

WM DOCKET CONTROL  
CENTER

'84 NOV 30 P4:10



BATTELLE Project Management Division  
505 King Avenue  
Columbus, Ohio 43201

November 28, 1984

Mr. Robert Johnson  
U.S. Nuclear Regulatory Commission  
7915 Eastern Avenue  
Silver Springs, Maryland 20910

Dear Mr. Johnson:

TRANSMITTAL OF GEOPHYSICAL LOGS FROM DOE WELLS IN THE PERMIAN BASIN

This letter serves to transmit two complete sets of full scale geophysical logs from DOE wells in the Permian Basin of Texas. This transmittal fulfills the data requested of J. O. Neff (DOE-SRPO) by John Linehan (NRC) for the Permian Basin (refer to letter of June 15, 1984, Enclosure 1).

A detailed inventory of the data enclosed is attached. If you have any questions, please call me at (614) 424-5282 or Mr. Alan Funk at (614) 424-4118.

Sincerely,

Charles S. Kuntz  
Section Manager, Geology  
Geotechnical Department

CSK/ACF:cr

Attachments

cc: J. A. Sherwin, DOE/SRPO (3)  
J. Jones, SRPO  
D. Dawson, ONWI  
T. Verma, NRC

WM Record File  
106

WM Project 16

Docket No. \_\_\_\_\_

PDR Kuntz encl.

LPDR Kuntz encl.

Distribution:

LINEHAN GRACE

JOHNSON

(Return to WM, 623-SS)

*Encls. are located in WM DCC*  
*(PDSat-1115)*

B501070166 841128  
PDR WASTE  
WM-16

PDR

WBS #1.3.3

# INVENTORY OF PAPER COPY WELL LOGS

Well Name: G FRIEMEL

State: Tx

County: DEAF SMITH

Subcontractor: SWEC

Well log title	Logging Contractors	Run No.	Logged Footage	
			Top	Bottom
DUAL INDUCTION - SFL	SCHLUMBERGER	1	57	1057
DUAL LATEROLOG MICRO - SFL		1	1057	2697
PROXIMITY LOG MICROLOG		1	57	1057
COMPENSATED NEUTRON LITHO DENSITY	↓	1	1	1054
		2	1057	2685
TEMPERATURE	↓	1	57	1057
		2	1057	2695
POREHOLE COMPENSATED SONIC	↓	1	57	1054
		2	1057	2697
SONIC WAVEFORM VARIABLE DENSITY	↓	1	57	1054
		2	1057	2697
LONG SPACING POREHOLE COMPENSATED SONIC		1	1057	2697
" " SONIC WAVE FORM		2	1057	2697
FRACTURE IDENTIFICATION	↓	1	57	1057
		2	1057	2711
4 ARM CONTINUOUS DIPMETER		1	57	1057
" " " "		2	1057	2711
CONTINUOUS DIRECTIONAL		1	57	1057
COMPUTED DIRECTIONAL	↓	1	57	1057
		2	1057	2711
CYBERLOOK COMPUTER PROCESSED	↓	1	57.0	1054.0
		2	1057.0	2697.0
CORIBAND COMPUTER PROCESSED		1	60	1024
" " "		1	1060	2686
		1	11	1057
REPEAT FORMATION TESTER (10 TESTS)	↓	2	1233	2684

# INVENTORY OF PAPER COPY WELL LOGS

Well Name: G FRIEMEL

State: Tx

County: DEAF SMITH

Subcontractor: SWEC

[illegible]

