	6146.111	248.37	0.97	
774	6161.111	248.34	0.94	
775	6176.111	248.32	0.92	

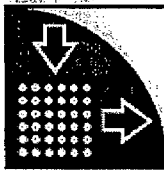
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 26
Data observed at: CPW2002			Pumping test: Test 4	
Distance from PW: 0 [ft]			Pumping well: CPW2002	
Depth to static WL: 247.4 [ft]			Screen radius: 0.1875 [ft]	
Location: Crawford, NE			Screen length: 60 [ft]	
Test performed by: HPD			Casing radius: 0.33333333 [ft]	
Date: 10/4/2			Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
776	6191.111	248.29	0.89	
777	6206.111	248.25	0.85	
778	6221.111	248.22	0.82	
779	6236.111	248.18	0.78	
780	6251.111	248.15	0.75	
781	6266.111	248.11	0.71	
782	6281.111	248.09	0.69	
783	6296.111	248.05	0.65	
784	6311.111	248.03	0.63	
785	6326.111	247.99	0.59	
786	6341.111	247.96	0.56	
787	6356.111	247.94	0.54	
788	6371.111	247.92	0.52	
789	6386.111	247.90	0.50	
790	6401.111	247.89	0.49	
791	6416.111	247.89	0.49	
792	6431.111	247.89	0.49	
793	6446.111	247.89	0.49	
794	6461.111	247.88	0.48	
795	6476.111	247.88	0.48	
796	6491.111	247.85	0.45	
797	6506.111	247.83	0.43	
798	6521.111	247.82	0.42	
799	6536.111	247.80	0.40	
800	6551.111	247.80	0.40	
801	6566.111	247.77	0.37	
802	6581.111	247.77	0.37	
803	6596.111	247.75	0.35	
804	6611.111	247.75	0.35	
805	6626.111	247.74	0.34	
806	6641.111	247.73	0.33	

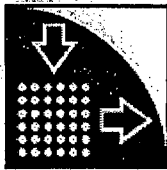
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 27
Data observed at: CPW2002		Pumping test: Test 4		
Distance from PW: 0 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.4 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
807	6656.111	247.72	0.32	
808	6671.111	247.72	0.32	
809	6686.111	247.75	0.35	
810	6701.111	247.71	0.31	
811	6716.111	247.69	0.29	
812	6731.111	247.67	0.27	
813	6746.111	247.65	0.25	
814	6761.111	247.64	0.24	
815	6776.111	247.61	0.21	
816	6791.111	247.60	0.20	
817	6806.111	247.59	0.19	
818	6821.111	247.56	0.16	
819	6836.111	247.56	0.16	
820	6851.111	247.54	0.14	
821	6866.111	247.53	0.13	
822	6881.111	247.52	0.12	
823	6896.111	247.51	0.11	
824	6911.111	247.50	0.10	
825	6926.111	247.48	0.08	
826	6941.111	247.46	0.06	
827	6956.111	247.44	0.04	
828	6971.111	247.43	0.03	
829	6986.111	247.41	0.01	
830	7001.111	247.40	0.00	

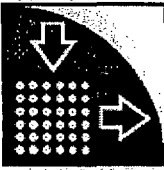
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 1
Data observed at: CM9-04		Pumping test: Test 4		
Distance from PW: 757.4 [ft]		Pumping well: CPW2002		
Depth to static WL: 303.1 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
1	0	303.10	0.00	
2	0.005	303.08	-0.02	
3	0.01	303.07	-0.03	
4	0.015	303.07	-0.03	
5	0.02	303.07	-0.03	
6	0.025	303.07	-0.03	
7	0.03	303.07	-0.03	
8	0.035	303.07	-0.03	
9	0.04	303.07	-0.03	
10	0.045	303.06	-0.04	
11	0.05	303.06	-0.04	
12	0.055	303.06	-0.04	
13	0.06	303.06	-0.04	
14	0.065	303.06	-0.04	
15	0.07	303.06	-0.04	
16	0.075	303.06	-0.04	
17	0.08	303.06	-0.04	
18	0.085	303.06	-0.04	
19	0.09	303.06	-0.04	
20	0.095	303.05	-0.05	
21	0.1	303.06	-0.04	
22	0.106	303.06	-0.04	
23	0.112	303.06	-0.04	
24	0.118	303.06	-0.04	
25	0.126	303.06	-0.04	
26	0.133	303.06	-0.04	
27	0.141	303.06	-0.04	
28	0.149	303.06	-0.04	
29	0.158	303.06	-0.04	
30	0.167	303.07	-0.03	
31	0.177	303.07	-0.03	

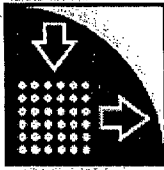
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 2
Data observed at: CM9-04		Pumping test: Test 4		
Distance from PW: 757.4 [ft]		Pumping well: CPW2002		
Depth to static WL: 303.1 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
32	0.188	303.07	-0.03	
33	0.199	303.08	-0.02	
34	0.21	303.08	-0.02	
35	0.223	303.08	-0.02	
36	0.236	303.09	-0.01	
37	0.25	303.08	-0.02	
38	0.265	303.09	-0.01	
39	0.28	303.09	-0.01	
40	0.297	303.09	-0.01	
41	0.315	303.08	-0.02	
42	0.333	303.09	-0.01	
43	0.353	303.09	-0.01	
44	0.374	303.09	-0.01	
45	0.396	303.09	-0.01	
46	0.42	303.09	-0.01	
47	0.445	303.09	-0.01	
48	0.469	303.10	0.00	
49	0.496	303.09	-0.01	
50	0.525	303.10	0.00	
51	0.555	303.09	-0.01	
52	0.586	303.10	0.00	
53	0.621	303.10	0.00	
54	0.658	303.10	0.00	
55	0.696	303.10	0.00	
56	0.738	303.10	0.00	
57	0.781	303.10	0.00	
58	0.828	303.10	0.00	
59	0.876	303.10	0.00	
60	0.928	303.10	0.00	
61	0.983	303.10	0.00	
62	1.041	303.10	0.00	

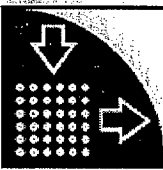
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 3
Data observed at: CM9-04		Pumping test: Test 4		
Distance from PW: 757.4 [ft]		Pumping well: CPW2002		
Depth to static WL: 303.1 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
63	1.103	303.09	-0.01	
64	1.168	303.10	0.00	
65	1.238	303.09	-0.01	
66	1.311	303.09	-0.01	
67	1.389	303.10	0.00	
68	1.473	303.10	0.00	
69	1.561	303.10	0.00	
70	1.655	303.10	0.00	
71	1.753	303.10	0.00	
72	1.858	303.10	0.00	
73	1.968	303.10	0.00	
74	2.084	303.10	0.00	
75	2.21	303.10	0.00	
76	2.341	303.10	0.00	
77	2.481	303.10	0.00	
78	2.63	303.10	0.00	
79	2.786	303.10	0.00	
80	2.953	303.10	0.00	
81	3.13	303.10	0.00	
82	3.316	303.10	0.00	
83	3.514	303.10	0.00	
84	3.724	303.10	0.00	
85	3.946	303.10	0.00	
86	4.181	303.10	0.00	
87	4.429	303.10	0.00	
88	4.693	303.11	0.01	
89	4.973	303.11	0.01	
90	5.27	303.11	0.01	
91	5.583	303.11	0.01	
92	5.915	303.12	0.02	
93	6.266	303.12	0.02	

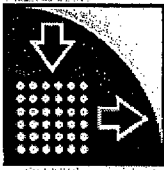
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 4
Data observed at: CM9-04		Pumping test: Test 4	
Distance from PW: 757.4 [ft]		Pumping well: CPW2002	
Depth to static WL: 303.1 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
94	6.639	303.12	0.02
95	7.035	303.13	0.03
96	7.453	303.13	0.03
97	7.896	303.13	0.03
98	8.366	303.14	0.04
99	8.864	303.15	0.05
100	9.391	303.15	0.05
101	9.95	303.16	0.06
102	10.541	303.17	0.07
103	11.168	303.18	0.08
104	11.831	303.20	0.10
105	12.535	303.21	0.11
106	13.28	303.22	0.12
107	14.069	303.24	0.14
108	14.906	303.26	0.16
109	15.791	303.27	0.17
110	16.73	303.29	0.19
111	17.723	303.31	0.21
112	18.776	303.33	0.23
113	19.891	303.36	0.26
114	21.073	303.39	0.29
115	22.325	303.41	0.31
116	23.65	303.44	0.34
117	25.055	303.47	0.37
118	26.543	303.51	0.41
119	28.118	303.54	0.44
120	29.786	303.57	0.47
121	31.555	303.61	0.51
122	33.428	303.65	0.55
123	35.411	303.68	0.58
124	37.513	303.72	0.62

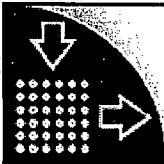
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 5
Data observed at: CM9-04		Pumping test: Test 4		
Distance from PW: 757.4 [ft]		Pumping well: CPW2002		
Depth to static WL: 303.1 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
125	39.74	303.77	0.67	
126	42.098	303.80	0.70	
127	44.596	303.85	0.75	
128	47.243	303.89	0.79	
129	50.046	303.94	0.84	
130	53.015	303.98	0.88	
131	56.16	304.03	0.93	
132	59.491	304.07	0.97	
133	63.02	304.12	1.02	
134	66.758	304.17	1.07	
135	70.718	304.22	1.12	
136	74.911	304.27	1.17	
137	79.355	304.32	1.22	
138	84.061	304.37	1.27	
139	89.046	304.42	1.32	
140	94.326	304.48	1.38	
141	99.92	304.52	1.42	
142	105.845	304.57	1.47	
143	112.12	304.63	1.53	
144	118.768	304.69	1.59	
145	125.81	304.73	1.63	
146	133.268	304.80	1.70	
147	141.168	304.84	1.74	
148	149.536	304.90	1.80	
149	158.401	304.95	1.85	
150	167.791	305.01	1.91	
151	177.738	305.06	1.96	
152	188.274	305.13	2.02	
153	199.435	305.16	2.06	
154	211.256	305.23	2.13	
155	223.778	305.28	2.18	

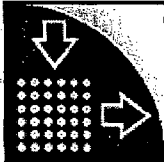
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 6
Data observed at: CM9-04		Pumping test: Test 4	
Distance from PW: 757.4 [ft]		Pumping well: CPW2002	
Depth to static WL: 303.1 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
156	237.043	305.34	2.24
157	251.093	305.39	2.29
158	265.976	305.45	2.35
159	280.976	305.51	2.41
160	295.976	305.57	2.47
161	310.976	305.62	2.52
162	325.976	305.68	2.58
163	340.976	305.73	2.63
164	355.976	305.76	2.66
165	370.976	305.80	2.70
166	385.976	305.84	2.74
167	400.976	305.85	2.75
168	415.976	305.90	2.80
169	430.976	305.94	2.84
170	445.976	305.97	2.87
171	460.976	306.01	2.91
172	475.976	306.06	2.96
173	490.976	306.08	2.98
174	505.976	306.10	3.00
175	520.976	306.13	3.03
176	535.976	306.13	3.03
177	550.976	306.15	3.05
178	565.976	306.16	3.06
179	580.976	306.17	3.07
180	595.976	306.18	3.08
181	610.976	306.19	3.09
182	625.976	306.20	3.10
183	640.976	306.21	3.11
184	655.976	306.23	3.13
185	670.976	306.24	3.14
186	685.976	306.26	3.16

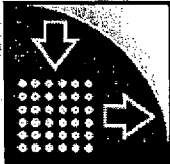
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 7
Data observed at: CM9-04		Pumping test: Test 4	
Distance from PW: 757.4 [ft]		Pumping well: CPW2002	
Depth to static WL: 303.1 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
187	700.976	306.29	3.19
188	715.976	306.30	3.20
189	730.976	306.33	3.23
190	745.976	306.36	3.25
191	760.976	306.38	3.28
192	775.976	306.40	3.30
193	790.976	306.42	3.32
194	805.976	306.42	3.32
195	820.976	306.43	3.33
196	835.976	306.44	3.34
197	850.976	306.46	3.36
198	865.976	306.47	3.37
199	880.976	306.48	3.38
200	895.976	306.47	3.37
201	910.976	306.48	3.38
202	925.976	306.49	3.38
203	940.976	306.49	3.39
204	955.976	306.49	3.39
205	970.976	306.50	3.40
206	985.976	306.50	3.40
207	1000.976	306.52	3.42
208	1015.976	306.53	3.43
209	1030.976	306.54	3.44
210	1045.976	306.56	3.46
211	1060.976	306.58	3.48
212	1075.976	306.59	3.49
213	1090.976	306.61	3.51
214	1105.976	306.62	3.52
215	1120.976	306.64	3.54
216	1135.976	306.65	3.55
217	1150.976	306.66	3.56

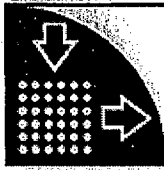
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 8
Data observed at: CM9-04		Pumping test: Test 4	
Distance from PW: 757.4 [ft]		Pumping well: CPW2002	
Depth to static WL: 303.1 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
218	1165.976	306.67	3.57
219	1180.976	306.69	3.58
220	1195.976	306.70	3.60
221	1210.976	306.70	3.60
222	1225.976	306.71	3.61
223	1240.976	306.71	3.61
224	1255.976	306.72	3.62
225	1270.976	306.73	3.63
226	1285.976	306.73	3.63
227	1300.976	306.74	3.64
228	1315.976	306.75	3.65
229	1330.976	306.76	3.66
230	1345.976	306.76	3.66
231	1360.976	306.76	3.66
232	1375.976	306.77	3.67
233	1390.976	306.77	3.67
234	1405.976	306.79	3.69
235	1420.976	306.79	3.69
236	1435.976	306.79	3.69
237	1450.976	306.80	3.70
238	1465.976	306.81	3.71
239	1480.976	306.82	3.72
240	1495.976	306.83	3.73
241	1510.976	306.84	3.74
242	1525.976	306.85	3.75
243	1540.976	306.86	3.76
244	1555.976	306.87	3.76
245	1570.976	306.88	3.78
246	1585.976	306.88	3.78
247	1600.976	306.89	3.79
248	1615.976	306.90	3.80

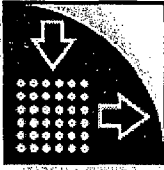
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 9
Data observed at: CM9-04		Pumping test: Test 4	
Distance from PW: 757.4 [ft]		Pumping well: CPW2002	
Depth to static WL: 303.1 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
249	1630.976	306.90	3.80
250	1645.976	306.91	3.81
251	1660.976	306.92	3.82
252	1675.976	306.93	3.83
253	1690.976	306.94	3.84
254	1705.976	306.95	3.85
255	1720.976	306.96	3.86
256	1735.976	306.97	3.87
257	1750.976	306.99	3.89
258	1765.976	306.99	3.89
259	1780.976	306.99	3.88
260	1795.976	306.97	3.87
261	1810.976	306.96	3.86
262	1825.976	306.94	3.84
263	1840.976	306.93	3.83
264	1855.976	306.91	3.81
265	1870.976	306.90	3.80
266	1885.976	306.89	3.79
267	1900.976	306.87	3.77
268	1915.976	306.86	3.76
269	1930.976	306.85	3.75
270	1945.976	306.84	3.74
271	1960.976	306.83	3.73
272	1975.976	306.82	3.72
273	1990.976	306.81	3.71
274	2005.976	306.80	3.70
275	2020.976	306.79	3.69
276	2035.976	306.79	3.69
277	2050.976	306.78	3.68
278	2065.976	306.77	3.67
279	2080.976	306.76	3.66

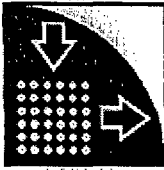
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 10
Data observed at: CM9-04		Pumping test: Test 4		
Distance from PW: 757.4 [ft]		Pumping well: CPW2002		
Depth to static WL: 303.1 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
280	2095.976	306.75	3.65	
281	2110.976	306.74	3.64	
282	2125.976	306.74	3.64	
283	2140.976	306.74	3.64	
284	2155.976	306.75	3.65	
285	2170.976	306.76	3.66	
286	2185.976	306.77	3.67	
287	2200.976	306.79	3.69	
288	2215.976	306.81	3.71	
289	2230.976	306.83	3.73	
290	2245.976	306.85	3.75	
291	2260.976	306.87	3.77	
292	2275.976	306.88	3.78	
293	2290.976	306.90	3.80	
294	2305.976	306.92	3.82	
295	2320.976	306.93	3.83	
296	2335.976	306.95	3.85	
297	2350.976	306.96	3.86	
298	2365.976	306.98	3.88	
299	2380.976	306.99	3.89	
300	2395.976	307.00	3.90	
301	2410.976	307.01	3.91	
302	2425.976	307.02	3.92	
303	2440.976	307.03	3.93	
304	2455.976	307.04	3.94	
305	2470.976	307.05	3.95	
306	2485.976	307.06	3.96	
307	2500.976	307.07	3.97	
308	2515.976	307.08	3.98	
309	2530.976	307.09	3.99	
310	2545.976	307.10	4.00	

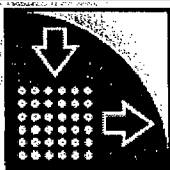
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 11
Data observed at: CM9-04		Pumping test: Test 4	
Distance from PW: 757.4 [ft]		Pumping well: CPW2002	
Depth to static WL: 303.1 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
311	2560.976	307.11	4.01
312	2575.976	307.12	4.02
313	2590.976	307.12	4.02
314	2605.976	307.13	4.03
315	2620.976	307.14	4.04
316	2635.976	307.14	4.04
317	2650.976	307.15	4.05
318	2665.976	307.16	4.06
319	2680.976	307.17	4.07
320	2695.976	307.18	4.07
321	2710.976	307.19	4.09
322	2725.976	307.20	4.10
323	2740.976	307.21	4.11
324	2755.976	307.21	4.11
325	2770.976	307.22	4.12
326	2785.976	307.23	4.13
327	2800.976	307.24	4.14
328	2815.976	307.24	4.14
329	2830.976	307.25	4.15
330	2845.976	307.26	4.16
331	2860.976	307.26	4.16
332	2875.976	307.27	4.17
333	2890.976	307.27	4.17
334	2905.976	307.28	4.18
335	2920.976	307.29	4.19
336	2935.976	307.29	4.19
337	2950.976	307.30	4.19
338	2965.976	307.30	4.20
339	2980.976	307.31	4.21
340	2995.976	307.32	4.22
341	3010.976	307.33	4.23

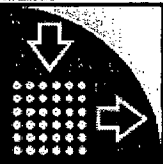
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 12
Data observed at: CM9-04		Pumping test: Test 4	
Distance from PW: 757.4 [ft]		Pumping well: CPW2002	
Depth to static WL: 303.1 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
342	3025.976	307.34	4.24
343	3040.976	307.34	4.24
344	3055.976	307.35	4.25
345	3070.976	307.36	4.26
346	3085.976	307.36	4.26
347	3100.976	307.38	4.28
348	3115.976	307.40	4.30
349	3130.976	307.41	4.31
350	3145.976	307.43	4.33
351	3160.976	307.44	4.34
352	3175.976	307.45	4.35
353	3190.976	307.47	4.37
354	3205.976	307.49	4.39
355	3220.976	307.50	4.40
356	3235.976	307.51	4.41
357	3250.976	307.52	4.42
358	3265.976	307.53	4.43
359	3280.976	307.54	4.44
360	3295.976	307.54	4.44
361	3310.976	307.55	4.45
362	3325.976	307.55	4.45
363	3340.976	307.56	4.45
364	3355.976	307.56	4.46
365	3370.976	307.57	4.47
366	3385.976	307.57	4.47
367	3400.976	307.58	4.48
368	3415.976	307.59	4.49
369	3430.976	307.60	4.50
370	3445.976	307.60	4.50
371	3460.976	307.61	4.51
372	3475.976	307.62	4.51

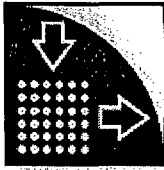
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 13
Data observed at: CM9-04		Pumping test: Test 4		
Distance from PW: 757.4 [ft]		Pumping well: CPW2002		
Depth to static WL: 303.1 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
373	3490.976	307.62	4.52	
374	3505.976	307.63	4.53	
375	3520.976	307.64	4.54	
376	3535.976	307.65	4.55	
377	3550.976	307.67	4.56	
378	3565.976	307.68	4.58	
379	3580.976	307.69	4.59	
380	3595.976	307.71	4.61	
381	3610.976	307.72	4.62	
382	3625.976	307.74	4.64	
383	3640.976	307.76	4.66	
384	3655.976	307.77	4.67	
385	3670.976	307.79	4.69	
386	3685.976	307.80	4.70	
387	3700.976	307.81	4.71	
388	3715.976	307.83	4.73	
389	3730.976	307.85	4.75	
390	3745.976	307.86	4.76	
391	3760.976	307.88	4.78	
392	3775.976	307.89	4.79	
393	3790.976	307.91	4.81	
394	3805.976	307.93	4.82	
395	3820.976	307.94	4.84	
396	3835.976	307.96	4.86	
397	3870	307.96	4.86	
398	3870.005	307.95	4.85	
399	3870.01	307.94	4.84	
400	3870.015	307.94	4.84	
401	3870.02	307.94	4.84	
402	3870.025	307.94	4.84	
403	3870.03	307.94	4.84	

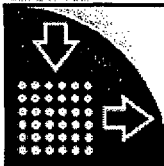
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 14
Data observed at: CM9-04		Pumping test: Test 4	
Distance from PW: 757.4 [ft]		Pumping well: CPW2002	
Depth to static WL: 303.1 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
404	3870.035	307.94	4.84
405	3870.04	307.94	4.84
406	3870.045	307.94	4.84
407	3870.05	307.94	4.84
408	3870.055	307.94	4.84
409	3870.06	307.94	4.84
410	3870.065	307.94	4.84
411	3870.07	307.94	4.84
412	3870.075	307.94	4.84
413	3870.08	307.94	4.84
414	3870.085	307.94	4.84
415	3870.09	307.94	4.84
416	3870.095	307.94	4.84
417	3870.1	307.93	4.83
418	3870.106	307.93	4.83
419	3870.112	307.94	4.84
420	3870.119	307.93	4.83
421	3870.126	307.94	4.84
422	3870.133	307.93	4.83
423	3870.14	307.93	4.83
424	3870.149	307.93	4.83
425	3870.158	307.93	4.83
426	3870.167	307.94	4.84
427	3870.177	307.94	4.84
428	3870.188	307.95	4.85
429	3870.198	307.95	4.85
430	3870.21	307.95	4.85
431	3870.222	307.95	4.85
432	3870.236	307.95	4.85
433	3870.25	307.95	4.85
434	3870.265	307.95	4.85

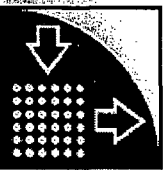
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 15
Data observed at: CM9-04		Pumping test: Test 4	
Distance from PW: 757.4 [ft]		Pumping well: CPW2002	
Depth to static WL: 303.1 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
435	3870.28	307.95	4.85
436	3870.297	307.95	4.85
437	3870.314	307.95	4.85
438	3870.333	307.95	4.85
439	3870.353	307.96	4.86
440	3870.374	307.96	4.86
441	3870.396	307.96	4.86
442	3870.42	307.96	4.86
443	3870.445	307.96	4.86
444	3870.47	307.96	4.86
445	3870.496	307.96	4.86
446	3870.525	307.96	4.86
447	3870.555	307.96	4.86
448	3870.586	307.96	4.86
449	3870.621	307.96	4.86
450	3870.658	307.96	4.86
451	3870.696	307.96	4.86
452	3870.738	307.96	4.86
453	3870.781	307.96	4.86
454	3870.828	307.96	4.86
455	3870.876	307.96	4.86
456	3870.928	307.96	4.86
457	3870.983	307.96	4.86
458	3871.041	307.96	4.86
459	3871.103	307.96	4.86
460	3871.168	307.96	4.86
461	3871.238	307.96	4.86
462	3871.311	307.96	4.86
463	3871.39	307.96	4.86
464	3871.473	307.96	4.86
465	3871.561	307.96	4.86

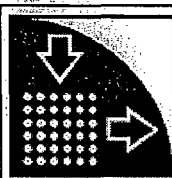
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 16
Data observed at: CM9-04		Pumping test: Test 4	
Distance from PW: 757.4 [ft]		Pumping well: CPW2002	
Depth to static WL: 303.1 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
466	3871.655	307.96	4.86
467	3871.753	307.96	4.86
468	3871.858	307.96	4.86
469	3871.968	307.96	4.86
470	3872.084	307.97	4.87
471	3872.21	307.96	4.86
472	3872.341	307.96	4.86
473	3872.481	307.96	4.86
474	3872.63	307.96	4.86
475	3872.786	307.96	4.86
476	3872.953	307.96	4.86
477	3873.13	307.96	4.86
478	3873.316	307.96	4.86
479	3873.515	307.96	4.86
480	3873.724	307.96	4.86
481	3873.946	307.96	4.86
482	3874.181	307.96	4.86
483	3874.43	307.96	4.86
484	3874.693	307.96	4.86
485	3874.973	307.96	4.86
486	3875.27	307.96	4.86
487	3875.583	307.96	4.86
488	3875.914	307.96	4.86
489	3876.266	307.96	4.86
490	3876.64	307.95	4.85
491	3877.035	307.95	4.85
492	3877.453	307.94	4.84
493	3877.896	307.94	4.84
494	3878.366	307.94	4.84
495	3878.865	307.93	4.83
496	3879.391	307.92	4.82

 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 17
Data observed at: CM9-04		Pumping test: Test 4	
Distance from PW: 757.4 [ft]		Pumping well: CPW2002	
Depth to static WL: 303.1 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
497	3879.95	307.92	4.82
498	3880.541	307.91	4.81
499	3881.168	307.90	4.80
500	3881.831	307.88	4.78
501	3882.535	307.87	4.77
502	3883.28	307.86	4.76
503	3884.07	307.84	4.74
504	3884.906	307.83	4.73
505	3885.791	307.81	4.71
506	3886.729	307.79	4.69
507	3887.723	307.77	4.67
508	3888.776	307.76	4.66
509	3889.891	307.74	4.64
510	3891.073	307.71	4.61
511	3892.325	307.69	4.59
512	3893.65	307.66	4.56
513	3895.055	307.63	4.53
514	3896.543	307.60	4.50
515	3898.118	307.57	4.47
516	3899.786	307.54	4.44
517	3901.555	307.51	4.41
518	3903.428	307.48	4.38
519	3905.411	307.44	4.34
520	3907.513	307.40	4.30
521	3909.74	307.36	4.26
522	3912.098	307.33	4.23
523	3914.596	307.29	4.19
524	3917.243	307.25	4.15
525	3920.046	307.21	4.11
526	3923.015	307.17	4.07
527	3926.16	307.13	4.03

 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 18
Data observed at: CM9-04		Pumping test: Test 4	
Distance from PW: 757.4 [ft]		Pumping well: CPW2002	
Depth to static WL: 303.1 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
528	3929.491	307.09	3.99
529	3933.019	307.04	3.94
530	3936.758	307.00	3.90
531	3940.718	306.95	3.85
532	3944.911	306.91	3.81
533	3949.354	306.87	3.77
534	3954.061	306.82	3.72
535	3959.046	306.77	3.67
536	3964.326	306.73	3.63
537	3969.92	306.69	3.59
538	3975.845	306.64	3.54
539	3982.12	306.59	3.49
540	3988.768	306.55	3.45
541	3995.809	306.51	3.41
542	4003.268	306.46	3.36
543	4011.168	306.42	3.32
544	4019.536	306.37	3.27
545	4028.401	306.33	3.23
546	4037.791	306.28	3.18
547	4047.738	306.24	3.14
548	4058.274	306.19	3.09
549	4069.434	306.14	3.04
550	4081.256	306.10	3.00
551	4093.778	306.05	2.95
552	4107.043	306.00	2.90
553	4121.093	305.95	2.85
554	4135.976	305.90	2.80
555	4151.741	305.85	2.75
556	4166.741	305.80	2.70
557	4181.741	305.75	2.65
558	4196.741	305.70	2.60

