



I+E *SUB-1010-1*
Doc 118
46-5027
KERR-MCGEE NUCLEAR CORPORATION

KERR-MCGEE CENTER • OKLAHOMA CITY, OKLAHOMA 73125

May 31, 1977



CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. J. E. Rothfleisch
Fuel Processing and Fabrication Branch
Division of Fuel Cycle and Material Safety
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Rothfleisch:

Please refer to our transmittal of January 11, 1977, concerning leakage of raffinate pond #2, in which we stated our intention to plug back several existing monitor wells surrounding pond #2.

This is to inform you that well modifications were made during the period 3-28-77 thru 4-5-77. Attached are four copies each of a revised monitor well location map and well summary table. Monitoring of all wells will continue at the specified frequency with a summary of 1977 data to be issued next January.

A copy of this transmittal has been forwarded directly to Dr. D. L. Warner in Rolla, Missouri. Please let us know if you have any further questions.

Very truly yours,

W. J. Shelley
W. J. Shelley, Director
Regulation and Control

WJS:ml

Attachment

8510010242 850829
PDR FOIA
BARNES85-529 FDR

B/37

Sequoyah Facility - Raffinate Pond #2 Monitor Wells

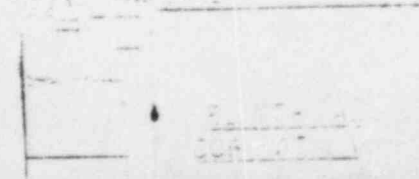
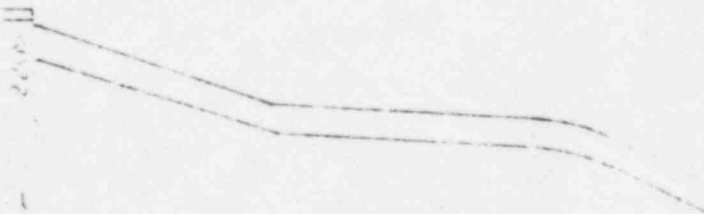
Well No.	Total Depth (Ft.)	Plug Back Depth (Ft.)	(Date)	Casing		Completion	Measuring Point Elev. (Ft., MSL)	See Notes
				Depth (Ft.)	Dia. (in.)			
M - 1	27.6			5.0	6	Set	528.6	1
M - 2	26.5			5.0	6	Set	533.2	1
M - 3	26.3			5.0	6	Set	536.4	1
M - 4	26.8			5.0	6	Set	536.0	1
T - 1	43.9	23.8	4/1/77	5.0	6	Cemented	539.1	
T - 2	42.8	22.1	4/1/77	5.0	6	Cemented	540.8	
T - 3	25.3	0	11/1/76					2
T - 4	42.8	23.2	3/30/77	5.0	6	Cemented	541.1	
T - 5	42.1	24.7	3/30/77	5.0	6	Cemented	539.1	
2303	38.6	23.6	10/28/76	9.0	6	Cemented	546.0	
2305	28.2			28.2	6	Slotted bottom	549.0	
2310	39.2	26.5	10/22/76	5.0	6	Cemented	536.0	
2311	42.3	23.2	3/28/77	6.0	6	Cemented	531.9	
2312	60.4	22.7	10/25/76	4.0	6	Cemented	527.5	
2313	41.6	22.8	3/31/77	6.0	6	Cemented	536.8	
2314	40.0	26.1	10/27/76	4.0	6	Cemented	539.3	
2317	36.7	22.0	3/29/77	6.0	6	Cemented	528.9	
2318	40.9	22.9	3/31/77	6.0	6	Cemented	532.0	
2319	42.2	23.9	4/1/77	5.0	6	Cemented	539.1	
ED-1	49.0			35.0	6	Cemented	538.0	
ED-2	51.0	0	3/30/77					
ED-3	49.0	0	3/31/77					
ED-4	51.0	0	3/31/77					
ED-5	49.5	26.3	3/31/77	6.0	6	Cemented	527.6	
ED-6	51.0	25.3	3/31/77	6.0	6	Cemented	524.7	
ED-7	40.0	0	4/4/77					2
ED-8	47.2			36.0	6	Cemented	536.6	
ED-9	51.0	0	11/1/76					
ED-10	49.8			35.0	6	Cemented	524.4	
ED-11	41.1			31.0	6	Cemented	527.5	3


1. Well deepened 5 ft., 10/20/76.

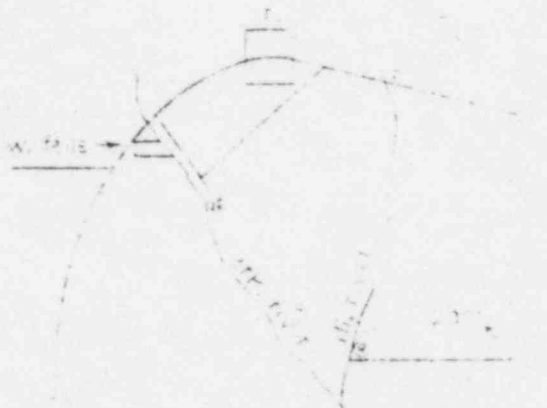
2. Cave-in; well cleaned out, plugged and abandoned.