# INVENTORY OF PAPER COPY WELL LOGS

Well Name: MANSFIELD #1

State: TX

County: OLAHAM

Subcontractor: SWEC

Well log title	Logging Contractors	Run No.	Logged Footage	
			Top	Bottom
DUAL LATEROLOG MICRO-SFL	SCHLUMBERGER	1	40	1211
		2	1000	3539
		3	3200	4995
PROXIMITY LOG - MICROLOG	↓	1	40	1210
COMPENSATED NEUTRON FORMATION DENSITY	↓	1	40	1200
		2	1000	3537
		3	3200	4989
TEMPERATURE	↓	1	40	1212
		2	1216	3540
		3	3200	4995
BOREHOLE COMPENSATED SONIC	↓	1	0	1209
		2	1000	3540
		3	3200	4993
SONIC WAVEFORM VARIABLE DENSITY	↓	1	40	1200
		2	1000	3523
		3	3200	4993
FRACTURE IDENTIFICATION	↓	1	40	1210
		2	1216	3539
		3	3200	4995
4 ARM CONTINUOUS DIPMETER	↓	1	40	1210
		2	1216	3539
		3	3200	4989
CONTINUOUS DIRECTIONAL	↓	1	40	1210
		2	1216	3539
		3	3200	4995
TRUE VERTICAL DEPTH	↓	1	70	1200

# INVENTORY OF PAPER COPY WELL LOGS

Well Name: MANSFIELD #1  
 State: TX  
 County: OLDHAM  
 Subcontractor: SWEC

Well log title	Logging Contractors	Run No.	Logged Footage	
			Top	Bottom
CYBERLOOK COMPUTER PROCESSED	Schlumberger	1	40	1200
		2	1216	3430
		3	3200	4963
CORIBAND COMPUTER PROCESSED	↓	1	70	1200
" " "		1	1200	3522
" " "		1	3200	4980
" " "		1	50	4895
" " "		1	50	4895
REPEAT FORMATION TESTER (B TESTS)		1	4527	4850
DUAL SPACING THERMAL NEUTRON DECAY		1	4895	4899
" " " " "		2	38	4895
VARIABLE DENSITY CEMENT BOND		1	486	5130
CEMENT BOND VARIABLE DENSITY		2	4200	4890
MICRO LATEROLOG		1	30	1230
COMPENSATED NEUTRON DENSITY FORMATION	↓	1	40	1209
		2	1000	3537
		3	3200	4989
BOREHOLE COMPENSATED SONIC	↓	1	0	1209
		2	1000	3540
		3	3200	4993
DUAL LATEROLOG MICRO-SFI	↓	1	40	1211
		2	1000	3539
		3	3200	4995

# INVENTORY OF PAPER COPY WELL LOGS

Well Name: Zeeck #1  
 State: Tx  
 County: SWISHER  
 Subcontractor: SWEC

Well log title	Logging Contractors	Run No.	Logged Footage	
			Top	Bottom
DUAL LATEROLOG MICRO-SFL	SCHLUMBERGER	1	38	1004
		4	1017	5196
		6	5200	7644
DUAL LATEROLOG MICRO-SFL	↓	2	1019	1139
		3	1020	3085
		5	5000	5763
PROXIMITY LOG MICROLOG	↓	1	29	1025
COMPENSATED NEUTRON LITHO DENSITY	↓	1	38	1025
		4	1017	5194
		6	5200	7642
COMPENSATED NEUTRON	↓	2	1019	1121
		3	1019	3082
		5	5000	5757
TEMPERATURE	↓	1	0	1018
		4	1017	5194
		6	5100	7636
BORRHOLE COMPENSATED SONIC	↓	1	38	1007
		4	1017	5196
		6	5200	7642
SONIC WAVEFORM VARIABLE DENSITY	↓	1	38	1025
		4	1017	5194
		6	5200	7642
FRACTURE IDENTIFICATION	↓	1	29	1025
↓ ↓	↓	4	1017	5194
↓ ↓	↓	6	5200	7644
4 ARM CONTINUOUS DIAMETER	↓	1	29	1025