 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 19
Data observed at: CM9-04		Pumping test: Test 4	
Distance from PW: 757.4 [ft]		Pumping well: CPW2002	
Depth to static WL: 303.1 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
559	4211.741	305.66	2.56
560	4226.741	305.61	2.51
561	4241.741	305.57	2.47
562	4256.741	305.52	2.42
563	4271.741	305.48	2.38
564	4286.741	305.44	2.34
565	4301.741	305.40	2.30
566	4316.741	305.36	2.26
567	4331.741	305.31	2.21
568	4346.741	305.28	2.18
569	4361.741	305.24	2.14
570	4376.741	305.21	2.11
571	4391.741	305.17	2.07
572	4406.741	305.14	2.04
573	4421.741	305.11	2.01
574	4436.741	305.08	1.98
575	4451.741	305.07	1.97
576	4466.741	305.05	1.95
577	4481.741	305.02	1.92
578	4496.741	305.00	1.90
579	4511.741	304.98	1.88
580	4526.741	304.97	1.87
581	4541.741	304.95	1.85
582	4556.741	304.94	1.84
583	4571.741	304.94	1.84
584	4586.741	304.93	1.83
585	4601.741	304.92	1.82
586	4616.741	304.91	1.81
587	4631.741	304.90	1.80
588	4646.741	304.90	1.80
589	4661.741	304.90	1.80

 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 20
Data observed at: CM9-04		Pumping test: Test 4	
Distance from PW: 757.4 [ft]		Pumping well: CPW2002	
Depth to static WL: 303.1 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
590	4676.741	304.89	1.79
591	4691.741	304.89	1.79
592	4706.741	304.88	1.78
593	4721.741	304.88	1.78
594	4736.741	304.88	1.78
595	4751.741	304.87	1.77
596	4766.741	304.88	1.78
597	4781.741	304.88	1.78
598	4796.741	304.88	1.78
599	4811.741	304.89	1.79
600	4826.741	304.90	1.80
601	4841.741	304.91	1.81
602	4856.741	304.92	1.82
603	4871.741	304.93	1.83
604	4886.741	304.94	1.84
605	4901.741	304.95	1.85
606	4916.741	304.96	1.86
607	4931.741	304.96	1.86
608	4946.741	304.96	1.86
609	4961.741	304.97	1.87
610	4976.741	304.97	1.87
611	4991.741	304.97	1.87
612	5006.741	304.96	1.86
613	5021.741	304.95	1.85
614	5036.741	304.95	1.85
615	5051.741	304.94	1.84
616	5066.741	304.93	1.83
617	5081.741	304.93	1.83
618	5096.741	304.93	1.83
619	5111.741	304.92	1.82
620	5126.741	304.92	1.82

**Petrotek Engineering**

9088 S. Ridgeline Blvd., Suite 105

Littleton, CO 80433 USA

303-290-9414

Pumping Test Data Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

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Data observed at: CM9-04

Distance from PW: 757.4 [ft]

Depth to static WL: 303.1 [ft]

Location: Crawford, NE

Test performed by: HPD

Date: 10/4/2

Pumping test: Test 4

Pumping well: CPW2002

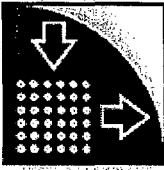
Screen radius: 0.1875 [ft]

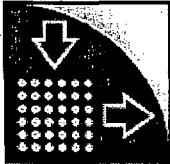
Screen length: 60 [ft]

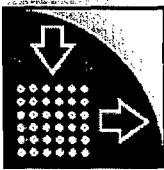
Casing radius: 0.33333333 [ft]

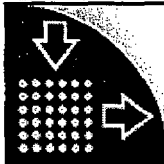
Aquifer thickness: 40 [ft]

	Time [min]	Depth to WL [ft]	Drawdown [ft]
621	5141.741	304.91	1.81
622	5156.741	304.91	1.81
623	5171.741	304.90	1.80
624	5186.741	304.90	1.80
625	5201.741	304.89	1.79
626	5216.741	304.88	1.78
627	5231.741	304.88	1.78
628	5246.741	304.88	1.78
629	5261.741	304.91	1.81
630	5276.741	304.92	1.82
631	5291.741	304.93	1.83
632	5306.741	304.93	1.83
633	5321.741	304.95	1.85
634	5336.741	304.98	1.88
635	5351.741	305.03	1.93
636	5366.741	305.08	1.98
637	5381.741	305.10	2.00
638	5396.741	305.10	2.00
639	5411.741	305.10	2.00
640	5426.741	305.08	1.98
641	5441.741	305.07	1.97
642	5456.741	305.06	1.96
643	5471.741	305.04	1.94
644	5486.741	305.01	1.91
645	5501.741	304.99	1.89
646	5516.741	304.97	1.87
647	5531.741	304.94	1.84
648	5546.741	304.91	1.81
649	5561.741	304.89	1.79
650	5576.741	304.86	1.76
651	5591.741	304.83	1.73

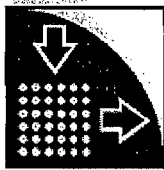
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 22
Data observed at: CM9-04		Pumping test: Test 4	
Distance from PW: 757.4 [ft]		Pumping well: CPW2002	
Depth to static WL: 303.1 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
652	5606.741	304.81	1.71
653	5621.741	304.78	1.68
654	5636.741	304.75	1.65
655	5651.741	304.73	1.63
656	5666.741	304.70	1.60
657	5681.741	304.67	1.57
658	5696.741	304.64	1.54
659	5711.741	304.62	1.52
660	5726.741	304.59	1.49
661	5741.741	304.57	1.47
662	5756.741	304.54	1.44
663	5771.741	304.52	1.42
664	5786.741	304.50	1.40
665	5801.741	304.48	1.38
666	5816.741	304.46	1.36
667	5831.741	304.44	1.34
668	5846.741	304.43	1.33
669	5861.741	304.40	1.30
670	5876.741	304.41	1.31
671	5891.741	304.38	1.28
672	5906.741	304.36	1.26
673	5921.741	304.36	1.26
674	5936.741	304.35	1.25
675	5951.741	304.34	1.24
676	5966.741	304.33	1.23
677	5981.741	304.32	1.22
678	5996.741	304.31	1.21
679	6011.741	304.31	1.21
680	6026.741	304.30	1.20
681	6041.741	304.29	1.19
682	6056.741	304.28	1.18

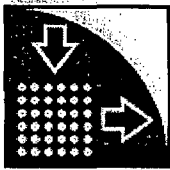
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 23
Data observed at: CM9-04		Pumping test: Test 4	
Distance from PW: 757.4 [ft]		Pumping well: CPW2002	
Depth to static WL: 303.1 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
683	6071.741	304.27	1.17
684	6086.741	304.26	1.16
685	6101.741	304.25	1.15
686	6116.741	304.24	1.14
687	6131.741	304.22	1.12
688	6146.741	304.19	1.09
689	6161.741	304.17	1.07
690	6176.741	304.14	1.04
691	6191.741	304.12	1.02
692	6206.741	304.08	0.98
693	6221.741	304.04	0.94
694	6236.741	304.02	0.92
695	6251.741	303.99	0.89
696	6266.741	303.95	0.85
697	6281.741	303.92	0.82
698	6296.741	303.88	0.78
699	6311.741	303.86	0.76
700	6326.741	303.82	0.72
701	6341.741	303.79	0.69
702	6356.741	303.77	0.67
703	6371.741	303.74	0.64
704	6386.741	303.73	0.63
705	6401.741	303.72	0.62
706	6416.741	303.73	0.63
707	6431.741	303.74	0.64
708	6446.741	303.73	0.63
709	6461.741	303.74	0.64
710	6476.741	303.73	0.63
711	6491.741	303.72	0.62
712	6506.741	303.70	0.60
713	6521.741	303.69	0.59

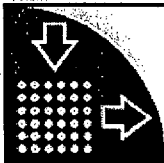
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 24
Data observed at: CM9-04		Pumping test: Test 4	
Distance from PW: 757.4 [ft]		Pumping well: CPW2002	
Depth to static WL: 303.1 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
714	6536.741	303.68	0.58
715	6551.741	303.68	0.58
716	6566.741	303.66	0.56
717	6581.741	303.66	0.56
718	6596.741	303.65	0.55
719	6611.741	303.64	0.54
720	6626.741	303.64	0.54
721	6641.741	303.62	0.52
722	6656.741	303.62	0.52
723	6671.741	303.63	0.53
724	6686.741	303.63	0.53
725	6701.741	303.62	0.52
726	6716.741	303.60	0.50
727	6731.741	303.59	0.49
728	6746.741	303.58	0.48
729	6761.741	303.56	0.46
730	6776.741	303.55	0.45
731	6791.741	303.53	0.43
732	6806.741	303.53	0.43
733	6821.741	303.52	0.42
734	6836.741	303.51	0.41
735	6851.741	303.50	0.40
736	6866.741	303.49	0.39
737	6881.741	303.48	0.38
738	6896.741	303.47	0.37
739	6911.741	303.45	0.35
740	6926.741	303.44	0.34
741	6941.741	303.43	0.33
742	6956.741	303.42	0.32
743	6971.741	303.40	0.30
744	6986.741	303.39	0.29

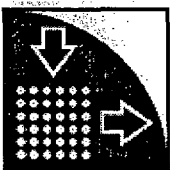
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 25
Data observed at: CM9-04		Pumping test: Test 4	
Distance from PW: 757.4 [ft]		Pumping well: CPW2002	
Depth to static WL: 303.1 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
745	7001.741	303.37	0.27

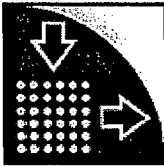


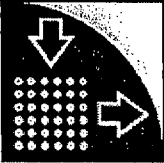
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 1
Data observed at: CM9-13		Pumping test: Test 4	
Distance from PW: 469.11 [ft]		Pumping well: CPW2002	
Depth to static WL: 254.6 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
1	0	254.60	0.00
2	0.016	254.61	0.01
3	0.033	254.61	0.01
4	0.049	254.60	0.00
5	0.065	254.60	0.00
6	0.082	254.61	0.01
7	0.098	254.61	0.01
8	0.114	254.61	0.01
9	0.131	254.61	0.01
10	0.147	254.61	0.01
11	0.163	254.61	0.01
12	0.18	254.60	0.00
13	0.196	254.59	-0.01
14	0.212	254.60	0.00
15	0.229	254.61	0.01
16	0.245	254.61	0.01
17	0.261	254.61	0.01
18	0.278	254.60	0.00
19	0.294	254.60	0.00
20	0.31	254.61	0.01
21	0.327	254.60	0.00
22	0.343	254.60	0.00
23	0.361	254.60	0.00
24	0.38	254.60	0.00
25	0.4	254.61	0.01
26	0.42	254.61	0.01
27	0.443	254.60	0.00
28	0.466	254.60	0.00
29	0.491	254.61	0.01
30	0.517	254.61	0.01
31	0.545	254.61	0.01

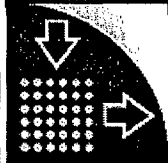
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 2
Data observed at: CM9-13		Pumping test: Test 4	
Distance from PW: 469.11 [ft]		Pumping well: CPW2002	
Depth to static WL: 254.6 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
32	0.575	254.60	0.00
33	0.606	254.61	0.01
34	0.639	254.61	0.01
35	0.675	254.61	0.01
36	0.712	254.61	0.01
37	0.751	254.61	0.01
38	0.793	254.60	0.00
39	0.838	254.61	0.01
40	0.885	254.61	0.01
41	0.934	254.61	0.01
42	0.987	254.61	0.01
43	1.043	254.61	0.01
44	1.102	254.61	0.01
45	1.165	254.61	0.01
46	1.231	254.61	0.01
47	1.302	254.62	0.02
48	1.376	254.61	0.01
49	1.455	254.61	0.01
50	1.539	254.61	0.01
51	1.627	254.61	0.01
52	1.721	254.61	0.01
53	1.82	254.61	0.01
54	1.926	254.61	0.01
55	2.037	254.62	0.02
56	2.155	254.61	0.01
57	2.28	254.62	0.02
58	2.413	254.61	0.01
59	2.554	254.61	0.01
60	2.702	254.61	0.01
61	2.86	254.61	0.01
62	3.027	254.62	0.02

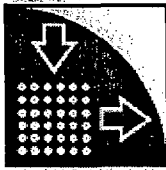
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 3
Data observed at: CM9-13		Pumping test: Test 4		
Distance from PW: 469.11 [ft]		Pumping well: CPW2002		
Depth to static WL: 254.6 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
63	3.204	254.62	0.02	
64	3.391	254.63	0.03	
65	3.589	254.62	0.02	
66	3.799	254.63	0.03	
67	4.022	254.64	0.04	
68	4.258	254.65	0.05	
69	4.508	254.65	0.05	
70	4.772	254.66	0.06	
71	5.053	254.67	0.07	
72	5.349	254.67	0.07	
73	5.664	254.67	0.07	
74	5.997	254.69	0.09	
75	6.35	254.69	0.09	
76	6.724	254.70	0.10	
77	7.12	254.72	0.12	
78	7.539	254.74	0.14	
79	7.984	254.76	0.16	
80	8.454	254.78	0.18	
81	8.953	254.80	0.20	
82	9.481	254.82	0.22	
83	10.04	254.85	0.25	
84	10.633	254.87	0.27	
85	11.26	254.89	0.29	
86	11.925	254.91	0.31	
87	12.629	254.94	0.34	
88	13.375	254.97	0.37	
89	14.165	255.00	0.40	
90	15.002	255.06	0.46	
91	15.888	255.08	0.48	
92	16.827	255.12	0.52	
93	17.822	255.16	0.56	

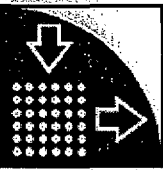
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 4
Data observed at: CM9-13		Pumping test: Test 4	
Distance from PW: 469.11 [ft]		Pumping well: CPW2002	
Depth to static WL: 254.6 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
94	18.875	255.20	0.60
95	19.991	255.25	0.65
96	21.174	255.28	0.68
97	22.426	255.33	0.73
98	23.752	255.38	0.78
99	25.157	255.41	0.81
100	26.646	255.46	0.86
101	28.222	255.51	0.91
102	29.892	255.56	0.96
103	31.661	255.62	1.02
104	33.535	255.67	1.07
105	35.519	255.70	1.10
106	37.621	255.77	1.17
107	39.848	255.82	1.22
108	42.207	255.88	1.28
109	44.706	255.93	1.33
110	47.352	256.00	1.40
111	50.156	256.06	1.46
112	53.126	256.11	1.51
113	56.271	256.17	1.57
114	59.603	256.21	1.61
115	63.133	256.28	1.68
116	66.871	256.34	1.74
117	70.832	256.41	1.81
118	75.026	256.47	1.87
119	79.47	256.53	1.93
120	84.176	256.58	1.98
121	89.162	256.65	2.05
122	94.443	256.71	2.11
123	100.037	256.77	2.17
124	105.962	256.83	2.23

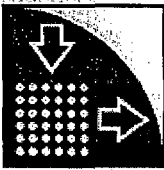
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 5
Data observed at: CM9-13		Pumping test: Test 4	
Distance from PW: 469.11 [ft]		Pumping well: CPW2002	
Depth to static WL: 254.6 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
125	112.238	256.91	2.31
126	118.886	256.95	2.35
127	125.929	257.01	2.41
128	133.388	257.07	2.47
129	141.29	257.13	2.53
130	149.659	257.19	2.59
131	158.525	257.25	2.65
132	167.916	257.30	2.70
133	177.863	257.35	2.75
134	187.863	257.41	2.81
135	197.863	257.46	2.86
136	207.863	257.52	2.92
137	217.863	257.55	2.95
138	227.863	257.62	3.02
139	237.863	257.64	3.04
140	247.863	257.69	3.09
141	257.863	257.73	3.13
142	267.863	257.77	3.17
143	277.863	257.81	3.21
144	287.863	257.86	3.26
145	297.863	257.90	3.30
146	307.863	257.94	3.34
147	317.863	257.96	3.36
148	327.863	258.01	3.41
149	337.863	258.05	3.45
150	347.863	258.08	3.48
151	357.863	258.09	3.49
152	367.863	258.12	3.52
153	377.863	258.15	3.55
154	387.863	258.18	3.58
155	397.863	258.23	3.63

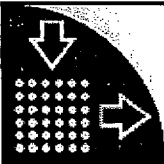
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 6
Data observed at: CM9-13		Pumping test: Test 4	
Distance from PW: 469.11 [ft]		Pumping well: CPW2002	
Depth to static WL: 254.6 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
156	407.863	258.23	3.63
157	417.863	258.26	3.66
158	427.863	258.29	3.69
159	437.863	258.31	3.71
160	447.863	258.35	3.75
161	457.863	258.38	3.78
162	467.863	258.39	3.79
163	477.863	258.42	3.82
164	487.863	258.45	3.85
165	497.863	258.47	3.87
166	507.863	258.50	3.90
167	517.864	258.52	3.92
168	527.864	258.54	3.94
169	537.864	258.55	3.95
170	547.864	258.56	3.96
171	557.864	258.58	3.98
172	567.864	258.59	3.99
173	577.864	258.61	4.01
174	587.864	258.62	4.02
175	597.864	258.62	4.02
176	607.864	258.64	4.04
177	617.864	258.64	4.04
178	627.864	258.66	4.06
179	637.864	258.68	4.08
180	647.864	258.68	4.08
181	657.864	258.69	4.09
182	667.864	258.71	4.11
183	677.864	258.72	4.12
184	687.864	258.73	4.13
185	697.864	258.73	4.13
186	707.864	258.75	4.15

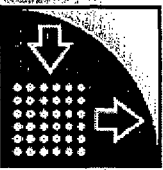
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 7
Data observed at: CM9-13		Pumping test: Test 4	
Distance from PW: 469.11 [ft]		Pumping well: CPW2002	
Depth to static WL: 254.6 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
187	717.864	258.74	4.14
188	727.864	258.76	4.16
189	737.864	258.76	4.16
190	747.864	258.77	4.17
191	757.864	258.77	4.17
192	767.864	258.77	4.17
193	777.864	258.77	4.17
194	787.864	258.77	4.17
195	797.864	258.77	4.17
196	807.864	258.76	4.16
197	817.864	258.76	4.16
198	827.864	258.76	4.16
199	837.864	258.75	4.15
200	847.864	258.75	4.15
201	857.864	258.74	4.14
202	867.864	258.75	4.15
203	877.864	258.74	4.14
204	887.864	258.73	4.13
205	897.864	258.73	4.13
206	907.864	258.72	4.12
207	917.864	258.71	4.11
208	927.864	258.71	4.11
209	937.864	258.71	4.11
210	947.864	258.71	4.11
211	957.864	258.70	4.10
212	967.864	258.70	4.10
213	977.864	258.70	4.10
214	987.864	258.72	4.12
215	997.864	258.70	4.10
216	1007.864	258.72	4.12
217	1017.864	258.72	4.12

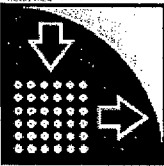
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 8
Data observed at: CM9-13		Pumping test: Test 4	
Distance from PW: 469.11 [ft]		Pumping well: CPW2002	
Depth to static WL: 254.6 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
218	1027.863	258.73	4.13
219	1037.863	258.73	4.13
220	1047.863	258.75	4.15
221	1057.863	258.75	4.15
222	1067.863	258.77	4.17
223	1077.863	258.75	4.15
224	1087.863	258.77	4.17
225	1097.863	258.77	4.17
226	1107.863	258.79	4.19
227	1117.863	258.80	4.20
228	1127.863	258.83	4.23
229	1137.863	258.80	4.20
230	1147.863	258.81	4.21
231	1157.863	258.82	4.22
232	1167.863	258.83	4.23
233	1177.863	258.84	4.24
234	1187.863	258.84	4.24
235	1197.863	258.88	4.28
236	1207.863	258.88	4.28
237	1217.863	258.85	4.25
238	1227.863	258.85	4.25
239	1237.863	258.87	4.27
240	1247.863	258.88	4.28
241	1257.863	258.89	4.29
242	1267.863	258.89	4.29
243	1277.863	258.88	4.28
244	1287.863	258.89	4.29
245	1297.863	258.89	4.29
246	1307.863	258.90	4.30
247	1317.863	258.91	4.31
248	1327.863	258.93	4.33

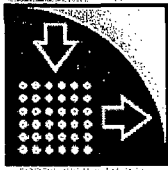
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 9
Data observed at: CM9-13		Pumping test: Test 4		
Distance from PW: 469.11 [ft]		Pumping well: CPW2002		
Depth to static WL: 254.6 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
249	1337.863	258.92	4.32	
250	1347.863	258.93	4.33	
251	1367.863	258.93	4.33	
252	1377.863	258.94	4.34	
253	1387.863	258.94	4.34	
254	1397.863	258.96	4.36	
255	1407.863	258.98	4.38	
256	1417.863	258.97	4.37	
257	1427.863	258.98	4.38	
258	1437.863	258.99	4.39	
259	1447.863	259.00	4.40	
260	1457.863	258.99	4.39	
261	1467.863	259.03	4.43	
262	1477.863	259.02	4.42	
263	1487.863	259.03	4.43	
264	1497.863	259.04	4.44	
265	1507.863	259.04	4.44	
266	1517.863	259.05	4.45	
267	1527.863	259.06	4.46	
268	1537.863	259.06	4.46	
269	1547.863	259.08	4.48	
270	1557.863	259.11	4.51	
271	1567.863	259.11	4.51	
272	1577.863	259.09	4.49	
273	1587.863	259.09	4.49	
274	1597.863	259.10	4.50	
275	1607.863	259.11	4.51	
276	1617.863	259.11	4.51	
277	1627.863	259.11	4.51	
278	1637.863	259.11	4.51	
279	1647.863	259.13	4.53	

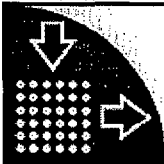
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 10
Data observed at: CM9-13		Pumping test: Test 4	
Distance from PW: 469.11 [ft]		Pumping well: CPW2002	
Depth to static WL: 254.6 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
280	1657.863	259.14	4.54
281	1667.863	259.14	4.54
282	1677.863	259.14	4.54
283	1687.863	259.15	4.55
284	1697.863	259.16	4.56
285	1707.863	259.17	4.57
286	1717.863	259.17	4.57
287	1727.863	259.18	4.58
288	1737.863	259.20	4.60
289	1747.863	259.23	4.63
290	1757.863	259.24	4.64
291	1767.863	259.22	4.62
292	1777.863	259.22	4.62
293	1787.863	259.23	4.63
294	1797.863	259.23	4.63
295	1807.863	259.23	4.63
296	1817.863	259.23	4.63
297	1827.863	259.22	4.62
298	1837.863	259.21	4.61
299	1847.863	259.22	4.62
300	1857.863	259.21	4.61
301	1867.863	259.22	4.62
302	1877.863	259.21	4.61
303	1887.863	259.21	4.61
304	1897.863	259.21	4.61
305	1907.863	259.20	4.60
306	1917.863	259.21	4.61
307	1927.863	259.20	4.60
308	1937.863	259.20	4.60
309	1947.863	259.19	4.59
310	1957.863	259.20	4.60

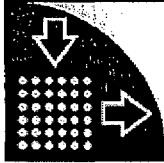
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 11
Data observed at: CM9-13		Pumping test: Test 4		
Distance from PW: 469.11 [ft]		Pumping well: CPW2002		
Depth to static WL: 254.6 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
311	1967.863	259.19	4.59	
312	1977.863	259.20	4.60	
313	1987.863	259.19	4.59	
314	1997.863	259.19	4.59	
315	2007.863	259.18	4.58	
316	2017.863	259.18	4.58	
317	2027.863	259.16	4.56	
318	2037.863	259.17	4.57	
319	2047.863	259.16	4.56	
320	2057.863	259.18	4.58	
321	2067.863	259.16	4.56	
322	2077.863	259.16	4.56	
323	2087.863	259.15	4.55	
324	2097.863	259.15	4.55	
325	2107.863	259.15	4.55	
326	2117.863	259.14	4.54	
327	2127.863	259.14	4.54	
328	2137.863	259.14	4.54	
329	2147.863	259.14	4.54	
330	2157.863	259.14	4.54	
331	2167.863	259.15	4.55	
332	2177.863	259.14	4.54	
333	2187.863	259.15	4.55	
334	2197.863	259.16	4.56	
335	2207.863	259.17	4.57	
336	2217.863	259.19	4.59	
337	2227.863	259.19	4.59	
338	2237.863	259.20	4.60	
339	2247.863	259.21	4.61	
340	2257.863	259.22	4.62	
341	2267.863	259.23	4.63	

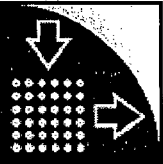
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 12
Data observed at: CM9-13		Pumping test: Test 4		
Distance from PW: 469.11 [ft]		Pumping well: CPW2002		
Depth to static WL: 254.6 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
342	2277.863	259.24	4.64	
343	2287.863	259.25	4.65	
344	2297.863	259.26	4.66	
345	2307.863	259.27	4.67	
346	2317.863	259.28	4.68	
347	2327.863	259.29	4.69	
348	2337.863	259.30	4.70	
349	2347.863	259.30	4.70	
350	2357.863	259.31	4.71	
351	2367.863	259.32	4.72	
352	2377.863	259.33	4.73	
353	2387.863	259.33	4.73	
354	2397.863	259.36	4.76	
355	2407.863	259.36	4.76	
356	2417.863	259.35	4.75	
357	2427.863	259.34	4.74	
358	2437.863	259.36	4.76	
359	2447.863	259.38	4.78	
360	2457.863	259.39	4.79	
361	2467.863	259.36	4.76	
362	2477.863	259.39	4.79	
363	2487.863	259.40	4.80	
364	2497.863	259.41	4.81	
365	2507.863	259.41	4.81	
366	2517.863	259.42	4.82	
367	2527.863	259.41	4.81	
368	2537.863	259.41	4.81	
369	2547.863	259.39	4.79	
370	2557.863	259.43	4.83	
371	2567.863	259.43	4.83	
372	2577.863	259.45	4.85	

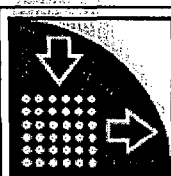
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 13
Data observed at: CM9-13		Pumping test: Test 4	
Distance from PW: 469.11 [ft]		Pumping well: CPW2002	
Depth to static WL: 254.6 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
373	2587.863	259.45	4.85
374	2597.863	259.43	4.83
375	2607.863	259.46	4.86
376	2617.863	259.47	4.87
377	2627.863	259.50	4.90
378	2637.863	259.49	4.89
379	2647.863	259.49	4.89
380	2657.863	259.49	4.89
381	2667.863	259.49	4.89
382	2677.863	259.50	4.90
383	2687.863	259.53	4.93
384	2697.863	259.51	4.91
385	2707.863	259.53	4.93
386	2717.863	259.53	4.93
387	2727.863	259.53	4.93
388	2737.863	259.55	4.95
389	2747.863	259.57	4.97
390	2757.863	259.55	4.95
391	2767.863	259.58	4.98
392	2777.863	259.50	4.90
393	2787.863	259.54	4.94
394	2797.863	259.58	4.98
395	2807.863	259.63	5.03
396	2817.863	259.59	4.99
397	2827.863	259.61	5.01
398	2837.863	259.58	4.98
399	2847.863	259.60	5.00
400	2857.863	259.61	5.01
401	2867.863	259.58	4.98
402	2877.863	259.62	5.02
403	2887.863	259.61	5.01