3. Replacement well drilled 10 ft. due south of ED-7, 4/4/77.

1970 →



- 
- ① 8 INCH SLOPE DOWN
 - ② GALE FILTER BACK FILL
 - ③ WATER SCHEDULE 80
 - ④ 1/2 IN. STEEL PIPE
 - ⑤ 1/2 IN. STEEL PIPE
 - ⑥ RAIN WATER
 - ⑦ 1/2 IN. YELLOWCAKE 1/2 IN. SLOPE
 - ⑧ 1/2 IN. YELLOWCAKE 1/2 IN. SLOPE
 - ⑨ GROUP DRAINS
 - ⑩ FIRE WATER SYSTEM DRAIN
 - ⑪ HOTWELL VENT CATCHER DRAIN
 - ⑫ DRAIN FILL 1/2 IN. SLOPE
 - ⑬ AREA ZONES

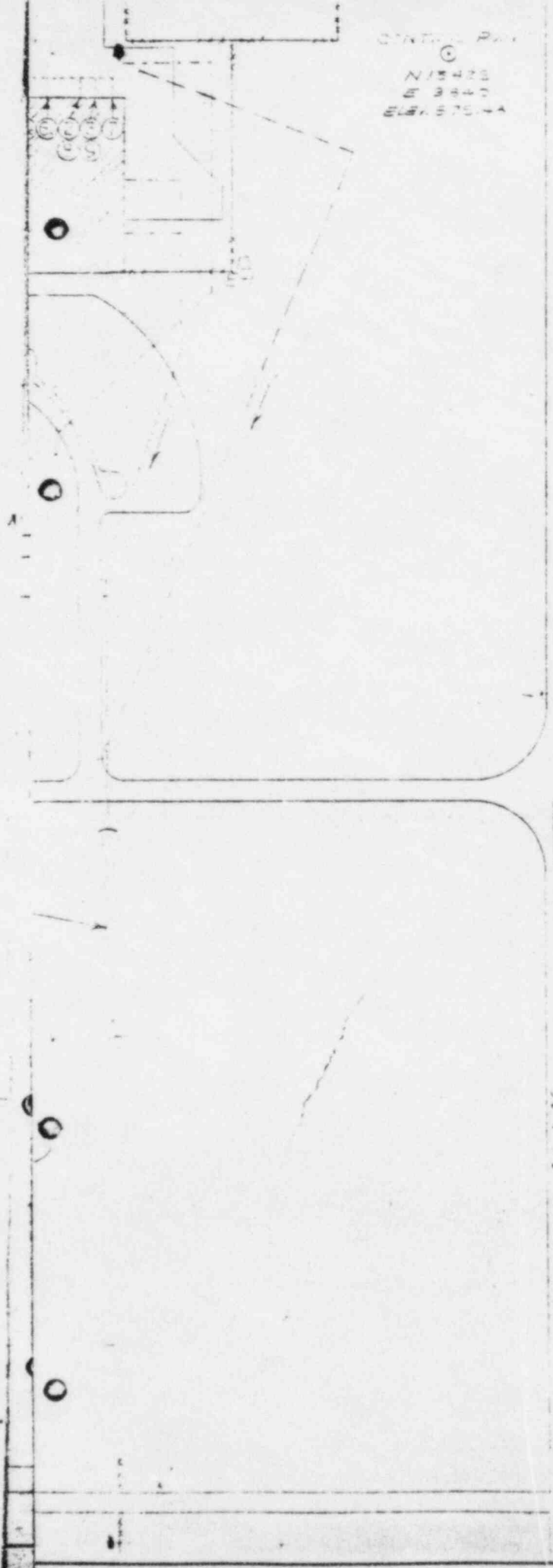


05500

2105

TION		BY	DATE	APPR.	KERR-McGEE CORPORATION		OKLAHOMA CITY, OKLA.
WE 572		T 8-20-78			NUCLEAR DIVISION		SCALE
TOP WELLS		-			DATE		
LLC					APPROVED		DRAWING NUMBER
							100-M-651