# INVENTORY OF PAPER COPY WELL LOGS

Well Name: Zeeck #1  
 State: Tx  
 County: SWISHER  
 Subcontractor: SWEC

Well log title	Logging Contractors	Run No.	Logged Footage	
			Top	Bottom
4 ARM CONTINUOUS DIPMETER	SCHLUMBERGER	4	1017	5196
" " " "	↓	6	5200	7644
DIRECTIONAL	↓	1	29	1025
		4	1017	5296
		6	5200	7644
FIELD COMPUTED DIRECTIONAL	↓	1	15	1025
		4	1017	5196
		6	5200	7642
4 ARM CALIPER	↓	2	1019	1139
		3	1019	3099
		5	5000	5776
4 ARM CALIPER	↓	6	1017	5250
CYBERLOOK COMPUTER PROCESSED	↓	1	29	1000
		4	1017	5196
		6	5200	7610
CORIBAND COMPUTER PROCESSED	↓	1	160	1000
↓ ↓ ↓	↓	4	1020	5160
		6	5160	7620
REPEAT FORMATION TESTER (14 TESTS)	↓	6	2936	7645
SYNERGETIC GEOGRAM (2 COPIES)	↓	1	—	—
WELL SEISMIC REPORT (2 COPIES)	↓	1	⊖	7408
		1	⊖	7409
WELL SEISMIC MONITOR	↓	6	1017	5296
" " "	↓	7	—	7302
TEMPERATURE (2 COPIES)	↓	1	1	7310
CEMENT BOND VARIABLE DENSITY	↓	1	⊖	7299

# INVENTORY OF PAPER COPY WELL LOGS

Well Name: Zeeck #1

State: TX

County: SULLY

Subcontractor: SWEC

[illegible]



# INVENTORY OF PAPER COPY WELL LOGS

Well Name: J FRIEMEL #1  
 State: TX  
 County: DEAF SMITH  
 Subcontractor: SWEC

Well log title	Logging Contractors	Run No.	Logged Footage	
			Top	Bottom
MICRO SEISMOGRAM LOG - CASED HOLE	WELEX	1	4200	8227
" " " " "	WELEX	2	5670	8139
DUAL INDUCTION - SFL	SCHLUMBERGER	7	60	1210
		4	1000	4635
		9	4695	8282
DUAL LATEROLOG	↓	2	1202	1435
		3	1202	2810
DUAL INDUCTION - SFL	↓	5	4698	5908
		6	5700	6529
		7	6300	7774
PROXIMITY LOG MICROLOG	↓	1	60	1213
		9	4695	8282
COMPENSATED NEUTRON LITHO DENSITY	↓	1	60	1213
		4	1000	4646
		9	4695	8282
COMPENSATED NEUTRON	↓	2	1202	1432
		3	1202	2820
COMPENSATED NEUTRON	↓	5	4698	5908
		6	5700	6532
TEMPERATURE	↓	1	0	1216
		4	1000	4649
		9	4695	8282
BOREHOLE COMPENSATED SONIC	↓	1	60	1201
		4	1000	4635
		9	4695	8282

# INVENTORY OF PAPER COPY WELL LOGS

Well Name: J FRIEMEL

State: TX

County: DEAF SMITH

Subcontractor: SWEC

Well log title	Logging Contractors	Run No.	Logged Footage	
			Top	Bottom
SONIC VARIABLE DENSITY WAVEFORM	SCHLUMBERGER	1	60	1201
		4	1000	4635
		9	4695	8282
LONG SPACED SONIC	↓	1	60	1200
		4	1202	4647
		9	4695	8282
LONG SPACED SONIC DIGITIZED WAVEFORM	↓	1	60	1200
		4	1202	4647
		9	4695	8282
FRACTURE IDENTIFICATION	↓	1	60	1216
↓		3	1201	2824
↓		4	1202	4650
↓		9	4695	8282
4 ARM CONTINUOUS DIPMETER	↓	1	60	1216
		4	1202	4650
		9	4695	8282
CONTINUOUS DIRECTIONAL	↓	1	60	1213
		4	1202	4650
		8	4693	8283
FIELD DIRECTIONAL	↓	1	60	1213
		4	1202	4650
		9	4693	8283
4 ARM CALIPER	↓	2	1202	1447
		3	1202	2824
4 ARM CALIPER	↓	5	4698	5914
		6	5700	6532
		7	6300	7774