	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 14
Data observed at: CM9-13		Pumping test: Test 4		
Distance from PW: 469.11 [ft]		Pumping well: CPW2002		
Depth to static WL: 254.6 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
404	2897.863	259.61	5.01	
405	2907.863	259.61	5.01	
406	2917.863	259.58	4.98	
407	2927.863	259.64	5.04	
408	2937.863	259.64	5.04	
409	2947.863	259.62	5.02	
410	2957.863	259.61	5.01	
411	2967.863	259.65	5.05	
412	2977.863	259.65	5.05	
413	2987.863	259.65	5.05	
414	2997.863	259.65	5.05	
415	3007.863	259.66	5.06	
416	3017.863	259.67	5.07	
417	3027.863	259.68	5.08	
418	3037.863	259.68	5.08	
419	3047.863	259.69	5.09	
420	3057.863	259.70	5.10	
421	3067.863	259.70	5.10	
422	3077.863	259.71	5.11	
423	3087.863	259.72	5.12	
424	3097.863	259.73	5.13	
425	3107.863	259.74	5.14	
426	3117.863	259.76	5.16	
427	3127.863	259.75	5.15	
428	3137.863	259.77	5.17	
429	3147.863	259.79	5.19	
430	3157.863	259.81	5.21	
431	3167.863	259.81	5.21	
432	3177.863	259.82	5.22	
433	3187.863	259.84	5.24	
434	3197.863	259.85	5.25	

	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 15
Data observed at: CM9-13		Pumping test: Test 4		
Distance from PW: 469.11 [ft]		Pumping well: CPW2002		
Depth to static WL: 254.6 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
435	3207.863	259.86	5.26	
436	3217.863	259.87	5.27	
437	3227.863	259.87	5.27	
438	3237.863	259.88	5.28	
439	3247.863	259.88	5.28	
440	3257.863	259.88	5.28	
441	3267.863	259.88	5.28	
442	3277.863	259.88	5.28	
443	3287.863	259.88	5.28	
444	3297.863	259.88	5.28	
445	3307.863	259.88	5.28	
446	3317.863	259.88	5.28	
447	3327.863	259.88	5.28	
448	3337.863	259.89	5.29	
449	3347.863	259.89	5.29	
450	3357.863	259.90	5.30	
451	3367.863	259.90	5.30	
452	3377.863	259.90	5.30	
453	3387.863	259.91	5.31	
454	3397.863	259.91	5.31	
455	3407.863	259.92	5.32	
456	3417.863	259.92	5.32	
457	3427.863	259.93	5.33	
458	3437.863	259.94	5.34	
459	3447.863	259.95	5.35	
460	3457.863	259.95	5.35	
461	3467.863	259.96	5.36	
462	3477.863	259.96	5.36	
463	3487.863	259.96	5.36	
464	3497.863	259.98	5.38	
465	3507.863	259.98	5.38	

 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 16
Data observed at: CM9-13		Pumping test: Test 4	
Distance from PW: 469.11 [ft]		Pumping well: CPW2002	
Depth to static WL: 254.6 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
466	3517.863	259.99	5.39
467	3527.863	260.00	5.40
468	3537.863	260.01	5.41
469	3547.863	260.02	5.42
470	3557.863	260.03	5.43
471	3567.863	260.05	5.45
472	3577.863	260.06	5.46
473	3587.863	260.07	5.47
474	3597.863	260.08	5.48
475	3607.863	260.09	5.49
476	3617.863	260.10	5.50
477	3627.863	260.11	5.51
478	3637.863	260.13	5.53
479	3647.863	260.14	5.54
480	3657.863	260.15	5.55
481	3667.863	260.16	5.56
482	3677.863	260.17	5.57
483	3687.863	260.18	5.58
484	3697.863	260.19	5.59
485	3707.863	260.20	5.60
486	3717.863	260.21	5.61
487	3727.863	260.22	5.62
488	3737.863	260.23	5.63
489	3747.863	260.24	5.64
490	3757.863	260.25	5.65
491	3767.863	260.26	5.66
492	3777.863	260.28	5.68
493	3787.863	260.29	5.69
494	3797.863	260.30	5.70
495	3807.863	260.32	5.72
496	3817.863	260.33	5.73

 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 17
Data observed at: CM9-13		Pumping test: Test 4	
Distance from PW: 469.11 [ft]		Pumping well: CPW2002	
Depth to static WL: 254.6 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
497	3827.863	260.34	5.74
498	3837.863	260.37	5.77
499	3870	260.37	5.77
500	3870.017	260.37	5.77
501	3870.033	260.37	5.77
502	3870.05	260.37	5.77
503	3870.066	260.37	5.77
504	3870.082	260.37	5.77
505	3870.099	260.37	5.77
506	3870.115	260.37	5.77
507	3870.132	260.37	5.77
508	3870.148	260.37	5.77
509	3870.165	260.37	5.77
510	3870.182	260.37	5.77
511	3870.198	260.37	5.77
512	3870.215	260.37	5.77
513	3870.231	260.37	5.77
514	3870.247	260.37	5.77
515	3870.264	260.37	5.77
516	3870.28	260.37	5.77
517	3870.297	260.37	5.77
518	3870.314	260.37	5.77
519	3870.33	260.37	5.77
520	3870.347	260.37	5.77
521	3870.364	260.37	5.77
522	3870.383	260.37	5.77
523	3870.403	260.37	5.77
524	3870.424	260.37	5.77
525	3870.446	260.37	5.77
526	3870.47	260.37	5.77
527	3870.494	260.37	5.77

**Petrotek Engineering**

9088 S. Ridgeline Blvd., Suite 105

Littleton, CO 80433 USA

303-290-9414

Pumping Test Data Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

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Data observed at: CM9-13

Pumping test: Test 4

Distance from PW: 469.11 [ft]

Pumping well: CPW2002

Depth to static WL: 254.6 [ft]

Screen radius: 0.1875 [ft]

Location: Crawford, NE

Screen length: 60 [ft]

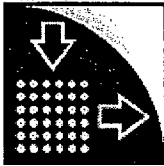
Test performed by: HPD

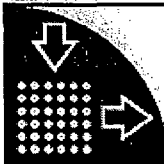
Casing radius: 0.33333333 [ft]

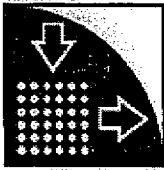
Date: 10/4/2

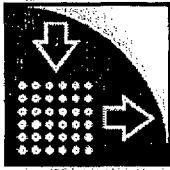
Aquifer thickness: 40 [ft]

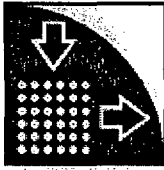
	Time [min]	Depth to WL [ft]	Drawdown [ft]
528	3870.521	260.37	5.77
529	3870.549	260.37	5.77
530	3870.578	260.37	5.77
531	3870.61	260.37	5.77
532	3870.643	260.37	5.77
533	3870.678	260.37	5.77
534	3870.715	260.37	5.77
535	3870.755	260.37	5.77
536	3870.797	260.37	5.77
537	3870.841	260.37	5.77
538	3870.888	260.37	5.77
539	3870.938	260.37	5.77
540	3870.99	260.37	5.77
541	3871.046	260.37	5.77
542	3871.106	260.37	5.77
543	3871.168	260.37	5.77
544	3871.235	260.37	5.77
545	3871.305	260.37	5.77
546	3871.379	260.37	5.77
547	3871.458	260.37	5.77
548	3871.542	260.37	5.77
549	3871.631	260.37	5.77
550	3871.724	260.37	5.77
551	3871.824	260.37	5.77
552	3871.929	260.37	5.77
553	3872.041	260.37	5.77
554	3872.159	260.37	5.77
555	3872.284	260.37	5.77
556	3872.416	260.37	5.77
557	3872.557	260.36	5.76
558	3872.706	260.36	5.76

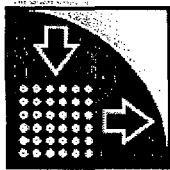
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 19
Data observed at: CM9-13		Pumping test: Test 4	
Distance from PW: 469.11 [ft]		Pumping well: CPW2002	
Depth to static WL: 254.6 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
559	3872.863	260.36	5.76
560	3873.03	260.36	5.76
561	3873.207	260.36	5.76
562	3873.394	260.36	5.76
563	3873.593	260.36	5.76
564	3873.803	260.35	5.75
565	3874.025	260.35	5.75
566	3874.261	260.35	5.75
567	3874.511	260.34	5.74
568	3874.776	260.34	5.74
569	3875.056	260.33	5.73
570	3875.353	260.32	5.72
571	3875.667	260.32	5.72
572	3876.001	260.31	5.71
573	3876.353	260.30	5.70
574	3876.727	260.29	5.69
575	3877.123	260.27	5.67
576	3877.543	260.26	5.66
577	3877.987	260.24	5.64
578	3878.457	260.22	5.62
579	3878.956	260.20	5.60
580	3879.484	260.18	5.58
581	3880.043	260.16	5.56
582	3880.636	260.14	5.54
583	3881.263	260.11	5.51
584	3881.928	260.09	5.49
585	3882.632	260.06	5.46
586	3883.378	260.04	5.44
587	3884.168	260.01	5.41
588	3885.005	259.98	5.38
589	3885.892	259.94	5.34

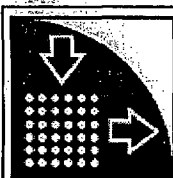
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 20
Data observed at: CM9-13		Pumping test: Test 4		
Distance from PW: 469.11 [ft]		Pumping well: CPW2002		
Depth to static WL: 254.6 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
590	3886.831	259.90	5.30	
591	3887.825	259.85	5.25	
592	3888.879	259.81	5.21	
593	3889.995	259.77	5.17	
594	3891.177	259.73	5.13	
595	3892.429	259.69	5.09	
596	3893.756	259.65	5.05	
597	3895.161	259.61	5.01	
598	3896.649	259.56	4.96	
599	3898.226	259.52	4.92	
600	3899.895	259.48	4.88	
601	3901.664	259.46	4.86	
602	3903.538	259.38	4.78	
603	3905.523	259.32	4.72	
604	3907.625	259.28	4.68	
605	3909.852	259.24	4.64	
606	3912.211	259.18	4.58	
607	3914.709	259.12	4.52	
608	3917.356	259.06	4.46	
609	3920.159	259.01	4.41	
610	3923.129	258.96	4.36	
611	3926.275	258.91	4.31	
612	3929.607	258.85	4.25	
613	3933.136	258.81	4.21	
614	3936.875	258.77	4.17	
615	3940.835	258.71	4.11	
616	3945.03	258.67	4.07	
617	3949.473	258.60	4.00	
618	3954.18	258.53	3.93	
619	3959.165	258.48	3.88	
620	3964.446	258.43	3.83	

 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 21
Data observed at: CM9-13		Pumping test: Test 4	
Distance from PW: 469.11 [ft]		Pumping well: CPW2002	
Depth to static WL: 254.6 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
621	3970.04	258.37	3.77
622	3975.965	258.31	3.71
623	3982.242	258.25	3.65
624	3988.89	258.20	3.60
625	3995.932	258.16	3.56
626	4003.392	258.09	3.49
627	4011.293	258.05	3.45
628	4019.663	258.01	3.41
629	4028.528	257.93	3.33
630	4037.919	257.89	3.29
631	4047.867	257.83	3.23
632	4058.404	257.78	3.18
633	4069.565	257.73	3.13
634	4081.387	257.66	3.06
635	4093.911	257.62	3.02
636	4107.176	257.55	2.95
637	4121.227	257.49	2.89
638	4136.111	257.41	2.81
639	4151.111	257.36	2.76
640	4166.111	257.32	2.72
641	4181.111	257.25	2.65
642	4196.111	257.19	2.59
643	4211.111	257.12	2.52
644	4226.111	257.07	2.47
645	4241.111	257.02	2.42
646	4256.111	256.96	2.36
647	4271.111	256.92	2.32
648	4286.111	256.84	2.24
649	4301.111	256.80	2.20
650	4316.111	256.73	2.13
651	4331.111	256.69	2.09

 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 22
Data observed at: CM9-13		Pumping test: Test 4	
Distance from PW: 469.11 [ft]		Pumping well: CPW2002	
Depth to static WL: 254.6 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
652	4346.111	256.65	2.05
653	4361.111	256.61	2.01
654	4376.111	256.57	1.97
655	4391.111	256.53	1.93
656	4406.111	256.49	1.89
657	4421.111	256.46	1.86
658	4436.111	256.44	1.84
659	4451.111	256.42	1.82
660	4466.111	256.41	1.81
661	4481.111	256.39	1.79
662	4496.111	256.37	1.77
663	4511.111	256.36	1.76
664	4526.111	256.36	1.76
665	4541.111	256.35	1.75
666	4556.111	256.35	1.75
667	4571.111	256.35	1.75
668	4586.111	256.34	1.74
669	4601.111	256.34	1.74
670	4616.111	256.34	1.74
671	4631.111	256.34	1.74
672	4646.111	256.34	1.74
673	4661.111	256.33	1.73
674	4676.111	256.34	1.74
675	4691.111	256.34	1.74
676	4706.111	256.34	1.74
677	4721.111	256.34	1.74
678	4736.111	256.34	1.74
679	4751.111	256.34	1.74
680	4766.111	256.35	1.75
681	4781.111	256.36	1.76
682	4796.111	256.38	1.78

	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 23
Data observed at: CM9-13		Pumping test: Test 4		
Distance from PW: 469.11 [ft]		Pumping well: CPW2002		
Depth to static WL: 254.6 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
683	4811.111	256.39	1.79	
684	4826.111	256.41	1.81	
685	4841.111	256.42	1.82	
686	4856.111	256.44	1.84	
687	4871.111	256.46	1.86	
688	4886.111	256.48	1.88	
689	4901.111	256.49	1.89	
690	4916.111	256.50	1.90	
691	4931.111	256.50	1.90	
692	4946.111	256.51	1.91	
693	4961.111	256.51	1.91	
694	4976.111	256.51	1.91	
695	4991.111	256.51	1.91	
696	5006.111	256.50	1.90	
697	5021.111	256.49	1.89	
698	5036.111	256.48	1.88	
699	5051.111	256.46	1.86	
700	5066.111	256.47	1.87	
701	5081.111	256.46	1.86	
702	5096.111	256.46	1.86	
703	5111.111	256.45	1.85	
704	5126.111	256.44	1.84	
705	5141.111	256.43	1.83	
706	5156.111	256.42	1.82	
707	5171.111	256.40	1.80	
708	5186.111	256.39	1.79	
709	5201.111	256.37	1.77	
710	5216.111	256.35	1.75	
711	5231.111	256.35	1.75	
712	5246.111	256.34	1.74	
713	5261.111	256.33	1.73	

 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 24
Data observed at: CM9-13		Pumping test: Test 4	
Distance from PW: 469.11 [ft]		Pumping well: CPW2002	
Depth to static WL: 254.6 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
714	5276.111	256.33	1.73
715	5291.111	256.33	1.73
716	5306.111	256.35	1.75
717	5321.111	256.38	1.78
718	5336.111	256.43	1.83
719	5351.111	256.47	1.87
720	5366.111	256.48	1.88
721	5381.111	256.51	1.91
722	5396.111	256.51	1.91
723	5411.111	256.52	1.92
724	5426.111	256.51	1.91
725	5441.111	256.49	1.89
726	5456.111	256.45	1.85
727	5471.111	256.42	1.82
728	5486.111	256.40	1.80
729	5501.111	256.36	1.76
730	5516.111	256.34	1.74
731	5531.111	256.30	1.70
732	5546.111	256.20	1.60
733	5561.111	256.23	1.63
734	5576.111	256.18	1.58
735	5591.111	256.16	1.56
736	5606.111	256.13	1.53
737	5621.111	256.09	1.49
738	5636.111	256.04	1.44
739	5651.111	256.04	1.44
740	5666.111	255.95	1.35
741	5681.111	255.96	1.36
742	5696.111	255.95	1.35
743	5711.111	255.92	1.32
744	5726.111	255.86	1.26

**Petrotek Engineering**

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Pumping Test Data Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

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Data observed at: CM9-13

Pumping test: Test 4

Distance from PW: 469.11 [ft]

Pumping well: CPW2002

Depth to static WL: 254.6 [ft]

Screen radius: 0.1875 [ft]

Location: Crawford, NE

Screen length: 60 [ft]

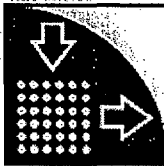
Test performed by: HPD

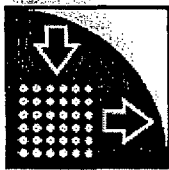
Casing radius: 0.33333333 [ft]

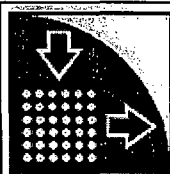
Date: 10/4/2

Aquifer thickness: 40 [ft]

	Time [min]	Depth to WL [ft]	Drawdown [ft]
745	5741.111	255.87	1.27
746	5756.111	255.81	1.21
747	5771.111	255.79	1.19
748	5786.111	255.76	1.16
749	5801.111	255.74	1.14
750	5816.111	255.73	1.13
751	5831.111	255.71	1.11
752	5846.111	255.69	1.09
753	5861.111	255.68	1.08
754	5876.111	255.68	1.08
755	5891.111	255.66	1.06
756	5906.111	255.64	1.04
757	5921.111	255.63	1.03
758	5936.111	255.62	1.02
759	5951.111	255.62	1.02
760	5966.111	255.61	1.01
761	5981.111	255.60	1.00
762	5996.111	255.60	1.00
763	6011.111	255.59	0.99
764	6026.111	255.59	0.99
765	6041.111	255.58	0.98
766	6056.111	255.57	0.97
767	6071.111	255.56	0.96
768	6086.111	255.55	0.95
769	6101.111	255.55	0.95
770	6116.111	255.53	0.93
771	6131.111	255.52	0.92
772	6146.111	255.50	0.90
773	6161.111	255.48	0.88
774	6176.111	255.46	0.86
775	6191.111	255.44	0.84

 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 26
Data observed at: CM9-13		Pumping test: Test 4	
Distance from PW: 469.11 [ft]		Pumping well: CPW2002	
Depth to static WL: 254.6 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
776	6206.111	255.41	0.81
777	6221.111	255.38	0.78
778	6236.111	255.36	0.76
779	6251.111	255.33	0.73
780	6266.111	255.29	0.69
781	6281.111	255.27	0.67
782	6296.111	255.24	0.64
783	6311.111	255.22	0.62
784	6326.111	255.18	0.58
785	6341.111	255.16	0.56
786	6356.111	255.13	0.53
787	6371.111	255.10	0.50
788	6386.111	255.09	0.49
789	6401.111	255.07	0.47
790	6416.111	255.07	0.47
791	6431.111	255.05	0.45
792	6446.111	255.05	0.45
793	6461.111	255.05	0.45
794	6476.111	255.03	0.43
795	6491.111	255.01	0.41
796	6506.111	254.98	0.38
797	6521.111	254.96	0.36
798	6536.111	254.94	0.34
799	6551.111	254.92	0.32
800	6566.111	254.90	0.30
801	6581.111	254.89	0.29
802	6596.111	254.88	0.28
803	6611.111	254.87	0.27
804	6626.111	254.85	0.25
805	6641.111	254.84	0.24
806	6656.111	254.82	0.22

 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 27
Data observed at: CM9-13		Pumping test: Test 4	
Distance from PW: 469.11 [ft]		Pumping well: CPW2002	
Depth to static WL: 254.6 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
807	6671.111	254.83	0.23
808	6686.111	254.83	0.23
809	6701.111	254.81	0.21
810	6716.111	254.79	0.19
811	6731.111	254.77	0.17
812	6746.111	254.76	0.16
813	6761.111	254.75	0.15
814	6776.111	254.72	0.12
815	6791.111	254.71	0.11
816	6806.111	254.68	0.08
817	6821.111	254.68	0.08
818	6836.111	254.66	0.06
819	6851.111	254.65	0.05
820	6866.111	254.62	0.02
821	6881.111	254.61	0.01
822	6896.111	254.58	-0.02
823	6911.111	254.56	-0.04
824	6926.111	254.58	-0.02
825	6941.111	254.57	-0.03
826	6956.111	254.55	-0.05
827	6971.111	254.53	-0.07
828	6986.111	254.52	-0.08
829	7001.111	254.49	-0.11

**Petrotek Engineering**

9088 S. Ridgeline Blvd., Suite 105

Littleton, CO 80433 USA

303-290-9414

Pumping Test Data Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

Page 1

Data observed at: CM9-14

Pumping test: Test 4

Distance from PW: 633.82 [ft]

Pumping well: CPW2002

Depth to static WL: 247.5 [ft]

Screen radius: 0.1875 [ft]

Location: Crawford, NE

Screen length: 60 [ft]

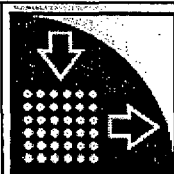
Test performed by: HPD

Casing radius: 0.33333333 [ft]

Date: 10/4/2

Aquifer thickness: 40 [ft]

	Time [min]	Depth to WL [ft]	Drawdown [ft]
1	0	247.50	0.00
2	0.016	247.50	0.00
3	0.033	247.50	0.00
4	0.049	247.50	0.00
5	0.065	247.50	0.00
6	0.082	247.50	0.00
7	0.098	247.50	0.00
8	0.114	247.50	0.00
9	0.131	247.50	0.00
10	0.147	247.50	0.00
11	0.163	247.50	0.00
12	0.18	247.50	0.00
13	0.196	247.50	0.00
14	0.212	247.50	0.00
15	0.229	247.50	0.00
16	0.245	247.51	0.01
17	0.261	247.51	0.01
18	0.278	247.50	0.00
19	0.294	247.51	0.01
20	0.31	247.50	0.00
21	0.327	247.50	0.00
22	0.343	247.50	0.00
23	0.361	247.50	0.00
24	0.38	247.50	0.00
25	0.4	247.50	0.00
26	0.42	247.50	0.00
27	0.443	247.50	0.00
28	0.466	247.50	0.00
29	0.491	247.50	0.00
30	0.517	247.51	0.01
31	0.545	247.50	0.00

**Petrotek Engineering**

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Pumping Test Data Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

Page 2

Data observed at: CM9-14

Pumping test: Test 4

Distance from PW: 633.82 [ft]

Pumping well: CPW2002

Depth to static WL: 247.5 [ft]

Screen radius: 0.1875 [ft]

Location: Crawford, NE

Screen length: 60 [ft]

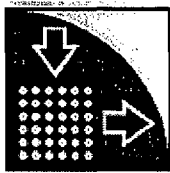
Test performed by: HPD

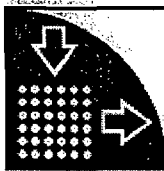
Casing radius: 0.33333333 [ft]

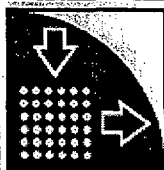
Date: 10/4/2

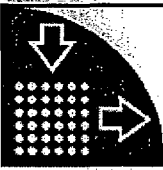
Aquifer thickness: 40 [ft]

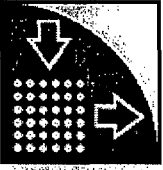
	Time [min]	Depth to WL [ft]	Drawdown [ft]
32	0.575	247.50	0.00
33	0.606	247.50	0.00
34	0.639	247.50	0.00
35	0.675	247.50	0.00
36	0.712	247.50	0.00
37	0.751	247.50	0.00
38	0.793	247.50	0.00
39	0.838	247.50	0.00
40	0.885	247.50	0.00
41	0.934	247.50	0.00
42	0.987	247.51	0.01
43	1.043	247.50	0.00
44	1.102	247.50	0.00
45	1.165	247.51	0.01
46	1.231	247.51	0.01
47	1.302	247.51	0.01
48	1.376	247.51	0.01
49	1.455	247.52	0.02
50	1.539	247.51	0.01
51	1.627	247.51	0.01
52	1.721	247.51	0.01
53	1.82	247.51	0.01
54	1.926	247.50	0.00
55	2.037	247.51	0.01
56	2.155	247.51	0.01
57	2.28	247.51	0.01
58	2.413	247.51	0.01
59	2.554	247.51	0.01
60	2.702	247.51	0.01
61	2.86	247.51	0.01
62	3.027	247.51	0.01

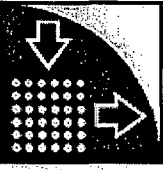
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 3
Data observed at: CM9-14		Pumping test: Test 4		
Distance from PW: 633.82 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.5 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
63	3.204	247.51	0.01	
64	3.391	247.52	0.02	
65	3.589	247.52	0.02	
66	3.799	247.52	0.02	
67	4.022	247.53	0.03	
68	4.258	247.53	0.03	
69	4.508	247.53	0.03	
70	4.772	247.53	0.03	
71	5.053	247.54	0.04	
72	5.349	247.54	0.04	
73	5.664	247.54	0.04	
74	5.997	247.54	0.04	
75	6.35	247.54	0.04	
76	6.724	247.54	0.04	
77	7.12	247.55	0.05	
78	7.539	247.57	0.07	
79	7.984	247.58	0.08	
80	8.454	247.60	0.10	
81	8.953	247.61	0.11	
82	9.481	247.63	0.13	
83	10.04	247.65	0.15	
84	10.633	247.68	0.18	
85	11.26	247.68	0.18	
86	11.925	247.69	0.19	
87	12.629	247.71	0.21	
88	13.375	247.73	0.23	
89	14.165	247.75	0.25	
90	15.002	247.78	0.28	
91	15.888	247.81	0.31	
92	16.827	247.84	0.34	
93	17.822	247.87	0.37	

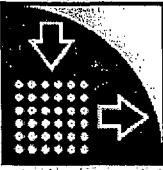
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 4
Data observed at: CM9-14		Pumping test: Test 4		
Distance from PW: 633.82 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.5 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
94	18.875	247.91	0.41	
95	19.991	247.95	0.45	
96	21.174	247.97	0.47	
97	22.426	248.02	0.52	
98	23.752	248.06	0.56	
99	25.157	248.08	0.58	
100	26.646	248.12	0.62	
101	28.222	248.16	0.66	
102	29.892	248.21	0.71	
103	31.661	248.26	0.76	
104	33.535	248.30	0.80	
105	35.519	248.32	0.82	
106	37.621	248.38	0.88	
107	39.848	248.43	0.93	
108	42.207	248.48	0.98	
109	44.706	248.53	1.03	
110	47.352	248.59	1.09	
111	50.156	248.64	1.14	
112	53.126	248.67	1.17	
113	56.271	248.73	1.23	
114	59.603	248.78	1.28	
115	63.133	248.84	1.34	
116	66.871	248.88	1.38	
117	70.832	248.96	1.46	
118	75.026	249.00	1.50	
119	79.47	249.05	1.55	
120	84.176	249.11	1.61	
121	89.162	249.16	1.66	
122	94.443	249.21	1.71	
123	100.037	249.25	1.75	
124	105.962	249.32	1.82	