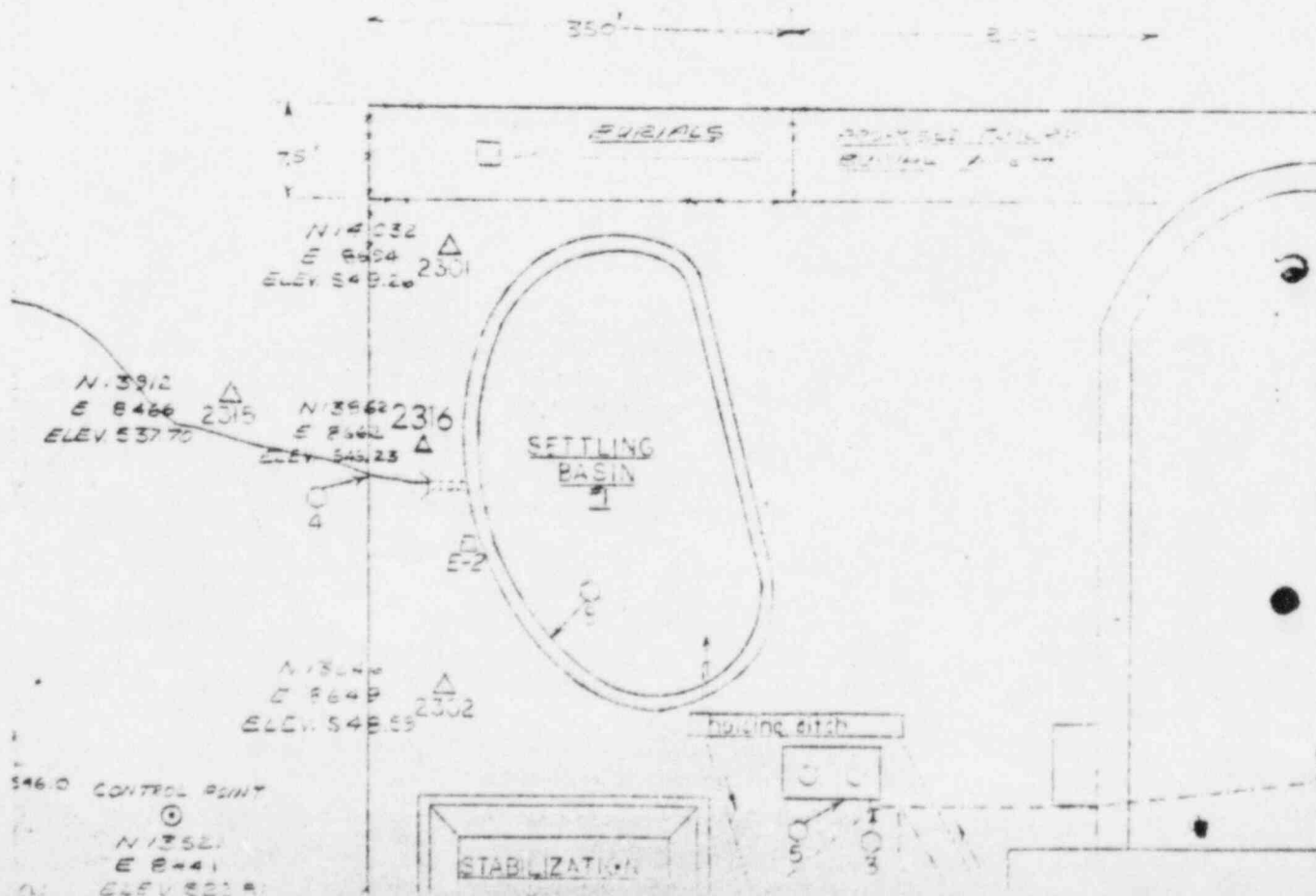
CONTROL POINT
 N 13428
 E 3840
 ELEV 575.44