## INVENTORY OF PAPER COPY WELL LOGS

Well Name: J FRIEMEL

State: Tx

County: DEAF SMITH

Subcontractor: SWEC

[illegible]

# INVENTORY OF PAPER COPY WELL LOGS

Well Name: SAWYER #1  
 State: TX  
 County: DONLEY  
 Subcontractor: SWEL

Well log title	Logging Contractors	Run No.	Logged Footage	
			Top	Bottom
DUAL INDUCTION - SFL	SCHLUMBERGER	1	63	331
DUAL LATEROLOG	↓	1	330	1577
		2	330	3432
DUAL INDUCTION - SFL	↓	1	3939	4800
PROXIMITY LOG MICROLOG	↓	1	63	335
COMPENSATED NEUTRON FORMATION DENSITY	↓	1	63	334
		2	330	1588
		3	1500	3933
		4	3939	4803
TEMPERATURE SURVEY	↓	1	0	3918
BOREHOLE COMPENSATED SONIC	↓	1	63	333
		2	330	3917
		3	3939	4789
SONIC WAVEFORM VARIABLE DENSITY	↓	1	63	335
SONIC WAVEFORM	↓	2	330	3916
VARIABLE DENSITY	↓	2	330	3916
SONIC WAVEFORM VARIABLE DENSITY	↓	3	3939	4786
FRACTURE IDENTIFICATION	↓	1	63	335
		2	330	3920
4 ARM CONTINUOUS DIPMETER	↓	1	63	335
" " " "		3	330	3920
CONTINUOUS DIRECTIONAL	↓	3	330	3920
CORIBAND COMPUTER PROCESSED	↓	1	3940	4800
CEMENT BOND VARIABLE DENSITY	↓	1	4744	4753
" " "	↓	2	3780	4762
" " "	↓	3	4120	4304

# INVENTORY OF PAPER COPY WELL LOGS

Well Name: SAWYER #1  
State: TX  
County: DONLEY  
Subcontractor: SWEC

[illegible]

# INVENTORY OF PAPER COPY WELL LOGS

Well Name: HOLTZCLAW #1  
 State: Tx  
 County: RANDALL  
 Subcontractor: SWEC

Well log title	Logging Contractors	Run No.	Logged Footage	
			Top	Bottom
DUAL LATEROLOG MICRO-SFL	SCHLUMBERGER	1	55	1681
		2	1500	2876
COMPENSATED NEUTRON LITHO DENSITY	↓	1	55	1691
		2	1500	2874
BOROHOLE COMPENSATED SONIC	↓	1	100	1680
		2	1500	2863
SONIC WAVEFORM VARIABLE DENSITY	↓	1	55	1680
		2	1500	2863
LONG SPACING SONIC	↓	1	55	1680
		2	1500	2863
LONG SPACING SONIC DIGITIZED WAVEFORM	↓	1	55	1680
		2	1500	2863
FRACTURE IDENTIFICATION		1	55	1694
" "		2	1500	2876
REPEAT FORMATION TESTER (11 TESTS)		1	1219	1696
DIGITAL SONIC WAVEFORM		1	200	1690
NATURAL GAMMA RAY SPECTROMETRY	↓	1	55	1661
		2	1400	2842
TEMPERATURE	↓	1	55	1681
		2	1500	2876
4 ARM CONTINUOUS DIPMETER	↓	1	55	1694
		2	1500	2876
DIRECTIONAL LOG	↓	1	55	1694
		2	1500	2876
CYBERLOOK COMPUTER PROCESSED	↓	1	55	1671
		2	1500	2853