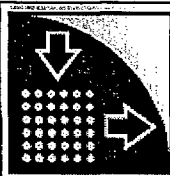
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 5
Data observed at: CM9-14		Pumping test: Test 4	
Distance from PW: 633.82 [ft]		Pumping well: CPW2002	
Depth to static WL: 247.5 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
125	112.238	249.38	1.88
126	118.886	249.43	1.93
127	125.929	249.48	1.98
128	133.388	249.52	2.02
129	141.29	249.59	2.09
130	149.659	249.64	2.14
131	158.525	249.69	2.19
132	167.916	249.74	2.24
133	177.863	249.79	2.29
134	187.863	249.84	2.34
135	197.863	249.90	2.40
136	207.863	249.94	2.44
137	217.863	249.98	2.48
138	227.863	250.03	2.53
139	237.863	250.07	2.57
140	247.863	250.11	2.61
141	257.863	250.14	2.64
142	267.863	250.18	2.68
143	277.863	250.22	2.72
144	287.863	250.27	2.77
145	297.863	250.30	2.80
146	307.863	250.34	2.84
147	317.863	250.38	2.88
148	327.863	250.41	2.91
149	337.863	250.44	2.94
150	347.863	250.46	2.96
151	357.863	250.48	2.98
152	367.863	250.52	3.02
153	377.863	250.56	3.06
154	387.863	250.57	3.07
155	397.863	250.61	3.11

	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 6
Data observed at: CM9-14		Pumping test: Test 4		
Distance from PW: 633.82 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.5 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
156	407.863	250.65	3.15	
157	417.863	250.66	3.16	
158	427.863	250.70	3.20	
159	437.863	250.73	3.23	
160	447.863	250.76	3.26	
161	457.863	250.79	3.29	
162	467.863	250.82	3.32	
163	477.863	250.85	3.35	
164	487.863	250.88	3.38	
165	497.863	250.90	3.40	
166	507.863	250.91	3.41	
167	517.864	250.92	3.42	
168	527.864	250.95	3.45	
169	537.864	250.95	3.45	
170	547.864	250.96	3.46	
171	557.864	250.96	3.46	
172	567.864	250.98	3.48	
173	577.864	250.98	3.48	
174	587.864	250.98	3.48	
175	597.864	250.99	3.49	
176	607.864	251.00	3.50	
177	617.864	251.02	3.52	
178	627.864	251.02	3.52	
179	637.864	251.05	3.55	
180	647.864	251.05	3.55	
181	657.864	251.05	3.55	
182	667.864	251.06	3.56	
183	677.864	251.07	3.57	
184	687.864	251.07	3.57	
185	697.864	251.07	3.57	
186	707.864	251.08	3.58	

 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 7
Data observed at: CM9-14		Pumping test: Test 4	
Distance from PW: 633.82 [ft]		Pumping well: CPW2002	
Depth to static WL: 247.5 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
187	717.864	251.08	3.58
188	727.864	251.08	3.58
189	737.864	251.07	3.57
190	747.864	251.07	3.57
191	757.864	251.05	3.55
192	767.864	251.04	3.54
193	777.864	251.03	3.53
194	787.864	251.02	3.52
195	797.864	251.01	3.51
196	807.864	250.99	3.49
197	817.864	250.99	3.49
198	827.864	250.96	3.46
199	837.864	250.95	3.45
200	847.864	250.94	3.44
201	857.864	250.93	3.43
202	867.864	250.92	3.42
203	877.864	250.91	3.41
204	887.864	250.89	3.39
205	897.864	250.88	3.38
206	907.864	250.87	3.37
207	917.864	250.85	3.35
208	927.864	250.85	3.35
209	937.864	250.85	3.35
210	947.864	250.84	3.34
211	957.864	250.84	3.34
212	967.864	250.83	3.33
213	977.864	250.84	3.34
214	987.864	250.87	3.37
215	997.864	250.85	3.35
216	1007.864	250.87	3.37
217	1017.864	250.88	3.38

	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 8
Data observed at: CM9-14		Pumping test: Test 4		
Distance from PW: 633.82 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.5 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
218	1027.863	250.90	3.40	
219	1037.863	250.90	3.40	
220	1047.863	250.92	3.42	
221	1057.863	250.92	3.42	
222	1067.863	250.95	3.45	
223	1077.863	250.92	3.42	
224	1087.863	250.95	3.45	
225	1097.863	250.95	3.45	
226	1107.863	250.98	3.48	
227	1117.863	250.99	3.49	
228	1127.863	251.02	3.52	
229	1137.863	250.99	3.49	
230	1147.863	251.00	3.50	
231	1157.863	251.01	3.51	
232	1167.863	251.02	3.52	
233	1177.863	251.04	3.54	
234	1187.863	251.04	3.54	
235	1197.863	251.09	3.59	
236	1207.863	251.07	3.57	
237	1217.863	251.03	3.53	
238	1227.863	251.04	3.54	
239	1237.863	251.06	3.56	
240	1247.863	251.08	3.58	
241	1257.863	251.09	3.59	
242	1267.863	251.08	3.58	
243	1277.863	251.08	3.58	
244	1287.863	251.08	3.58	
245	1297.863	251.08	3.58	
246	1307.863	251.10	3.60	
247	1317.863	251.11	3.61	
248	1327.863	251.13	3.63	

	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 9
Data observed at: CM9-14		Pumping test: Test 4		
Distance from PW: 633.82 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.5 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
249	1337.863	251.13	3.63	
250	1347.863	251.13	3.63	
251	1367.863	251.14	3.64	
252	1377.863	251.16	3.66	
253	1387.863	251.16	3.66	
254	1397.863	251.18	3.68	
255	1407.863	251.20	3.70	
256	1417.863	251.19	3.69	
257	1427.863	251.21	3.71	
258	1437.863	251.23	3.73	
259	1447.863	251.25	3.75	
260	1457.863	251.25	3.75	
261	1467.863	251.29	3.79	
262	1477.863	251.28	3.78	
263	1487.863	251.30	3.80	
264	1497.863	251.30	3.80	
265	1507.863	251.31	3.81	
266	1517.863	251.31	3.81	
267	1527.863	251.33	3.83	
268	1537.863	251.33	3.83	
269	1547.863	251.35	3.85	
270	1557.863	251.39	3.89	
271	1567.863	251.39	3.89	
272	1577.863	251.35	3.85	
273	1587.863	251.35	3.85	
274	1597.863	251.35	3.85	
275	1607.863	251.36	3.86	
276	1617.863	251.36	3.86	
277	1627.863	251.36	3.86	
278	1637.863	251.36	3.86	
279	1647.863	251.39	3.89	

**Petrotek Engineering**

9088 S. Ridgeline Blvd., Suite 105

Littleton, CO 80433 USA

303-290-9414

Pumping Test Data Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

Page 10

Data observed at: CM9-14**Pumping test: Test 4**

Distance from PW: 633.82 [ft]

Pumping well: CPW2002

Depth to static WL: 247.5 [ft]

Screen radius: 0.1875 [ft]

Location: Crawford, NE

Screen length: 60 [ft]

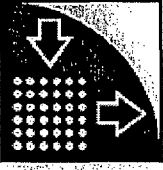
Test performed by: HPD

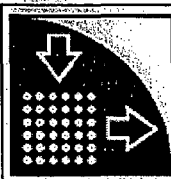
Casing radius: 0.33333333 [ft]

Date: 10/4/2

Aquifer thickness: 40 [ft]

	Time [min]	Depth to WL [ft]	Drawdown [ft]
280	1657.863	251.39	3.89
281	1667.863	251.38	3.88
282	1677.863	251.39	3.89
283	1687.863	251.41	3.91
284	1697.863	251.41	3.91
285	1707.863	251.42	3.92
286	1717.863	251.41	3.91
287	1727.863	251.42	3.92
288	1737.863	251.44	3.94
289	1747.863	251.48	3.98
290	1757.863	251.48	3.98
291	1767.863	251.46	3.96
292	1777.863	251.44	3.94
293	1787.863	251.45	3.95
294	1797.863	251.44	3.94
295	1807.863	251.43	3.93
296	1817.863	251.43	3.93
297	1827.863	251.42	3.92
298	1837.863	251.41	3.91
299	1847.863	251.41	3.91
300	1857.863	251.41	3.91
301	1867.863	251.42	3.92
302	1877.863	251.41	3.91
303	1887.863	251.41	3.91
304	1897.863	251.41	3.91
305	1907.863	251.39	3.89
306	1917.863	251.40	3.90
307	1927.863	251.38	3.88
308	1937.863	251.38	3.88
309	1947.863	251.37	3.87
310	1957.863	251.37	3.87

	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 11
Data observed at: CM9-14		Pumping test: Test 4		
Distance from PW: 633.82 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.5 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
311	1967.863	251.36	3.86	
312	1977.863	251.37	3.87	
313	1987.863	251.36	3.86	
314	1997.863	251.36	3.86	
315	2007.863	251.34	3.84	
316	2017.863	251.34	3.84	
317	2027.863	251.32	3.82	
318	2037.863	251.33	3.83	
319	2047.863	251.32	3.82	
320	2057.863	251.32	3.82	
321	2067.863	251.31	3.81	
322	2077.863	251.30	3.80	
323	2087.863	251.29	3.79	
324	2097.863	251.29	3.79	
325	2107.863	251.28	3.78	
326	2117.863	251.28	3.78	
327	2127.863	251.28	3.78	
328	2137.863	251.28	3.78	
329	2147.863	251.29	3.79	
330	2157.863	251.30	3.80	
331	2167.863	251.30	3.80	
332	2177.863	251.30	3.80	
333	2187.863	251.32	3.82	
334	2197.863	251.34	3.84	
335	2207.863	251.36	3.86	
336	2217.863	251.37	3.87	
337	2227.863	251.38	3.88	
338	2237.863	251.39	3.89	
339	2247.863	251.41	3.91	
340	2257.863	251.42	3.92	
341	2267.863	251.42	3.92	

**Petrotek Engineering**

9088 S. Ridgeline Blvd., Suite 105

Littleton, CO 80433 USA

303-290-9414

Pumping Test Data Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

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Data observed at: CM9-14

Pumping test: Test 4

Distance from PW: 633.82 [ft]

Pumping well: CPW2002

Depth to static WL: 247.5 [ft]

Screen radius: 0.1875 [ft]

Location: Crawford, NE

Screen length: 60 [ft]

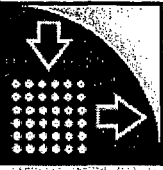
Test performed by: HPD

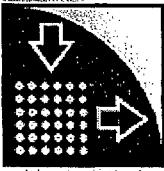
Casing radius: 0.33333333 [ft]

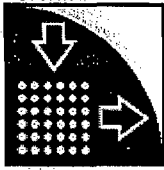
Date: 10/4/2

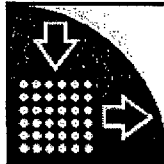
Aquifer thickness: 40 [ft]

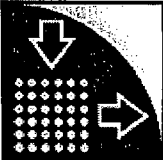
	Time [min]	Depth to WL [ft]	Drawdown [ft]
342	2277.863	251.44	3.94
343	2287.863	251.45	3.95
344	2297.863	251.46	3.96
345	2307.863	251.47	3.97
346	2317.863	251.48	3.98
347	2327.863	251.50	4.00
348	2337.863	251.50	4.00
349	2347.863	251.51	4.01
350	2357.863	251.51	4.01
351	2367.863	251.52	4.02
352	2377.863	251.53	4.03
353	2387.863	251.53	4.03
354	2397.863	251.56	4.06
355	2407.863	251.56	4.06
356	2417.863	251.54	4.04
357	2427.863	251.53	4.03
358	2437.863	251.56	4.06
359	2447.863	251.58	4.08
360	2457.863	251.60	4.10
361	2467.863	251.54	4.04
362	2477.863	251.58	4.08
363	2487.863	251.57	4.07
364	2497.863	251.61	4.11
365	2507.863	251.60	4.10
366	2517.863	251.62	4.12
367	2527.863	251.61	4.11
368	2537.863	251.61	4.11
369	2547.863	251.56	4.06
370	2557.863	251.64	4.14
371	2567.863	251.63	4.13
372	2577.863	251.65	4.15

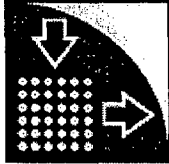
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 13
Data observed at: CM9-14		Pumping test: Test 4	
Distance from PW: 633.82 [ft]		Pumping well: CPW2002	
Depth to static WL: 247.5 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
373	2587.863	251.65	4.15
374	2597.863	251.62	4.12
375	2607.863	251.68	4.18
376	2617.863	251.68	4.18
377	2627.863	251.73	4.23
378	2637.863	251.72	4.22
379	2647.863	251.71	4.21
380	2657.863	251.72	4.22
381	2667.863	251.72	4.22
382	2677.863	251.73	4.23
383	2687.863	251.77	4.27
384	2697.863	251.75	4.25
385	2707.863	251.78	4.28
386	2717.863	251.78	4.28
387	2727.863	251.78	4.28
388	2737.863	251.79	4.29
389	2747.863	251.82	4.32
390	2757.863	251.79	4.29
391	2767.863	251.83	4.33
392	2777.863	251.71	4.21
393	2787.863	251.78	4.28
394	2797.863	251.84	4.34
395	2807.863	251.93	4.43
396	2817.863	251.84	4.34
397	2827.863	251.89	4.39
398	2837.863	251.82	4.32
399	2847.863	251.84	4.34
400	2857.863	251.86	4.36
401	2867.863	251.83	4.33
402	2877.863	251.88	4.38
403	2887.863	251.86	4.36

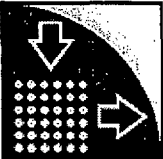
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 14
Data observed at: CM9-14		Pumping test: Test 4		
Distance from PW: 633.82 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.5 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
404	2897.863	251.87	4.37	
405	2907.863	251.84	4.34	
406	2917.863	251.80	4.30	
407	2927.863	251.91	4.41	
408	2937.863	251.90	4.40	
409	2947.863	251.87	4.37	
410	2957.863	251.85	4.35	
411	2967.863	251.89	4.39	
412	2977.863	251.90	4.40	
413	2987.863	251.90	4.40	
414	2997.863	251.90	4.40	
415	3007.863	251.91	4.41	
416	3017.863	251.92	4.42	
417	3027.863	251.92	4.42	
418	3037.863	251.92	4.42	
419	3047.863	251.93	4.43	
420	3057.863	251.94	4.44	
421	3067.863	251.95	4.45	
422	3077.863	251.95	4.45	
423	3087.863	251.97	4.47	
424	3097.863	251.99	4.49	
425	3107.863	251.99	4.49	
426	3117.863	252.01	4.51	
427	3127.863	252.00	4.50	
428	3137.863	252.04	4.54	
429	3147.863	252.06	4.56	
430	3157.863	252.08	4.58	
431	3167.863	252.09	4.59	
432	3177.863	252.11	4.61	
433	3187.863	252.13	4.63	
434	3197.863	252.14	4.64	

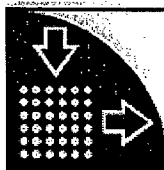
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 15
Data observed at: CM9-14		Pumping test: Test 4		
Distance from PW: 633.82 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.5 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
435	3207.863	252.14	4.64	
436	3217.863	252.15	4.65	
437	3227.863	252.13	4.63	
438	3237.863	252.14	4.64	
439	3247.863	252.13	4.63	
440	3257.863	252.11	4.61	
441	3267.863	252.11	4.61	
442	3277.863	252.10	4.60	
443	3287.863	252.09	4.59	
444	3297.863	252.09	4.59	
445	3307.863	252.09	4.59	
446	3317.863	252.09	4.59	
447	3327.863	252.10	4.60	
448	3337.863	252.10	4.60	
449	3347.863	252.11	4.61	
450	3357.863	252.12	4.62	
451	3367.863	252.12	4.62	
452	3377.863	252.13	4.63	
453	3387.863	252.13	4.63	
454	3397.863	252.14	4.64	
455	3407.863	252.14	4.64	
456	3417.863	252.15	4.65	
457	3427.863	252.16	4.66	
458	3437.863	252.18	4.68	
459	3447.863	252.18	4.68	
460	3457.863	252.19	4.69	
461	3467.863	252.20	4.70	
462	3477.863	252.20	4.70	
463	3487.863	252.21	4.71	
464	3497.863	252.24	4.74	
465	3507.863	252.24	4.74	

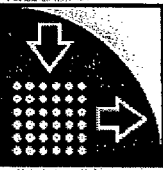
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 16
Data observed at: CM9-14		Pumping test: Test 4		
Distance from PW: 633.82 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.5 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
466	3517.863	252.25	4.75	
467	3527.863	252.26	4.76	
468	3537.863	252.28	4.78	
469	3547.863	252.29	4.79	
470	3557.863	252.31	4.81	
471	3567.863	252.33	4.83	
472	3577.863	252.33	4.83	
473	3587.863	252.36	4.86	
474	3597.863	252.37	4.87	
475	3607.863	252.38	4.88	
476	3617.863	252.40	4.90	
477	3627.863	252.40	4.90	
478	3637.863	252.44	4.94	
479	3647.863	252.44	4.94	
480	3657.863	252.45	4.95	
481	3667.863	252.46	4.96	
482	3677.863	252.47	4.97	
483	3687.863	252.48	4.98	
484	3697.863	252.49	4.99	
485	3707.863	252.50	5.00	
486	3717.863	252.51	5.01	
487	3727.863	252.52	5.02	
488	3737.863	252.54	5.04	
489	3747.863	252.55	5.05	
490	3757.863	252.56	5.06	
491	3767.863	252.58	5.08	
492	3777.863	252.59	5.09	
493	3787.863	252.61	5.11	
494	3797.863	252.63	5.13	
495	3807.863	252.64	5.14	
496	3817.863	252.66	5.16	

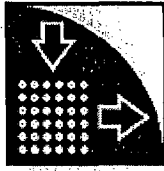
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 17
Data observed at: CM9-14		Pumping test: Test 4		
Distance from PW: 633.82 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.5 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
497	3827.863	252.67	5.17	
498	3837.863	252.70	5.20	
499	3870	252.70	5.20	
500	3870.017	252.70	5.20	
501	3870.033	252.70	5.20	
502	3870.05	252.70	5.20	
503	3870.066	252.70	5.20	
504	3870.082	252.70	5.20	
505	3870.099	252.70	5.20	
506	3870.115	252.70	5.20	
507	3870.132	252.70	5.20	
508	3870.148	252.70	5.20	
509	3870.165	252.70	5.20	
510	3870.182	252.70	5.20	
511	3870.198	252.70	5.20	
512	3870.215	252.70	5.20	
513	3870.231	252.70	5.20	
514	3870.247	252.70	5.20	
515	3870.264	252.70	5.20	
516	3870.28	252.70	5.20	
517	3870.297	252.70	5.20	
518	3870.314	252.70	5.20	
519	3870.33	252.70	5.20	
520	3870.347	252.70	5.20	
521	3870.364	252.70	5.20	
522	3870.383	252.70	5.20	
523	3870.403	252.70	5.20	
524	3870.424	252.70	5.20	
525	3870.446	252.70	5.20	
526	3870.47	252.70	5.20	
527	3870.494	252.70	5.20	

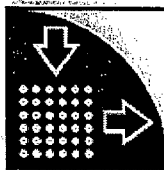
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 18
Data observed at: CM9-14		Pumping test: Test 4		
Distance from PW: 633.82 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.5 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
528	3870.521	252.70	5.20	
529	3870.549	252.70	5.20	
530	3870.578	252.70	5.20	
531	3870.61	252.70	5.20	
532	3870.643	252.70	5.20	
533	3870.678	252.70	5.20	
534	3870.715	252.70	5.20	
535	3870.755	252.70	5.20	
536	3870.797	252.70	5.20	
537	3870.841	252.70	5.20	
538	3870.888	252.70	5.20	
539	3870.938	252.70	5.20	
540	3870.99	252.70	5.20	
541	3871.046	252.70	5.20	
542	3871.106	252.70	5.20	
543	3871.168	252.70	5.20	
544	3871.235	252.70	5.20	
545	3871.305	252.70	5.20	
546	3871.379	252.70	5.20	
547	3871.458	252.70	5.20	
548	3871.542	252.70	5.20	
549	3871.631	252.70	5.20	
550	3871.724	252.70	5.20	
551	3871.824	252.70	5.20	
552	3871.929	252.70	5.20	
553	3872.041	252.70	5.20	
554	3872.159	252.70	5.20	
555	3872.284	252.70	5.20	
556	3872.416	252.70	5.20	
557	3872.557	252.70	5.20	
558	3872.706	252.70	5.20	

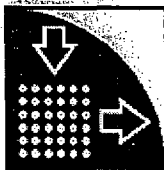
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 19
Data observed at: CM9-14		Pumping test: Test 4		
Distance from PW: 633.82 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.5 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
559	3872.863	252.70	5.20	
560	3873.03	252.70	5.20	
561	3873.207	252.70	5.20	
562	3873.394	252.70	5.20	
563	3873.593	252.70	5.20	
564	3873.803	252.70	5.20	
565	3874.025	252.70	5.20	
566	3874.261	252.69	5.19	
567	3874.511	252.69	5.19	
568	3874.776	252.69	5.19	
569	3875.056	252.68	5.18	
570	3875.353	252.68	5.18	
571	3875.667	252.68	5.18	
572	3876.001	252.67	5.17	
573	3876.353	252.66	5.16	
574	3876.727	252.66	5.16	
575	3877.123	252.65	5.15	
576	3877.543	252.64	5.14	
577	3877.987	252.63	5.13	
578	3878.457	252.62	5.12	
579	3878.956	252.61	5.11	
580	3879.484	252.59	5.09	
581	3880.043	252.58	5.08	
582	3880.636	252.56	5.06	
583	3881.263	252.55	5.05	
584	3881.928	252.53	5.03	
585	3882.632	252.52	5.02	
586	3883.378	252.50	5.00	
587	3884.168	252.49	4.99	
588	3885.005	252.46	4.96	
589	3885.892	252.44	4.94	

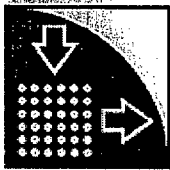
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 20
Data observed at: CM9-14		Pumping test: Test 4		
Distance from PW: 633.82 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.5 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
590	3886.831	252.40	4.90	
591	3887.825	252.36	4.86	
592	3888.879	252.31	4.81	
593	3889.995	252.28	4.78	
594	3891.177	252.25	4.75	
595	3892.429	252.22	4.72	
596	3893.756	252.19	4.69	
597	3895.161	252.16	4.66	
598	3896.649	252.12	4.62	
599	3898.226	252.08	4.58	
600	3899.895	252.05	4.55	
601	3901.664	252.03	4.53	
602	3903.538	251.97	4.47	
603	3905.523	251.93	4.43	
604	3907.625	251.90	4.40	
605	3909.852	251.88	4.38	
606	3912.211	251.79	4.29	
607	3914.709	251.74	4.24	
608	3917.356	251.68	4.18	
609	3920.159	251.65	4.15	
610	3923.129	251.61	4.11	
611	3926.275	251.56	4.06	
612	3929.607	251.51	4.01	
613	3933.136	251.49	3.99	
614	3936.875	251.46	3.96	
615	3940.835	251.38	3.88	
616	3945.03	251.37	3.87	
617	3949.473	251.29	3.79	
618	3954.18	251.24	3.74	
619	3959.165	251.19	3.69	
620	3964.446	251.16	3.66	

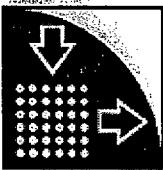
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 21
Data observed at: CM9-14		Pumping test: Test 4		
Distance from PW: 633.82 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.5 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
621	3970.04	251.10	3.60	
622	3975.965	251.05	3.55	
623	3982.242	250.99	3.49	
624	3988.89	250.96	3.46	
625	3995.932	250.91	3.41	
626	4003.392	250.85	3.35	
627	4011.293	250.82	3.32	
628	4019.663	250.78	3.28	
629	4028.528	250.71	3.21	
630	4037.919	250.66	3.16	
631	4047.867	250.60	3.10	
632	4058.404	250.54	3.04	
633	4069.565	250.49	2.99	
634	4081.387	250.41	2.91	
635	4093.911	250.37	2.87	
636	4107.176	250.30	2.80	
637	4121.227	250.23	2.73	
638	4136.111	250.15	2.65	
639	4151.111	250.08	2.58	
640	4166.111	250.05	2.55	
641	4181.111	249.98	2.48	
642	4196.111	249.89	2.39	
643	4211.111	249.80	2.30	
644	4226.111	249.77	2.27	
645	4241.111	249.70	2.20	
646	4256.111	249.64	2.14	
647	4271.111	249.59	2.09	
648	4286.111	249.50	2.00	
649	4301.111	249.45	1.95	
650	4316.111	249.38	1.88	
651	4331.111	249.34	1.84	

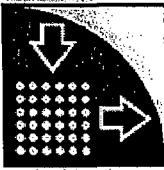
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 22
Data observed at: CM9-14		Pumping test: Test 4		
Distance from PW: 633.82 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.5 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
652	4346.111	249.29	1.79	
653	4361.111	249.25	1.75	
654	4376.111	249.21	1.71	
655	4391.111	249.17	1.67	
656	4406.111	249.14	1.64	
657	4421.111	249.12	1.62	
658	4436.111	249.11	1.61	
659	4451.111	249.11	1.61	
660	4466.111	249.12	1.62	
661	4481.111	249.11	1.61	
662	4496.111	249.09	1.59	
663	4511.111	249.10	1.60	
664	4526.111	249.10	1.60	
665	4541.111	249.11	1.61	
666	4556.111	249.13	1.63	
667	4571.111	249.14	1.64	
668	4586.111	249.13	1.63	
669	4601.111	249.14	1.64	
670	4616.111	249.15	1.65	
671	4631.111	249.15	1.65	
672	4646.111	249.14	1.64	
673	4661.111	249.15	1.65	
674	4676.111	249.16	1.66	
675	4691.111	249.17	1.67	
676	4706.111	249.17	1.67	
677	4721.111	249.17	1.67	
678	4736.111	249.19	1.69	
679	4751.111	249.21	1.71	
680	4766.111	249.23	1.73	
681	4781.111	249.26	1.76	
682	4796.111	249.29	1.79	

	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 23
Data observed at: CM9-14		Pumping test: Test 4		
Distance from PW: 633.82 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.5 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
683	4811.111	249.32	1.82	
684	4826.111	249.35	1.85	
685	4841.111	249.38	1.88	
686	4856.111	249.41	1.91	
687	4871.111	249.42	1.92	
688	4886.111	249.45	1.95	
689	4901.111	249.46	1.96	
690	4916.111	249.46	1.96	
691	4931.111	249.46	1.96	
692	4946.111	249.46	1.96	
693	4961.111	249.46	1.96	
694	4976.111	249.44	1.94	
695	4991.111	249.43	1.93	
696	5006.111	249.41	1.91	
697	5021.111	249.39	1.89	
698	5036.111	249.38	1.88	
699	5051.111	249.36	1.86	
700	5066.111	249.36	1.86	
701	5081.111	249.36	1.86	
702	5096.111	249.35	1.85	
703	5111.111	249.33	1.83	
704	5126.111	249.31	1.81	
705	5141.111	249.29	1.79	
706	5156.111	249.28	1.78	
707	5171.111	249.24	1.74	
708	5186.111	249.23	1.73	
709	5201.111	249.20	1.70	
710	5216.111	249.18	1.68	
711	5231.111	249.17	1.67	
712	5246.111	249.17	1.67	
713	5261.111	249.17	1.67	