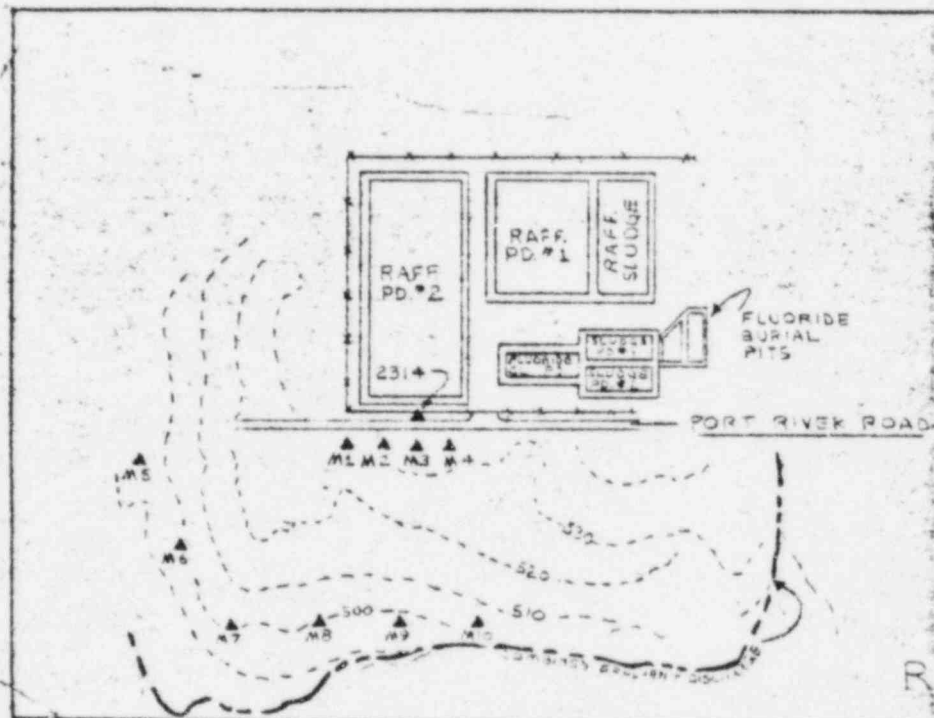
TO F40

REV.	NO.	DATE
1	1	12/1/50
2	2	12/1/50
3	3	12/1/50
4	4	12/1/50
5	5	12/1/50

2505

20 FT

71-11-001



M▲ SEEPAGE MONITOR WELLS DRILLED 6-3-74 SCALE 1 IN.

WELL MODIFICATIONS FOR 9-30-75 TO 1-4-76 OR LATER	
WELL NO.	MODIFICATION
M1	INCREASED DEPTH BY 5 FT.
M2	" " " "
M3	" " " "
M4	" " " "
2314	CASING PULLED, REAMED, FILLED WITH CEMENT TO
2312	LEAVE HOLE, 26 FT DEEP
2310	" " " "
2303	" " " "
ED 9	PLUGGED
T3	PLUGGED
ED 3, 4, 7	PLUGGED AS PER 3-30-77 TO 4-5-77

NATURAL DRAINAGE TO ILLINOIS RIVER

FOR CEMENT
N 2547
* 67501

N13531
S 7735

ED 9
N13537
S 7735

ED 9
N13498
S 7735
EL. GR. 546.0

N13487
S 7735

ED 9
N13487
S 7735

N13430
E 7483
ELEV. 531.98
2311

N13294
E 7495
ELEV. 528.75
2317

N13149 2316
E 7437
ELEV. 527.0
ED7
N13133
E 7485
ELEV. 527.3
ED11
N13125
E 7314
ELEV. 527.6

N13011
E 7467
ELEV. 532.04
2318

N12770
E 7429
ELEV. 536.30
2313

N13428
E 7598

RAFFINATE
POND
#2

N12857
E 7922
ELEV. 542.05
2308

RAFFINATE
POND

FLUORIDE
CARBIDE
POND

MISSISSIPPI RIVER

2201

ED4
N12612
E 7563
ELEV. 530.0

N12665
E 7524
ELEV. 539.09

ED3
N12604
E 7694
ELEV. 535.1

ED2
N12403
E 7923
ELEV. 537.1

ED1
N12658
E 7765
ELEV. 539.0

N12675
E 8107
ELEV. 539.22
2306

SYMBOLS

- △ SEEPAGE WELL
- LIQUID EFFLUENT SAMPLE POINT
- LIQUID EFFLUENT DRAIN LINE
- RAW WATER DRAIN LINE
- DRAINAGE DITCH
- RAINWATER DRAIN
- △ ENVIRONMENTAL AIR SAMPLE
- SURFACE WATER SAMPLE
- ⊠ SOIL SAMPLE
- ▲ VEGETATION SAMPLE

--- UNDERGROUND WATER DRAIN

■ ED SERIES SEEPAGE WELLS DRILLED 9-30-76 TO 11-4-76

T WELLS SEE DRAWING MC-1001

WELL NO.	CG	ELEVATION
T1	N12661 E 7705	539.09
T2	N12666 E 7745	540.77
T3	N12667 E 7765	540.25
T4	N12668 E 7781	541.13
T5	N12665 E 7758	539.31