## INVENTORY OF PAPER COPY WELL LOGS

Well Name: HOLTZCLAW #1

State: Tx

County: RANDALL

Subcontractor: SWEC

[illegible]

# INVENTORY OF PAPER COPY WELL LOGS

Well Name: HARMAN #1  
 State: TX  
 County: SWISHER  
 Subcontractor: SWEC

Well log title	Logging Contractors	Run No.	Logged Footage	
			Top	Bottom
DUAL INDUCTION - SFL	SCHLUMBERGER	1	45	1060
		2	1062	3049
PROXIMITY LOG MICROLOG	↓	1	45	1063
COMPENSATED NEUTRON LITHO DENSITY		1	45	1063
		2	1062	3049
TEMPERATURE	↓	1	45	1066
		2	1062	3052
BOROHOLE COMPENSATED SONIC	↓	1	45	1052
		2	1062	3049
SONIC WAVEFORM VARIABLE DENSITY	↓	1	45	1052
		2	1062	3036
FRACTURE IDENTIFICATION	↓	1	45	1063
		2	1062	3050
4 ARM CONTINUOUS DIAMETER	↓	1	45	1063
		2	1062	3050
DIRECTIONAL	↓	1	45	1063
		2	1062	3050
COMPUTED DIRECTIONAL SURVEY	↓	1	45	1063
		2	1062	3050
CYBERLOOK COMPUTER PROCESSED	↓	1	45	1063
		2	1062	3029
CORIBAND COMPUTER PROCESSED	↓	1	60	1058
" " "		1	1062	3034
REPEAT FORMATION TESTER (7 TESTS)	↓	2	⊖	3052
NATURAL GAMMA RAY SPECTROMETRY		1	45	1057
		2	1062	3017



# INVENTORY OF PAPER COPY WELL LOGS

Well Name: HARMAN #1

State: TX

County: SWISHER

Subcontractor: SWEC

[illegible]

# INVENTORY OF PAPER COPY WELL LOGS

Well Name: DETTON #1  
 State: TX  
 County: DEAF SMITH  
 Subcontractor: SWEC

Well log title	Logging Contractors	Run No.	Logged Footage	
			Top	Bottom
DUAL LATEROLOG	SCHLUMBERGER	1	52	1121
		2	1123	2322
		3	1124	2829
PROXIMITY LOG MICROLOG	↓	1	52	1122
COMPENSATED NEUTRON / CALIPER		2	1123	2317
TEMPERATURE		1	52	1122
		3	1124	2838
BORRHOLE COMPENSATED SONIC	↓	1	52	1114
		3	1124	2828
SONIC WAVEFORM VARIABLE DENSITY	↓	1	52	1110
		3	1124	2836
DEPTH DERIVED SONIC	↓	1	52	1112
		3	1124	2836
DDBHC WAVEFORM	↓	1	52	1110
		3	1124	2836
FRACTURE IDENTIFICATION	↓	1	60	1122
		3	1124	2843
4 ARM CONTINUOUS DIPMETER	↓	1	60	1122
" " " "		3	1124	2843
CONTINUOUS DIRECTIONAL	↓	1	60	1122
		3	1124	2843
COMPUTED DIRECTIONAL	↓	1	60	1122
		3	1124	2843
CYBERLOOK COMPUTER PROCESSED	↓	1	188	1093
		3	1124	2840
CORIBAND COMPUTER PROCESSED	↓	1	100	1120

## INVENTORY OF PAPER COPY WELL LOGS

Well Name: DETREN #1  
State: TX  
County: DEAF SMITH  
Subcontractor: SWEC

[illegible]

# INVENTORY OF PAPER COPY WELL LOGS

Well Name: DETTON #2

State: TX

County: DEAF SMITH

Subcontractor: SWEC

[illegible]

# INVENTORY OF PAPER COPY WELL LOGS

Well Name: SAWYER #2

State: Tx

County: DONLEY

Subcontractor: SWEC

[illegible]