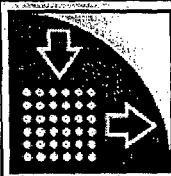
	Petrotek Engineering		Pumping Test Data Report	
	9088 S. Ridgeline Blvd., Suite 105		Project: Pumping Test #4	
	Littleton, CO 80433 USA		No:	
	303-290-9414		Client: Crow Butte Resources	Page 24
Data observed at: CM9-14		Pumping test: Test 4		
Distance from PW: 633.82 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.5 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
714	5276.111	249.17	1.67	
715	5291.111	249.19	1.69	
716	5306.111	249.28	1.78	
717	5321.111	249.36	1.86	
718	5336.111	249.47	1.97	
719	5351.111	249.48	1.98	
720	5366.111	249.49	1.99	
721	5381.111	249.49	1.99	
722	5396.111	249.48	1.98	
723	5411.111	249.46	1.96	
724	5426.111	249.42	1.92	
725	5441.111	249.38	1.88	
726	5456.111	249.29	1.79	
727	5471.111	249.25	1.75	
728	5486.111	249.21	1.71	
729	5501.111	249.15	1.65	
730	5516.111	249.12	1.62	
731	5531.111	249.05	1.55	
732	5546.111	248.91	1.41	
733	5561.111	248.97	1.47	
734	5576.111	248.89	1.39	
735	5591.111	248.87	1.37	
736	5606.111	248.84	1.34	
737	5621.111	248.78	1.28	
738	5636.111	248.71	1.21	
739	5651.111	248.71	1.21	
740	5666.111	248.59	1.09	
741	5681.111	248.62	1.12	
742	5696.111	248.63	1.13	
743	5711.111	248.60	1.10	
744	5726.111	248.52	1.02	

 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 25
Data observed at: CM9-14		Pumping test: Test 4	
Distance from PW: 633.82 [ft]		Pumping well: CPW2002	
Depth to static WL: 247.5 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
745	5741.111	248.51	1.01
746	5756.111	248.48	0.98
747	5771.111	248.44	0.94
748	5786.111	248.42	0.92
749	5801.111	248.40	0.90
750	5816.111	248.39	0.89
751	5831.111	248.38	0.88
752	5846.111	248.37	0.87
753	5861.111	248.35	0.85
754	5876.111	248.35	0.85
755	5891.111	248.34	0.84
756	5906.111	248.32	0.82
757	5921.111	248.32	0.82
758	5936.111	248.32	0.82
759	5951.111	248.32	0.82
760	5966.111	248.31	0.81
761	5981.111	248.30	0.80
762	5996.111	248.30	0.80
763	6011.111	248.30	0.80
764	6026.111	248.30	0.80
765	6041.111	248.29	0.79
766	6056.111	248.28	0.78
767	6071.111	248.26	0.76
768	6086.111	248.25	0.75
769	6101.111	248.23	0.73
770	6116.111	248.20	0.70
771	6131.111	248.18	0.68
772	6146.111	248.14	0.64
773	6161.111	248.11	0.61
774	6176.111	248.08	0.58
775	6191.111	248.05	0.55

	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 26
Data observed at: CM9-14		Pumping test: Test 4		
Distance from PW: 633.82 [ft]		Pumping well: CPW2002		
Depth to static WL: 247.5 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
776	6206.111	248.01	0.51	
777	6221.111	247.97	0.47	
778	6236.111	247.94	0.44	
779	6251.111	247.91	0.41	
780	6266.111	247.87	0.37	
781	6281.111	247.84	0.34	
782	6296.111	247.81	0.31	
783	6311.111	247.78	0.28	
784	6326.111	247.75	0.25	
785	6341.111	247.73	0.23	
786	6356.111	247.70	0.20	
787	6371.111	247.68	0.18	
788	6386.111	247.66	0.16	
789	6401.111	247.65	0.15	
790	6416.111	247.65	0.15	
791	6431.111	247.64	0.14	
792	6446.111	247.64	0.14	
793	6461.111	247.63	0.13	
794	6476.111	247.61	0.11	
795	6491.111	247.57	0.07	
796	6506.111	247.54	0.04	
797	6521.111	247.52	0.02	
798	6536.111	247.50	0.00	
799	6551.111	247.48	-0.02	
800	6566.111	247.45	-0.05	
801	6581.111	247.45	-0.05	
802	6596.111	247.43	-0.07	
803	6611.111	247.42	-0.08	
804	6626.111	247.41	-0.09	
805	6641.111	247.40	-0.10	
806	6656.111	247.38	-0.12	

 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 27
Data observed at: CM9-14		Pumping test: Test 4	
Distance from PW: 633.82 [ft]		Pumping well: CPW2002	
Depth to static WL: 247.5 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
807	6671.111	247.39	-0.11
808	6686.111	247.39	-0.11
809	6701.111	247.36	-0.14
810	6716.111	247.33	-0.17
811	6731.111	247.32	-0.18
812	6746.111	247.30	-0.20
813	6761.111	247.29	-0.21
814	6776.111	247.25	-0.25
815	6791.111	247.23	-0.27
816	6806.111	247.21	-0.29
817	6821.111	247.20	-0.30
818	6836.111	247.17	-0.33
819	6851.111	247.16	-0.34
820	6866.111	247.11	-0.39
821	6881.111	247.13	-0.37
822	6896.111	247.07	-0.43
823	6911.111	247.04	-0.46
824	6926.111	247.08	-0.42
825	6941.111	247.07	-0.43
826	6956.111	247.04	-0.46
827	6971.111	247.00	-0.50
828	6986.111	247.03	-0.47
829	7001.111	246.98	-0.52



**Petrotek Engineering**

9088 S. Ridgeline Blvd., Suite 105

Littleton, CO 80433 USA

303-290-9414

Pumping Test Data Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

Page 1

Data observed at: COW2002

Pumping test: Test 4

Distance from PW: 2331.9 [ft]

Pumping well: CPW2002

Depth to static WL: 377.2 [ft]

Screen radius: 0.1875 [ft]

Location: Crawford, NE

Screen length: 60 [ft]

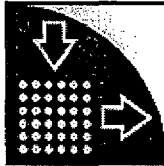
Test performed by: HPD

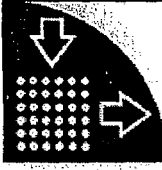
Casing radius: 0.33333333 [ft]

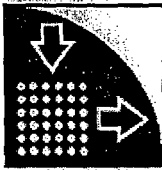
Date: 10/4/2

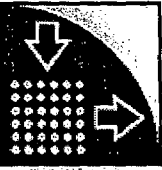
Aquifer thickness: 40 [ft]

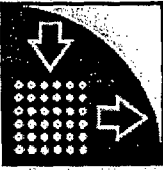
	Time [min]	Depth to WL [ft]	Drawdown [ft]
1	0	377.15	-0.05
2	0	377.20	0.00
3	0.01	377.13	-0.07
4	0.02	377.12	-0.08
5	0.02	377.12	-0.08
6	0.03	377.11	-0.09
7	0.03	377.11	-0.09
8	0.04	377.10	-0.10
9	0.04	377.10	-0.10
10	0.05	377.10	-0.10
11	0.05	377.10	-0.10
12	0.05	377.10	-0.10
13	0.06	377.10	-0.10
14	0.06	377.10	-0.10
15	0.07	377.10	-0.10
16	0.08	377.10	-0.10
17	0.08	377.10	-0.10
18	0.08	377.09	-0.11
19	0.09	377.09	-0.11
20	0.1	377.09	-0.11
21	0.1	377.10	-0.10
22	0.11	377.09	-0.11
23	0.11	377.09	-0.11
24	0.12	377.09	-0.11
25	0.13	377.09	-0.11
26	0.13	377.09	-0.11
27	0.14	377.09	-0.11
28	0.15	377.09	-0.11
29	0.16	377.09	-0.11
30	0.17	377.12	-0.08
31	0.18	377.13	-0.07

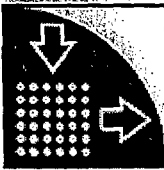
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 2
Data observed at: COW2002		Pumping test: Test 4		
Distance from PW: 2331.9 [ft]		Pumping well: CPW2002		
Depth to static WL: 377.2 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
32	0.19	377.14	-0.06	
33	0.2	377.14	-0.06	
34	0.21	377.14	-0.06	
35	0.22	377.15	-0.05	
36	0.24	377.15	-0.05	
37	0.25	377.15	-0.05	
38	0.26	377.15	-0.05	
39	0.28	377.16	-0.04	
40	0.3	377.16	-0.04	
41	0.31	377.16	-0.04	
42	0.33	377.17	-0.03	
43	0.35	377.17	-0.03	
44	0.37	377.17	-0.03	
45	0.4	377.17	-0.03	
46	0.42	377.17	-0.03	
47	0.44	377.17	-0.03	
48	0.47	377.17	-0.03	
49	0.5	377.18	-0.02	
50	0.52	377.18	-0.02	
51	0.55	377.18	-0.02	
52	0.59	377.18	-0.02	
53	0.62	377.18	-0.02	
54	0.66	377.18	-0.02	
55	0.7	377.18	-0.02	
56	0.74	377.18	-0.02	
57	0.78	377.18	-0.02	
58	0.83	377.19	-0.01	
59	0.88	377.19	-0.01	
60	0.93	377.18	-0.02	
61	0.98	377.18	-0.02	
62	1.04	377.18	-0.02	

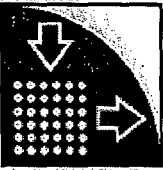
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 3
Data observed at: COW2002		Pumping test: Test 4	
Distance from PW: 2331.9 [ft]		Pumping well: CPW2002	
Depth to static WL: 377.2 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
63	1.1	377.18	-0.02
64	1.17	377.19	-0.01
65	1.24	377.18	-0.02
66	1.31	377.19	-0.01
67	1.39	377.18	-0.02
68	1.47	377.19	-0.01
69	1.56	377.19	-0.01
70	1.65	377.19	-0.01
71	1.75	377.19	-0.01
72	1.86	377.18	-0.02
73	1.97	377.19	-0.01
74	2.08	377.18	-0.02
75	2.21	377.18	-0.02
76	2.34	377.19	-0.01
77	2.48	377.18	-0.02
78	2.63	377.18	-0.02
79	2.79	377.18	-0.02
80	2.95	377.19	-0.01
81	3.13	377.19	-0.01
82	3.32	377.19	-0.01
83	3.51	377.19	-0.01
84	3.72	377.18	-0.02
85	3.95	377.19	-0.01
86	4.18	377.19	-0.01
87	4.43	377.19	-0.01
88	4.69	377.19	-0.01
89	4.97	377.19	-0.01
90	5.27	377.19	-0.01
91	5.58	377.19	-0.01
92	5.91	377.18	-0.02
93	6.27	377.19	-0.01

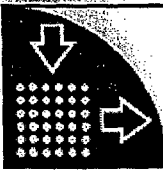
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 4
Data observed at: COW2002		Pumping test: Test 4	
Distance from PW: 2331.9 [ft]		Pumping well: CPW2002	
Depth to static WL: 377.2 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
94	6.64	377.19	-0.01
95	7.03	377.19	-0.01
96	7.45	377.19	-0.01
97	7.9	377.19	-0.01
98	8.37	377.19	-0.01
99	8.86	377.19	-0.01
100	9.39	377.19	-0.01
101	9.95	377.19	-0.01
102	10.54	377.19	-0.01
103	11.17	377.19	-0.01
104	11.83	377.19	-0.01
105	12.53	377.19	-0.01
106	13.28	377.19	-0.01
107	14.07	377.19	-0.01
108	14.91	377.19	-0.01
109	15.79	377.19	-0.01
110	16.73	377.20	0.00
111	17.72	377.20	0.00
112	18.78	377.19	-0.01
113	19.89	377.19	-0.01
114	21.07	377.19	-0.01
115	22.32	377.19	-0.01
116	23.65	377.19	-0.01
117	25.05	377.19	-0.01
118	26.54	377.20	0.00
119	28.12	377.20	0.00
120	29.79	377.20	0.00
121	31.55	377.20	0.00
122	33.43	377.19	-0.01
123	35.41	377.19	-0.01
124	37.51	377.20	0.00

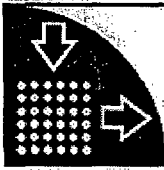
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 5
Data observed at: COW2002		Pumping test: Test 4	
Distance from PW: 2331.9 [ft]		Pumping well: CPW2002	
Depth to static WL: 377.2 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
125	39.74	377.20	0.00
126	42.1	377.19	-0.01
127	44.6	377.20	0.00
128	47.24	377.20	0.00
129	50.05	377.20	0.00
130	53.01	377.20	0.00
131	56.16	377.20	0.00
132	59.49	377.20	0.00
133	63.02	377.21	0.01
134	66.76	377.21	0.01
135	70.72	377.22	0.02
136	74.91	377.22	0.02
137	79.35	377.23	0.03
138	84.06	377.23	0.03
139	89.05	377.24	0.04
140	94.33	377.25	0.05
141	99.92	377.25	0.06
142	105.84	377.26	0.06
143	112.12	377.27	0.07
144	118.77	377.29	0.09
145	125.81	377.30	0.10
146	133.27	377.32	0.12
147	141.17	377.33	0.13
148	149.54	377.34	0.14
149	158.4	377.36	0.16
150	167.79	377.38	0.18
151	177.74	377.40	0.20
152	188.27	377.42	0.22
153	199.43	377.44	0.24
154	211.26	377.46	0.26
155	223.78	377.49	0.29

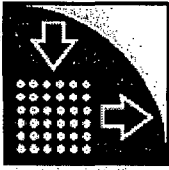
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 6
Data observed at: COW2002			Pumping test: Test 4	
Distance from PW: 2331.9 [ft]			Pumping well: CPW2002	
Depth to static WL: 377.2 [ft]			Screen radius: 0.1875 [ft]	
Location: Crawford, NE			Screen length: 60 [ft]	
Test performed by: HPD			Casing radius: 0.33333333 [ft]	
Date: 10/4/2			Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
156	237.04	377.51	0.31	
157	251.09	377.54	0.34	
158	265.93	377.57	0.37	
159	280.98	377.60	0.40	
160	295.98	377.63	0.44	
161	310.98	377.66	0.46	
162	325.98	377.70	0.50	
163	340.98	377.72	0.52	
164	355.98	377.75	0.55	
165	370.98	377.78	0.58	
166	385.98	377.80	0.60	
167	400.98	377.82	0.62	
168	415.98	377.85	0.65	
169	430.98	377.87	0.67	
170	445.98	377.89	0.69	
171	460.98	377.91	0.71	
172	475.98	377.94	0.74	
173	490.98	377.95	0.75	
174	505.98	377.97	0.77	
175	520.98	377.99	0.79	
176	535.98	378.02	0.82	
177	550.98	378.03	0.83	
178	565.98	378.05	0.85	
179	580.98	378.06	0.86	
180	595.98	378.09	0.89	
181	610.98	378.10	0.90	
182	625.98	378.11	0.91	
183	640.98	378.13	0.93	
184	655.98	378.15	0.95	
185	670.98	378.17	0.97	
186	685.98	378.18	0.98	

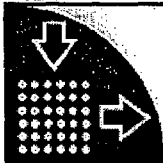
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 7
Data observed at: COW2002		Pumping test: Test 4	
Distance from PW: 2331.9 [ft]		Pumping well: CPW2002	
Depth to static WL: 377.2 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
187	700.98	378.19	0.99
188	715.98	378.19	1.00
189	730.98	378.22	1.02
190	745.98	378.23	1.03
191	760.98	378.24	1.04
192	775.98	378.26	1.06
193	790.98	378.28	1.08
194	805.98	378.29	1.09
195	820.98	378.30	1.10
196	835.98	378.31	1.12
197	850.98	378.34	1.14
198	865.98	378.35	1.15
199	880.98	378.37	1.17
200	895.98	378.38	1.18
201	910.98	378.39	1.19
202	925.98	378.41	1.21
203	940.98	378.42	1.22
204	955.98	378.43	1.23
205	970.98	378.45	1.25
206	985.98	378.46	1.26
207	1000.98	378.47	1.27
208	1015.98	378.48	1.28
209	1030.98	378.50	1.30
210	1045.98	378.51	1.31
211	1060.98	378.52	1.32
212	1075.98	378.53	1.33
213	1090.98	378.55	1.35
214	1105.98	378.55	1.35
215	1120.98	378.56	1.37
216	1135.98	378.57	1.37
217	1150.98	378.58	1.38

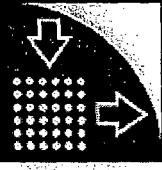
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 8
Data observed at: COW2002		Pumping test: Test 4	
Distance from PW: 2331.9 [ft]		Pumping well: CPW2002	
Depth to static WL: 377.2 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
218	1165.98	378.59	1.39
219	1180.98	378.60	1.40
220	1195.98	378.61	1.41
221	1210.98	378.62	1.42
222	1225.98	378.62	1.42
223	1240.98	378.63	1.43
224	1255.98	378.64	1.44
225	1270.98	378.65	1.45
226	1285.98	378.65	1.45
227	1300.98	378.66	1.46
228	1315.98	378.67	1.47
229	1330.98	378.68	1.48
230	1345.98	378.69	1.49
231	1360.98	378.69	1.49
232	1375.98	378.69	1.49
233	1390.98	378.70	1.50
234	1405.98	378.71	1.51
235	1420.98	378.71	1.51
236	1435.98	378.71	1.51
237	1450.98	378.71	1.51
238	1465.98	378.71	1.51
239	1480.98	378.72	1.52
240	1495.98	378.72	1.52
241	1510.98	378.72	1.52
242	1525.98	378.73	1.53
243	1540.98	378.73	1.53
244	1555.98	378.74	1.54
245	1570.98	378.74	1.54
246	1585.98	378.74	1.54
247	1600.98	378.75	1.55
248	1615.98	378.75	1.55

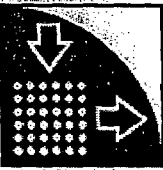
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 9
Data observed at: COW2002			Pumping test: Test 4	
Distance from PW: 2331.9 [ft]			Pumping well: CPW2002	
Depth to static WL: 377.2 [ft]			Screen radius: 0.1875 [ft]	
Location: Crawford, NE			Screen length: 60 [ft]	
Test performed by: HPD			Casing radius: 0.33333333 [ft]	
Date: 10/4/2			Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
249	1630.98	378.76	1.56	
250	1645.98	378.77	1.57	
251	1660.98	378.78	1.58	
252	1675.98	378.79	1.59	
253	1690.98	378.80	1.60	
254	1705.98	378.81	1.61	
255	1720.98	378.82	1.62	
256	1735.98	378.83	1.63	
257	1750.98	378.85	1.65	
258	1765.98	378.86	1.66	
259	1780.98	378.87	1.67	
260	1795.98	378.88	1.68	
261	1810.98	378.89	1.69	
262	1825.98	378.89	1.69	
263	1840.98	378.90	1.70	
264	1855.98	378.90	1.70	
265	1870.98	378.91	1.71	
266	1885.98	378.91	1.71	
267	1900.98	378.91	1.71	
268	1915.98	378.91	1.71	
269	1930.98	378.92	1.72	
270	1945.98	378.92	1.72	
271	1960.98	378.93	1.73	
272	1975.98	378.93	1.73	
273	1990.98	378.93	1.73	
274	2005.98	378.93	1.73	
275	2020.98	378.94	1.74	
276	2035.98	378.94	1.74	
277	2050.98	378.94	1.74	
278	2065.98	378.94	1.74	
279	2080.98	378.94	1.74	

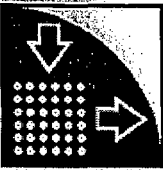
	Petrotek Engineering		Pumping Test Data Report	
	9088 S. Ridgeline Blvd., Suite 105		Project: Pumping Test #4	
	Littleton, CO 80433 USA		No:	
	303-290-9414		Client: Crow Butte Resources	Page 10
Data observed at: COW2002		Pumping test: Test 4		
Distance from PW: 2331.9 [ft]		Pumping well: CPW2002		
Depth to static WL: 377.2 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
280	2095.98	378.94	1.74	
281	2110.98	378.94	1.75	
282	2125.98	378.95	1.75	
283	2140.98	378.95	1.75	
284	2155.98	378.95	1.75	
285	2170.98	378.95	1.75	
286	2185.98	378.95	1.75	
287	2200.98	378.95	1.75	
288	2215.98	378.95	1.75	
289	2230.98	378.96	1.76	
290	2245.98	378.96	1.76	
291	2260.98	378.97	1.77	
292	2275.98	378.97	1.77	
293	2290.98	378.98	1.78	
294	2305.98	378.99	1.79	
295	2320.98	378.99	1.79	
296	2335.98	379.00	1.80	
297	2350.98	379.01	1.81	
298	2365.98	379.01	1.81	
299	2380.98	379.02	1.82	
300	2395.98	379.03	1.83	
301	2410.98	379.04	1.84	
302	2425.98	379.04	1.84	
303	2440.98	379.05	1.85	
304	2455.98	379.06	1.86	
305	2470.98	379.07	1.87	
306	2485.98	379.08	1.88	
307	2500.98	379.09	1.89	
308	2515.98	379.10	1.90	
309	2530.98	379.10	1.90	
310	2545.98	379.11	1.91	

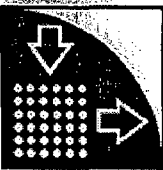
	Petrotek Engineering		Pumping Test Data Report	
	9088 S. Ridgeline Blvd., Suite 105		Project: Pumping Test #4	
	Littleton, CO 80433 USA		No:	
	303-290-9414		Client: Crow Butte Resources	Page 11
Data observed at: COW2002		Pumping test: Test 4		
Distance from PW: 2331.9 [ft]		Pumping well: CPW2002		
Depth to static WL: 377.2 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
311	2560.98	379.12	1.92	
312	2575.98	379.13	1.93	
313	2590.98	379.13	1.93	
314	2605.98	379.14	1.94	
315	2620.98	379.14	1.94	
316	2635.98	379.14	1.94	
317	2650.98	379.15	1.95	
318	2665.98	379.15	1.95	
319	2680.98	379.16	1.96	
320	2695.98	379.16	1.96	
321	2710.98	379.17	1.97	
322	2725.98	379.17	1.97	
323	2740.98	379.18	1.98	
324	2755.98	379.18	1.98	
325	2770.98	379.18	1.98	
326	2785.98	379.18	1.98	
327	2800.98	379.19	1.99	
328	2815.98	379.19	1.99	
329	2830.98	379.19	2.00	
330	2845.98	379.20	2.00	
331	2860.98	379.20	2.00	
332	2875.98	379.20	2.00	
333	2890.98	379.21	2.01	
334	2905.98	379.21	2.01	
335	2920.98	379.21	2.01	
336	2935.98	379.22	2.02	
337	2950.98	379.22	2.02	
338	2965.98	379.23	2.03	
339	2980.98	379.24	2.04	
340	2995.98	379.24	2.04	
341	3010.98	379.25	2.05	

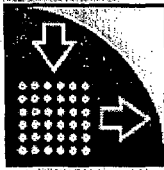
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 12
Data observed at: COW2002			Pumping test: Test 4	
Distance from PW: 2331.9 [ft]			Pumping well: CPW2002	
Depth to static WL: 377.2 [ft]			Screen radius: 0.1875 [ft]	
Location: Crawford, NE			Screen length: 60 [ft]	
Test performed by: HPD			Casing radius: 0.33333333 [ft]	
Date: 10/4/2			Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
342	3025.98	379.25	2.05	
343	3040.98	379.25	2.06	
344	3055.98	379.27	2.07	
345	3070.98	379.28	2.08	
346	3085.98	379.29	2.09	
347	3100.98	379.30	2.10	
348	3115.98	379.31	2.12	
349	3130.98	379.32	2.12	
350	3145.98	379.33	2.13	
351	3160.98	379.34	2.14	
352	3175.98	379.34	2.14	
353	3190.98	379.35	2.15	
354	3205.98	379.36	2.16	
355	3220.98	379.37	2.17	
356	3235.98	379.38	2.18	
357	3250.98	379.38	2.19	
358	3265.98	379.39	2.19	
359	3280.98	379.40	2.20	
360	3295.98	379.41	2.21	
361	3310.98	379.42	2.22	
362	3325.98	379.43	2.23	
363	3340.98	379.43	2.23	
364	3355.98	379.44	2.24	
365	3370.98	379.44	2.25	
366	3385.98	379.45	2.25	
367	3400.98	379.46	2.26	
368	3415.98	379.46	2.26	
369	3430.98	379.47	2.27	
370	3445.98	379.47	2.27	
371	3460.98	379.47	2.27	
372	3475.98	379.48	2.28	

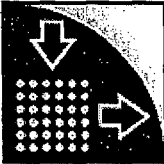
 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 13
Data observed at: COW2002		Pumping test: Test 4	
Distance from PW: 2331.9 [ft]		Pumping well: CPW2002	
Depth to static WL: 377.2 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
373	3490.98	379.48	2.28
374	3505.98	379.48	2.28
375	3520.98	379.49	2.29
376	3535.98	379.49	2.29
377	3550.98	379.49	2.29
378	3565.98	379.50	2.30
379	3580.98	379.50	2.31
380	3595.98	379.51	2.31
381	3610.98	379.51	2.31
382	3625.98	379.52	2.32
383	3640.98	379.53	2.33
384	3655.98	379.54	2.34
385	3670.98	379.54	2.34
386	3685.98	379.55	2.35
387	3700.98	379.56	2.36
388	3715.98	379.56	2.36
389	3730.98	379.58	2.38
390	3745.98	379.58	2.38
391	3760.98	379.59	2.39
392	3775.98	379.60	2.40
393	3790.98	379.61	2.41
394	3805.98	379.62	2.42
395	3820.98	379.63	2.43
396	3835.98	379.64	2.44
397	3850.98	379.65	2.45
398	3870	379.47	2.27
399	3885	379.48	2.28
400	3900	379.49	2.29
401	3915	379.50	2.30
402	3930	379.50	2.30
403	3945	379.50	2.30

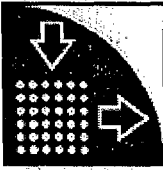
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 14
Data observed at: COW2002		Pumping test: Test 4		
Distance from PW: 2331.9 [ft]		Pumping well: CPW2002		
Depth to static WL: 377.2 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
404	3960	379.49	2.29	
405	3975	379.48	2.28	
406	3990	379.47	2.27	
407	4005	379.45	2.25	
408	4020	379.43	2.23	
409	4035	379.41	2.21	
410	4050	379.38	2.18	
411	4065	379.37	2.17	
412	4080	379.34	2.14	
413	4095	379.32	2.12	
414	4110	379.30	2.10	
415	4125	379.28	2.08	
416	4140	379.26	2.06	
417	4155	379.24	2.04	
418	4170	379.22	2.02	
419	4185	379.20	2.00	
420	4200	379.18	1.98	
421	4215	379.16	1.96	
422	4230	379.13	1.93	
423	4245	379.11	1.91	
424	4260	379.09	1.89	
425	4275	379.07	1.87	
426	4290	379.05	1.85	
427	4305	379.04	1.84	
428	4320	379.02	1.82	
429	4335	379.00	1.80	
430	4350	378.98	1.78	
431	4365	378.96	1.76	
432	4380	378.94	1.74	
433	4395	378.92	1.72	
434	4410	378.91	1.71	

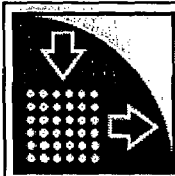
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 15
Data observed at: COW2002		Pumping test: Test 4		
Distance from PW: 2331.9 [ft]		Pumping well: CPW2002		
Depth to static WL: 377.2 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
435	4425	378.89	1.69	
436	4440	378.88	1.68	
437	4455	378.88	1.68	
438	4470	378.87	1.67	
439	4485	378.84	1.64	
440	4500	378.83	1.63	
441	4515	378.81	1.61	
442	4530	378.80	1.60	
443	4545	378.78	1.58	
444	4560	378.77	1.57	
445	4575	378.76	1.56	
446	4590	378.74	1.54	
447	4605	378.73	1.53	
448	4620	378.72	1.52	
449	4635	378.71	1.51	
450	4650	378.70	1.50	
451	4665	378.70	1.50	
452	4680	378.69	1.49	
453	4695	378.68	1.48	
454	4710	378.68	1.48	
455	4725	378.67	1.47	
456	4740	378.66	1.46	
457	4755	378.65	1.45	
458	4770	378.64	1.44	
459	4785	378.64	1.44	
460	4800	378.63	1.43	
461	4815	378.62	1.42	
462	4830	378.61	1.41	
463	4845	378.61	1.41	
464	4860	378.61	1.41	
465	4875	378.61	1.41	

	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 16
Data observed at: COW2002		Pumping test: Test 4		
Distance from PW: 2331.9 [ft]		Pumping well: CPW2002		
Depth to static WL: 377.2 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
466	4890	378.59	1.39	
467	4905	378.60	1.40	
468	4920	378.59	1.39	
469	4935	378.59	1.39	
470	4950	378.58	1.38	
471	4965	378.58	1.38	
472	4980	378.58	1.38	
473	4995	378.58	1.38	
474	5010	378.57	1.37	
475	5025	378.57	1.37	
476	5040	378.57	1.37	
477	5055	378.56	1.36	
478	5070	378.56	1.36	
479	5085	378.56	1.36	
480	5100	378.56	1.36	
481	5115	378.56	1.36	
482	5130	378.56	1.36	
483	5145	378.56	1.36	
484	5160	378.55	1.35	
485	5175	378.55	1.35	
486	5190	378.55	1.35	
487	5205	378.55	1.35	
488	5220	378.55	1.35	
489	5235	378.55	1.35	
490	5250	378.55	1.35	
491	5265	378.55	1.35	
492	5280	378.55	1.35	
493	5295	378.55	1.35	
494	5310	378.54	1.34	
495	5325	378.54	1.34	
496	5340	378.54	1.34	

	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 17
Data observed at: COW2002		Pumping test: Test 4		
Distance from PW: 2331.9 [ft]		Pumping well: CPW2002		
Depth to static WL: 377.2 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
497	5355	378.54	1.34	
498	5370	378.54	1.34	
499	5385	378.54	1.34	
500	5400	378.55	1.35	
501	5415	378.55	1.35	
502	5430	378.55	1.35	
503	5445	378.56	1.36	
504	5460	378.56	1.36	
505	5475	378.56	1.36	
506	5490	378.56	1.36	
507	5505	378.56	1.36	
508	5520	378.56	1.36	
509	5535	378.56	1.36	
510	5550	378.56	1.36	
511	5565	378.56	1.36	
512	5580	378.55	1.35	
513	5595	378.55	1.35	
514	5610	378.54	1.34	
515	5625	378.54	1.34	
516	5640	378.53	1.33	
517	5655	378.52	1.32	
518	5670	378.51	1.31	
519	5685	378.51	1.31	
520	5700	378.50	1.30	
521	5715	378.49	1.29	
522	5730	378.48	1.28	
523	5745	378.47	1.27	
524	5760	378.46	1.26	
525	5775	378.45	1.25	
526	5790	378.44	1.24	
527	5805	378.43	1.23	

 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 18
Data observed at: COW2002		Pumping test: Test 4	
Distance from PW: 2331.9 [ft]		Pumping well: CPW2002	
Depth to static WL: 377.2 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
528	5820	378.43	1.23
529	5835	378.42	1.22
530	5850	378.40	1.20
531	5865	378.40	1.20
532	5880	378.41	1.21
533	5895	378.38	1.18
534	5910	378.37	1.17
535	5925	378.37	1.17
536	5940	378.37	1.17
537	5955	378.36	1.16
538	5970	378.35	1.15
539	5985	378.35	1.15
540	6000	378.34	1.14
541	6015	378.34	1.14
542	6030	378.33	1.13
543	6045	378.32	1.12
544	6060	378.32	1.12
545	6075	378.31	1.11
546	6090	378.31	1.11
547	6105	378.31	1.11
548	6120	378.31	1.11
549	6135	378.31	1.11
550	6150	378.31	1.11
551	6165	378.31	1.11
552	6180	378.32	1.12
553	6195	378.31	1.11
554	6210	378.31	1.11
555	6225	378.30	1.10
556	6240	378.30	1.10
557	6255	378.29	1.09
558	6270	378.27	1.07

	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 19
Data observed at: COW2002		Pumping test: Test 4		
Distance from PW: 2331.9 [ft]		Pumping well: CPW2002		
Depth to static WL: 377.2 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
559	6285	378.26	1.06	
560	6300	378.26	1.06	
561	6315	378.25	1.05	
562	6330	378.22	1.02	
563	6345	378.22	1.02	
564	6360	378.20	1.00	
565	6375	378.19	0.99	
566	6390	378.18	0.98	
567	6405	378.16	0.96	
568	6420	378.17	0.97	
569	6435	378.17	0.97	
570	6450	378.17	0.97	
571	6465	378.16	0.96	
572	6480	378.14	0.94	
573	6495	378.12	0.92	
574	6510	378.10	0.90	
575	6525	378.09	0.89	
576	6540	378.07	0.87	
577	6555	378.07	0.87	
578	6570	378.07	0.87	
579	6585	378.05	0.85	
580	6600	378.05	0.85	
581	6615	378.04	0.84	
582	6630	378.03	0.83	
583	6645	378.03	0.83	
584	6660	378.04	0.84	
585	6675	378.04	0.84	
586	6690	378.04	0.84	
587	6705	378.03	0.83	
588	6720	378.02	0.82	
589	6735	378.01	0.81	

**Petrotek Engineering**

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Pumping Test Data Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

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Data observed at: COW2002

Pumping test: Test 4

Distance from PW: 2331.9 [ft]

Pumping well: CPW2002

Depth to static WL: 377.2 [ft]

Screen radius: 0.1875 [ft]

Location: Crawford, NE

Screen length: 60 [ft]

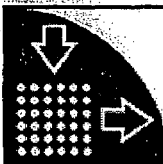
Test performed by: HPD

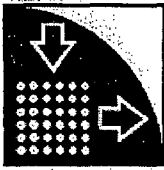
Casing radius: 0.33333333 [ft]

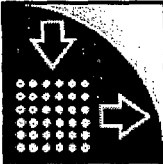
Date: 10/4/2

Aquifer thickness: 40 [ft]

	Time [min]	Depth to WL [ft]	Drawdown [ft]
590	6750	378.00	0.80
591	6765	377.99	0.79
592	6780	377.98	0.78
593	6795	377.97	0.77
594	6810	377.97	0.77
595	6825	377.97	0.77
596	6840	377.97	0.77
597	6855	377.97	0.77
598	6870	377.96	0.76
599	6885	377.96	0.76
600	6900	377.96	0.76
601	6915	377.95	0.75
602	6930	377.95	0.75
603	6945	377.94	0.74
604	6960	377.93	0.73
605	6975	377.93	0.73
606	6990	377.92	0.72
607	7005	377.91	0.71
608	7020	377.90	0.70
609	7035	377.88	0.68
610	7050	377.87	0.67
611	7065	377.86	0.66
612	7080	377.84	0.64
613	7095	377.84	0.64
614	7110	377.84	0.64
615	7125	377.83	0.63
616	7140	377.82	0.62
617	7155	377.81	0.61
618	7170	377.80	0.60
619	7185	377.79	0.59
620	7200	377.78	0.58

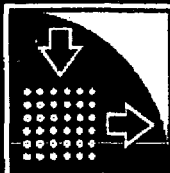
	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 21
Data observed at: COW2002		Pumping test: Test 4		
Distance from PW: 2331.9 [ft]		Pumping well: CPW2002		
Depth to static WL: 377.2 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
621	7215	377.77	0.57	
622	7230	377.76	0.56	
623	7245	377.75	0.55	
624	7260	377.74	0.54	
625	7275	377.74	0.54	
626	7290	377.73	0.53	
627	7305	377.73	0.53	
628	7320	377.72	0.52	
629	7335	377.71	0.51	
630	7350	377.70	0.50	
631	7365	377.70	0.50	
632	7380	377.69	0.49	
633	7395	377.69	0.49	
634	7410	377.69	0.49	
635	7425	377.68	0.48	
636	7440	377.68	0.48	
637	7455	377.68	0.48	
638	7470	377.68	0.48	
639	7485	377.67	0.47	
640	7500	377.67	0.47	
641	7515	377.67	0.47	
642	7530	377.67	0.47	
643	7545	377.67	0.47	
644	7560	377.67	0.47	
645	7575	377.66	0.46	
646	7590	377.65	0.45	
647	7605	377.64	0.44	
648	7620	377.63	0.43	
649	7635	377.62	0.42	
650	7650	377.62	0.42	
651	7665	377.61	0.41	

 Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
		Project: Pumping Test #4	
		No:	
		Client: Crow Butte Resources	Page 22
Data observed at: COW2002		Pumping test: Test 4	
Distance from PW: 2331.9 [ft]		Pumping well: CPW2002	
Depth to static WL: 377.2 [ft]		Screen radius: 0.1875 [ft]	
Location: Crawford, NE		Screen length: 60 [ft]	
Test performed by: HPD		Casing radius: 0.33333333 [ft]	
Date: 10/4/2		Aquifer thickness: 40 [ft]	
	Time [min]	Depth to WL [ft]	Drawdown [ft]
652	7680	377.60	0.40
653	7695	377.59	0.39
654	7710	377.58	0.38
655	7725	377.57	0.37
656	7740	377.56	0.36
657	7755	377.55	0.35
658	7770	377.54	0.34
659	7785	377.52	0.32
660	7800	377.51	0.31
661	7815	377.50	0.30
662	7830	377.48	0.28
663	7845	377.47	0.27
664	7860	377.46	0.26
665	7875	377.45	0.25
666	7890	377.43	0.23
667	7905	377.43	0.23
668	7920	377.41	0.21
669	7935	377.40	0.20
670	7950	377.39	0.19
671	7965	377.38	0.18
672	7980	377.37	0.17
673	7995	377.35	0.15
674	8010	377.34	0.14
675	8025	377.33	0.13
676	8040	377.32	0.12
677	8055	377.31	0.11
678	8070	377.30	0.10
679	8085	377.29	0.09
680	8100	377.28	0.08
681	8115	377.27	0.07
682	8130	377.26	0.06

	Petrotek Engineering 9088 S. Ridgeline Blvd., Suite 105 Littleton, CO 80433 USA 303-290-9414		Pumping Test Data Report	
			Project: Pumping Test #4	
			No:	
			Client: Crow Butte Resources	Page 23
Data observed at: COW2002		Pumping test: Test 4		
Distance from PW: 2331.9 [ft]		Pumping well: CPW2002		
Depth to static WL: 377.2 [ft]		Screen radius: 0.1875 [ft]		
Location: Crawford, NE		Screen length: 60 [ft]		
Test performed by: HPD		Casing radius: 0.33333333 [ft]		
Date: 10/4/2		Aquifer thickness: 40 [ft]		
	Time [min]	Depth to WL [ft]	Drawdown [ft]	
683	8145	377.25	0.05	
684	8160	377.24	0.04	
685	8175	377.23	0.03	
686	8190	377.22	0.02	
687	8205	377.21	0.01	
688	8220	377.21	0.01	
689	8235	377.20	0.00	
690	8250	377.19	-0.01	
691	8265	377.18	-0.02	
692	8280	377.17	-0.03	
693	8295	377.16	-0.04	
694	8310	377.15	-0.05	
695	8325	377.15	-0.05	
696	8340	377.14	-0.06	
697	8355	377.13	-0.07	
698	8370	377.11	-0.09	
699	8385	377.11	-0.09	
700	8400	377.10	-0.10	
701	8415	377.09	-0.11	
702	8430	377.08	-0.12	
703	8445	377.07	-0.13	
704	8460	377.06	-0.14	
705	8475	377.05	-0.15	
706	8490	377.04	-0.16	
707	8505	377.03	-0.17	
708	8520	377.02	-0.18	

Appendix D

Chadron Formation Test Analyses

**Petrotek Engineering**

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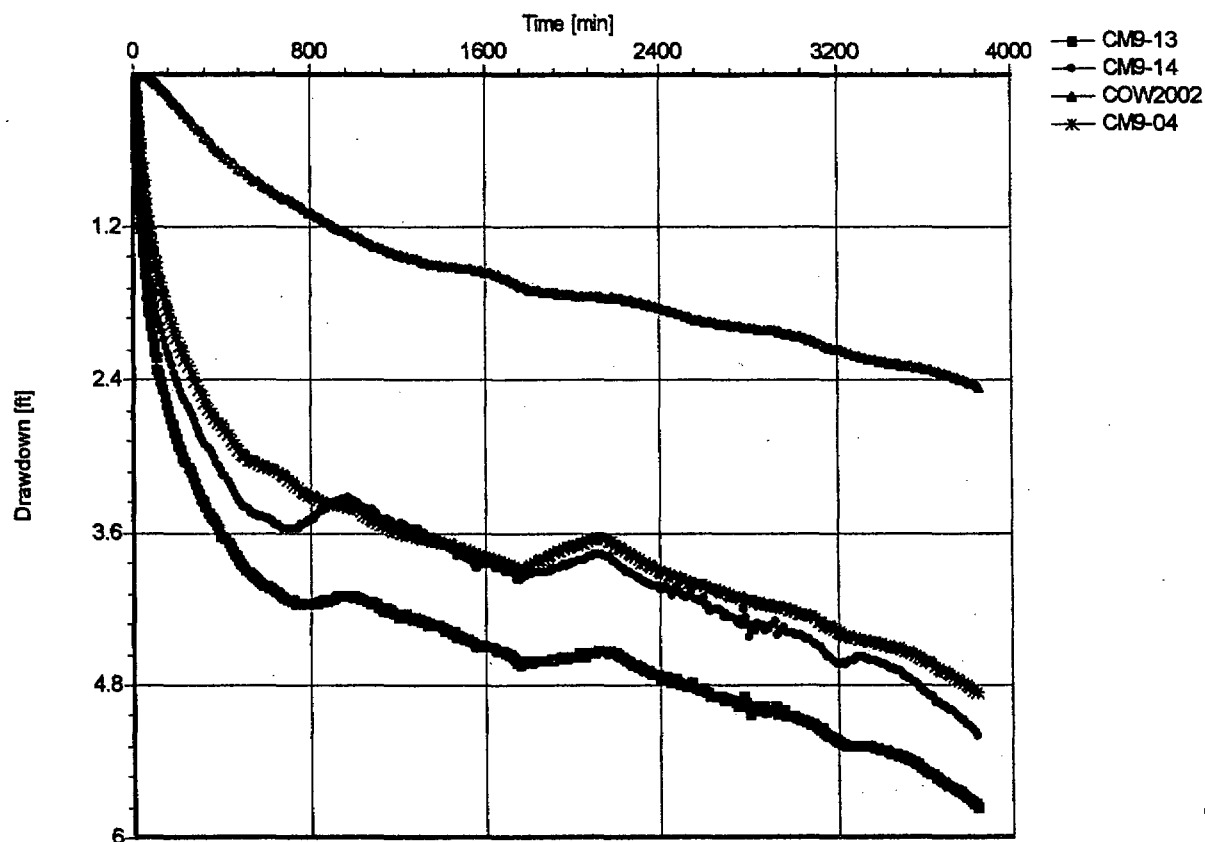
303-290-9414

Pumping Test Analysis Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

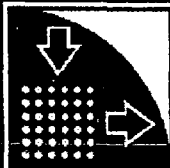
Test 4 (Drawdown vs. Time) - Chadron Observation WellsTest name: Test 4Analysis method: Drawdown vs. TimeAnalysis results:

<u>Test parameters:</u>	Pumping well:	CPW2002	Aquifer thickness:	40 [ft]
	Screen radius:	0.1875 [ft]		
	Screen length:	60 [ft]		
	Casing radius:	0.33333333 [ft]		
	Discharge rate:	50.2 [U.S. gal/min]		

Comments: Pumping Period = 3870 minutes

Evaluated by: HPD

Date: 10/4/2002

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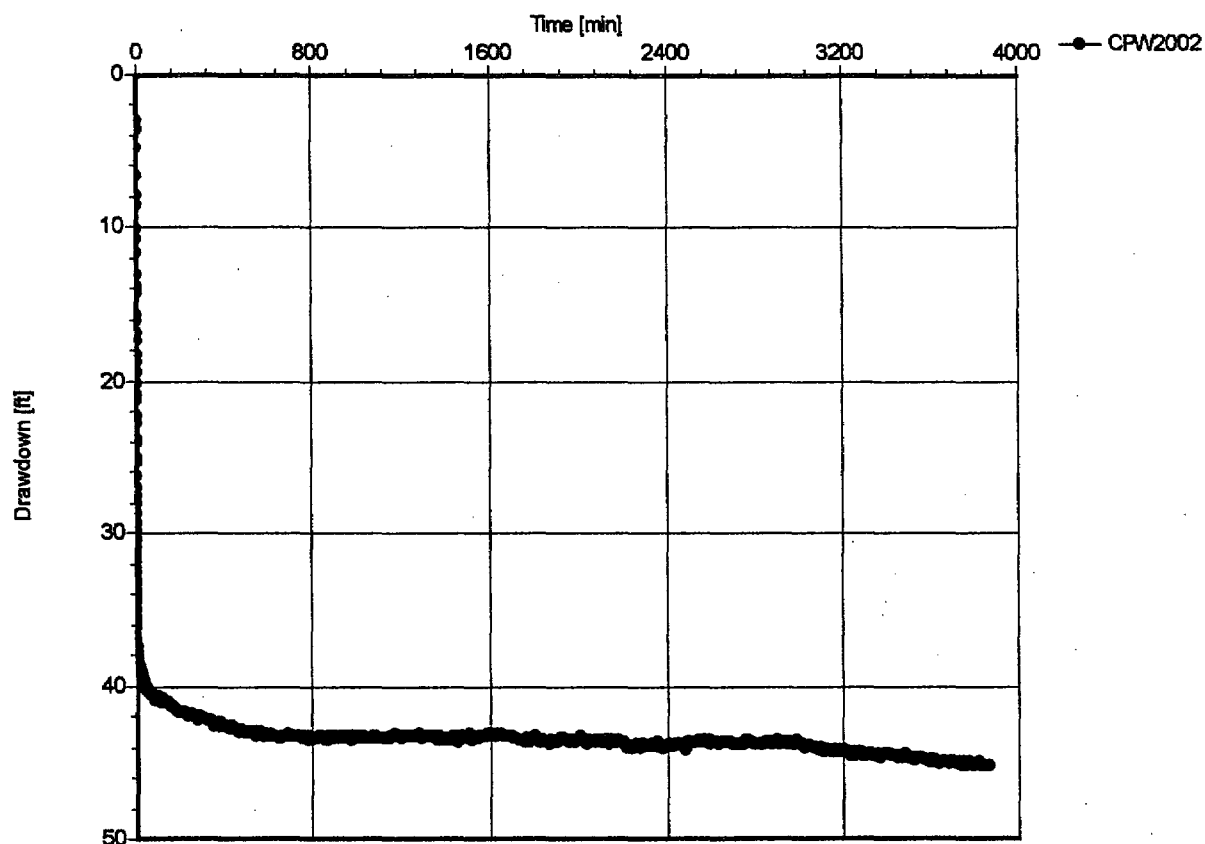
Pumping Test Analysis Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

Test 4 (Draw down vs. Time) - Pumping Well

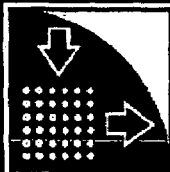
Test name: Test 4Analysis method: Drawdown vs. TimeAnalysis results:

<u>Test parameters:</u>	Pumping well:	CPW2002	Aquifer thickness:	40 [ft]
	Screen radius:	0.1875 [ft]		
	Screen length:	60 [ft]		
	Casing radius:	0.33333333 [ft]		
	Discharge rate:	50.2 [U.S. gal/min]		

Comments: Pumping Period = 3870 minutes

Evaluated by: HPD

Date: 10/4/2002

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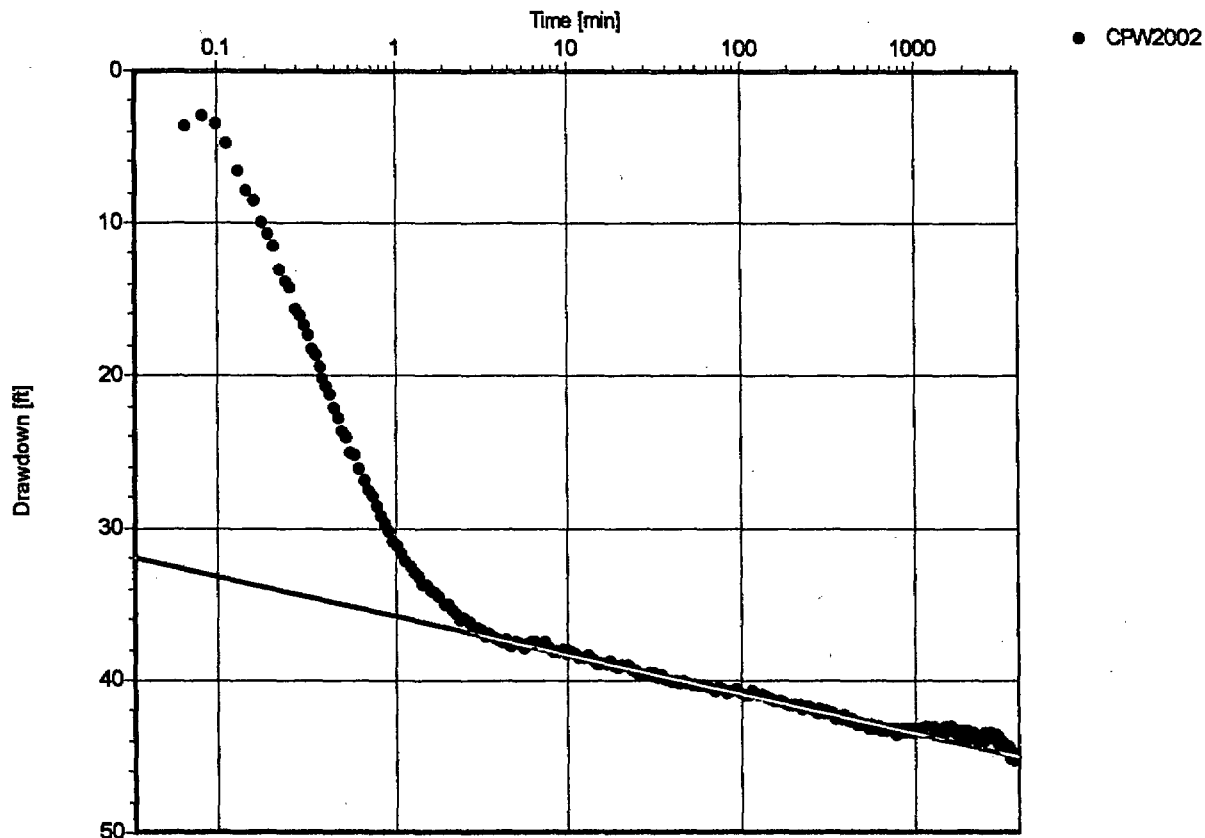
303-290-9414

Pumping Test Analysis Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

Test 4 (Cooper-Jacob Time-Drawdown) - CPW2002Test name: Test 4Analysis method: Cooper-Jacob Time-Drawdown

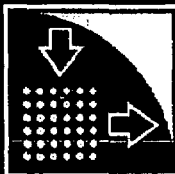
Analysis results: Transmissivity: 6.88E+2 [ft²/d] Conductivity: 1.72E+1 [ft/d]

Test parameters: Pumping well: CPW2002 Aquifer thickness: 40 [ft]
 Screen radius: 0.1875 [ft] Confined aquifer
 Screen length: 60 [ft]
 Casing radius: 0.33333333 [ft]
 Discharge rate: 50.2 [U.S. gal/min]

Comments:

Evaluated by: HPD

Date: 10/4/2002

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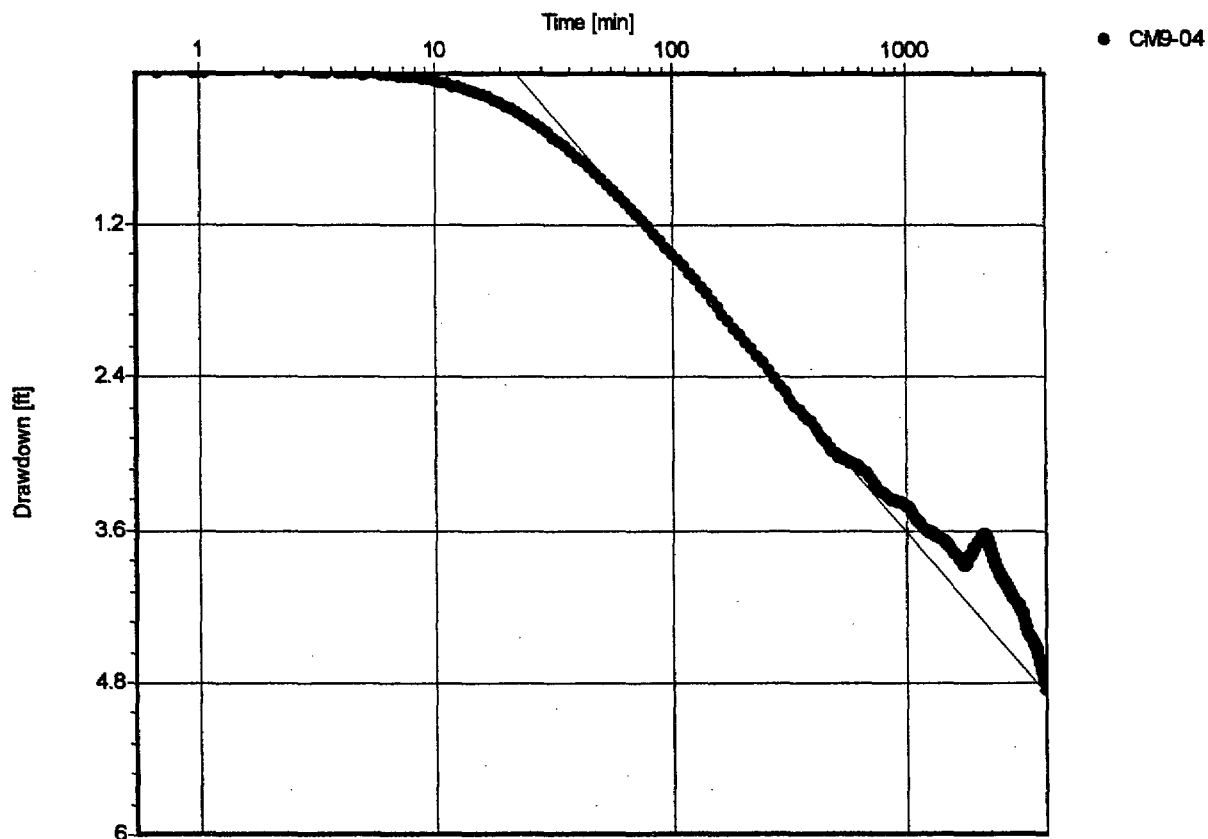
303-290-9414

Pumping Test Analysis Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

Test 4 (Cooper-Jacob Time-Drawdown) - CM9-04Test name: Test 4Analysis method: Cooper-Jacob Time-Drawdown

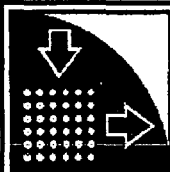
Analysis results: Transmissivity: $8.10\text{E}+2$ [ft²/d] Conductivity: $2.02\text{E}+1$ [ft/d]
 Storativity: $4.84\text{E}-5$

Test parameters: Pumping well: CPW2002 Aquifer thickness: 40 [ft]
 Screen radius: 0.1875 [ft] Confined aquifer
 Screen length: 60 [ft]
 Casing radius: 0.33333333 [ft]
 Discharge rate: 50.2 [U.S. gal/min]

Comments: CM9-04

Evaluated by: HPD

Date: 10/4/2002

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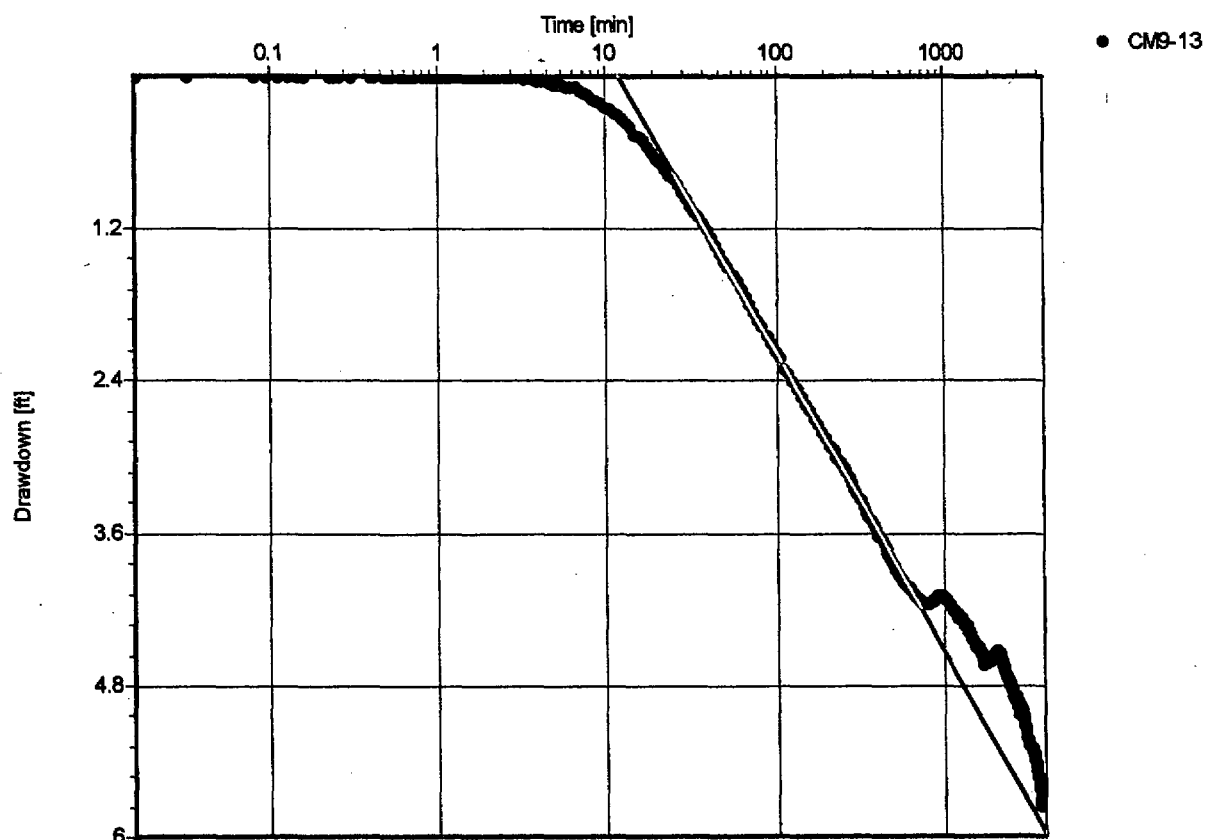
303-290-9414

Pumping Test Analysis Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

Test 4 (Cooper-Jacob Time-Drawdown) - CM9-13**Test name:** Test 4**Analysis method:** Cooper-Jacob Time-Drawdown

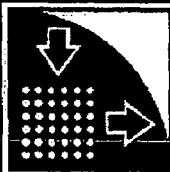
Analysis results: Transmissivity: $7.48E+2$ [ft²/d] Conductivity: $1.87E+1$ [ft/d]
 Storativity: $6.35E-5$

Test parameters: Pumping well: CPW2002 Aquifer thickness: 40 [ft]
 Screen radius: 0.1875 [ft] Confined aquifer
 Screen length: 60 [ft]
 Casing radius: 0.33333333 [ft]
 Discharge rate: 50.2 [U.S. gal/min]

Comments: FIGURE 7

Evaluated by: HPD

Date: 10/4/2002

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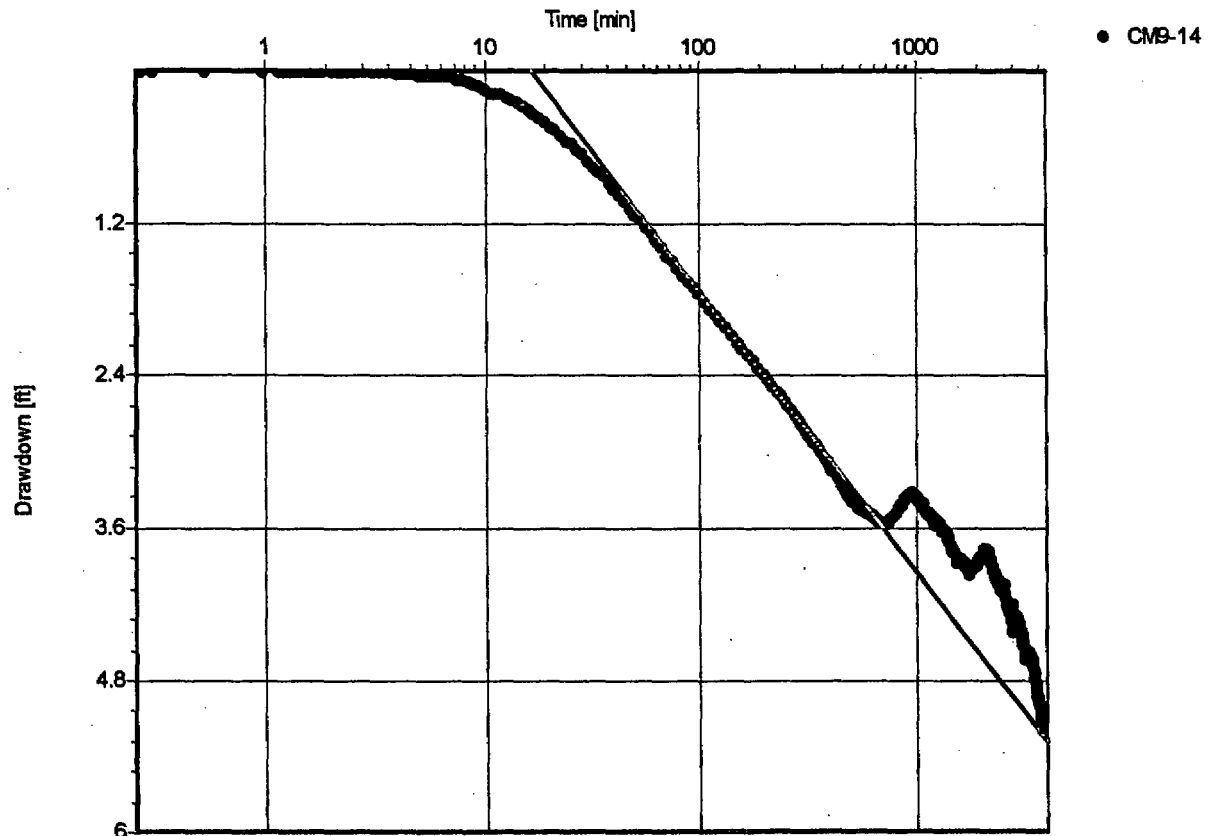
Pumping Test Analysis Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

Test 4 (Cooper-Jacob Time-Drawdown) - CM9-14

Test name: Test 4Analysis method: Cooper-Jacob Time-Drawdown

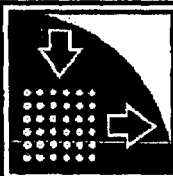
<u>Analysis results:</u>	Transmissivity:	8.01E+2 [ft ² /d]	Conductivity:	2.00E+1 [ft/d]
	Storativity:	5.06E-5		

<u>Test parameters:</u>	Pumping well:	CPW2002	Aquifer thickness:	40 [ft]
	Screen radius:	0.1875 [ft]	Confined aquifer	
	Screen length:	60 [ft]		
	Casing radius:	0.3333333 [ft]		
	Discharge rate:	50.2 [U.S. gal/min]		

Comments:

Evaluated by: HPD

Date: 10/4/2002

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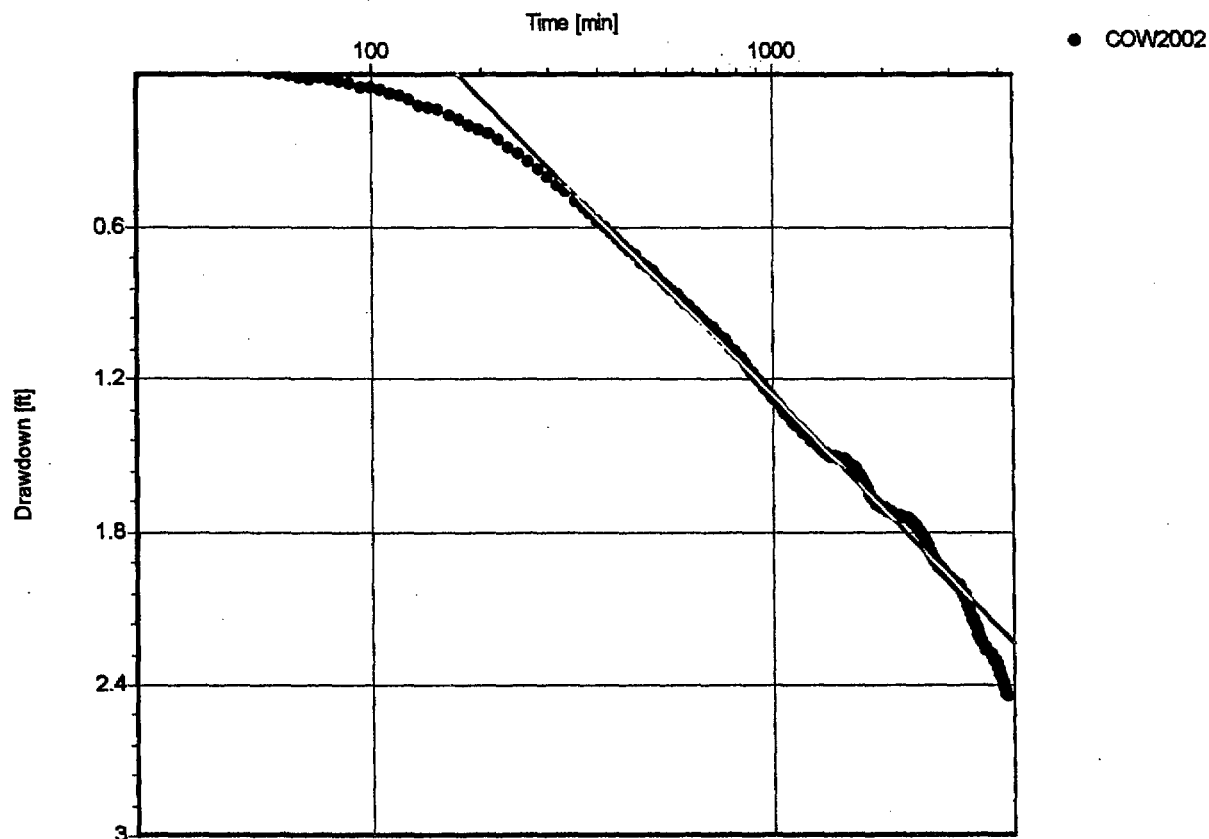
303-290-9414

Pumping Test Analysis Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

Test 4 (Cooper-Jacob Time-Drawdown) - COW2002Test name: Test 4Analysis method: Cooper-Jacob Time-Drawdown

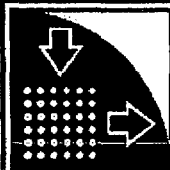
<u>Analysis results:</u>	Transmissivity:	1.09E+3 [ft ² /d]	Conductivity:	2.73E+1 [ft/d]
	Storativity:	5.21E-5		

<u>Test parameters:</u>	Pumping well:	CPW2002	Aquifer thickness:	40 [ft]
	Screen radius:	0.1875 [ft]	Confined aquifer	
	Screen length:	60 [ft]		
	Casing radius:	0.33333333 [ft]		
	Discharge rate:	50.2 [U.S. gal/min]		

Comments:

Evaluated by: HPD

Date: 10/4/2002

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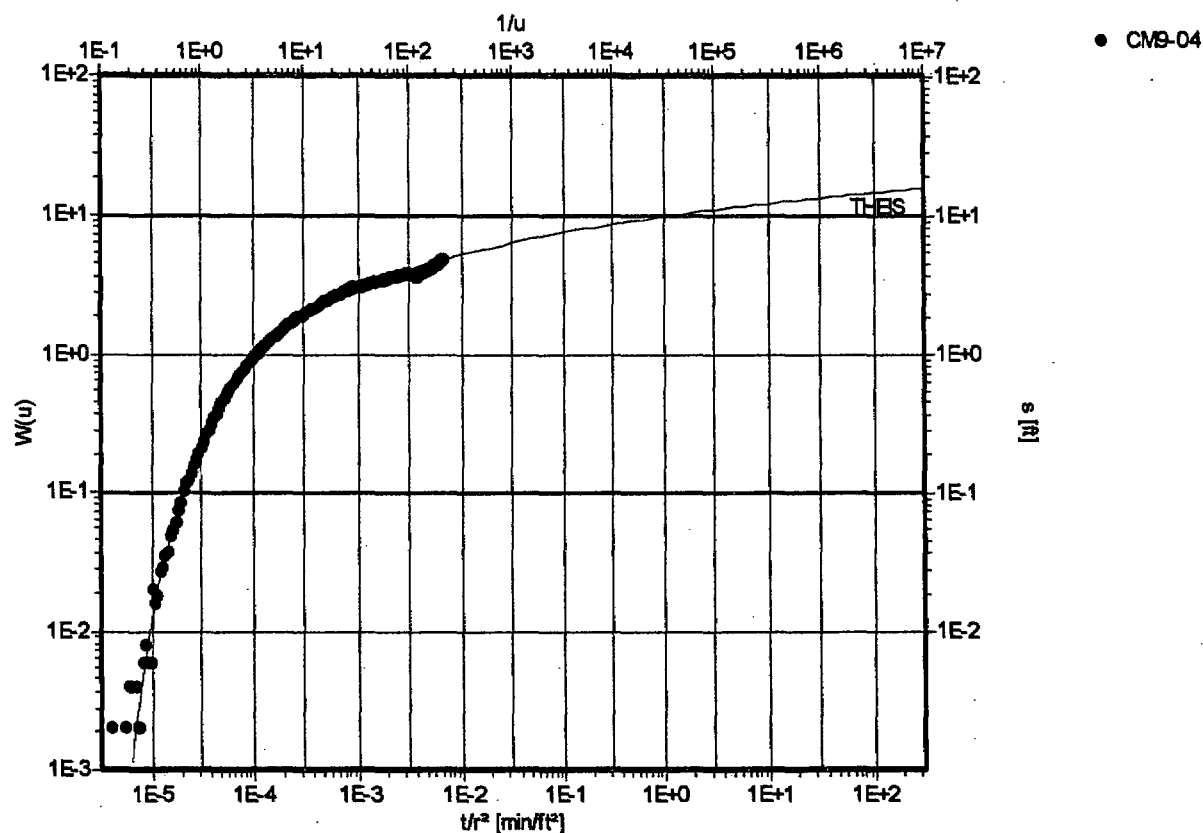
303-290-9414

Pumping Test Analysis Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

Test 4 (Theis) - CM9-04Test name: Test 4Analysis method: Theis

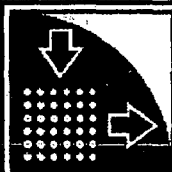
Analysis results: Transmissivity: 7.55E+2 [ft²/d] Conductivity: 1.89E+1 [ft/d]
 Storativity: 6.34E-5

Test parameters: Pumping well: CPW2002 Aquifer thickness: 40 [ft]
 Screen radius: 0.1875 [ft] Confined aquifer
 Screen length: 60 [ft]
 Casing radius: 0.33333333 [ft]
 Discharge rate: 50.2 [U.S. gal/min]

Comments:

Evaluated by: HPD

Date: 10/4/2002

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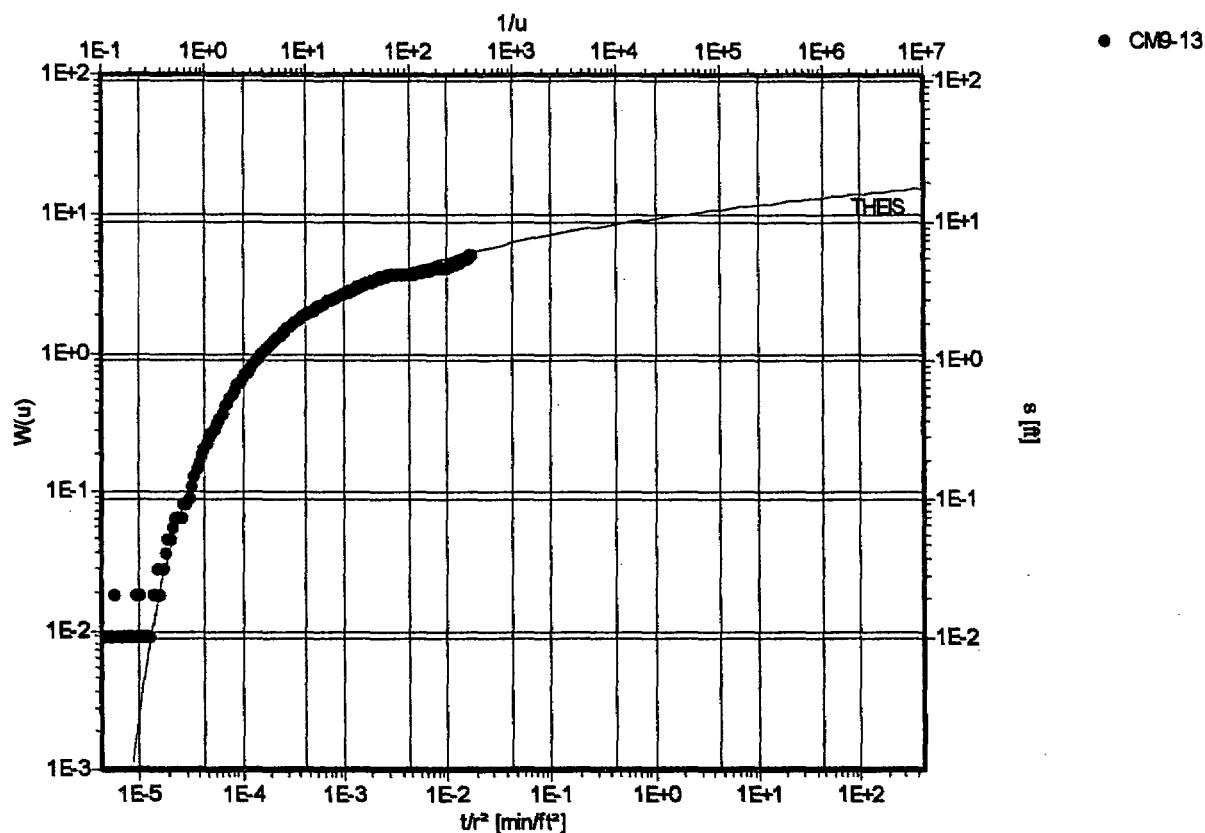
303-290-9414

Pumping Test Analysis Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

Test 4 (Theis) - CM9-13Test name: Test 4Analysis method: Theis

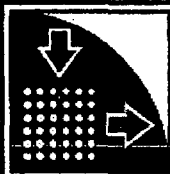
Analysis results: Transmissivity: 6.89E+2 [ft²/d] Conductivity: 1.72E+1 [ft/d]
 Storativity: 8.16E-5

Test parameters: Pumping well: CPW2002 Aquifer thickness: 40 [ft]
 Screen radius: 0.1875 [ft] Confined aquifer
 Screen length: 60 [ft]
 Casing radius: 0.33333333 [ft]
 Discharge rate: 50.2 [U.S. gal/min]

Comments: FIGURE 6

Evaluated by: HPD

Date: 10/4/2002

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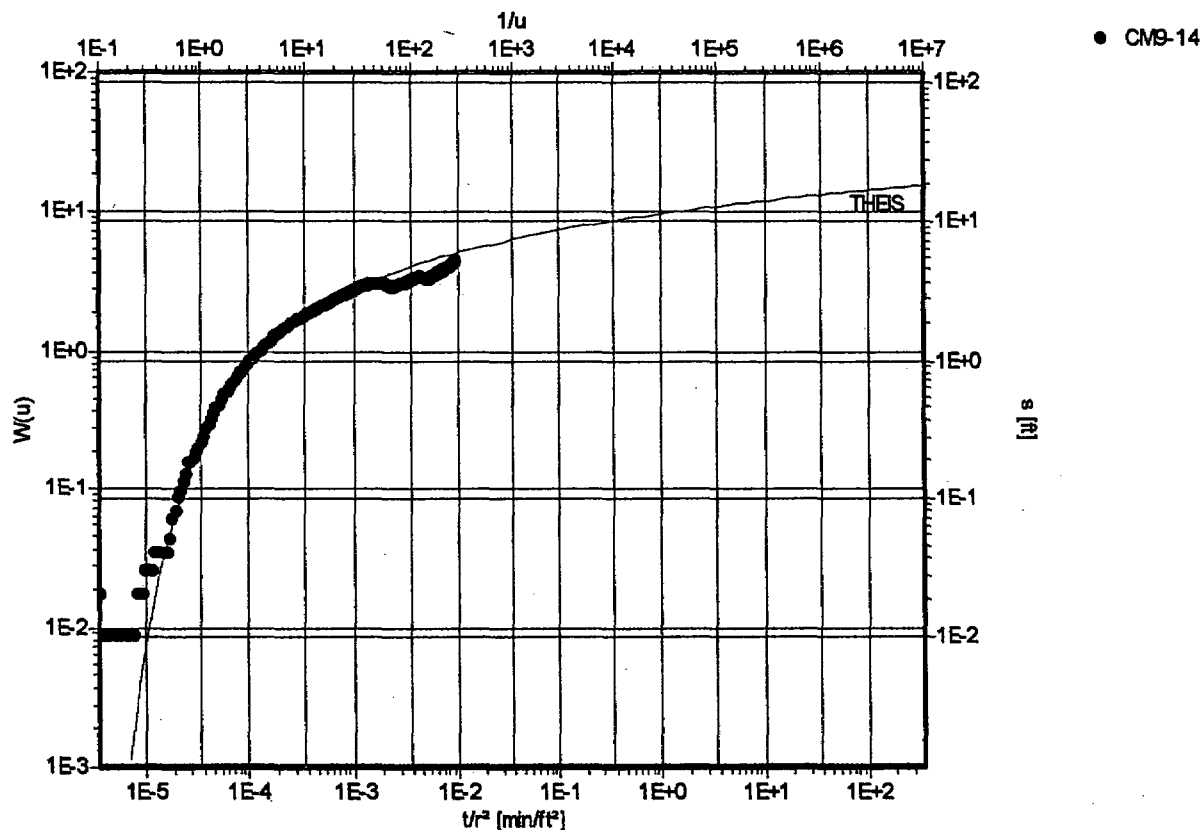
303-290-9414

Pumping Test Analysis Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

Test 4 (Theis) - CM9-14Test name: Test 4Analysis method: Theis

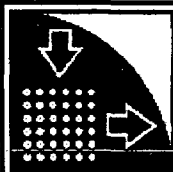
Analysis results: Transmissivity: 6.58E+2 [ft²/d] Conductivity: 1.64E+1 [ft/d]
 Storativity: 6.34E-5

Test parameters: Pumping well: CPW2002 Aquifer thickness: 40 [ft]
 Screen radius: 0.1875 [ft] Confined aquifer
 Screen length: 60 [ft]
 Casing radius: 0.33333333 [ft]
 Discharge rate: 50.2 [U.S. gal/min]

Comments:

Evaluated by: HPD

Date: 10/4/2002

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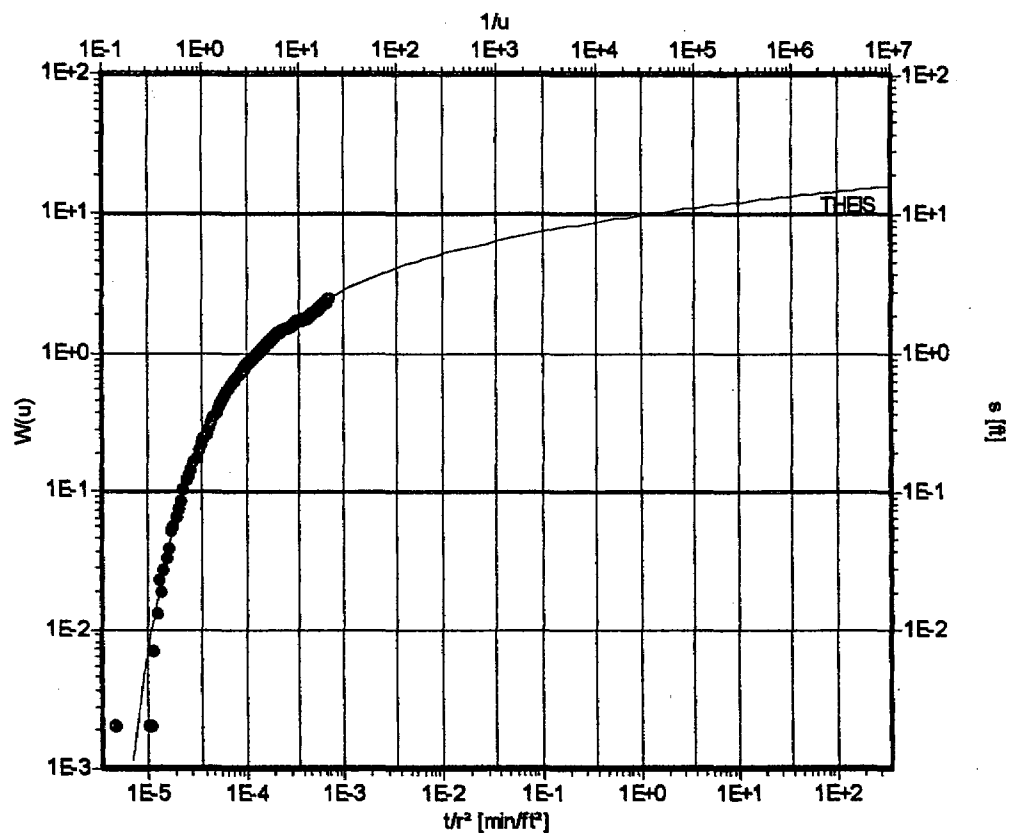
303-290-9414

Pumping Test Analysis Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

Test 4 (Theis) - COW2002**Test name:** Test 4**Analysis method:** Theis

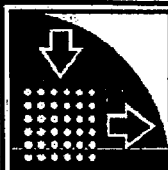
Analysis results: Transmissivity: 7.55E+2 [ft²/d] Conductivity: 1.89E+1 [ft/d]
 Storativity: 7.28E-5

Test parameters: Pumping well: CPW2002 Aquifer thickness: 40 [ft]
 Screen radius: 0.1875 [ft] Confined aquifer
 Screen length: 60 [ft]
 Casing radius: 0.33333333 [ft]
 Discharge rate: 50.2 [U.S. gal/min]

Comments:

Evaluated by: HPD

Date: 10/4/2002

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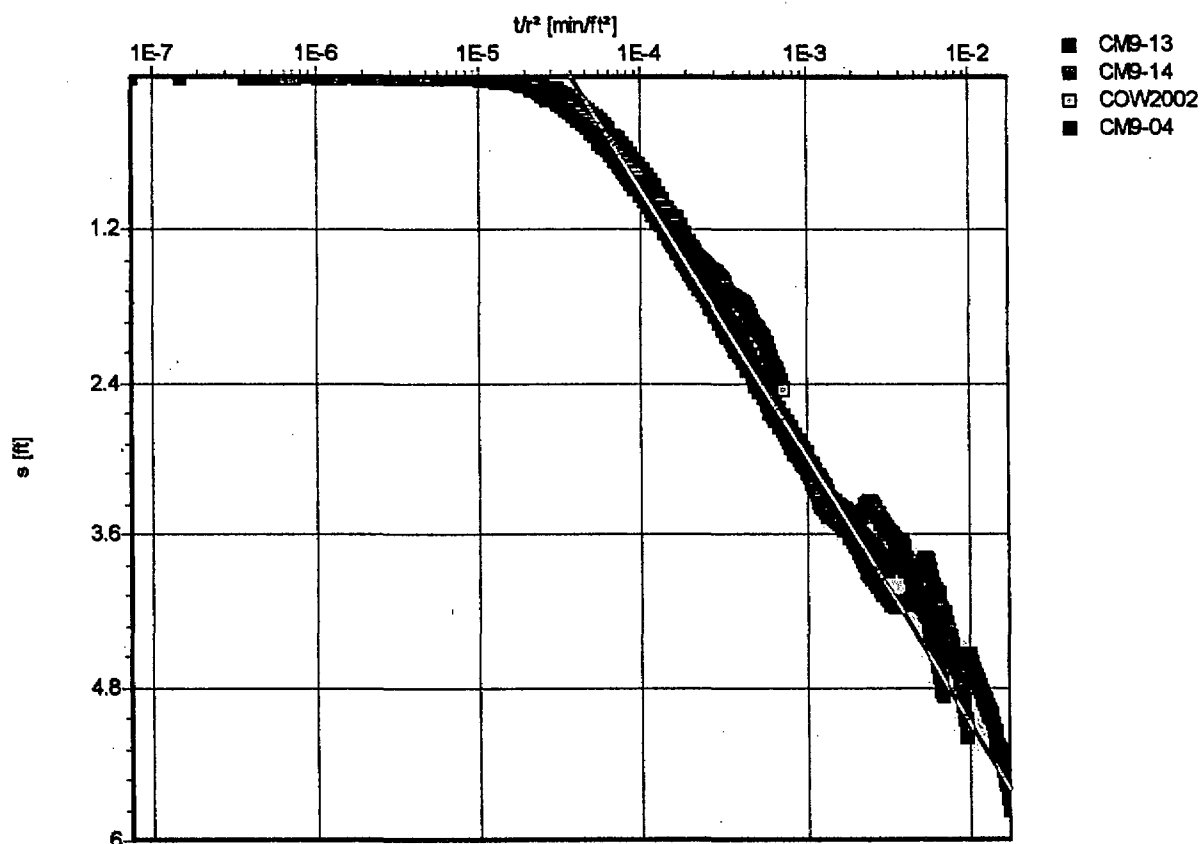
Pumping Test Analysis Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

Test 4 (Cooper-Jacob Distance-Draw down) - Chadron Wells

**Test name:** Test 4**Analysis method:** Cooper-Jacob Time-Distance-Drawdown

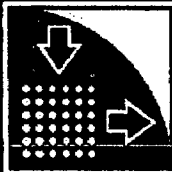
Analysis results:	Transmissivity:	8.44E+2 [ft ² /d]	Conductivity:	2.11E+1 [ft/d]
	Storativity:	4.88E-5		

Test parameters:	Pumping well:	CPW2002	Aquifer thickness:	40 [ft]
	Screen radius:	0.1875 [ft]	Confined aquifer	
	Screen length:	60 [ft]		
	Casing radius:	0.33333333 [ft]		
	Discharge rate:	50.2 [U.S. gal/min]		

Comments:

Evaluated by: HPD

Date: 10/4/2002

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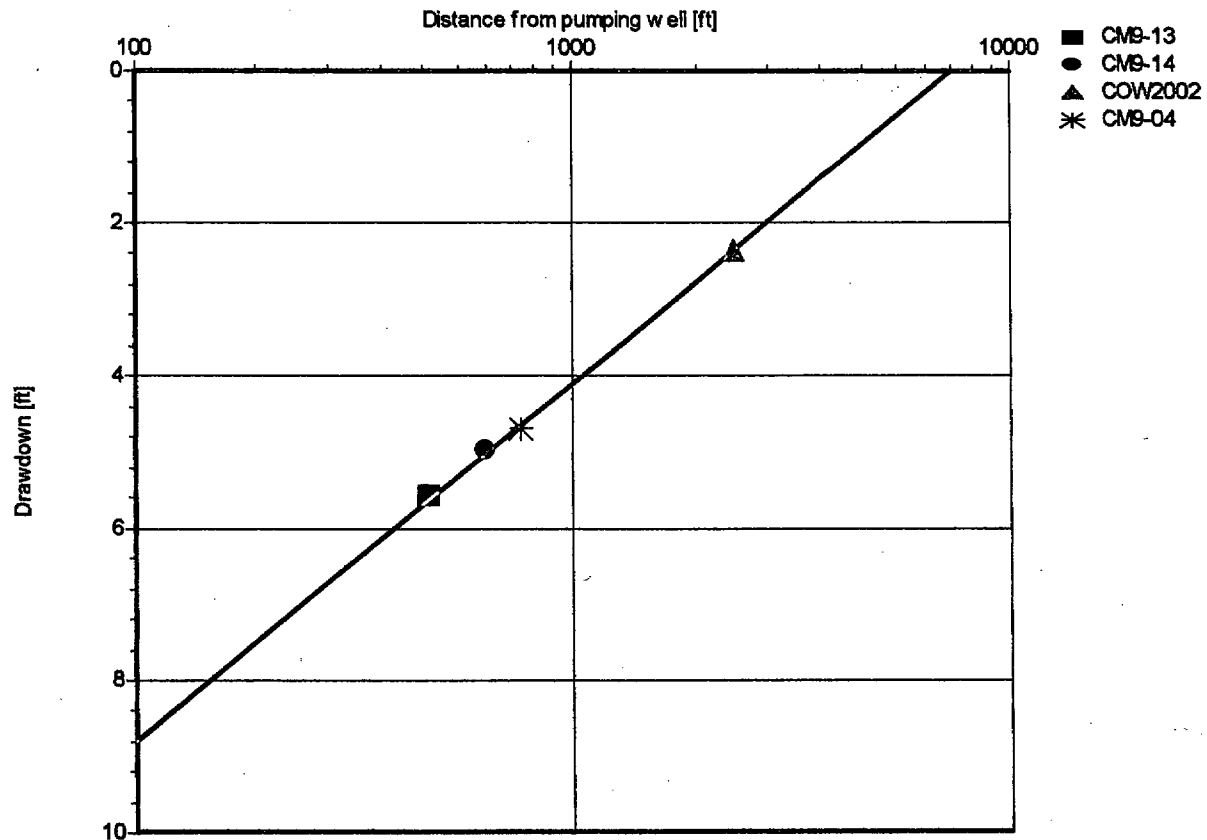
303-290-9414

Pumping Test Analysis Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

Test 4 (Cooper-Jacob Distance-Drawdown) - Chadron Wells**Test name:** Test 4**Analysis method:** Cooper-Jacob Distance-Drawdown

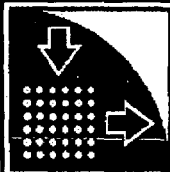
Analysis results: Transmissivity: $7.47E+2$ [ft²/d] Conductivity: $1.87E+1$ [ft/d]
 Storativity: $8.06E-5$

Test parameters: Pumping well: CPW2002 Aquifer thickness: 40 [ft]
 Screen radius: 0.1875 [ft] Confined aquifer
 Screen length: 60 [ft]
 Casing radius: 0.33333333 [ft]
 Discharge rate: 50.2 [U.S. gal/min]
 Calculation time: 3680 [min]

Comments: FIGURE 4
 T = 3660 minutes

Evaluated by: HPD

Date: 10/4/2002

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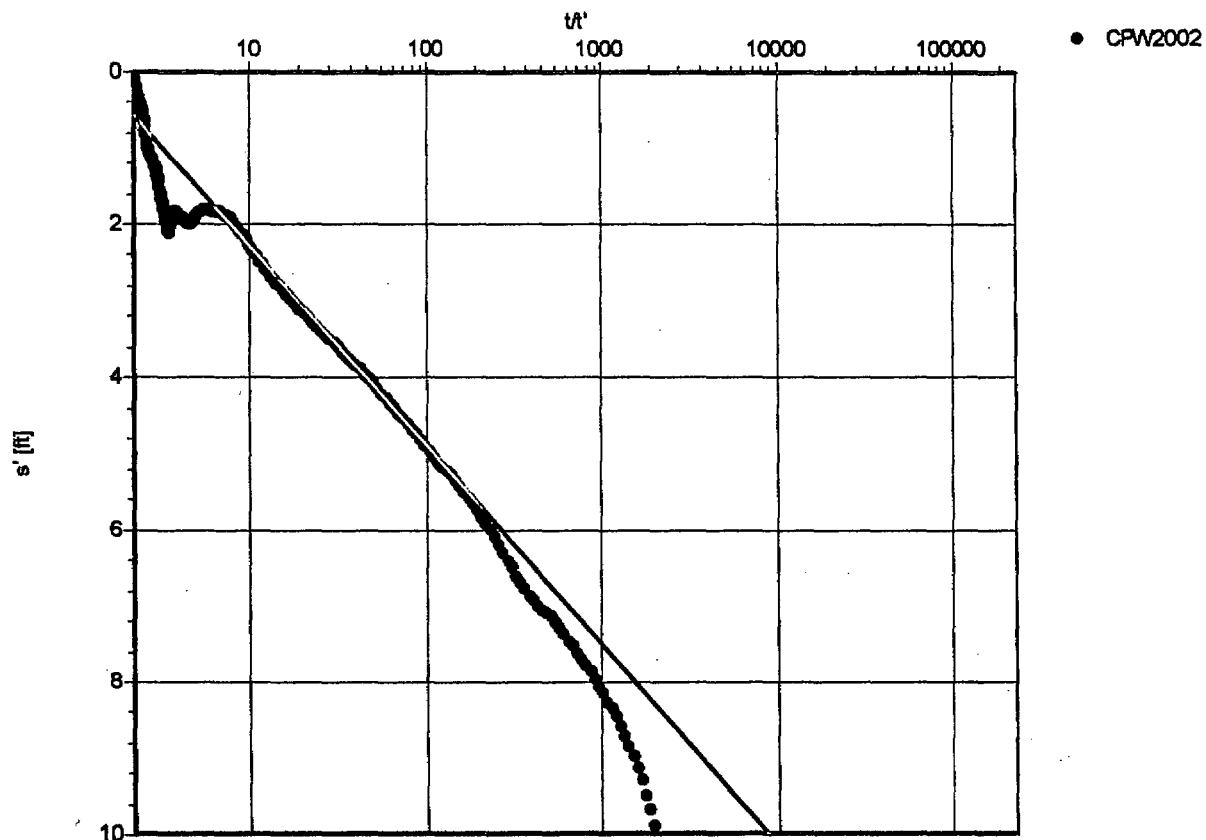
Pumping Test Analysis Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

Test 4 (Theis Recovery) - CPW2002

Test name: Test 4Analysis method: Theis Recovery

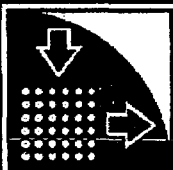
Analysis results: Transmissivity: 6.75E+2 [ft²/d] Conductivity: 1.69E+1 [ft/d]

<u>Test parameters:</u>	Pumping well:	CPW2002	Aquifer thickness:	40 [ft]
	Screen radius:	0.1875 [ft]	Confined aquifer	
	Screen length:	60 [ft]		
	Casing radius:	0.33333333 [ft]		
	Discharge rate:	50.2 [U.S. gal/min]		
	Pump Time	3870 [min]		

Comments:

Evaluated by: HPD

Date: 10/7/2002

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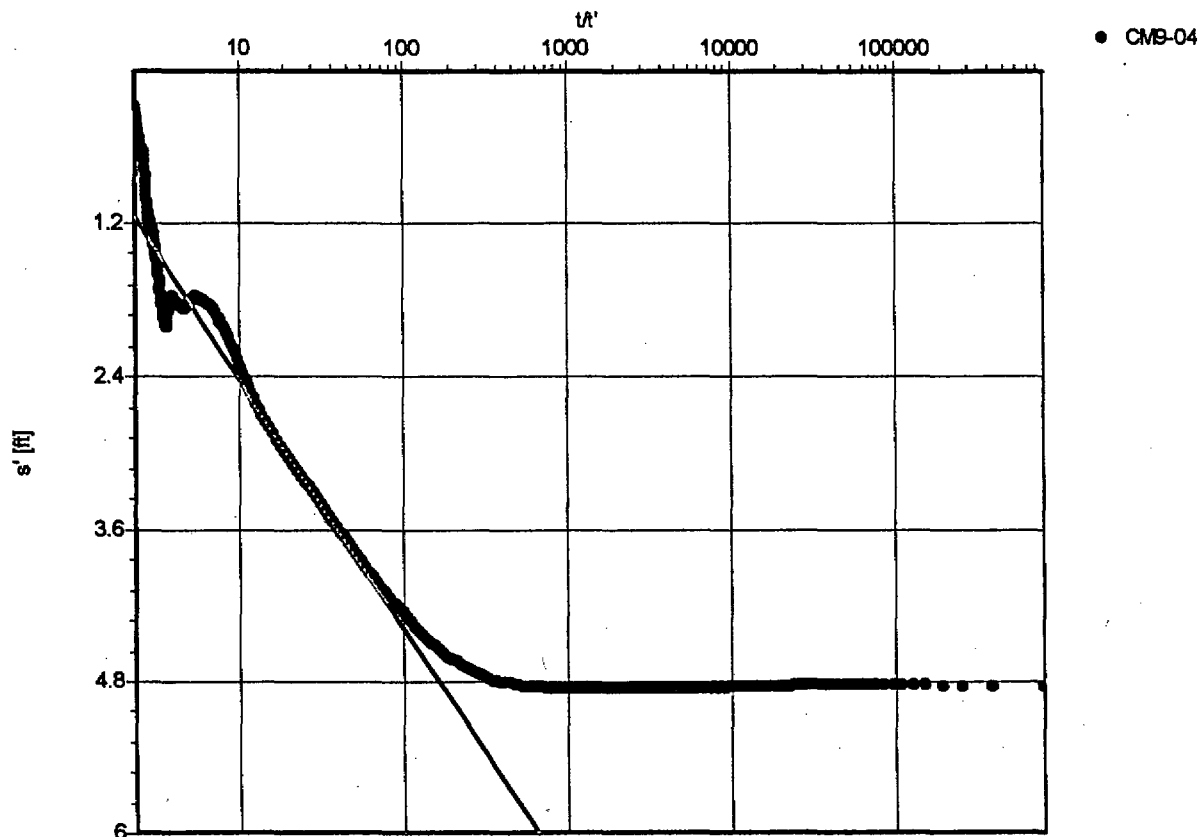
303-290-9414

Pumping Test Analysis Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

Test 4 (Theis Recovery) - CM9-04Test name: Test 4Analysis method: Theis Recovery

Analysis results: Transmissivity: 8.98E+2 [ft²/d] Conductivity: 2.24E+1 [ft/d]

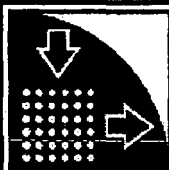
Test parameters:

Pumping well:	CPW2002	Aquifer thickness:	40 [ft]
Screen radius:	0.1875 [ft]	Confined aquifer	
Screen length:	60 [ft]		
Casing radius:	0.33333333 [ft]		
Discharge rate:	50.2 [U.S. gal/min]		
Pump Time	3870 [min]		

Comments:

Evaluated by: HPD

Date: 10/7/2002

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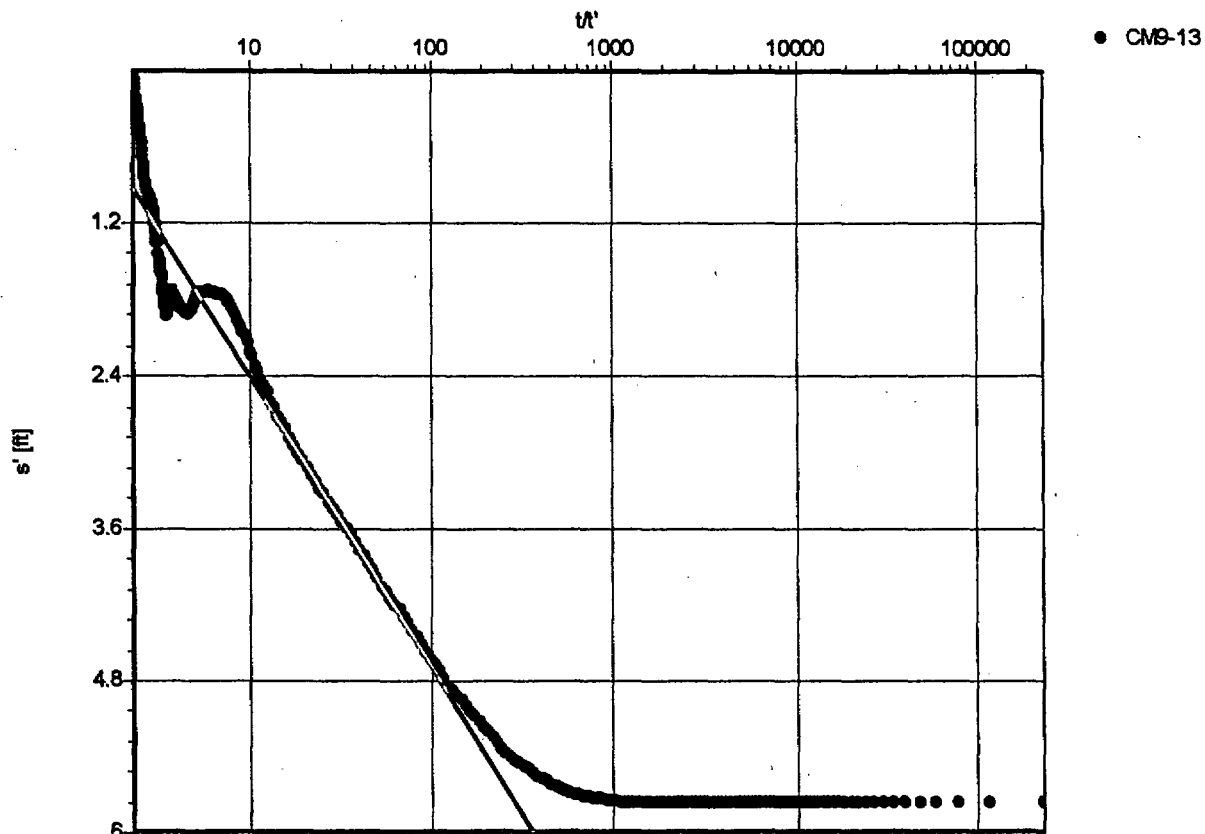
303-290-9414

Pumping Test Analysis Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

Test 4 (Theis Recovery) - CM9-13Test name: Test 4Analysis method: Theis Recovery

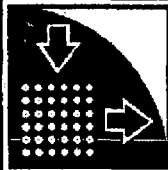
Analysis results: Transmissivity: $7.69E+2$ [ft²/d] Conductivity: $1.92E+1$ [ft/d]

Test parameters: Pumping well: CPW2002 Aquifer thickness: 40 [ft]
 Screen radius: 0.1875 [ft] Confined aquifer
 Screen length: 60 [ft]
 Casing radius: 0.3333333 [ft]
 Discharge rate: 50.2 [U.S. gal/min]
 Pump Time 3870 [min]

Comments:

Evaluated by: HPD

Date: 10/7/2002

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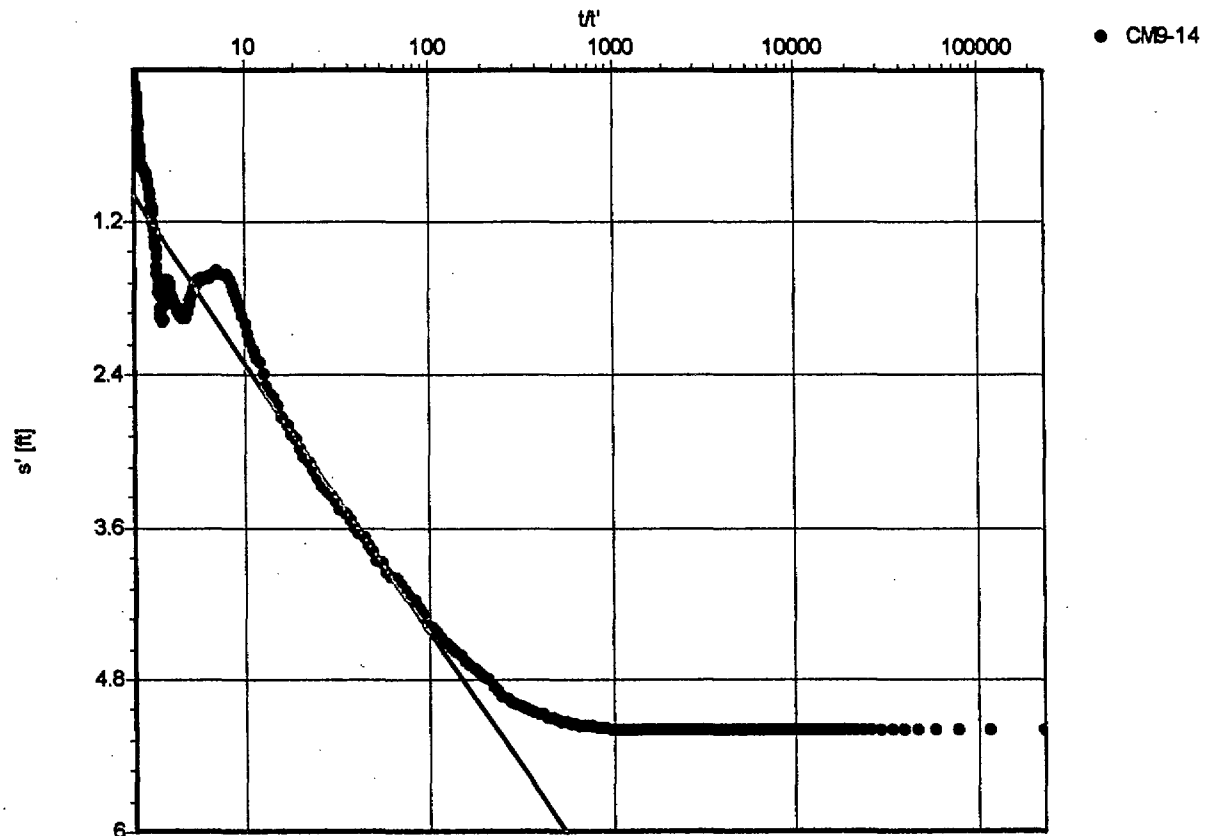
303-290-9414

Pumping Test Analysis Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

Test 4 (Theis Recovery) - CM9-14Test name: Test 4Analysis method: Theis Recovery

Analysis results: Transmissivity: 8.27E+2 [ft²/d] Conductivity: 2.07E+1 [ft/d]

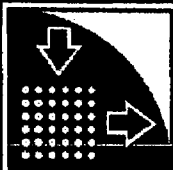
Test parameters:

Pumping well:	CPW2002	Aquifer thickness:	40 [ft]
Screen radius:	0.1875 [ft]	Confined aquifer	
Screen length:	60 [ft]		
Casing radius:	0.33333333 [ft]		
Discharge rate:	50.2 [U.S. gal/min]		
Pump Time	3870 [min]		

Comments:

Evaluated by: HPD

Date: 10/7/2002

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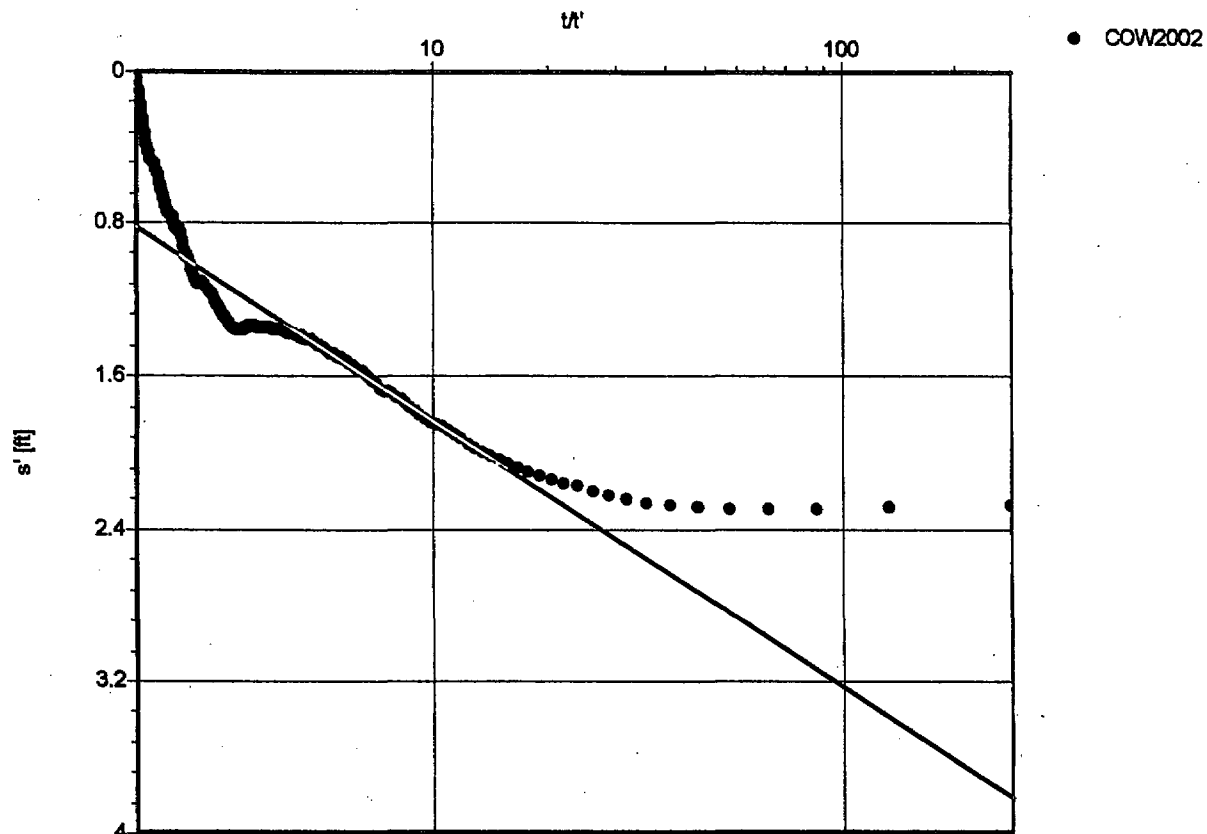
303-290-9414

Pumping Test Analysis Report

Project: Pumping Test #4

No:

Client: Crow Butte Resources

Test 4 (Theis Recovery) - COW2002**Test name:** Test 4**Analysis method:** Theis Recovery
Analysis results: Transmissivity: $1.26E+3$ [ft²/d] Conductivity: $3.15E+1$ [ft/d]

Test parameters:	Pumping well:	CPW2002	Aquifer thickness:	40 [ft]
	Screen radius:	0.1875 [ft]	Confined aquifer	
	Screen length:	60 [ft]		
	Casing radius:	0.33333333 [ft]		
	Discharge rate:	50.2 [U.S. gal/min]		
	Pump Time	3870 [min]		

Comments:

Evaluated by: HPD

Date: 10/7/2002