# INVENTORY OF PAPER COPY WELL LOGS

Well Name: MANFIELD #2

State: TX

County: OLDHAM

Subcontractor: SWEC

[illegible]

## INVENTORY OF PAPER COPY WELL LOGS

Well Name: Rex WHITE #1  
State: TX  
County: RANDALL  
Subcontractor: GRUY FEDERAL

[illegible]

# INVENTORY OF PAPER COPY WELL LOGS

Well Name: GRABBC #1  
State: TX  
County: SWISHER  
Subcontractor: GRAY FEDERAL

[illegible]



Fm J. Trapp -  
logs rec'd  
6/13/84

GEOLOGY

## GEOLOGY

## DCC

**DETTEN #2**

G. FRIEMEL NO. 1

X	Borehole Compensated Sonic	X
X	Compensated Neutron - Litho Density	X
X	Computed Directional	X
X	Continuous Dipmeter 57-1057	X
X	Continuous Dipmeter 1057-2711	X
X	Continuous Directional	X
X	Cyberlook	X

G. FRIEMEL NO. 1 (cont.)

<u>GEOLOGY</u>	<u>LOG TYPE</u>	<u>DCC</u>
X	Coriband - April-82	X
X	Coriband 02-26-82	X
X	Dual Induction SFL	X
X	Dual Laterlog -micro SFL	X
X	Fracture Identification	X
X	Geogram	
X	Natura Gamma	X
X	Proximity Log - microlog	X
X	Repeat Formation Tester	X
X	Sonic Wave Form - Variable Density	X
X	Long Spacing Sonic Wave Form	X
X	Long Spacing Borehole Compensated Sonic	X
X	Temperature	X
X	Well Seismic Report	
X	Pass One LTD	

J. FRIEMEL NO. 1

X	Borehole Compensated Sonic	X
X	Compensated Neutron (2-3)	(2)
X	Compensated Neutron (5-6-7)	(2)
X	Compensated Neutron - Litho Density	X
X	Cement Evaluated Log	X
X	Cyberlook	(2)
X	Continuous Directional	(2)
X	Continuous Dipmeter	(2)
X	Coriband (1)	(2)
X	Coriband (4)	(2)
X	Coriband (9)	(2)
X	Dual Laterlog	(2)
X	Dual Induction - SFL (1-4-9)	(2)
X	Dual Induction - SFL (5-6-7)	(2)
X	4-Arm Caliper (2-3)	(2)
X	4-Arm Caliper (5-6-7)	(2)
X	Field Directional	(2)

## J. FRIEMEL NO. 1(cont.)

<u>GEOLOGY</u>	<u>LOG TYPE</u>	<u>DCC</u>
X	Fracture Identification (1)	X
X	Fracture Identification (3)	X
X	Fracture Identification (4)	X
X	Fracture Identification (9)	X
X	Geogram	X
X	Long Spaced Sonic	X
X	Long Spaced Sonic Digitized Wave Form	X
X	Micro Seismogram	X
X	Natural Gamma	X
X	Proximity Log - Microlog (2)	
X	Sonic Variable Density/Wave Forms	X
X	Temperature (1-4-9)	(2)
X	Temperature (10)	X
X	Well Seismic	X
X	Well Seismic Report	(2)

## GRABBE NO. 1

X	Borehole Compensated Sonic	
X	Compensated Neutron	
X	Compensated Neutron - Formation Density	
X	Dual Induction - SFL	
X	Fracture Identification 88-717	X
X	Fracture Identification 712-4203	
X	Report Formation Tester (one)	
X	Report Formation Tester (two)	

## HARMAN NO. 1

X	Borehole Compensated Sonic	
X	Coriband (Aug 82)	
X	Coriband (Sep 82)	
X	Cyberlook	
X	Continuous Dipmeter	
X	Compensated Neutron - Litho Density	
X	Computed Directional	X

## HARMAN NO. 1 (cont.)

<u>GEOLOGY</u>	<u>LOG TYPE</u>	<u>DCC</u>
X	Dual Induction - SFL	
X	Fracture Identification	
X	Geogram	
X	Natural Gamma	
X	Proximity Log - Microlog	
X	Report Formation Tester	
X	Sonic Wave Form - Variable Density	
X	Temperature	
X	Well Seismic Monitor Log	
X	Well Seismic Report	

## HOLTZCLAW NO. 1

X	Borehole Compensated Sonic (100-1680, 1500-2863)	(2)
X	Borehole Compensated Sonic (1100-2877)	(2)
X	Compensated Neutron - Litho Density	(2)
X	Continuous Dipmeter	(2)
X	Coriband 60-1672	(2)
X	Cyberlook	(2)
X	Digital Sonic Wave Form	(2)
X	Directional Log	(2)
X	Dual Later Log - micro - SFL	(2)
X	Fracture Identification Log (one)	(2)
X	Fracture Identification (two)	(2)
X	Geogram	(2)
X	Long Spacing Sonic	(2)
X	Long Spacing Sonic - Digitized Wave Forms	(2)
X	Natural Gamma Ray -	(2)
X	Report Formation Tester (one)	(2)
X	Sonic Wave Form - Variable Density	(2)
X	Shdt Caliper Log/Gamma Ray	(2)
X	Report Formation Tester (two)	(2)
X	Temperature	(2)
X	Well Seismic Monitor Log	(3)
X	Well Seismic Report	(2)

## MANSFIELD NO. 1

<u>GEOLOGY</u>	<u>LOG TYPE</u>	<u>DCC</u>
X	Borehole Compensated Sonic (1-2-3)	X
X	Borehole Compensated Sonic (4)	
	Borehole Compensated Sonic (1)	X
	Borehole Compensated Sonic (2)	X
	Borehole Compensated Sonic (Field)	X
X	Cement Bond Log - Variable Density (1)	X
X	Cement Bond Log - (2)	
X	Compensated Neutron - Formation Density (1-2-3)	X
X	Compensated Neutron - Formation Density (4)	
	Compensated Neutron - Formation Density (1)	X
	Compensated Neutron - Formation Density (2)	X
X	Continuous Dipmeter (1-2-3)	X
X	Continuous Dipmeter (4)	X
	Continuous Dipmeter (1)	X
	Continuous Dipmeter (2)	X
	Continuous Dipmeter (Field Log)	X
X	Continuous Directional	X
X	Coriband 11-15-81	X
X	Coriband 1-5-82	X
X	Coriband 2-14-82	X
X	Coriband 15-3-83	
X	Coriband 7-6-82	
X	Dual LaterLog (1-2-3)	X
	Dual LaterLog (1)	X
	Dual LaterLog (2)	X
	Dual LaterLog (Field)	X
X	Dual Induction SFL	
	FDC/CNL Porosity (Field)	X
X	Cyberlook (1-2-3)	X
X	Cyberlook (4)	
	Cyberlook (1)	X
	Cyberlook (2)	X
	Cyberlook (Field)	X

## MANSFIELD NO. 1(cont.)

<u>GEOLOGY</u>	<u>LOG TYPE</u>	<u>DCC</u>
X	Dual Spacing Thermal Neutron Decay (1)	
X	Dual Spacing Thermal Neutron Decay (2)	
X	Fracture Identification (1-2-3)	X
	Fracture Identification (1)	X
	Fracture Identification (2)	X
	Fracture Identification (Field)	X
X	Proximity Log - Microlog	(2)
X	Report Formation Tester	(2)
X	Sonic Wave Form - Variable Density (1-2-3)	X
	Sonic Wave Form - Variable Density (1)	X
	Sonic Wave Form - Variable Density (2)	X
X	Temperature (1-2-3)	X
	Temperature (1)	X
	Temperature (2)	X
	Temperature (Field)	X
X	True Vertical Depth	X

## MANSFIELD NO. 2

X	Cement Bond - Variable Density
X	Compensated Neutron - Litho Density
X	Cyberlook
X	Dual Induction - SFL
X	Gamma Ray

## REX WHITE NO. 1

X	Borehole Compensated Sonic
X	Compensated Neutron - Formation Density
X	Dual Induction - SFL
X	Fracture Identification Log (98-552)
X	Fracture Identification (548-3999)
X	Report Formation Tester (1)
X	Report Formation Tester (2)

## SAWYER NO. 1

<u>GEOLOGY</u>	<u>LOG TYPE</u>	<u>DCC</u>
X	Borehole Compensated Sonic	(3)
	Borehole Compensated Sonic	X
	Borehole Compensated Sonic	X
X	Cement Bond - Variable Density (1)	(3)
X	Cement Bond - VD (2)	(2)
X	Cement Bond - VD (3)	(2)
X	Cement Bond - VD (4)	(2)
X	Compensated Neutron - Foramtion Density (1-2-3-4)	(4)
	Compensated Neutron - Formation Density (Field)	X
	Compensated Neutron - FD (1)	
	Compensated Neutron - FD (2)	
X	Continuous Dipmeter (1)	(3)
X	Continuous Dipmeter (3)	(3)
X	Continuous Directional	(3)
X	Cyberlook	(2)
X	Coriband	
X	Dual Induction - SFL 63-331	(5)
X	Dual Induction - SFL 3939-4800	(3)
X	Dual Laterlog	(4)
X	Fracture Identification (1-2)	(3)
	Fracture Identification (1)	X
	Fracture Identification (3)	X
1	Proximity Log - Microlog	(5)
X	Sonic Wave Form - Variable Density (1)	(3)
X	Sonic Wave Form - Variable Density (3)	(3)
X	Sonic Wave Form	(4)
X	Temperature	(5)
X	Variable Density (1)	X
X	Variable Density (2)	
X	Variable Density (3)	X

## SAWYER NO. 2

X	Cement Bond
X	Compensated Density - Neutron
X	Dual Induction LaterLog
X	Gamma Ray

## ZEECK NO. 1

<u>GEOLOGY</u>	<u>LOG TYPE</u>	<u>DCC</u>
X	Borehole Compensated Sonic	X
X	Cement Bond Log - VD -6R	X
X	Cement Bond - VD	
X	Cement Bond Log (Following Squeeze)	
X	Compensated Neutron	X
X	Compensated Neutron - Litho Density	X
X	Continuous Dipmeter 29-1025	X
X	Continuous Dipmeter 1017-5196	X
X	Continuous Dipmeter 5200-7644	X
X	Coriband 160-1000	X
X	Coriband 1020-5160	X
X	Coriband 5160-7620	(2)
X	Cyberlook	X
X	Directional Log	X
X	Dual LaterLog - Micro - SFL (1-4-6)	(2)
X	Dual LaterLog - Micro - SFL (2-3-5)	X
X	Field Computed Directional	X
X	Four Arm Caliper (2-3-5)	(2)
X	Four Arm Caliper (6)	X
X	Fracture Identification (1)	X
X	Fracture Identification (4)	(2)
X	Fracture Identification (6)	(3)
X	Geogram 4/9/83	
X	Geogram 8/6/82	X
X	Natural Gamma Ray Spectroscopic	(2)
X	Proximity Log - Microlog	X
X	Report Formation Tester	X
X	Temperature (1)	X
X	Temperature (1-4-6)	(2)
X	TDT - GR	
X	Sonic Wave Form - Variable Density	X
X	Well Seismic Monitor Log (6)	X
X	Well Seismic Monitor Log (7)	(2)
X	Well Seismic Report	(3)



Document Name:  
JT/85/05/07

Requestor's ID:  
DEBW

Author's Name:  
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Document Comments: