

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL       DEEPEN       PLUG BACK

b. TYPE OF WELL  
 OIL WELL       GAS WELL       OTHER       SINGLE ZONE       MULTIPLE ZONE

2. NAME OF OPERATOR  
 SUPERIOR OIL COMPANY

3. ADDRESS OF OPERATOR  
 P. O. DRAWER 'G', Cortez, CO 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface: 925' FWL, 852' FNL of SEC. 13  
 At proposed prod. zone: Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 3 miles W-NW of Aneth, Utah

10. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
 852'

16. NO. OF ACRES IN LEASE  
 1120

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 40

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
 1320'

19. PROPOSED DEPTH  
 5480'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 Ungraded GL: 4442

22. APPROX. DATE WORK WILL START\*  
 September 25, 1984

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13-3/8"	54.5# K-55	100'	150 sx cmt to surface
12 1/2"	9-5/8"	36# K-55	1250'	750 sx cmt to surface
8-3/4"	7"	23# K-55	5480'	500 sx cmt or sufficient to cover zones of interest

Superior Oil proposes to drill the subject well and complete the Ismay and/ or Desert Creek formations.

RECEIVED

SEP 14 1984

DIVISION OF OIL GAS & MINING

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING  
 DATE: 9/17/84  
 BY: John R. Bays

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

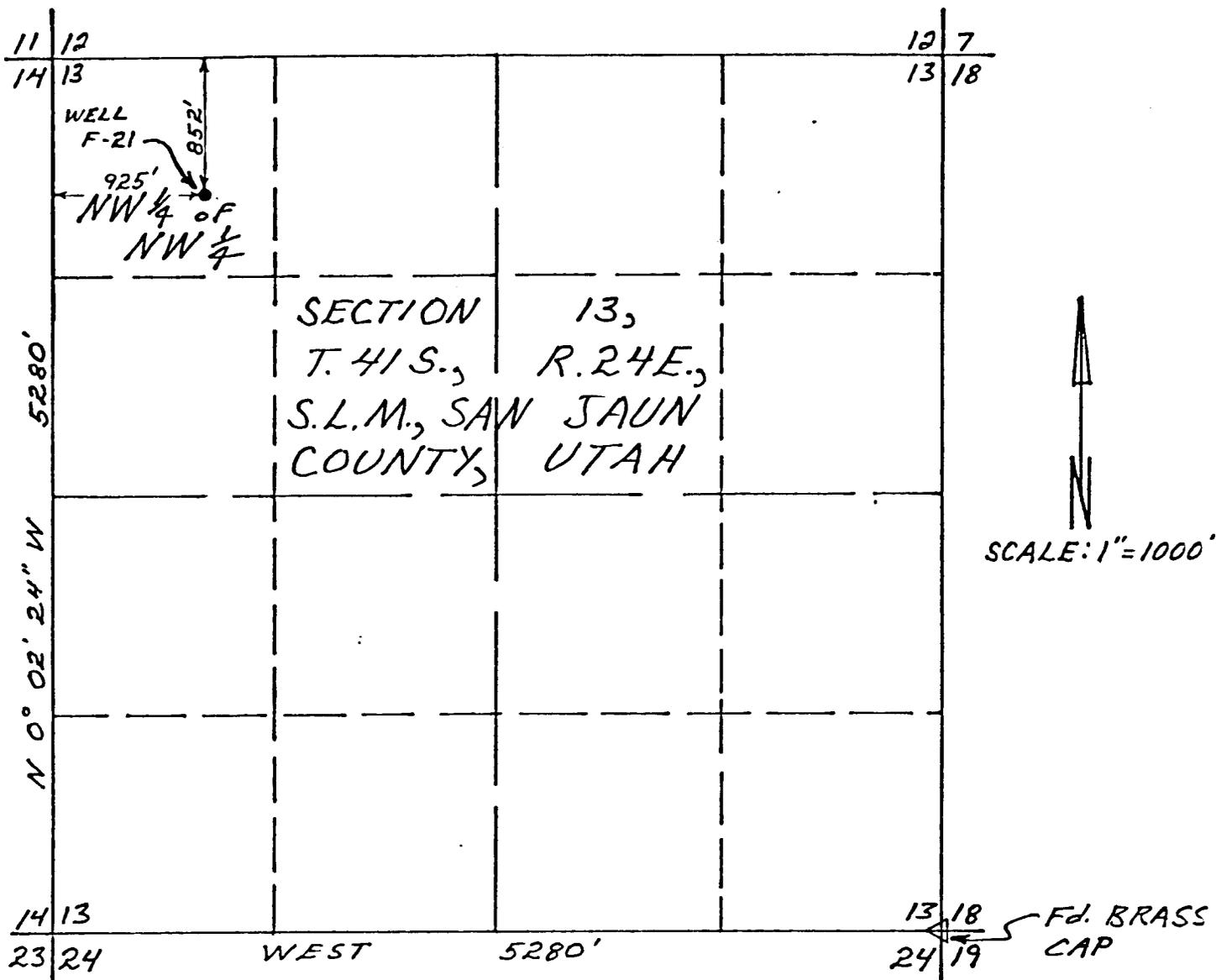
24. SIGNED Roberto Dentice TITLE Engineer DATE 08/09/84  
 (This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

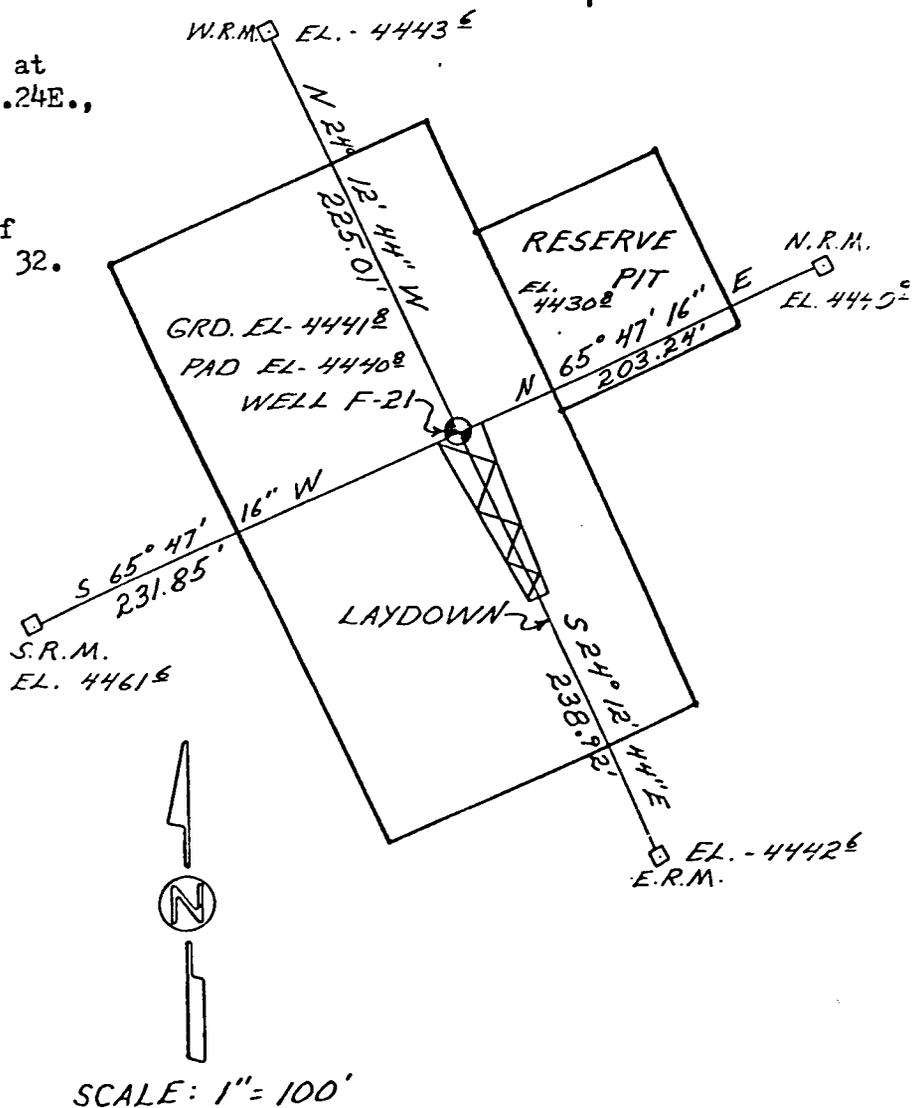
\*See Instructions On Reverse Side

# SUPERIOR OIL COMPANY - WELL F-21



Elevations based on USGS map elevation at the NE corner of Section 24, T.41S., R.24E., Elevation - 4481.0

Basis of bearings is the South line of T.40 S., R. 25E., from the SW corner of Section 31 to the SE corner of Section 32. ie. East - 10,548.43'



**FOUR CORNERS SURVEYING**  
**21283 COUNTY ROAD P**  
**CORTEZ, COLORADO 81321**  
**303-565-4894**

SUPPLEMENT TO FORM 3160-3

WELL: McElmo Creek Unit #F-21

ELEVATION: 4442' ungraded ground level.

SURFACE FORMATION: Dakota

ESTIMATED FORMATION TOPS:

<u>Formation</u>	<u>Top</u>
Chinle	1185'
DeChelly	2335'
Organ Rock	2508'
Hermosa	4272'
Ismay	5105'
Lower Ismay	5210'
Gothic Shale	5245'
Desert Creek	5255'
Chimney Rock Shale	5428'
TD	5480'

WATER BEARING FORMATION: Fresh water is expected to be encountered intermittently from 100' to 1185'

HYDROCARBON BEARING FORMATION: Oil & gas could be encountered in the Ismay and Desert Creek from 5105' to 5428'.

MUD PROGRAM:

Surface to 100' - spud mud.

100' to 1250' - fresh water.

1250' to 2200' - fresh water/gel/polymer.

2200' to 5000' - lignosulfonate mud system 100' above DeChelly.

5000' to TD - lignosulfonate mud system. Water loss controlled to 15 cc or less and weighted with barite as necessary.

CASING PROGRAM:

	<u>Depth</u>	<u>Size</u>	<u>O. D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Type</u>
Conductor	0-100'	17-1/2"	13-3/8"	54.5#	K-55	ST&C
Surface	0-1250'	12-1/4"	9-5/8"	36#	K-55	ST&C
Production	0-5480'	8-3/4"	7"	23#	K-55	ST&C

ALL CASING WILL BE NEW.

(2)

CEMENT PROGRAM:

Conductor - cement to surface w/ 150 sx Class 'B'  
+ 2% CaCl.

Surface - cement to surface w/ 600 sx Lite + 10#/sk  
Gilsonite + .4% LoDense + 5#/sk LCM &  
150 sx Class 'B' + 2% CaCl.

Production - 500 sx Class 'B' + 1.7% D-29 (anti-  
migration additive) + .3% R-5 (re-  
tarder). Est TOC: 4600'.

PRESSURE CONTROLS:

Blowout preventer equipment will be 10" Series  
900 (3000 psig working pressure) with blind rams  
and drill pipe rams hydraulically and manually  
controlled. The BOP's will be tested to 1500 psig  
and actuated daily to insure proper functioning.  
The schematic of the pressure control equipment can  
be seen on the attached diagram.

LOGGING PROGRAM:

DIL/SFL: TD to 1250'.

CNL/FDC: TD to 3480'.

MICROLOG: TD to 3480'.

HIGH PRESSURE AND/OR H<sub>2</sub>S GAS: High pressure gas or gas containing detectable  
H<sub>2</sub>S are not anticipated while drilling  
this well.

DRILL STEM TESTS:

None.

CORING:

None.

ANTICIPATED STARTING DATE: September 25, 1984

# **SUPERIOR OIL**

August 30, 1984

Mr. Mat N. Millenbach  
Area Manager  
U. S. Department of Interior  
Bureau of Land Management  
Caller Service 4104  
Farmington, New Mexico 87499

Re: Surface Use Development Plan  
Proposed Well  
McElmo Creek Unit #F-21  
852' FNL, 925' FWL  
NWNW Section 13, T41S, R24E  
San Juan County, Utah

Gentlemen:

We submit this Surface Use Development Plan with the APD, Form 3160-3, for the above referenced well and the plan is as follows:

1. To reach the location start in Montezuma Creek, Utah and go .7 mile south and across the San Juan River on paved County Road 409 to the junction of County Road 409 and County Road 406; then go east 1.2 miles on County Road 406 to the junction of County Road 406 and County Road 457; then turn left and to 4.0 miles to the start of the access road to the location.
2. An access road of approximately 700' will be constructed from the existing McElmo Creek Unit Well G-21.
3. Attached is Plat #3 showing existing wells in the area as our information shows it.
4. Superior has production facilities within 2000' of the well location and pipelines will be constructed to the well. An electrical powerline will be constructed adjacent and parallel to the pipelines from the existing powerline serving well G-21A to the new well.

5. Location and type of water supply will be from Superior's McElmo Creek Unit fresh water supply wells near the San Juan River (SW-1/2 Section 17, T41S, R25E SLM). Water will be trucked to the location over existing road and access road to be built.
6. All construction material necessary to build the drilling pad will be obtained from the location and access road. Graveling of the access and/or existing road may be necessary for the drilling of this well. Drainage, if any, will be diverted around the location. If gravel is needed to maintain access road or top off drilling pad, it will be obtained and transported from a privately owned pit .25 mile west of Montezuma Creek. The alternative will be to obtain capping material close to the location.
7. Methods of handling waste disposals are as follows:
  - A. A trash or burn pit, an earthen pit 6 to 8 feet deep with steep sides and mesh wire fencing, will be constructed in the northwest corner of the reserve mud pits.
  - B. The reserve mud pits will be located on east side of the location for the drilling mud, cutting, and fluids. The reserve pit will be fenced on three sides away from the pad while drilling and the fourth side will be fenced as soon as the drilling rig moves out. When drilling operations are complete, the reserve pit will be allowed to dry naturally and then be backfilled, leveled and contoured to the original landscape as much as possible.
  - C. Chemical toilets, meeting OSHA approval, will be provided and maintained during drilling operations.
8. The support facilities consisting of two small mobile homes for use by supervisory personnel of Superior and the drilling contractor will be parked on the west edge of location as shown on the attached Plat #4 during drilling operations. No additional or other ancillary facilities is anticipated at this time.
9. A plat of the proposed drill pad and its location relative to topographic features is attached (see Plat #2). Diagrams showing cross section of cuts and fills, site organization, and drilling rig orientation are contained in Plat #4 and #6.
10. Upon completion of the drilling operations and if the well is deemed dry, then the location and the access road will be cleaned and restored to the original topographical contours as much as possible and reseeded in accordance with the requirements and stipulations of the Bureau of Indian Affairs.

# **SUPERIOR OIL**

Page 3

11. The land at the location and all the land crossed by the access road to be constructed is Navajo Tribal Lands and managed by the Bureau of Indian Affairs.
12. Any additional questions, requests and/or anticipated developments will be channeled through the appropriate individuals of the BLM & BIA. Superior Oil has not selected a drilling contractor at this time. All dirt contractors bidding for the location construction were in attendance during the pre-drill site inspection.
13. As for the contacts with Superior Oil, the following are company and contract representatives:

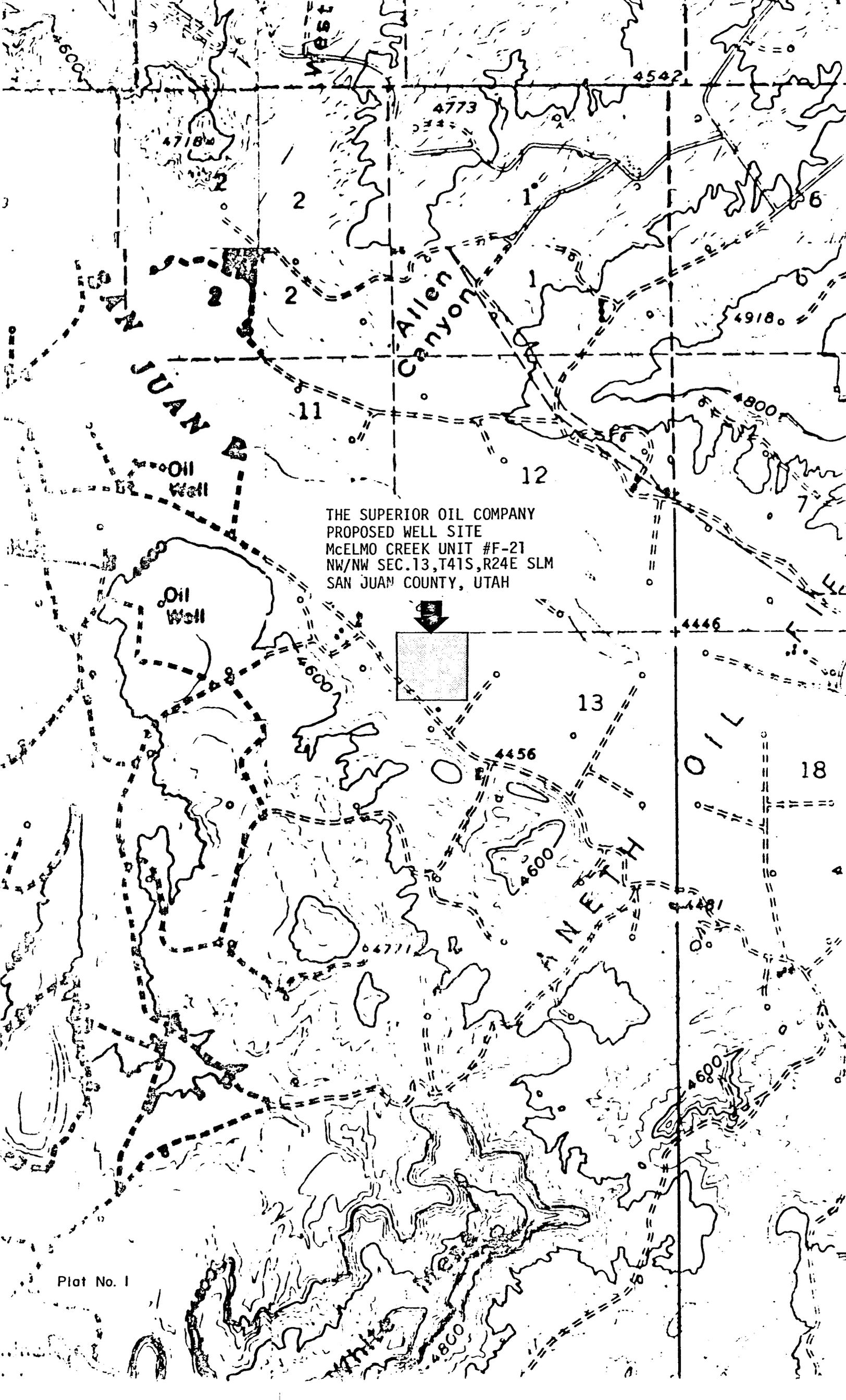
Permitting - C. J. Benally  
Construction - C. D. Likes  
Drilling - J. E. Gagneaux  
Mailing Address - P. O. Drawer 'G'  
Cortez, Colorado 81321  
Telephone - 303-565-3733 (24 hrs)  
Dirt Contractor - Not yet determined.  
Drilling Contractor - Not yet determined.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Superior Oil Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. The statement is subject to the provision of 18 U.S.C. 1001 for the filing of a false statement.

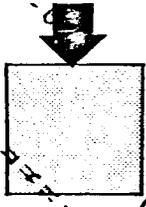
SUPERIOR OIL COMPANY

  
C. J. Benally  
Environmental Coordinator

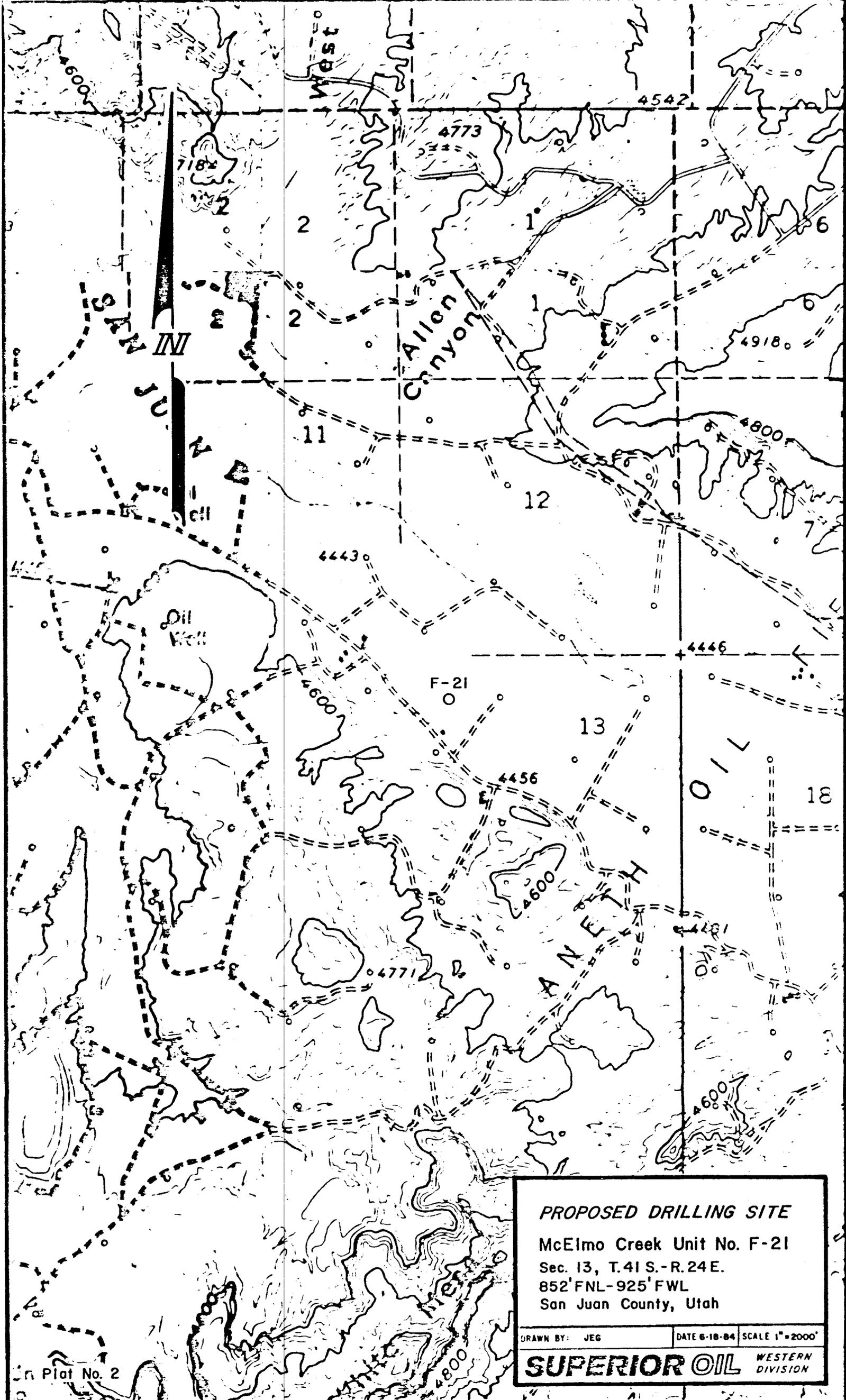
CJB/1h



THE SUPERIOR OIL COMPANY  
PROPOSED WELL SITE  
McELMO CREEK UNIT #F-21  
NW/NW SEC. 13, T41S, R24E SLM  
SAN JUAN COUNTY, UTAH



Plat No. 1

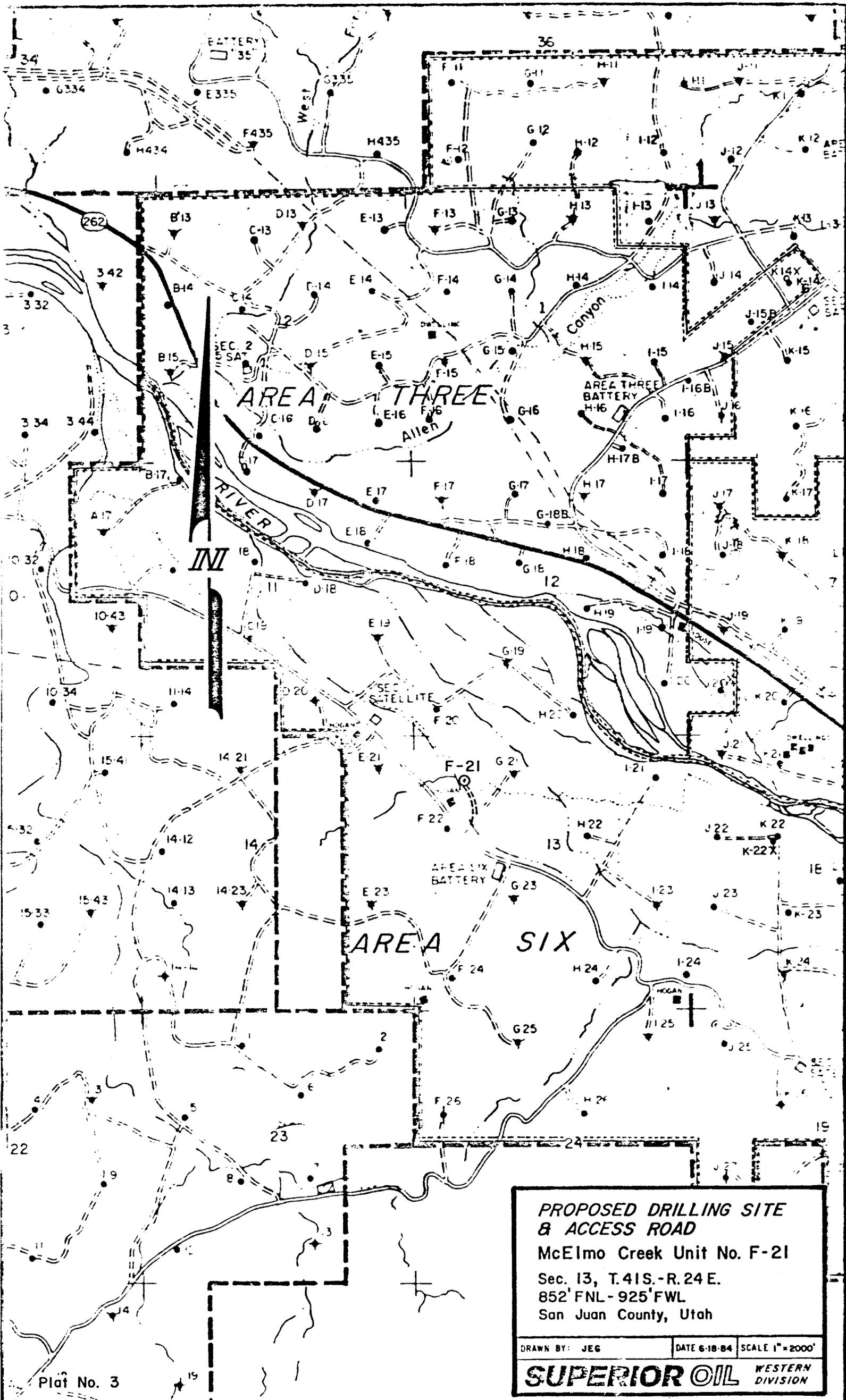


**PROPOSED DRILLING SITE**

McElmo Creek Unit No. F-21  
Sec. 13, T.41 S.-R.24 E.  
852' FNL-925' FWL  
San Juan County, Utah

DRAWN BY: JEG      DATE 6-18-84      SCALE 1"=2000'

**SUPERIOR OIL**      WESTERN DIVISION



AREA THREE

AREA SIX

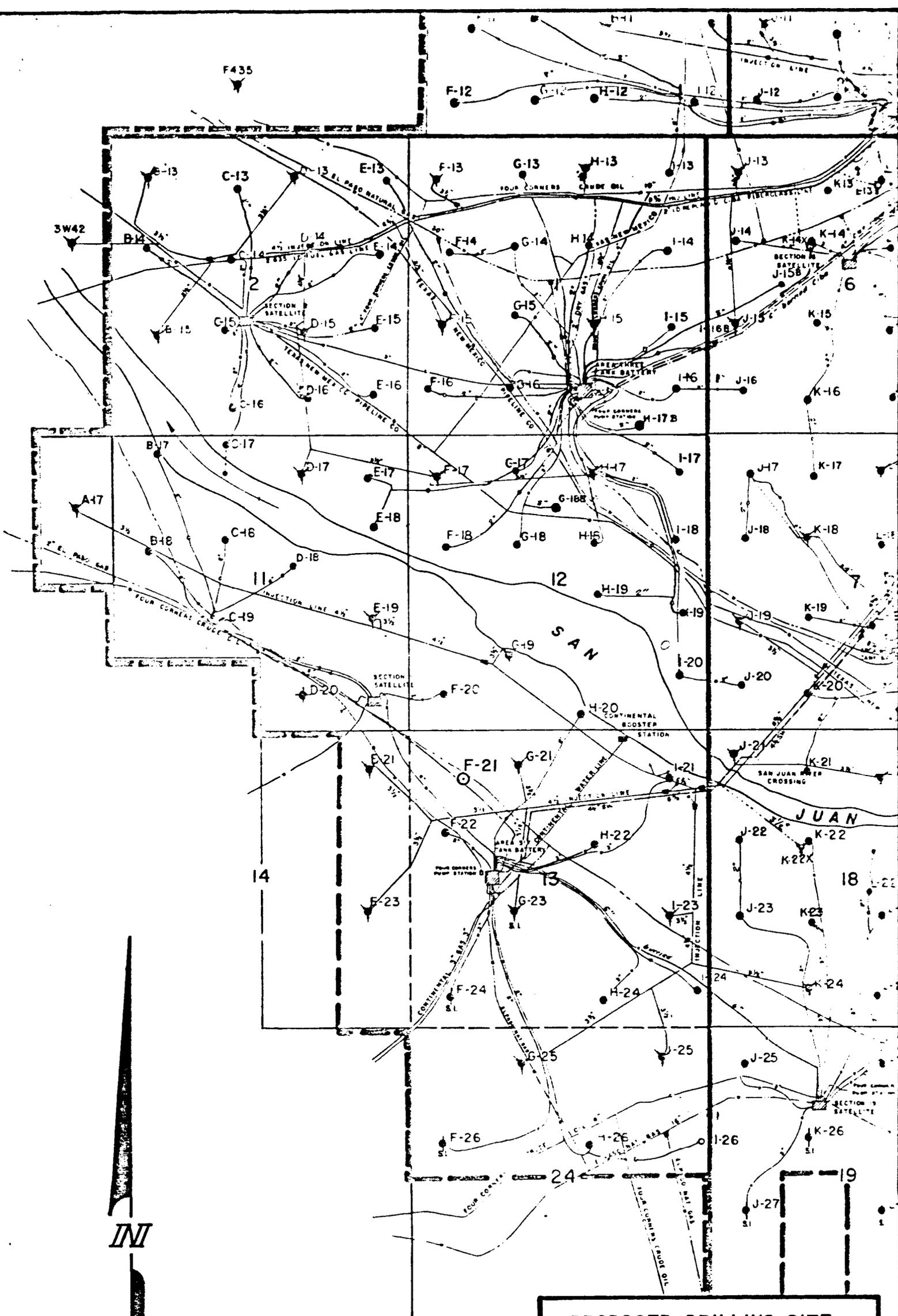
**PROPOSED DRILLING SITE  
& ACCESS ROAD**

McElmo Creek Unit No. F-21  
 Sec. 13, T.41S.-R.24E.  
 852' FNL - 925' FWL  
 San Juan County, Utah

DRAWN BY: JEG      DATE 6-18-84      SCALE 1" = 2000'

**SUPERIOR OIL** WESTERN DIVISION

Plat No. 3

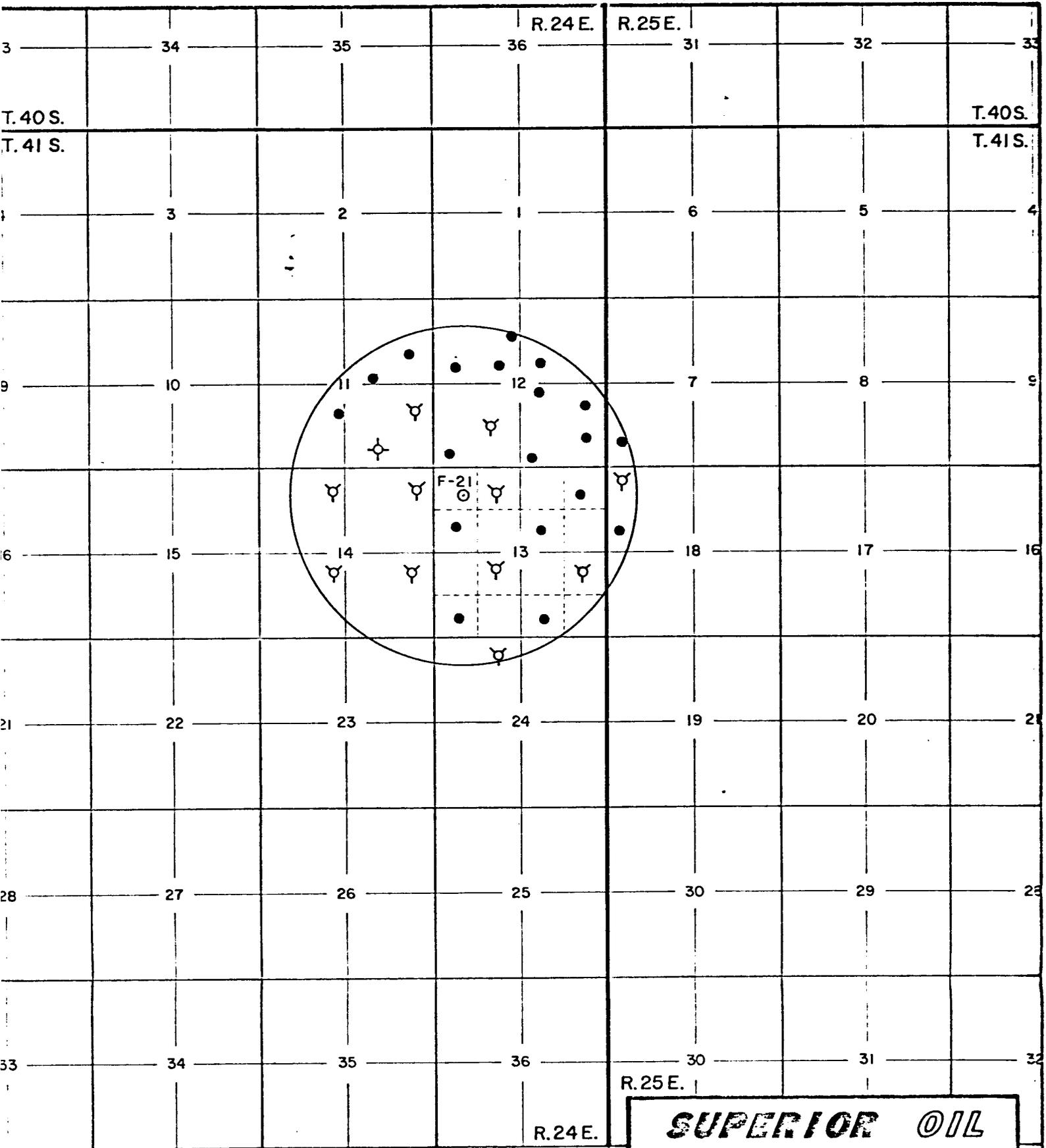


**PROPOSED DRILLING SITE  
& FLOWLINE**  
 McElmo Creek Unit No. F-21  
 Sec. 13, T. 41 S. - R. 24 E.  
 852' FNL - 925' FWL  
 San Juan County, Utah

DRAWN BY: JEG      DATE 6-18-84      SCALE 1" = 2000'

**SUPERIOR OIL**      WESTERN DIVISION

**R 24 E**



Plat No. 5

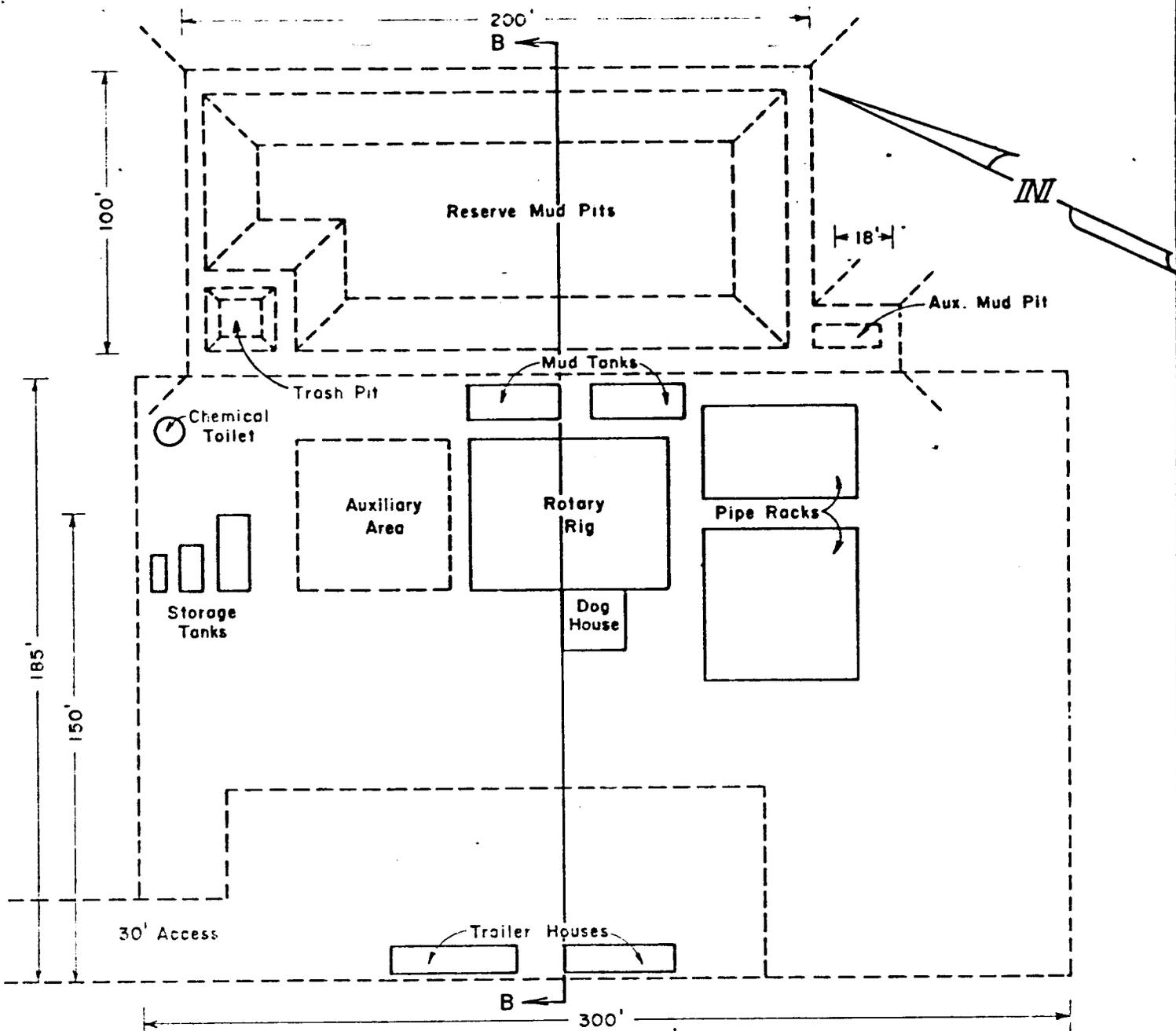
- Proposed Well
- Producing Well
- ⊗ Gas Well
- ⊥ Water Injection Well
- ⊓ Temporarily Abandoned
- ⊕ Plugged and Abandoned

**SUPERIOR OIL**

EXISTING WELLS  
SURROUNDING  
PROPOSED WELL

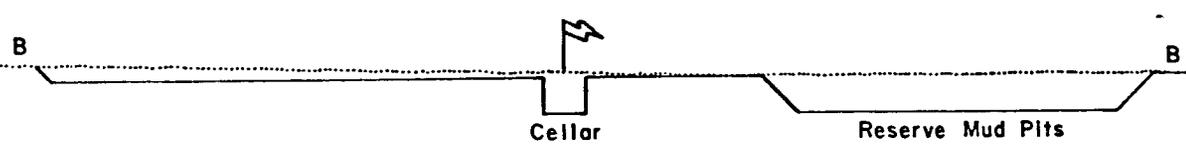
0      1/2      1 mile

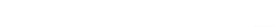
By: JEG      Date 6-13-84



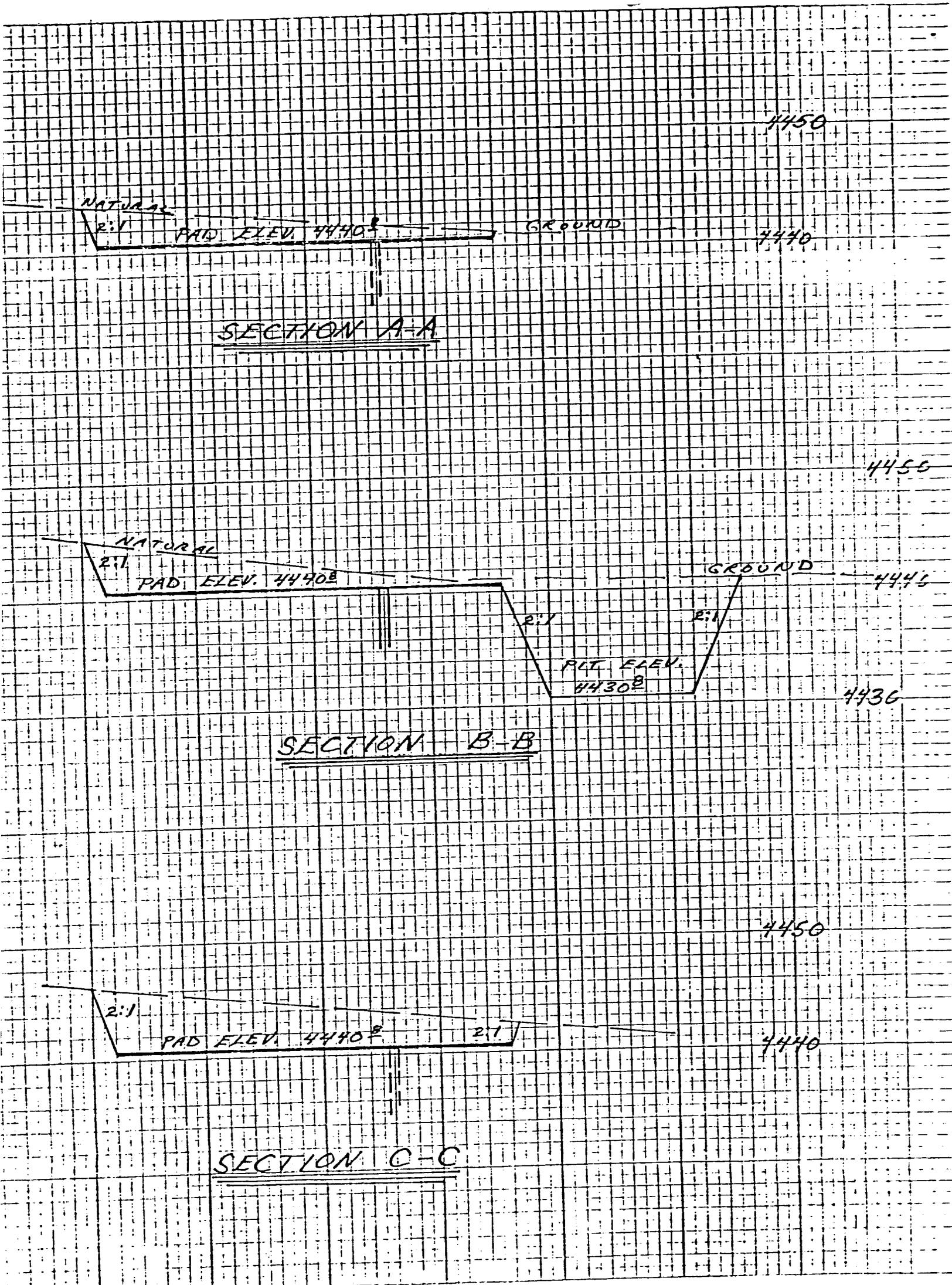
*The Drilling Pad will be graded and compacted, and composed of native materials.*

PROPOSED WELL SITE  
 M.C.U. F-21  
 Original Elev. 4441.8'



Original Contour   
 Reference Point   
 Graded Proposal 

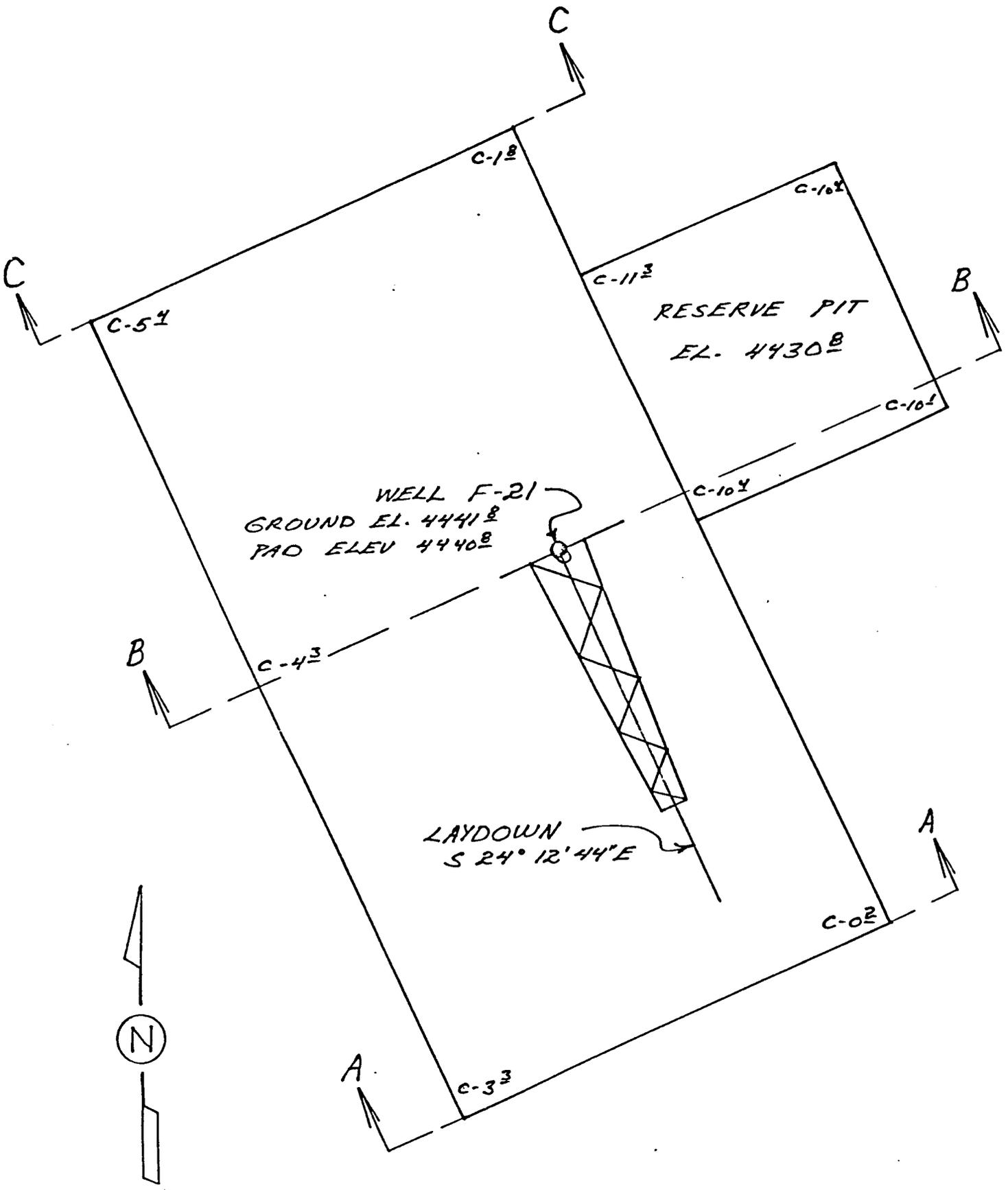
**THE SUPERIOR OIL CO.**   
 CORTEZ - CASPER DISTRICT  
 ENGINEERING DEPARTMENT  
**RIG LAYOUT & DRILL  
 PAD CROSS SECTION**  
 McElmo Creek Unit No. F-21  
 Sec. 13, T.41S. - R.24 E.  
 San Juan County, Utah  
 BY JEG DATE 6/19/84  
 SCALE 1" = 50' REVISED



SCALE: HORIZ. 1" = 50'  
VERT 1" = 10'

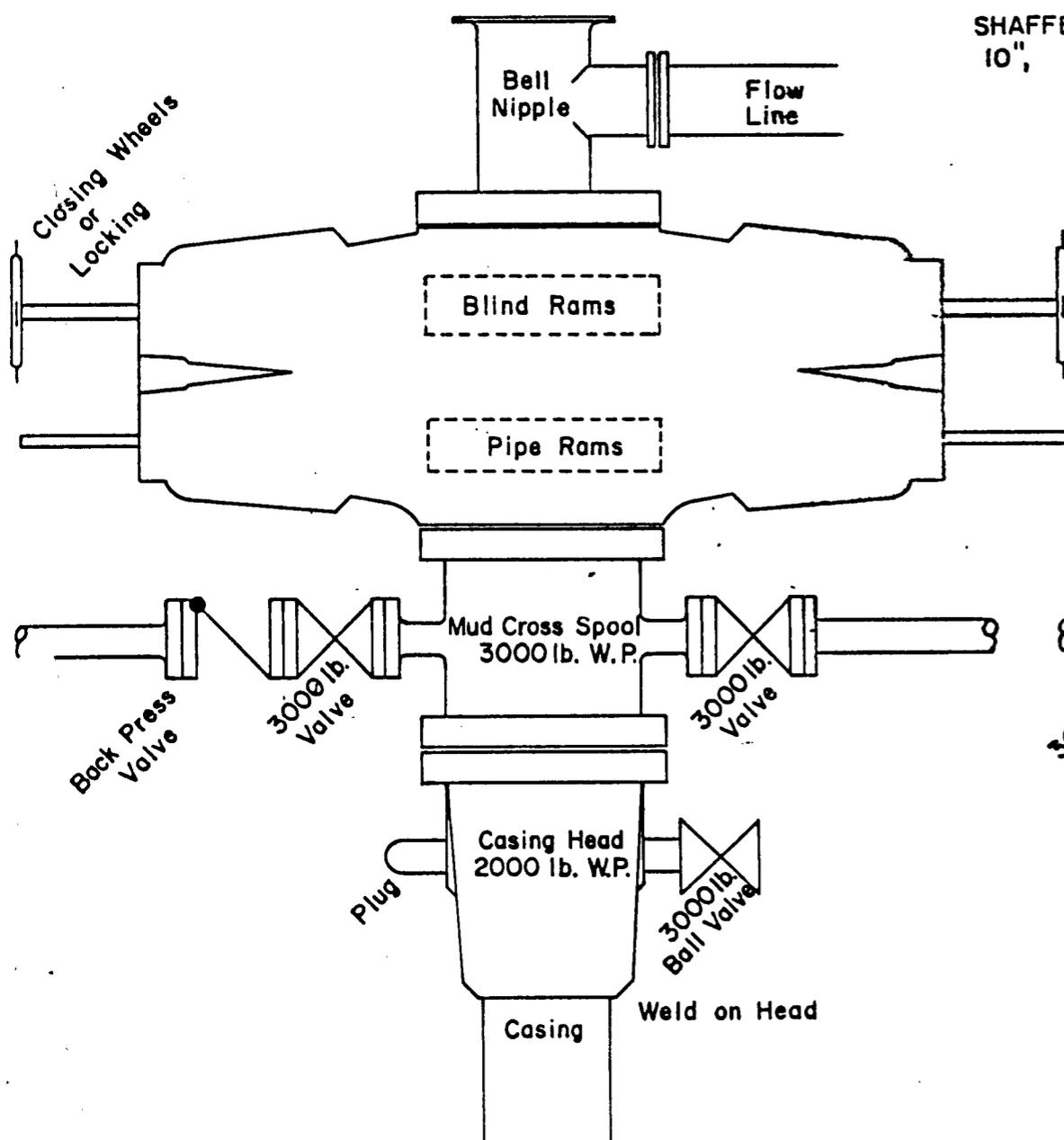
FOUR CORNERS SURVEYING  
21283 COUNTY ROAD P  
CORTEZ, COLORADO 81321  
303-565-4894

# SUPERIOR OIL COMPANY - WELL F-21

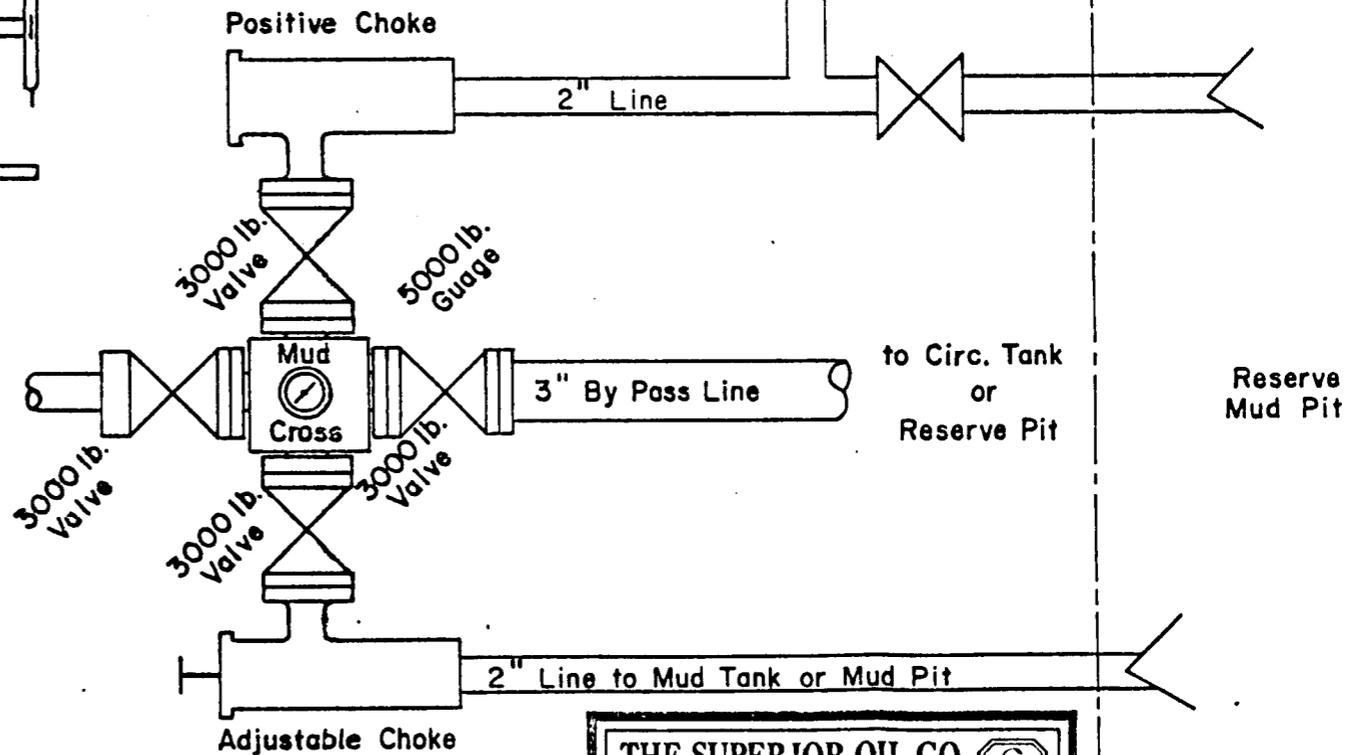


SCALE: 1" = 50'

**FOUR CORNERS SURVEYING**  
21283 COUNTY ROAD P  
CORTEZ, COLORADO 81321  
303-565-4894



SHAFFER DOUBLE GATE BLOW OUT PREVENTER  
 10", 3000 lb. W.P., 6000 lb. Test, Type E



THE SUPERIOR OIL CO.   
 CORTEZ - CASPER DISTRICT  
 ENGINEERING DEPARTMENT

SCHMATIC DIAGRAM  
 OF PRESSURE CONTROL  
 EQUIPMENT

BY JEG  
 SCALE NONE

DATE 6/25/79  
 REVISED

OPERATOR Superior Oil Co DATE 9-17-84

WELL NAME M<sup>o</sup> Elms Creek Unit F-21

SEC 13 NW NW T 41S R 24E COUNTY San Juan

43-037-31063  
API NUMBER

Indian  
TYPE OF LEASE

POSTING CHECK OFF:

<input type="checkbox"/>	INDEX	<input type="checkbox"/>	HL	<input type="checkbox"/>
<input type="checkbox"/>	NID	<input type="checkbox"/>	PI	<input type="checkbox"/>
<input type="checkbox"/>	MAP	<input type="checkbox"/>		<input type="checkbox"/>

PROCESSING COMMENTS:

Unit Well - & n P.O.D.

Water & - #84-09-8

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APPROVAL LETTER:

SPACING:  A-3 M<sup>o</sup> Elms Creek  c-3-a                      CAUSE NO. & DATE

c-3-b  c-3-c

SPECIAL LANGUAGE:

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RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

AUTHENTICATE LEASE AND OPERATOR INFORMATION

VERIFY ADEQUATE AND PROPER BONDING

AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

APPLY SPACING CONSIDERATION

ORDER \_\_\_\_\_

UNIT \_\_\_\_\_

c-3-b

c-3-c

CHECK DISTANCE TO NEAREST WELL.

CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.

IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

September 17, 1984

Superior Oil Company  
P. O. Drawer "G"  
Cortez, Colorado 81321

Gentlemen:

Re: Well No. McElmo Creek Unit #F-21 - NWNW Sec. 13, T. 41S, R. 24E  
852' FNL, 925' FWL - San Juan County, Utah

Approval to drill the above referenced oil well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 533-5771, (Home) 298-7695 or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

Page 2  
Superior Oil Company  
Well No. McElmo Creek Unit #F-21  
September 17, 1984

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31063.

Sincerely,



R. J. Firth  
Associate Director, Oil & Gas

as  
Enclosures  
cc: Branch of Fluid Minerals  
Bureau of Indian Affairs

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate  
(Other instructions  
verse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals.)

OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

SUPERIOR OIL COMPANY

3. ADDRESS OF OPERATOR

P. O. DRAWER 'G', CORTEZ, COLORADO 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

925' FWL & 852' FNL of SEC. 13.

14. PERMIT NO.

43-037-31063

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

Ungraded GL; 4442'

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-370

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME

McELMO CREEK UNIT

8. FARM OR LEASE NAME

9. WELL NO.

#F-21

10. FIELD AND POOL, OR WILDCAT

GREATER ANETH

11. SEC., T., R., M., OR BLK. AND SURVY OR AREA

SEC. 13, T41S, R24E

12. COUNTY OR PARISH

SAN JUAN

13. STATE

UTAH

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Superior Oil proposes to directionally drill the subject well to a bottom hole location of 852' FNL & 475' FWL of Section 13, T41S, R24E. Part of Section 13

Federal approval of this action is required before commencing operations.

ACCEPTED  
APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 1/3/85  
BY: [Signature]

18. I hereby certify that the foregoing is true and correct

SIGNED

T. Greg Merrion

TITLE

Petroleum Engineer

DATE

12-18-84

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPL  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

*drill*  
3

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT-" for such proposals.)

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
Superior Oil Company/Mobil Oil Agent

3. ADDRESS OF OPERATOR  
P.O. Drawer G Cortez, Co. 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface  
  
925' FSL 852' FNL of Sec. 13

14. PERMIT NO.  
43-037-31063

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
Ungraded GL 4442

5. LEASE DESIGNATION AND SERIAL NO.  
14-20-603-370

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo

7. UNIT AGREEMENT NAME  
McElmo Creek

8. FARM OR LEASE NAME

9. WELL NO.  
F-21

10. FIELD AND POOL, OR WILDCAT  
Greater Aneth

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 13 T41 S-R24E

12. COUNTY OR PARISH  
San Juan

13. STATE  
Utah

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Superior Oil proposes to run a DV tool on the 7" long string at 2750' and cement from TD 5475' to 4200' with 240 cubic ft. of cement, then cement with 158 cubic ft. of cement through the DV tool to 2150'.

RECEIVED

JUN 17 1985

DIVISION OF OIL  
GAS & MINING

ACCEPTED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE 6/29/85  
BY: John R. Day

Federal approval of this action  
is required before commencing  
operations.

18. I hereby certify that the foregoing is true and correct

SIGNED C. W. Eggerman TITLE Sr. Regulatory Engineering DATE 6/13/85  
C. W. Eggerman Advisor

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

# Mobil Oil Corporation

July 19, 1985

P.O. BOX 5444  
DENVER, COLORADO 80217

RECEIVED

JUL 25 1985

DIVISION OF OIL  
& GAS & MINING

Bureau of Land Management  
Caller Service 4104  
Farmington, NM 87499

DIRECTIONAL SURVEY  
McELMO CREEK #F-21  
SECTION 13-T41S-R24E  
SAN JUAN COUNTY, UTAH

Gentlemen:

Enclosed are two copies of the directional survey for McElmo Creek #F-21.

Sincerely,



R. D. Baker  
Environmental/Regulatory Manager

CNE/sc  
CNE8528

cc: State of Utah (2 copies)  
Navajo Tribe

MOBIL OIL COMPANY  
MC ELMO CREEK UNIT F-21  
SINGLE SHOT

## GREATLAND DIRECTIONAL DRILLING

## COMPLETION REPORT

COMPUTED ON 6-17-85 USING RADIUS OF CURVATURE TECHNIQUE  
FROM SURVEY DATA TAKEN 6-17-85

MOBIL OIL COMPANY  
MC ELMO CREEK UNIT F-21

FINAL CLOSURE DIRECTION N 82.00 W  
SINGLE SHOT

RECORD OF SURVEY  
(WELL ASSUMED VERTICAL TO 67.0)

MEAS DEPTH	DRIFT DG MN	TROVERT DEPTH	SUBSEA DEPTH	SECTION DIST	DIRECTION ANGLE	RELATIVE COORDINATES FROM WELL-HEAD			CLOSURE			DOG LEG deg/100
									DISTANCE	DG	MN	
0	0 0	0.00	-4614.00	0.00	0.00	0.00	0.00	0.00	0.00	0 0 0	0.000	
67	1 15	66.99	-4547.01	0.58	N 45.00 W	0.52 N	0.52 W	0.73	N 45	0 0 W	1.866	
165	0 45	164.98	-4449.02	1.95	N 45.00 W	1.73 N	1.73 W	2.44	N 45	0 0 W	0.510	
422	0 45	421.96	-4192.04	4.64	N 45.00 W	4.10 N	4.10 W	5.81	N 45	0 0 W	0.000	
722	1 0	721.92	-3892.08	8.30	N 45.00 W	7.34 N	7.34 W	10.39	N 45	0 0 W	0.083	
1021	1 30	1020.85	-3593.15	13.50	N 45.00 W	11.96 N	11.96 W	16.91	N 45	0 0 W	0.167	
1284	2 0	1283.73	-3330.27	19.92	N 45.00 W	17.64 N	17.64 W	24.94	N 45	0 0 W	0.190	
1415	2 0	1414.65	-3199.35	23.73	N 52.00 W	20.66 N	21.06 W	29.50	N 45	32 30 W	0.007	
1783	2 0	1782.42	-2831.58	34.24	N 42.00 W	29.41 N	30.44 W	42.33	N 45	59 1 W	0.003	
2314	2 0	2313.10	-2300.90	46.47	N 25.00 W	44.81 N	40.63 W	60.49	N 42	12 1 W	0.004	
2826	2 0	2824.79	-1789.21	53.12	N 3.00 W	62.04 N	44.93 W	76.60	N 35	54 37 W	0.005	
3318	1 15	3316.59	-1297.41	54.46	N 8.00 E	75.96 N	44.32 W	87.94	N 30	15 44 W	0.152	
3503	1 0	3501.55	-1112.45	53.10	N 53.00 E	79.01 N	42.52 W	89.72	N 28	17 22 W	0.135	
3547	1 0	3545.54	-1068.46	52.75	N 18.00 E	79.62 N	42.08 W	90.06	N 27	51 28 W	0.024	
3577	0 30	3575.54	-1038.46	52.58	N 53.00 E	79.94 N	41.86 W	90.23	N 27	38 18 W	1.667	
3608	1 30	3606.54	-1007.46	52.74	N 82.00 W	80.35 N	41.96 W	90.65	N 27	34 39 W	3.240	
3639	2 15	3637.52	-976.48	53.75	N 84.00 W	80.47 N	42.97 W	91.23	N 28	6 7 W	2.40	
3668	3 0	3666.49	-947.51	55.07	S 87.00 W	80.51 N	44.30 W	91.89	N 28	49 17 W	2.568	
3759	5 0	3757.26	-856.74	61.07	S 72.00 W	79.35 N	50.52 W	94.07	N 32	29 1 W	2.201	
3852	7 30	3849.70	-764.30	70.09	S 70.00 W	76.06 N	60.09 W	96.93	N 38	18 45 W	2.688	
3942	9 30	3938.71	-675.29	81.73	S 68.00 W	71.29 N	72.51 W	101.69	N 45	29 11 W	2.223	
4034	12 15	4029.05	-584.95	96.52	S 65.00 W	64.37 N	88.42 W	109.37	N 53	56 49 W	2.993	
4121	13 45	4113.82	-500.18	113.12	S 67.00 W	56.41 N	106.30 W	120.34	N 62	2 49 W	1.729	
4211	12 15	4201.51	-412.49	130.19	S 64.00 W	48.02 N	124.72 W	133.65	N 68	56 39 W	1.673	
4303	12 15	4291.41	-322.59	146.83	S 69.00 W	40.23 N	142.62 W	148.18	N 74	14 44 W	0.245	
4396	11 45	4382.38	-231.62	163.49	S 66.00 W	32.84 N	160.48 W	163.80	N 78	26 11 W	0.554	
4489	11 0	4473.55	-140.45	179.21	S 68.00 W	25.67 N	177.36 W	179.21	N 81	45 54 W	0.810	
4675	10 0	4656.43	42.43	208.56	S 68.00 W	12.97 N	208.79 W	209.19	N 86	26 41 W	0.538	

## RECORD OF SURVEY

MEAS DEPTH	DRIFT DG MN	TRUVERT DEPTH	SUBSEA DEPTH	SECTION DIST	DIRECTION ANGLE	RELATIVE COORDINATES FROM WELL-HEAD	CLOSURE			DOG LEG deg/100
							DISTANCE	DG MN	S	
4766	9 30	4746.12	132.12	221.70	S 65.00 W	6.83 N 222.92 W	223.03	N 88 14 45 W	0.557	
4861	8 30	4839.95	225.95	234.50	S 70.00 W	1.14 N 236.65 W	236.65	N 89 43 24 W	1.059	
4953	7 45	4931.03	317.03	245.76	S 66.00 W	3.73 S 248.70 W	248.73	S 89 8 29 W	0.819	
5046	6 30	5023.31	409.31	255.60	S 67.00 W	8.33 S 259.28 W	259.41	S 88 9 38 W	1.344	
5140	5 45	5116.77	502.77	264.37	S 71.00 W	11.92 S 268.64 W	268.90	S 87 27 33 W	0.799	
5230	5 45	5206.32	592.32	272.33	S 69.00 W	15.00 S 277.11 W	277.52	S 86 54 3 W	0.022	
5459	5 30	5434.21	820.21	291.96	S 69.00 W	23.05 S 298.07 W	298.96	S 85 34 42 W	0.10	

## DATA INTERPOLATED FOR EVEN 100 FEET OF SUBSEA DEPTH

MEAS. DEPTH	TRU VERT DEPTH	SUB SEA DEPTH	MD-TVD DIFF.	VERTICAL CORRECT	RELATIVE COORDINATES FROM WELL-HEAD	
0	0	-4614	0	0	0.00	0.00
100	100	-4514	0	0	0.99 N	0.99 W
200	200	-4414	0	0	2.05 N	2.05 W
300	300	-4314	0	0	2.98 N	2.98 W
400	400	-4214	0	0	3.90 N	3.90 W
500	500	-4114	0	0	4.86 N	4.86 W
600	600	-4014	0	0	5.92 N	5.92 W
700	700	-3914	0	0	7.08 N	7.08 W
800	800	-3814	0	0	8.37 N	8.37 W
900	900	-3714	0	0	9.87 N	9.87 W
1000	1000	-3614	0	0	11.58 N	11.58 W
1100	1100	-3514	0	0	13.50 N	13.50 W
1200	1200	-3414	0	0	15.65 N	15.65 W
1300	1300	-3314	0	0	18.03 N	18.04 W
1400	1400	-3214	0	0	20.35 N	20.66 W
1500	1500	-3114	0	0	22.45 N	23.44 W
1600	1600	-3014	0	0	24.42 N	26.33 W
1701	1700	-2914	1	1	26.25 N	29.30 W
1801	1800	-2814	1	0	29.87 N	30.85 W
1901	1900	-2714	1	0	32.37 N	33.28 W
2001	2000	-2614	1	0	34.73 N	35.85 W
2101	2100	-2514	1	0	36.95 N	38.55 W
2201	2200	-2414	1	0	39.02 N	41.37 W
2301	2300	-2314	1	0	40.92 N	44.29 W
2401	2400	-2214	1	0	47.51 N	42.00 W
2501	2500	-2114	1	0	50.51 N	43.79 W
2601	2600	-2014	1	0	53.36 N	45.80 W
2701	2700	-1914	1	0	56.06 N	48.02 W
2801	2800	-1814	1	0	58.58 N	50.44 W
2901	2900	-1714	1	0	64.58 N	45.10 W
3001	3000	-1614	1	0	67.73 N	45.42 W
3101	3100	-1514	1	0	70.59 N	45.84 W
3201	3200	-1414	1	0	73.17 N	46.33 W
3301	3300	-1314	1	0	75.46 N	46.89 W
3401	3400	-1214	1	0	77.68 N	44.38 W

## DATA INTERPOLATED FOR EVEN 100 FEET OF SUBSEA DEPTH

MEAS. DEPTH	TRU VERT DEPTH	SUB SEA DEPTH	MD-TVD DIFF.	VERTICAL CORRECT	RELATIVE COORDINATES FROM WELL-HEAD	
3501	3500	-1114	1	0	79.36 N	45.19 W
3601	3600	-1014	1	0	80.27 N	41.86 W
3702	3700	-914	2	1	80.31 N	46.26 W
3802	3800	-814	2	0	78.03 N	54.48 W
3903	3900	-714	3	1	73.55 N	66.77 W
4004	4000	-614	4	1	66.87 N	82.91 W
4107	4100	-514	7	3	57.30 N	103.03 W
4209	4200	-414	9	2	48.16 N	124.43 W
4312	4300	-314	12	3	39.56 N	144.35 W
4414	4400	-214	14	2	31.34 N	163.80 W
4516	4500	-114	16	2	23.76 N	182.09 W
4618	4600	-14	18	2	16.76 N	199.41 W
4719	4700	86	19	1	10.04 N	215.78 W
4821	4800	186	21	2	2.94 N	230.74 W
4922	4900	286	22	1	2.02 S	244.76 W
5023	5000	386	23	1	7.36 S	256.73 W
5123	5100	486	23	0	11.80 S	266.84 W
5224	5200	586	24	1	14.78 S	276.52 W
5324	5300	686	24	0	18.35 S	285.84 W
5425	5400	786	25	1	21.86 S	294.98 W

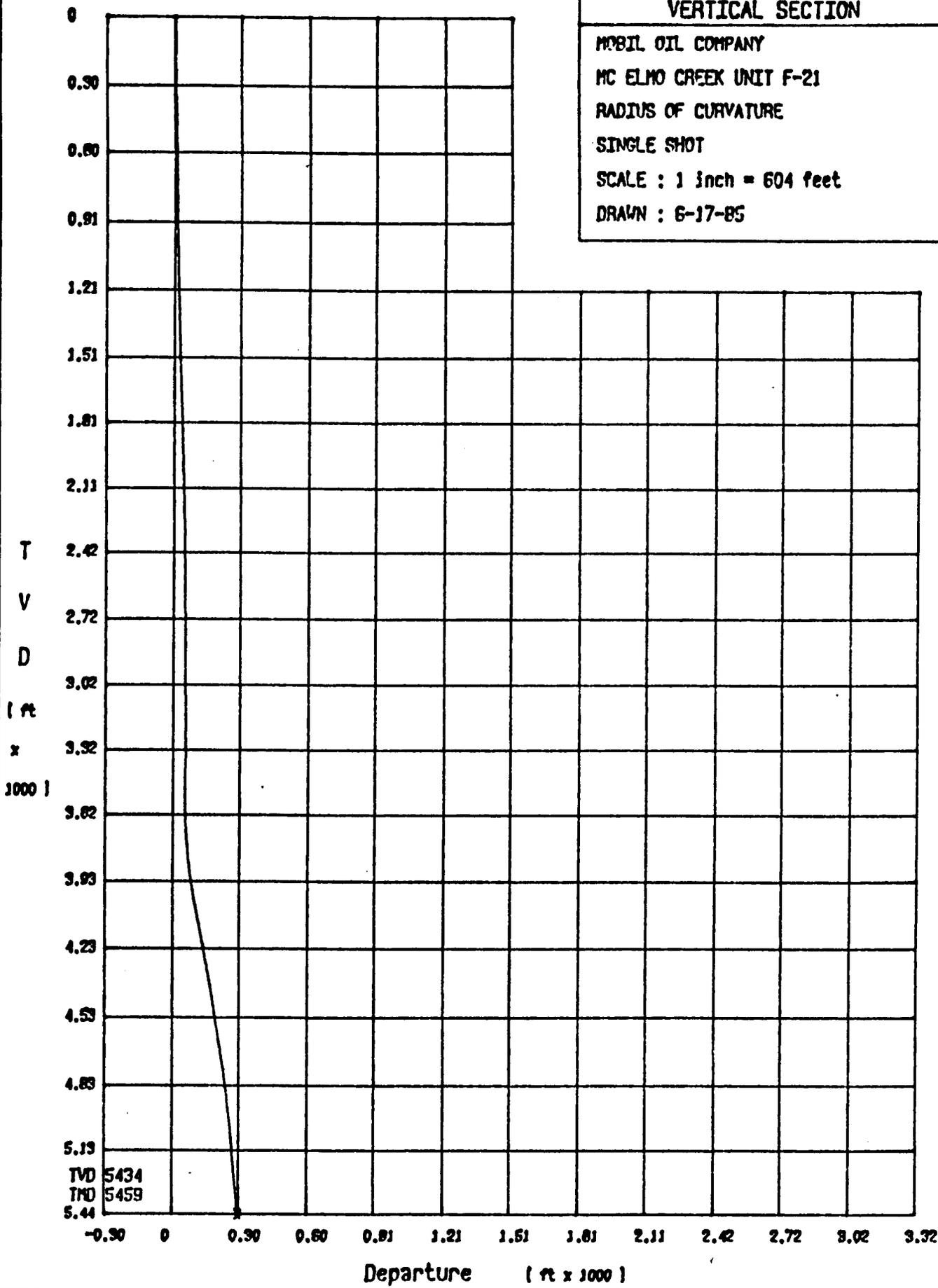
## DATA INTERPOLATED FOR EVEN 1000 FEET OF MEASURED DEPTH

MEAS. DEPTH	TRU VERT DEPTH	SUB SEA DEPTH	RELATIVE COORDINATES FROM WELL-HEAD	
1000	1000	-3614	11.57 N	11.57 W
2000	1999	-2615	34.72 N	35.83 W
3000	2999	-1615	67.69 N	45.41 W
4000	3996	-618	67.22 N	82.12 W
5000	4978	364	6.23 S	254.24 W

East Land Directional Drilling

VERTICAL SECTION

MOBIL OIL COMPANY  
MC ELMO CREEK UNIT F-21  
RADIUS OF CURVATURE  
SINGLE SHOT  
SCALE : 1 inch = 604 feet  
DRAWN : 6-17-85



TVD 5434  
TMD 5459  
5.44

*Great Land Directional Drilling*

**Notes :**

All values in feet.  
Depths shown are TVD.

Closure: 299 ft at S 85 deg 34 min W

Bottom hole:  
TVD 5434  
TMD 5459

Magnetic declination: 13 deg E

**HORIZONTAL VIEW**

MOBIL OIL COMPANY

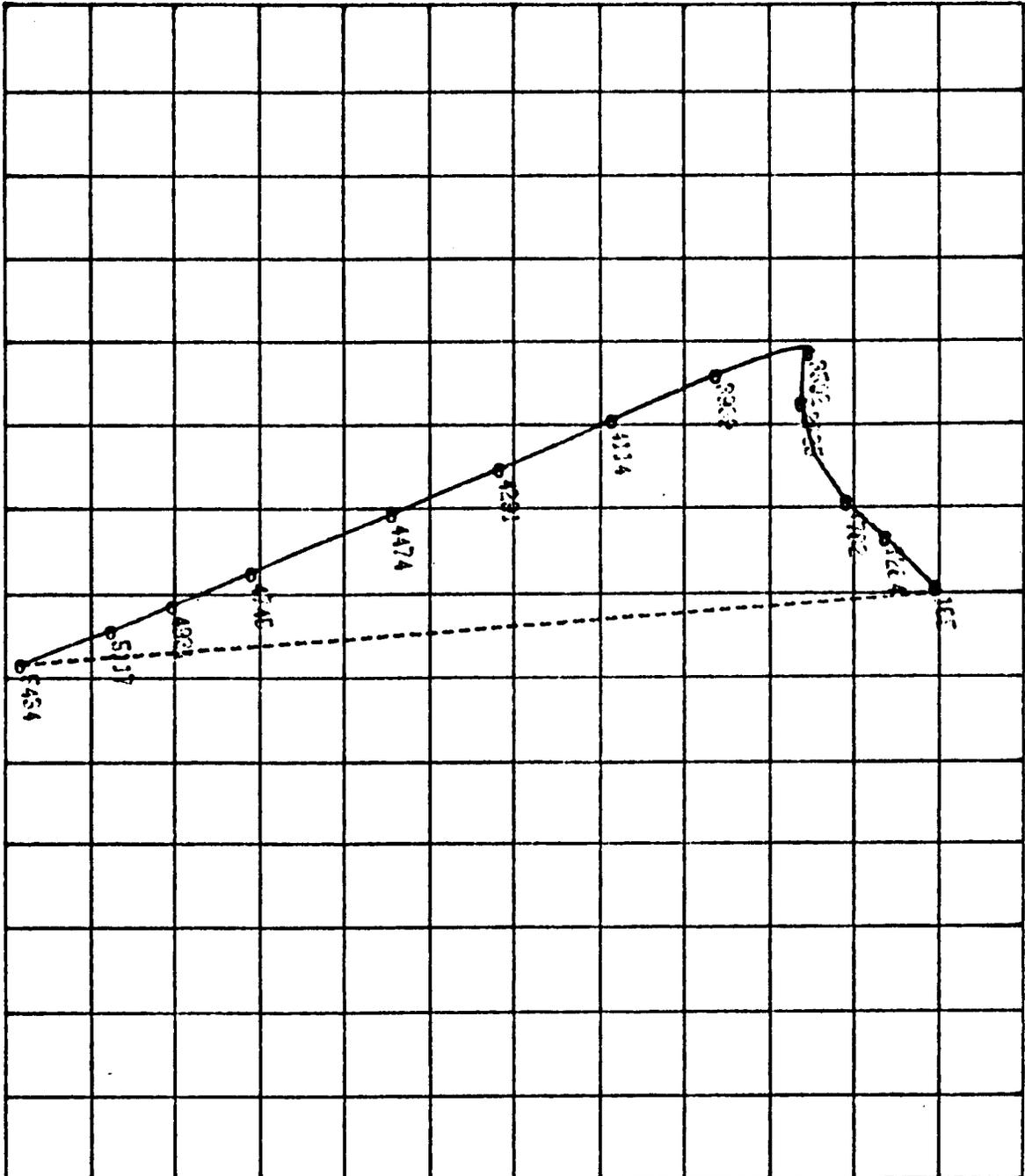
MC ELMO CREEK UNIT F-21

RADIUS OF CURVATURE

SINGLE SHOT

SCALE : 1 inch = 55 feet

DRAWN : 6-17-85



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.  
14-20-603-370

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME

McELMO CREEK UNIT

8. FARM OR LEASE NAME

9. WELL NO.

F-21

10. FIELD AND POOL, OR WILDCAT

GREATER ANETH

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

SEC. 13, T41S, R24E, SLM

12. COUNTY OR PARISH

SAN JUAN

13. STATE

UTAH

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to surface. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED

AUG 19 1985

DIVISION OF OIL  
GAS & MINING

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
SUPERIOR OIL COMPANY (Mobil as Agent)

3. ADDRESS OF OPERATOR  
P. O. DRAWER 'G', CORTEZ, COLORADO 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface

925' FWL, 852' FNL of Section 13

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, NT, GR, etc.)

GL: 4442'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF  PULL OR ALTER CASING   
 FRACTURE TREAT  MULTIPLE COMPLETE   
 SHOOT OR ACIDIZE  ABANDON\*   
 REPAIR WELL  CHANGE PLANS   
 (Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF  REPAIRING WELL   
 FRACTURE TREATMENT  ALTERING CASING   
 SHOOTING OR ACIDIZING  ABANDONMENT\*   
 (Other) First Saleable Oil

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

On August 10, 1985, Superior Oil Company began producing saleable oil from the subject well.

18. I hereby certify that the foregoing is true and correct

SIGNED Gregg A. Tripp  
Gregg A. Tripp  
(This space for Federal or State office use)

TITLE Engineer

DATE 08-14-85

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate  
(Other instructions  
reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

31

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
Mobil Oil Corporation Agent for The Superior Oil Company

3. ADDRESS OF OPERATOR  
P. O. Box 5444 Denver, CO 80217

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface  
  
852' FNL; 925' FWL

5. LEASE DESIGNATION AND SERIAL NO.  
14-20-603-270

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
McElmo Creek Unit

9. WELL NO.  
F-21

10. FIELD AND POOL, OR WILDCAT  
Greater Aneth

11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA  
Sec. 13-T41S-R24E

14. PERMIT NO.  
43-037-31063

15. ELEVATIONS (Show whether DF, ET, CR, etc.)  
4442 ungraded GL

12. COUNTY OR PARISH  
San Juan

13. STATE  
Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Well spudded 5-31-85  
126' 13-3/8" casing set 5-30-85  
1282' 9-5/8" casing set 6-1-85  
5498' 7" casing set 6-17-85  
Rig released 6-18-85  
See attached drilling history for complete details.

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Producing Accounting Suprvsr DATE 11-5-85

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

DRILLING FLUID PROPERTIES FOR MCELMO CREEK UT F-21

MUD COMPANY: HUGHES

REPORT DATE	DEPTH	TIME	WT	VIS	PV	YP	GE	0/10	API	WL	HT	WL	PH	OILZ	SOLIDSZ	SANDZ	CL (PPH)	LCM CONC	FL TEMP
85 06 02	1530	600	8.1	38	10	18	3	9	13.6				11.5	2	TR	2700		92	
85 06 03	2830	300	9.4	36	10	10	1	4	7				9.5	7	TR	3000		95	
85 06 04	3410	300	10.3	40	10	14	2	6	13				11.0	10.5	TR	1150		97	
85 06 05	3562	330	11.0	40	18	20	3	11	8.8				11.0	12	TR	11000		98	
85 06 06	3624	200	11.0	42	16	22	4	16		11.4			12.0	12	TR	11500		78	
85 06 07	3666	330	11.0	36	14	16	3	12	11.6				12.0 0	12	TR	10000			
85 06 08	3768	330	11.0	40	16	22	6	14	11				11.5 0	12.5	TR	8000		98	
85 06 09	4073	100	11.1	41	17	20	5	12	13.8				11.5 0	13	TR	8000		98	
85 06 10	4297	400	11.0	42	14	22	9	15	9				11.5 0	12	TR	6500		98	
85 06 11	4567	300	11.0	45	14	21	6	13	12.1				11.5 0	12	TR	6000		103	
85 06 12	4732	300	11.0	40	14	19	14	19	13				11.5	12	.5	6000		60	
85 06 13	4935	315	11.0	40	13	19	9	20	12				11.5	12	1/4	5800		112	
85 06 14	5130	400	11.0	41	14	22	10	21	13				11.5	1.3	1/2	5000		114	
85 06 15	5350	400	11.3	47	16	27	12	25	10.8				11.5	14	1/4	4100		116	
85 06 16	5470	600	11.4	48	14	31	10	23	10				11.5	14	TR	5000		117	
85 06 17	5498	1930	11.3	51	11	29	17	29	9.9				11.0	14.5	TR	12,000			

MUD MATERIALS USED FOR MCELMO CREEK UT F-21

REPORT DATE	DEPTH	DAILY COST	BARITE	CAUSTIC	DRISPAC	SODA ASH	XC POLYMER	XCD POLYMER
			SX	SX	SX	SX	SX	SX
85 06 02	1530	\$2,539		4	16	3		
85 06 03	2830	\$3,405	400	7	2			2
85 06 04	3410	\$1,012		2	2	4		
85 06 05	3562	\$4,293	400	6	4	2	3	
85 06 06	3624	\$452	40	4		6		
85 06 07	3666	\$1,225	168	4		2		
85 06 08	3768	\$494		2	3			
85 06 09	4073	\$300			2			
85 06 10	4297	\$972	50	2	4			
85 06 11	4567	\$1,414	30	8	5		1	
85 06 12	4732	\$1,528	85	10	3		1	
85 06 13	4935	\$238		4	1			
85 06 14	5130	\$550	23	3	2			
85 06 15	5350	\$1,283	90	11	3			
85 06 16	5470	\$995	40	6	4			
85 06 17	5498	\$1,749	191	4	2	6		
85 06 18	5498	\$263	40					
TOTAL			1557	77	53	23	5	2

TOTAL MUD COST: \$22,710

BOTTOMHOLE ASSEMBLIES FOR MCELMO CREEK UT F-21

<u>BIT NUMBER</u>	<u>BIT SIZE</u>	
1	12-1/4	12-1/4" BIT. SS. XO. 7" DC.
1 RR	12-1/4	12-1/4" BIT. SS. XO. 7 7" DC'S. XO. IBS. XO, 4 7" DC'S, 22 6" DC'S.
2	8-3/4	8-3/4" BIT. NBS. SS. IBS. NMDC. IBS. 6 7" DC'S, 22 6-1/4" DC'S.
3	8-3/4	8-3/4" BIT. MUD MOTOR. BS. ORIENT SUB. NMDC, 12 6-1/4" DC'S.
4	8-3/4	8-3/4" BIT. MUD MOTOR. BS. ORIENT SUB. NMDC, 13 6-1/4" DC'S.
6	8-3/4	8-3/4" BIT. MUD MOTOR. BENT SUB. ORIENT SUB, NMDC, 12 6-1/4" DCS.
7	8-3/4	8-3/4" BIT. NBS. SS. IBS. NMDC. IBS. 7" DC, IBS, 5 7" DCS, 22 6-1/4" DCS.
8	8-3/4	8-3/4" BIT. NBS. SS. IBS. NMDC. IBS. 7" DC, IBS, 5 7" DCS, 17 6-1/4" DCS, JAR, 5 6-1/4" DCS.
9	8-3/4	8-3/4" BIT, BS, NMDC, IBS, 6 7" DCS, 17 6-1/4" DCS. JAR. 5 6-1/4" DCS.

MOBIL OIL  
DENVER E AND P DIVISION

DRILLING SUMMARY

RECEIVED

NOV 12 1985

DIVISION OF OIL  
GAS & MINING

WELL: MCELMO CREEK UT F-21

MATCH NUMBER: 850096

AFE # 8866 AFE EST COST: \$520 M  
ACTUAL DRILLING COST: \$341 M

MOBIL INTEREST: 37.6%  
API WELL NUMBER: 4303731063

ELEVATION--- GROUND: 4600 KELLY BUSHING: 4614  
COORDINATES: 852' FNL 925' FWL, BH 800' FNL 550' FWL  
SECTION: 13-41S-24E  
FIELD: GREATER ANETH  
COUNTY: SAN JUAN STATE: UT

WELL TYPE: IMPROVED RECOVERY  
OBJECTIVE: 5475' DESERT CREEK  
TOTAL DEPTH: 5498 PBD: 0  
PROD. CASING DEPTH: 5498

DRILLING RIG: ENERGY SEARCH 1  
WELL SPUDDED: 85 05 31 @ 600  
REACHED TD: 85 06 16 @ 830  
RIG RELEASED: 85 06 18 @ 900  
TOTAL DRILL DAYS: 19

ADDITIONAL COMMENTS

DIRECTIONAL

## SURVEY RECORD FOR MCELMO CREEK UT F-21

DEPTH	DEV	BEARING	QUAD
67	1.25		
165	.75		
422	.75		
719	1.00		
1284	2.00		
1415	2.00	52.00	NW
1783	2.00	42.00	NW
2314	2.00	25.00	NW
2826	2.00	3.00	NW
3318	1.25	14.00	NE
3305	1.00	53.00	NE
3480	1.00	20.00	NE
3515	1.25	30.00	NE
3547	1.00	18.00	NE
3572	.50	53.00	NW
3608	1.50	82.00	NW
3639	2.25	84.00	NW
3668	3.00	89.00	SW
3852	7.50	70.00	SW
3942	9.50	68.00	SW
4034	12.25	85.00	SW
4121	13.75	67.00	SW
4211	12.50	64.00	SW
4303	12.50	69.00	SW
4396	11.75	66.00	SW
4489	11.00	63.00	SW
4582	11.00	66.00	SW
4675	10.00	63.00	SW
4766	9.50	65.00	SW
4861	8.50	70.00	SW
4953	7.75	66.00	SW
5046	6.50	67.00	SW
5140	5.75	71.00	SW
5230	5.75	69.00	SW
5458	5.50	69.00	SW

BIT RECORD FOR NCELMO CREEK UT F-21

BIT NO	SIZE	MAKE	TYPE	SERIAL NUMBER	BIT JETS (IN/32)	BIT WGT	RPM	FTG	HRS RUN	PENT RATE	DEPTH OUT	COND	COMMENTS
1 RR	12-1/4	STC	F2	ER4544	14 14 14	60	120	1158	12.25	94.5	1284	2-2-I	RE-RUN
2	8-3/4	SEC	S82CF	420442	10 11 0	55	75	2263	34.50	65.6	3545	2-3-I	
3	8-3/4	SEC	M44N	319900	16 16 16	20	345	50	11.50	4.3	3595	8-3-I	
4	8-3/4	SEC	M44N	313494	14 14 14	15	345	39	10.00	3.9	3634	7-3-I	
5	8-3/4	SEC	M44N	325835	14 14 14	20	170	32	7.00	4.6	3666	5-1-I	
6	8-3/4	SEC	B44N	325842	14 14 14	15	170	38	10.25	3.7	3704	5-3-I	
7	8-3/4	STC	F-2	ES4978	11 11 0	55	60	986	74.25	13.3	4690	T8-B6-1/16	
8	8-3/4	S86F	SEC	426033	11 12 0	55	60	673	71.00	9.5	5363	8-5-I	
9	8-3/4	STC	F-3	ET7321	12 12 0	55	60	135	15.75	8.6	5498	3-8-I	RERUN

GAS RECORD FOR

REPORT DATE	DEPTH	AVERAGE BACKGROUND GAS	HIGH TRIP GAS	HIGH CONNECTION GAS
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CASING AND CEMENTING REPORT FOR MCELMO CREEK UT F-21

	TOP	BOTTOM	JTS	WEIGHT	GRADE	CONNECTION TYPE
13-3/8" CASING						
SET FROM	0	TO	126			
RUN ON 85	05	30				

## CASING DETAILS

0	126	3	54.5	K-55	STC
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## CEMENTING DETAILS

## CONDUCTOR

9-5/8" CASING						
SET FROM	0	TO	1282			
RUN ON 85	06	01				

## CASING DETAILS

0	1282	30	36	K-55	LTC
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## CEMENTING DETAILS

450 SX BJ LITE. 10#/SK D-70 + 2% A-7. TAIL: 150 SX 'B' + .2% A-7. DISPL W/96 BRLS WTR @ 5 RPM. BUMP PLUG W/1200 PSI. FULL CIRC & RECIP THROUGHOUT JOB.

7" CASING						
SET FROM	0	TO	5498			
RUN ON 85	06	17				

## CASING DETAILS

0	5498	121	24	K-55	LTC
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## CEMENTING DETAILS

1ST STAGE: 240 SX 'B' + .5% FL-19 + .3% R-5. 2ND STAGE: 75 SX BJ LITE. BUMPED PLUG 1000 PSI OVER.

TIME SUMMARY FOR MCELMO CREEK UT F-21

<u>DRLG_DESC</u>	<u>HOURS</u>	<u>% TOTAL</u>
RIGGING UP LAND RIG	.50	.11
RIGGING DOWN LAND RIG	3.00	.69
DRILLING AHEAD INCLUDING CONNECTION TIME	230.00	52.63
TRIP FOR BIT OR BHA	56.00	12.81
OPEN HOLE WITH HOLE OPENER/UNDERREAMER	2.25	.51
DIR OR DEV SURVEY(INCLUDING CIRC TIME)	20.50	4.69
DOWNHOLE MOTOR RUN FOR INITIAL KICKOFF	37.50	8.58
BOP TEST - PERIODIC TEST AFTER NU & TEST	.75	.17
ROUTINE RIG SERVICE	10.00	2.29
SLIP DRILL LINE	1.00	.23
MISC.SCHEDULED DRILLING OPERATIONS	.50	.11
FORMATION LOGGING	12.25	2.80
TRIP TO RUN LOGS OR CORE BARREL	3.75	.86
WIPER/COND TRIP FOR LOGS/CORE/DST	4.00	.92
TRIPPING TO RUN CASING	5.75	1.32
COND MUD/HOLE TO RUN CASING	6.75	1.54
RUN CASING	13.25	3.03
CEMENT CASING,PRIMARY JOB	2.00	.46
WOC	3.50	.80
NIPPLE DOWN BOP	6.50	1.49
NIPPLE UP AND TEST SURFACE BOP	7.50	1.72
DRILL FLOAT SHOE & FORM FOR SHOE TEST	1.00	.23
SHOE/FORMATION INTEGRITY TEST	.25	.06
FLOW ON ANNULUS AFTER CMTG	4.50	1.03
NO SURVEY-TOOL MOVING OR TOOL FAILURE	.50	.11
FIRST 24 HOURS DURING DRILLING KICK	3.00	.69
RIG FAILURE,E.G., PUMPS,DRWKS,ROTARY,ETC	.50	.11
TOTAL HOURS	437.00	

TROUBLE-TIME SUMMARY FOR MCELMO CREEK UT F-21

<u>REPORT DATE</u>	<u>DRLG_DESC</u>	<u>HOURS</u>
85 06 01	FLOW ON ANNULUS AFTER CMTG	.50
85 06 02	FLOW ON ANNULUS AFTER CMTG	4.00
85 06 04	NO SURVEY-TOOL MOVING OR TOOL FAILURE	.50
85 06 05	FIRST 24 HOURS DURING DRILLING KICK	3.00
85 06 09	RIG FAILURE.E.G.. PUMPS.DRWKS.ROTARY.ETC	.50

TOTAL TROUBLE TIME 8.50

DRILLING HISTORY FOR MCELMO CREEK UT F-21REPORT DATE

85 05 31 FIRST REPORT. MIRU. DRILLING CEMENT FROM 67' TO 82'.

85 06 01 FIRST REPORT. DRILLED CEMENT FROM 80' TO 126'. SPUDDED IN AT 0600 HOURS. 5/31/85. DRILLED AND SURVEYED FROM 126' TO 1284'. RAN AND CEMENTED 9-5/8" CASING AT 1282'. CEMENT LEVEL DROPPED 30'. DO OUTSIDE JOB. WELL STARTED FLOWING. CLOSE ANNULUS PREVENTER AND BULLHEAD 100 SX CEMENT, PSI REACHED 500. CLOSE WELL IN.

85 06 02 WAIT ON CEMENT WITH WELL SHUT IN. OPEN ANNULUR PREVENTER, NO FLOW. CUT CASING. NIPPLE UP AND TEST BOP'S. DRILLED CEMENT AND SHOE. DRILLED FROM 1282' TO 1530'. TESTED FORMATION AT 1300' - 18.8 EMW.

85 06 03 DRILLED FROM 1530' TO 1762'.

85 06 04 DRILLED FROM 2830' TO 3410'.

85 06 05 DRILLED FROM 3410' TO 3545'. SURVEY, WELL FLOWING. SHUT WELL IN. RAISE MUD WEIGHT TO 10.7. NO FLOW. PUMP SLUG. RTBC. DRILLED AND SURVEYED TO 3562'.

85 06 06 DRILLED FROM 3562' TO 3624' WITH RTBC AT 3595'.

DRILLING HISTORY FOR MCELMO CREEK UT F-21

REPORT DATE

85 06 07 DRILLED FROM 3624' TO 3666'.

85 06 08 DRILLED FROM 3666' TO 3768' WITH RTBC AT 3704'.

85 06 09 DRILLED AND SURVEYED FROM 3768' TO 4073'.

85 06 10 DRILLED FROM 4073' TO 4297'.

85 06 11 DRILLED AND SURVEYED FROM 4297' TO 4567'.

85 06 12 DRILLED FROM 4567' TO 4732' WITH RTBC AT 4690'.

85 06 13 DRILLED FROM 4732' TO 4935'.

DRILLING HISTORY FOR MCELMO CREEK UT F-21

REPORT DATE

85 06 14 DRILLED FROM 4935' TO 5130'.

85 06 15 DRILLED FROM 5130' TO 5350'.

85 06 16 DRILLED FROM 5350' TO 5470'.

85 06 17 DRILLED FROM 5470' TO 5498'. TD. LOGGED.

85 06 18 RAN AND CEMENTED 7" CASING. WOC, NO BOP'S.

85 06 19 PU BOP'S AND SET SLIPS. RELEASED RIG 6/18/85.

REMOVE FROM REPORT UNTIL COMPLETION.

DETAILED DRILLING HISTORY FOR MCELMO CREEK UT F-21

REPORT DATE	START	END	DRLG_CODE	REMARKS
85 05 31	400	430	141	MI & RURT, PU BHA & TAG CMT @ 67'
	430	445	240	SURVEY
	445	500	210	DRILLED CMT FROM 67' TO 82'
85 06 01	500	600	210	DRILLING CEMENT FROM 82' TO 126'
	600	645	210	SPUD 12-1/4" HOLE. DRILLED FROM 126' TO 165'
	645	700	240	SURVEY
	700	800	210	DRILLED FROM 165' TO 212'
	800	830	290	SERVICE RIG
	830	915	210	DRILLED FROM 212' TO 302'
	915	930	280	FUNCTION TEST HYDRIL
	930	1045	210	DRILLED FROM 302' TO 422'
	1045	1100	240	SURVEY
	1100	1345	210	DRILLED FROM 422' TO 719'
	1345	1400	240	SURVEY
	1400	2030	210	DRILLED FROM 719' TO 1284'
	2030	2130	420	SHORT TRIP UP TO 900'
	2130	2200	420	CIRCULATE
	2200	2215	240	DROP SURVEY
	2215	0	410	TOH AND LAY DOWN SS. IBS. XO AND BIT
	0	300	440	RUN 9-5/8" CASING, SET AT 1282', INSTALL CMTG H
300	430	450	CEMENT 9-5/8" CASING	
430	500	765	WELL STARTED FLOWING, CLOSE ANNULUS PREVENTOR A	
85 06 02	500	900	765	WIAT ON CEMENT WITH WELL SHUT IN
	900	1430	464	OPN ANN PREVENTER. NO FLOW. CUT 13-3/8" & 9-5/8"
	1430	2000	470	NIPPLE UP BOPE'S
	2000	2100	470	TEST BOPE
	2100	2300	220	PICK UP BHA AND TIH, TAG CEMENT AT 1239'
	2300	0	470	TEST BOPE
	0	45	485	DRILLING CEMENT, FLOAT COLLAR, CEMENT AND GUIDE
	45	100	485	DRILLED FROM 1282' TO 1300'
	100	115	490	PERFORM FORMATION INTEGRITY TEST
	115	330	210	DRILLED FROM 1300' TO 1455'
	330	400	240	SURVEY
400	500	210	DRILLED FROM 1455' TO 1530'	
85 06 03	500	830	210	DRILLED FROM 1530' TO 1762'
	830	900	240	SERVICE RIG
	900	930	210	DRILLED FROM 1762' TO 1823'
	930	945	240	SURVEY
	945	1730	210	DRILLED FROM 1823' TO 2374'
	1730	1800	240	SURVEY
	1800	2000	210	DRILLED FROM 2374' TO 2514'
	2000	2015	290	SERVICE RIG
2015	500	210	DRILLED FROM 2514' TO 2830'	
85 06 04	500	615	210	DRILLED FROM 2830' TO 2866'

DETAILED DRILLING HISTORY FOR MCELMO CREEK UT F-21

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REPORT DATE	START	END	DRLG. CODE	REMARKS
85 06 04	615	645	240	SURVEY
	645	800	210	DRILLED FROM 2866' TO 2882'
	800	830	290	SERVICE RIG
	830	30	210	DRILLED FROM 2882' TO 3327'
	30	100	781	SURVEY, MISRUN
	100	230	210	DRILLED FROM 3327' TO 3358'
	230	300	240	SURVEY
	300	500	210	DRILLED FROM 3358' TO 3410'
85 06 05	500	900	210	DRILLED FROM 3410' TO 3481'
	900	930	290	SERVICE RIG
	930	1200	210	DRILLED FROM 3481' TO 3545', NO FLOW
	1200	1230	240	SURVEY. WELL FLOWING 2 GPM WITH 10.2 PPG MUD WE
	1230	1245	809	SHUT WELL IN
	1245	1530	809	CIRCULATE. RAISE MUD WEIGHT TO 10.7 PPG. NO FLO
	1530	1830	220	TOH AND LAY DOWN IRS'S AND SHOCK SUR
	1830	0	220	MU BIT. PU BHA. T1H TO 3490', WASH THRU BRIDGES
	0	15	230	WASH AND REAM FROM 3490' TO 3545', 50' FILL
	15	45	299	CIRCULATE
	45	100	260	ORIENTING TOOL
	100	230	260	DRILLING WITH DYNA DRILL FROM 3551' TO 3562'
	230	300	240	ORIENTING TOOL AND CHECK SHOT
300	500	260	DRILLING WITH DYNA DRILL FROM 3551' TO 3562'	
85 06 06	500	930	260	DRILLING WITH DYNA DRILL FROM 3562' TO 3582'
	930	1000	290	SERVICE RIG
	1000	1030	240	SURVEY
	1030	1400	290	DRILLING WITH DYNA DRILL FROM 3582' TO 3595'
	1400	1500	220	MIX AND PUMP SLUG
	1500	2045	220	CHAIN OUT OF HOLE. MU BIT #4. CHANGE OUT MUD MO
	2045	2130	260	ORIENT TOOL
	2130	100	260	DRILLING WITH DYNA DRILL FROM 3595' TO 3613'
	100	130	240	SURVEY
130	500	260	DRILLING WITH DYNA DRILL FROM 3613' TO 3624'	
85 06 07	500	800	260	DRILLED W/DYNA DRL 3624'/3634'
	800	1415	220	RTBC
	1415	1500	260	ORIENT TOOL
	1500	1630	260	DRILLED W/BAKER MUD MOTOR FROM 3634' TO 3644'
	1630	1715	240	SURVEY
	1715	2245	260	DRILLED W/BAKER MUD MOTOR FROM 3644' TO 3666'
	2245	430	220	PUMP SLUG, RTBC
	430	500	260	ORIENT TOOL
85 06 08	500	800	260	DRILLED FROM 3666' TO 3675'
	800	830	240	SURVEY
	830	900	290	SERVICE RIG
	900	1615	260	DRILLED FROM 3675' TO 3704'

DETAILED DRILLING HISTORY FOR MCELMO CREEK UT F-21

REPORT DATE	START	END	DRLG_CODE	REMARKS
85 06 08	1615	1700	240	SURVEY
	1700	2230	220	PUMP SLUG, RTBC
	2230	30	230	REAM 3545'/3704', NO FILL
	30	500	210	DRILLED FROM 3704' TO 3768'
85 06 09	500	900	210	DRILLED FROM 3768' TO 3822'
	900	930	290	SERVICE RIG
	930	1300	210	DRILLED FROM 3822' TO 3884'
	1300	1345	240	SURVEY
	1345	2000	210	DRILLED FROM 3884' TO 3974'
	2000	2030	240	SURVEY
	2030	130	210	DRILLED FROM 3974' TO 4037'
	130	200	870	REPAIR RIG
	200	400	210	DRILLED FROM 4037' TO 4066'
	400	430	240	SURVEY
85 06 10	430	500	210	DRILLED FROM 4066' TO 4073'
	500	515	210	DRILLED FROM 4073' TO 4077'
	515	830	220	PUMP SLUG, RTBC
	830	845	290	SERVICE RIG
	845	1100	220	TIH W/BIT #7
	1100	1730	210	DRILLED FROM 4077' TO 4163'
	1730	1815	240	SURVEY
	1815	2000	210	DRILLED FROM 4163' TO 4188'
	2000	2015	240	SERVICE RIG
	2015	45	210	DRILLED FROM 4188' TO 4253'
85 06 11	45	130	240	SURVEY
	130	500	210	DRILLED FROM 4253' TO 4297'
	500	845	210	DRILLED FROM 4297' TO 4345'
	845	900	290	SERVICE RIG
	900	930	240	SURVEY
	930	1630	210	DRILLED FROM 4345' TO 4438'
	1630	1700	240	SURVEY
	1700	2215	210	DRILLED FROM 4438' TO 4500'
	2215	2230	240	SERVICE RIG
	2230	115	210	DRILLED FROM 4500' TO 4531'
85 06 12	115	145	240	SURVEY
	145	500	210	DRILLED FROM 4531' TO 4567'
	500	945	210	DRILLED FROM 4567' TO 4624'
	945	1015	290	SERVICE RIG, CHK BOP
	1015	1100	240	SURVEY
	1100	1615	210	DRILLED FROM 4624' TO 4690'
	1615	2130	220	CIRC, MIX & PUMP SLUG, TOH, TIH W/DC, PU BAILEY
	2130	2230	297	SLIP & CUT OFF 65' DRILLING LINE.
	2230	100	220	STRAP IN, NO CORR, REAM LAST 60' T/BTM, WORK BY
	100	315	210	DRILLED FROM 4690' TO 4717'

DETAILED DRILLING HISTORY FOR MCELMO CREEK UT F-21

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REPORT DATE	START	END	DRLG_CODE	REMARKS
85 06 12	315	345	240	SURVEY
	345	500	210	DRILLED FROM 4717' TO 4732'
85 06 13	500	1000	210	DRILLED FROM 4732' TO 4778'
	1000	1030	290	SERVICE RIG
	1030	1330	210	DRILLED FROM 4778' TO 4808'
	1330	1415	240	SURVEY
	1415	2000	210	DRILLED FROM 4808' TO 4868'
	2000	2015	290	SERVICE RIG & PUMP
	2015	0	210	DRILLED FROM 4868' TO 4900'
	0	45	240	SURVEY
	45	500	210	DRILLED FROM 4900' TO 4935'
	500	800	210	DRILLED FROM 4935' TO 4960'
85 06 14	800	830	290	SERVICE RIG
	830	1215	210	DRILLED FROM 4960' TO 4993'
	1215	1300	240	SURVEY
	1300	2245	210	DRILLED FROM 4993' TO 5086'
	2245	2345	240	SURVEY
	2345	500	210	DRILLED FROM 5086' TO 5130'
	500	1000	210	DRILLED 5130'/5180'
85 06 15	1000	1045	240	SURVEY
	1045	1900	210	DRLD 5180'/5270'
	1900	2000	240	SURVEY
	2000	100	210	DRLD 5270'/5332'
	100	115	290	SERVICE RIG
	115	500	210	DRLD 5332'/5350'
	500	700	210	DRLD 5350'/5363'
85 06 16	700	730	210	PUMP SLUG
	730	1100	220	TOH
	1100	1130	280	CHECK BOP'S. CHANGE BIT. PU BOOT BASKET
	1130	1200	290	SERVICE RIG
	1200	1630	220	TIH. SLM-NO CORRECTION. W & R 90' T/BTM
	1630	2115	210	DRLD 5363'/5394'
	2115	2130	290	SERVICE RIG
	2130	500	210	DRLD 5394'/5470'
	500	830	210	DRLD 5470'/5498', TD
	830	1230	321	CIRC & COND F/LOGS
1230	1330	240	SURVEY, BTM HOLE LOC 23.64 S 299.30 W	
1330	1715	320	TOH T/LOG W/SCHLUMBERGER	
1715	500	310	RAN DIL-DCL-GR. FPT-GR. RD SCHLUMBER	
85 06 17	500	530	310	FIN RD SCHLUMBERGER
	530	800	420	TIH W/BIT
	800	1045	420	CIRC & COND HOLE F/7" CSG

DETAILED DRILLING HISTORY FOR MCELMO CREEK UT F-21

REPORT DATE	START	END	DRLG_CODE	REMARKS
85 06 18	1045	1445	410	PUMP SLUG, LDDP&DCS
	1445	100	440	RAN & CMT'D 7" CSG. DROP BOMB & OPEN STAGE COLL
	100	330	455	CIRC & WOC 1ST STAGE
	330	400	450	CMT 2ND STAGE
	400	500	455	WOC, ND BOP'S T/SET SLIPS
85 06 19	500	600	464	PU BOP'S, SET SLIPS IN FULL TENSION 125M#
	600	900	142	CLEAN PITS. RD. RELEASED RIG 0900 HRS

**UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 BUREAU OF LAND MANAGEMENT**

SUBMIT IN TRIPLICATE\*  
 (Other instructions on reverse side)

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
 Use "APPLICATION FOR PERMIT—" for such proposals.)

OIL WELL  GAS WELL  OTHER

1. NAME OF OPERATOR  
 SUPERIOR OIL COMPANY, through its Agent, MOBIL OIL CORP.

2. ADDRESS OF OPERATOR  
 P. O. DRAWER 'G', CORTEZ, COLORADO 81321

3. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
 See also space 17 below.)  
 At surface

925' FWL & 852' FNL

14. PERMIT NO.  
 43-037-31063

15. ELEVATIONS (Show whether DP, RT, CR, etc.)  
 GL: 4442'

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-370

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME

MCELMO CREEK

8. FARM OR LEASE NAME

9. WELL NO.

F21

10. FIELD AND POOL, OR WILDCAT

GREATER ANETH

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 13, T41S, R24E

12. COUNTY OR PARISH  
 SAN JUAN

13. STATE  
 UTAH

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PCLL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON\*

SHOOTING OR ACIDIZING

ABANDONMENT\*

REPAIR WELL

CHANGE PLANE

(Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state in pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Build Cathodic Protection System

To maximize effective corrosion control of metallic piping and structures down hole and above ground, Mobil Oil Corporation, Agent for Superior Oil Company, proposes to construct an electrified cathodic protection system consisting of a subsurface graphite anode bed connected to an above ground rectifier which has a lead connected to the well casing.

The construction will consist of a trench, 140' long, 6' deep and 2' wide in the old reserve pit area of the well location. All construction will be confined to existing disturbed area of well location. Existing electrical power to the well will be used for this cathodic protection system.

Mobil Oil Co.  
 Began Drilling 5/31/85  
 Finished Drilling 6/17/85

18. I hereby certify that the foregoing is true and correct

SIGNED

Clyde J. Benally  
 C. J. Benally

TITLE Sr. Regulatory Engineer

DATE 2/5/86

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

# Mobil Oil Corporation

P.O. BOX 5444  
DENVER, COLORADO 80217-5444

May 14, 1986

Utah Board of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Attn: R. J. Firth  
Associate Director

**RECEIVED**  
MAY 16 1986

DIVISION OF  
OIL, GAS & MINING

## SUPERIOR OIL COMPANY MERGER

Dear Mr. Firth:

On September 20, 1984, The Superior Oil Company (Superior) became a wholly owned subsidiary of Mobil Corporation. Since January 1, 1985, Mobil Oil Corporation (MOC), another wholly owned subsidiary of Mobil Corporation, has acted as agent for Superior and has operated the Superior-owned properties.

On April 24, 1986, Superior was merged with Mobil Exploration and Producing North America Inc. (MEPNA), which is also a wholly owned subsidiary of Mobil Corporation. MEPNA is the surviving company of the merger.

This letter is to advise you that all properties held in the name of Superior will now be held in the name of MEPNA; and that these properties will continue to be operated by MOC as agent for MEPNA.

Attached is a listing of all wells and a separate listing of injection-disposal wells, Designation of Agent and an organization chart illustrating the relationships of the various companies. If you have any questions or require additional documentation of this merger, please feel free to contact me at the above address or (303) 298-2577.

Very truly yours,



CNE/rd  
CNE8661

R. D. Baker  
Environmental Regulatory Manager

WESTERN REGULATORY WELL COMPLIANCE DATA FILE (PAGE 1 OF 2)  
 FOR THE CORTEZ SUPERVISOR AREA  
 FOR THE GREATER ANETH FIELD 05/13/06

PROPERTY NAME	WELL NAME	COUNTY	STATE	SEC	TWNSHP	RNG	WELL TYPE	ST A P I N U M B E R	FEDERAL LEASE NUMBER	STATE NUMBER	UNIT NUMBER
MC ELMO CREEK	F-18	SAN JUAN	UT	SW	NW	12-41S-24E	PROD OP	43-037-20184	14-20-603-5447		96-004190
	F-20	SAN JUAN	UT	SW	SW	12-41S-24E	PROD OP	43-037-15707	14-20-603-5450		96-004190
	F-21	SAN JUAN	UT	NW	NW	13-41S-24E	COMP	43-037-31063	14-20-603-370		96-004190
	F-22	SAN JUAN	UT	SW	NW	13-41S-24E	PROD OP	43-037-15947	14-20-603-370		96-004190
	F-23	SAN JUAN	UT	NW	SW	13-41S-24E	PROD OP	43-037-31031	14-20-603-370		96-004190
	F-24	SAN JUAN	UT	SW	SW	13-41S-24E	PROD OP	43-037-15948	14-20-603-370		96-004190
	F-25	SAN JUAN	UT	NW	NW	24-41S-24E	COMP	43-037-31032	14-20-603-370		96-004190
	F-26	SAN JUAN	UT	SW	NW	24-41S-24E	PROD OP	43-037-15949	14-20-603-370		96-004190
	F15A	SAN JUAN	UT	NW	SW	01-41S-24E	INJ OP	43-037-31149	14-20-603-4032		96-004190
	G-11	SAN JUAN	UT	NE	SW	36-40S-24E	PROD OP	43-037-30376	14-20-603-6146		96-004190
	G-12	SAN JUAN	UT	SE	SW	36-40S-24E	PROD OP	43-037-15618	14-20-603-6146		96-004190
	G-13	SAN JUAN	UT	NE	NW	01-41S-24E	PROD OP	43-037-30363	14-20-603-4032		96-004190
	G-14	SAN JUAN	UT	SE	NW	01-41S-24E	PROD OP	43-037-16143	14-20-603-4032		96-004190
	G-16	SAN JUAN	UT	SE	SW	01-41S-24E	PROD OP	43-037-16144	14-20-603-4032		96-004190
	G-17	SAN JUAN	UT	NE	NW	12-41S-24E	PROD OP	43-037-30378	14-20-603-4039		96-004190
	G-18	SAN JUAN	UT	SE	NW	12-41S-24E	INJ OP	43-037-15494	14-20-603-4039		96-004190
	G-18B	SAN JUAN	UT	NW	NE	12-41S-24E	PROD OP	43-037-30399	14-20-603-4039		96-004190
	G-19	SAN JUAN	UT	NE	SW	12-41S-24E	INJ OP	43-037-05532	14-20-603-5450		96-004190
	G-20	SAN JUAN	UT	SE	SW	12-41S-24E	COMP	43-037-31188	14-20-603-5450		96-004190
	G-21	SAN JUAN	UT	NE	NW	13-41S-24E	INJ SI	43-037-16347	14-20-603-370		96-004190
	G-21A	SAN JUAN	UT	NE	NW	13-41S-24E	INJ OP	43-037-30974	14-20-603-370		96-004190
	G-22	SAN JUAN	UT	NE	NW	13-41S-24E	PROD TA	43-037-31204	14-20-603-370		96-004190
	G-23	SAN JUAN	UT	NE	SW	13-41S-24E	INJ OP	43-037-16348	14-20-603-370		96-004190
	G-24	SAN JUAN	UT	SE	SW	13-41S-24E	PROD OP	43-037-31000	14-20-603-370		96-004190
	G-25	SAN JUAN	UT	NE	NW	24-41S-24E	INJ OP	43-037-16349	14-20-603-370		96-004190
	H-11	SAN JUAN	UT	NW	SE	36-40S-24E	INJ OP	43-037-05739	14-20-603-6145		96-004190
	H-12	SAN JUAN	UT	SW	SE	36-40S-24E	PROD OP	43-037-30360	14-20-603-6145		96-004190
	H-13	SAN JUAN	UT	NW	NE	01-41S-24E	INJ OP	43-037-05700	14-20-603-4032		96-004190
	H-14	SAN JUAN	UT	SW	NE	01-41S-24E	PROD OP	43-037-30362	14-20-603-4032		96-004190
	H-15	SAN JUAN	UT	NW	SE	01-41S-24E	INJ OP	43-037-05666	14-20-603-4039		96-004190



STATE OF UTAH  
 NATURAL RESOURCES  
 Oil, Gas & Mining

Norman H. Bangerter, Governor  
 Dee C. Hansen, Executive Director  
 Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

August 14, 1986

Mobil Expl. & Prod. N.A.  
 P O Drawer "G"  
 Cortez, Colorado 81321

*PAYU - THERE IS A PAUG 25 RPT  
 OF FIRST SALES. THIS SHOULD  
 BE ON THE TAD, AND THE  
 WCR ETC ARE STILL NEEDED*

Gentlemen:

Re: Well No. McElmo Creek F-21 - Sec. 13, T. 41S., R. 24E.,  
San Juan County, Utah - API #43-019-31063

A records review indicates that no required <sup>P</sup> reports for the referenced well have been filed since June 19, 1985. Monthly drilling reports must be submitted to account for the time between spudding and well completion.

Rule 312 of the Oil and Gas Conservation General Rules requires that Form DOGM-3 "Well Completion or Recompletion Report and Log" or copy of the equivalent federal form, along with copies of logs and tests run, be filed with this office not later than 90 days after completion.

Please use the address listed below to provide the required information at your earliest convenience, but not later than August 25, 1986.

Utah Division of Oil, Gas and Mining  
 Attention: Suspense File - Norm Stout  
 355 West North Temple  
 3 Triad Center, Suite 350  
 Salt Lake City, Utah 84180-1203

Respectfully,

Norman C. Stout  
 Records Manager

pk  
 cc: Dianne R. Nielson  
 Ronald J. Firth  
 John R. Baza  
 Well File  
 Suspense File

0170S/5

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
(Other instructions  
verse side)

082826

SUNDRY NOTICES AND REPORTS ON WELLS  
(Do not use this form for proposals to drill or to deepen or plug a well. Use "APPLICATION FOR PERMIT" for such purposes.)

RECEIVED  
AUG 25 1986

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO.	
2. NAME OF OPERATOR MOBIL E & P NORTH AMERICA (MEPNA*)		6. IF INDIAN, ALLOTTEE OR TRIBE NAME NAVAJO	
3. ADDRESS OF OPERATOR P. O. DRAWER 'G', CORTEZ, COLORADO 81320		7. UNIT AGREEMENT NAME MCELMO CREEK UNIT	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  925' FWL, 852' FNL OF SECTION 13		8. FARM OR LEASE NAME	
14. PERMIT NO. 43-037-31063		9. WELL NO. F-21	
15. ELEVATIONS (Show whether DF, ST, OR, etc.) GL: 4442'		10. FIELD AND POOL, OR WILDCAT GREATER ANETH	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC. 13, T41S, R24E,	
		12. COUNTY OR PARISH SAN JUAN	13. STATE UTAH

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	SHUT IN <input checked="" type="checkbox"/>
(Other) <input type="checkbox"/>			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

McElmo Creek Unit F-21 has been shut in as non-commercial. When last tested the well was producing 2 BOPD and 146 BWPD. At the current crude price the well cannot be produced economically. We request approval to leave the well shut in until crude price increase to a level that permits profitable production of the well.

\* Mobil Oil Corporation as Agent for MEPNA

18. I hereby certify that the foregoing is true and correct

SIGNED Paul S. Heide TITLE Operations Engineer DATE 08-21-86

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

November 10, 1986

MEPNA  
P O Drawer "G"  
Cortez, Colorado 81321

Gentlemen:

Re: Well No. McElmo Creek Unit #F-21 - Sec. 13, T. 41S, R. 24E  
San Juan County, Utah - API #43-037-31063

Rule 312 of the Oil and Gas Conservation General Rules requires that Form DOGM-3 "Well Completion or Recompletion Report and Log", along with copies of logs and tests run, be filed with this office not later than 90 days after well completion or termination of drilling operations.

Please complete and return the enclosed Form DOGM-3 or the equivalent federal form including copies of logs and tests which may have been run on the referenced well to the address listed below, at your earliest convenience, but not later than November 24, 1986.

Utah Division of Oil, Gas, and Mining  
Attention: Suspense File - Norm Stout  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Respectfully,

A handwritten signature in black ink, appearing to read 'Norman C. Stout'.

Norman C. Stout  
Records Manager

ts  
cc: Dianne R. Nielson  
Ronald J. Firth  
John R. Baza  
Well File  
Suspense File

0448S/60

# Mobil Oil Corporation

**RECEIVED**  
DEC 26 1986

DIVISION OF  
OIL, GAS & MINING

P.O. BOX 5444  
DENVER, COLORADO 80217-5444

December 19, 1986

State of Utah  
Oil, Gas & Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180-1203

Attn: Norm Stout

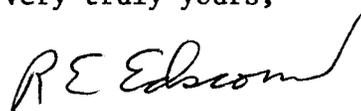
.21 GOVERNMENTAL REPORTING  
COMPLETION REPORT  
McELMO CREEK #F-21  
SAN JUAN COUNTY, UTAH

Gentlemen:

Attached is a completion report for the referenced well in McElmo Creek Unit.

If additional information is needed, please call Claude Corpian at  
303-298-2031.

Very truly yours,



J. E. Dawson  
Producing Accounting Supervisor

CGCorpian/dac  
011C CGC/0027  
Attachment

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

4

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. REVR.  Other \_\_\_\_\_

2. NAME OF OPERATOR  
Mobil Oil Corporation Agent for The Superior Oil Company

3. ADDRESS OF OPERATOR  
P. O. Box 5444; Denver, CO 80217

**RECEIVED**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface  
852' FNL, 925' FWL, Sec. 13  
At top prod. interval reported below

SEP 18 1985

BUREAU OF LAND MANAGEMENT  
FARMINGTON RESOURCE AREA

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-370

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo 010514

7. UNIT AGREEMENT NAME

McElmo Creek

8. FARM OR LEASE NAME

9. WELL NO.

F-21

10. FIELD AND POOL, OR WILDCAT

Greater Aneth

11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 13-T41S-R24E

12. COUNTY OR PARISH  
San Juan

13. STATE  
Utah

At total depth  
875.64' FNL, 625.70' FWL, Sec. 13

24. PERMIT NO. 43-037-31063  
DATE ISSUED 12-20-84

15. DATE SPUDDED 5-31-85  
16. DATE T.D. REACHED 6-17-85  
17. DATE COMPL. (Ready to prod.) 8-11-85  
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 4442 Ungraded GL  
19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 5498  
21. PLUG, BACK T.D., MD & TVD 5454  
22. IF MULTIPLE COMPL., HOW MANY\*  
23. INTERVALS DRILLED BY → ROTARY TOOLS XX CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
5290'-5316' Desert Creek I  
25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN  
GR-CBL-CCL-VDL micro, FOCW, DIL, EPL  
27. WAS WELL CORRED No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	54.5# K-55	126'		Cmt to surface	
9-5/8"	36# K-55	1282'	12-1/4"	Cmt w/600 sx to surface	
7"	23# K-55	5498'	8-3/4"	240 sx bottom 75sx thru DV	

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	5221	

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
INTERVAL	NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5290-5316	2 SPF	5290-5316	2890 HCL 12 bbl

33. PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
8-10-85		Flowing				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
8-11-85	24	48/64	→	64		264	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
50#	0	→					

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
Sold

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED J. Dawson TITLE Producing Accounting Supv.

ACCEPTED FOR RECORD  
Poney  
1985 8/18/85  
FARMINGTON RESOURCE AREA

\*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Ismay	5130		
Gothic Shale	5272		
Desert Creek	5283		
Chimney Rock	5463		

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH

RECEIVED  
 DEC 26 1986  
 DIVISION OF  
 OIL, GAS & MINING

COMPANY: MOBTE MEPWA UT ACCOUNT # U7370 SUSPENSE DATE: 3-16-87

TELEPHONE CONTACT DOCUMENTATION

CONTACT NAME: JOHN DAWSON *Certain try aft lunch*

CONTACT TELEPHONE NO.: ~~274-658-2620~~ 303-572-2696 *298-2696 Claude 2031 3-11*

SUBJECT: Need following logs: *298-2000 3621 2351*

GR-CBL-CCL-VDL

*fit # on list*

McELMO CREEK UNIT # F-2)  
4303731063  
415 24E 13

(Use attachments if necessary)

RESULTS: Already have *3-11-87 Claude will get on this*  
MICRO *and get us a copy of above*  
FDCN *wells.*  
D/L *UC*  
EPL

(Use attachments if necessary)

CONTACTED BY: UC

DATE: 3-2-87

COMPANY: ARBITER MEMPWA UT ACCOUNT # U7370 SUSPENSE DATE: 3-16-87

TELEPHONE CONTACT DOCUMENTATION

CONTACT NAME: JOHN DAWSON <sup>certian</sup> Claude <sup>try after lunch</sup> 2031 3-11

CONTACT TELEPHONE NO.: ~~274-658-2620~~ 303-572-2696  
278-2000 2621

SUBJECT: Need following logs:  
GR-CBL-CCL-VDL <sup>just # on list</sup> McELMID CREEK (UNIT # F-2)  
4303731063  
415 24E 13

(Use attachments if necessary)

RESULTS: Already have <sup>3-11-87</sup> Claude will get on this  
MICRO and get us a copy of above  
FDCN wells.  
D/L UC  
EPL

(Use attachments if necessary)

CONTACTED BY: UC

DATE: 3-2-87

**Mobil Oil Corporation**

**RECEIVED**  
APR 06 1987

**DIVISION OF  
OIL, GAS & MINING**

P.O. BOX 5444  
DENVER, COLORADO 80217-5444

April 2, 1987

State of Utah  
Oil, Gas & Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180-1203

.21 GOVERNMENTAL REPORTING  
McELMO CREEK #F-21  
SAN JUAN COUNTY, UTAH

Gentlemen:

Attached are the two logs recently requested for the referenced well.

If additional information is needed, please call Claude Corpian at (303) 298-2031.

Very truly yours,

*for J. E. Dawson*  
J. E. Dawson  
Producing Accounting Supervisor

CGCorpian/dac  
011C CGC/0044  
Attachments

SUNDRY NOTICES AND REPORTS ON WELLS

1. Oil Well  Gas Well  Other

2. Name Of Operator MOBIL OIL CORPORATION

3. Address Of Operator P.O. DRAWER 8, CORTEZ, COLORADO 81301

4. Location Of Well

ROCKY MOUNTAIN BODY NW 1/4 OF SECTION 13

14. Permit No.

481-47-107-71063

15. Elevation

EL:4442

6. Indian Allottee Tribe Name  
NAVAJO

7. Unit Agreement Name

MOBLINO CREEK

8. Farm Or Lease No.

**081309**

9. Well No.

F-01

10. Field And Pool. Or Wildcat

SEPARATE WORTH

11. Sec., T., R.,

SEC. 13, T. 41S., R. 04E.

12. County

SAN JUAN

13. State

UTAH

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

Notice Of Intention To :			Subsequent Report Of :				
Test Water Shut-off	<input type="checkbox"/>	Full Or Alter Casing	<input type="checkbox"/>	Water Shut-off	<input type="checkbox"/>	Repairing well	<input type="checkbox"/>
Fracture Treat	<input type="checkbox"/>	Multiple Complete	<input type="checkbox"/>	Fracture Treatment	<input type="checkbox"/>	Altering Casing	<input type="checkbox"/>
Block Or Acidize	<input type="checkbox"/>	Abandon	<input type="checkbox"/>	Shooting Or Acidizing	<input type="checkbox"/>	Abandonment	<input type="checkbox"/>
Plug Well	<input type="checkbox"/>	Change Plans	<input type="checkbox"/>	(Other) TEMPORARY ABANDONMENT	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Other	<input type="checkbox"/>		<input type="checkbox"/>				

17. Services Proposed Or Completed Operations

Mobil Oil requests extension of temporary abandonment status granted on August 28 1966.  
It is desired to hold this wellbore for future use in the field wide water-002 flood.

**RECEIVED**

**AUG 10 1967**

**DIVISION OF OIL  
GAS & MINING**

18. I hereby certify that the foregoing is true and correct

Signed P. S. HEIDE

*P.S. Heide*

Title ENGINEER

Date 08/05/67

Approved By

Title

Date

Conditions Of Approval If Any:

September 21, 1988

TO: Memo to File

FROM: Vicky Carney

RE: MC ELMO CREEK UNIT #F-21 - SEC 13 T41S R24E - SAN JUAN CO.  
API # 43 037 31063

Per telecommunication with Glenn Goodwin, Inspector for Oil, Gas & Mining, this well was completed as a flowing well. There was too much water and CO2 so the well was shut in. It has been shut in for years. As of this date, the well is still shut in.

An inspection report to this effect will follow.

The computer will be adjusted to show the well as shut in.



UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT DIVISION OF OIL, GAS & MIN.

- 5. Lease Designation & Serial No. 14-20-603-370
6. If Indian, Allottee or Tribe Name NAVAJO
7. Unit Agreement Name McELMO CREEK UNIT
8. Farm or Lease Name McELMO CREEK
9. Well No. F-21
10. Field and Pool, or Wildcat GREATER ANETH
11. Sec. T,R,M or BLK and Survey or Area SEC. 13, T41S, R24E
12. County, Parish SAN JUAN
13. State UTAH

SUNDRY NOTICES AND REPORTS ON WELLS

- 1. Oil Well /X/ Gas Well /\_/ Other:
2. Name of Operator MOBIL OIL CORPORATION
3. Address of Operator P. O. DRAWER 6, CORTEZ, CO. 81321
4. Location of Well 925' FWL, 852' FNL

14. Permit No. 43-037-31063 15. Elevations (DF, RT, GR) KB: 4614', DF: 4600'

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA. Notice of Intention To: Test Water Shut-off, Fracture Treat, Shoot or Acidize, Repair Well, (Other) REQUEST TEMPORARY ABANDON STATUS. Subsequent Report of: Water Shut-off, Fracture Treatment, Shooting/Acidizing, (Other). (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zone pertinent to this work) \*

Mobil Oil requests an extension of the Temporary Abandon Status for McElmo Creek Unit Well # F-21. This well is being held as a possible injection well replacement candidate in the event it is needed at a later time in the life of the CO2 EDR project at McElmo Creek.

18. I hereby certify that the foregoing is true and correct

Signed: M. T. Balog Title: Staff Operations Engineer Date: 07/24/89

(This space for Federal or State office use) APPROVED BY TITLE: DATE: CONDITIONS OF APPROVAL, IF ANY:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

1. Oil Well  Gas Well  Other:

2. Name of Operator  
MOBIL OIL CORPORATION

3. Address of Operator  
P. O. DRAWER 6, CORTEZ, CO. 81321

4. Location of Well  
  
925' FWL, 852' FNL

14. Permit No. 43-037-3763  
15. Elevations (DF, RT, GR)  
KB:4614' GL:4600

5. Lease Designation &  
Serial No.

14-20-603-370

6. If Indian, Allottee or Tribe Name  
NAVAJO

7. Unit Agreement Name  
MCELMO CREEK

8. Farm or Lease Name

9. Well No.  
F-21

10. Field and Pool, or Wildcat  
GREATER ANETH

11. Sec. T,R,M or BLK and  
Survey or Area  
SEC. 13, T41S, R24E

12. County, Parish 13. State

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

Notice of Intention To:

Subsequent Report of:

Test Water Shut-off  Pull or Alter Casing

Water Shut-off  Repairing Well

Fracture Treat  Multiple Complete

Fracture Treatment  Altering Casing

Shoot or Acidize  Abandon

Shooting/Acidizing  Abandonment

Repair Well  Change Plans

(Other)

(Other)

(NOTE: Report results of multiple completion on

EXTENSION ON LONG TERM SHUT-IN STATUS  
or Recompletion Report and Log Form.)

Well Completion

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zone pertinent to this work) †

MCU F-21 WAS ORIGINALLY SHUT-IN AS UNECONOMICAL. PRODUCTION TEST FROM THIS WELL INDICATE THAT IT IS IN A FRACTURED REGION OF THE RESERVOIR WHICH TYPICALLY PRODUCES VERY LARGE VOLUMES OF WATER WITH A SMALL OIL CUT. UNDER THESE CONDITIONS IT IS DIFFICULT TO ECONOMICALLY JUSTIFY RETURNING THIS WELL TO PRODUCTION. HOWEVER, MOBIL IS CURRNTLY REVIEWING THIS WELL TO SEE IF IT MAY HAVE ANY VALUE AS AN INJECTOR OR AS A CANDIDATE FOR ANY FUTURE POLYMER TESTING. AT THIS TIME, MOBIL REQUESTS THAT THE TA'D STATUS CONTINUE UNTIL LAST QUARTER OF 1989.

18. I hereby certify that the foregoing is true and correct

Signed: T.W. McPherson Title: ENGINEER Date: 09/12/88  
T.W. McPHERSON

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Federal approval of this action  
is required before commencing  
operations

ACCEPTED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 9-27-88  
BY: John R. Boy

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: September 30, 1990

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reenter wells.  
Use "APPLICATION FOR PERMIT—" for such proposals.

RECEIVED  
AUG 13 1990

5. Lease Designation and Serial No.  
14-20-603-370

6. If Indian, Allottee or Tribe Name  
NAVAJO

If Unit or CA, Agreement Designation  
MCELMO CREEK UNIT

8. Well Name and No.  
F-21

9. API Well No.  
43-037-31063

10. Field and Pool, or Exploratory Area  
GREATER ANETH

11. County or Parish, State  
SAN JUAN UTAH

SUBMIT IN TRIPLICATE

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
MOBIL OIL CORPORATION

3. Address and Telephone No. %Mobil Exploration & Producing U.S. Inc.  
P.O. Box 633 Midland, Texas 79702

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
925' FWL, 852' FNL SEC.13, T41S, R24E

DIVISION OF  
OIL, GAS & MINING

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection

**EXTENSION ON STATUS**  
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

MOBIL OIL REQUEST AN EXTENTSION ON TEMPORARY ABANDON STATUS . THIS WELL IS BEING CONSIDERED FOR INJECTION WELL REPLACEMENT. IF THIS WELL IS NOT USED FOR INJECTION THE WELL WILL THEN BE P & A'D

OIL AND GAS	
DFN	RJF
JFB	GLH
11S	SLS
1- [Signature]	
2-	MICROFILM ✓
3-	FILE

14. I hereby certify that the foregoing is true and correct

Signed Shuley Doda (915)688-2585 Title MOBIL EXPLORATION & PRODUCING U.S. INC. AS AGENT FOR MOBIL OIL CORPORATION Date 8-8-90

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See instruction on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.  
**14-20-603-370**

6. If Indian, Allottee or Tribe Name  
**NAVAJO TRIBAL**

**SUBMIT IN TRIPLICATE**

7. If Unit or CA, Agreement Designation  
**MCELMO CREEK UNIT**

1. Type of Well  
 Oil Well  Gas Well  Other

8. Well Name and No.  
**F-21**

2. Name of Operator  
**MOBIL OIL CORPORATION % MOBIL EXPLORATION & PRODUCING US INC.**

9. API Well No.  
**43-037-31063**

3. Address and Telephone No.  
**P.O. BOX 633; MIDLAND, TX 79702 (915) 688-2585**

10. Field and Pool, or Exploratory Area  
**GREATER ANETH**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**925' FWL 852' FNL SEC. 13, T41S, R24E**

11. County or Parish, State  
**SAN JUAN, UTAH**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>EXTENSION ON SI STATUS</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

MOBIL OIL REQUESTS AN EXTENSION ON LONG TERM SHUT IN STATUS. THIS WELL IS BEING CONSIDERED FOR INJECTION WELL REPLACEMENT. WHICH SOULD BE COMPLETED BY SECOND QUATER 1992.

RECEIVED

AUG 19 1991

DIVISION OF  
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed Shirley Todd SHIRLEY TODD Title ENV. & REG. TECH Date 8/14/91

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See instruction on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.  
**14-20-603-370**

6. If Indian, Allottee or Tribe Name

**NAVAJO TRIBAL**

7. If Unit or CA, Agreement Designation

**MCELMO CREEK UNIT**

8. Well Name and No.

**F-21**

9. API Well No.

**43-037-31063**

10. Field and Pool, or Exploratory Area

**GREATER ANETH**

11. County or Parish, State

**SAN JUAN, UT**

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil Well     Gas Well     Other

2. Name of Operator

**MOBIL OIL CORPORATION**

3. Address and Telephone No.

**P O BOX 633 MIDLAND, TX 79702**

**(915) 688-2585**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**925' FWL 852' FNL SEC. 13, T41S, R24E**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <b>EXTENSION ON SI STATUS</b>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**MOBIL OIL REQUESTS AN EXTENSION ON LONG TERM SHUT-IN STATUS. THIS WELL IS BEING CONSIDERED FOR INJECTION WELL REPLACEMENT.**

*Handwritten signature: Shirley Todd*  
*Handwritten number: 7-22-92*

**RECEIVED**

**JUL 20 1992**

**DIVISION OF  
OIL GAS & MINING**

14. I hereby certify that the foregoing is true and correct

Signed *Shirley Todd* **SHIRLEY TODD**

Title **ENV. & REG TECHNICIAN**

Date **7-14-92**

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

Date \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

FEB 12 1993

*Handwritten initials*

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
MOBIL OIL CORPORATION

3. Address and Telephone No.  
P O BOX 633 MIDLAND, TX 79702 (915) 688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
925' FWL 852' FNL SEC. 13, T41S, R24E

5. Lease Designation and Serial No.  
14-20-603-370

6. If Indian, Allottee or Tribe Name  
NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation  
MCELMO CREEK UNIT

8. Well Name and No.  
F-21

9. API Well No.  
43-037-31063

10. Field and Pool, or Exploratory Area  
GREATER ANETH

11. County or Parish, State  
SAN JUAN, UT

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
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	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>EXTENSION ON SI STATUS</u>
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	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)  
MOBIL OIL REQUESTS AN EXTENSION ON LONG TERM SHUT-IN STATUS. THIS WELL IS BEING CONSIDERED FOR INJECTION WELL REPLACEMENT.

*Handwritten signature: JAN Mathews*  
*Handwritten number: 2-2292*

RECEIVED  
JUL 20 1992  
DIVISION OF  
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed Shirley Todd SHIRLEY TODD

Title ENV. & REG TECHNICIAN

Date 7-14-92

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.  
**14-20-603-370**

6. If Indian, Allottee or Tribe Name  
**NAVAJO TRIBAL**

7. If Unit or CA, Agreement Designation  
**MCELMO CREEK UNIT**

8. Well Name and No.  
**F-21**

9. API Well No.  
**43-037-31063**

10. Field and Pool, or Exploratory Area  
**GREATER ANETH**

11. County or Parish, State  
**SAN JUAN, UT**

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
**MOBIL OIL CORPORATION**

3. Address and Telephone No.  
**P O BOX 633 MIDLAND, TX 79702 (915) 688-2585**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**925' FWL 852' FNL SEC. 13, T41S, R24E**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
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	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)  
**MOBIL OIL REQUESTS AN EXTENSION ON SHUT-IN STATUS. THIS WELL IS TO BE PLUGGED AND ABANDONED BY 4TH QUARTER 1993.**

**RECEIVED**

AUG 02 1993

DIVISION OF  
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed Shirley Todd **SHIRLEY TODD** Title **ENV. & REG TECHNICIAN** Date **7-28-93**

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
 Conditions of approval, if any:



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.  
14-20-603-370

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation  
MCELMO CREEK UNIT

8. Well Name and No.  
F-21

9. API Well No.  
43-037-31063

10. Field and Pool, or Exploratory Area  
GREATER ANETH

11. County or Parish, State  
SAN JUAN, UTAH

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
MOBIL EXPLORATION & PRODUCING U.S. INC.

3. Address and Telephone No.  
P O BOX 633 MIDLAND, TX 79702 (915) 688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
925' FWL, 852' FNL SEC. 13, T41S, R24E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

SEE ATTACHMENTS

**RECEIVED**

SEP 22 1993

DIVISION OF  
OIL, GAS & MINING

9/24/93  
*Matthew*

14. I hereby certify that the foregoing is true and correct

Signed Shirley Todd SHIRLEY TODD

Title ENV. & REG. TECHNICIAN

Date 9-16-93

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

Date \_\_\_\_\_

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

McElmo Creek Unit F-21  
Uneconomical Well

PLUG AND ABANDONMENT PROCEDURE

NOTE: Any revisions to the following procedure are subject to Mobil and BLM approval.

1. Notify Mark Kelley with the Bureau of Land Management at 505/599-8900 at least 48 hours prior to plugging the well. Document date/time BLM is notified and also document the date/time that BLM representative is on location.
2. MI workover rig. Load well with lease water. NU and PT BOP's. RIH with 6-1/8" bit without nozzles and bulldog bailer on 2-7/8" workstring and drill out cement at 5170' and CIBP at 5220'. CO to 5321'. POH. RU wireline unit. RIH with cement retainer on wireline and set at 5030' EL. POH. RD wireline unit. RIH with star-guide stinger and 500' of 2-3/8" CS Hydril tailpipe on 2-7/8" workstring. Sting into cement retainer and pressure test backside to 200 psi and monitor. Establish an injection rate of 1-2 BPM using lease water. Mix and pump 5 bbls fresh water spacer, 127 cu ft of class B 15.6 ppg neat cement, 5 bbls of fresh water spacer. Displace cement to cement retainer using lease water. Do not exceed 2000 psi surface injection pressure. Pull out of cement retainer and reverse out hole to 9 ppg fresh water mud having a minimum viscosity of 50 sec/qt containing a minimum of 15 lbs/bbl of sodium bentonite and a nonfermenting polymer.
3. PU to 4395' and spot 44 cu ft of class B 15.6 ppg neat cement from 4395'-4195'. Pull out of cement plug at less than 30 ft/min. WOC.
4. Tag top of cement plug with workstring. Cement top must be above 4245'. Spot additional cement as necessary. POH laying down all but 1400' of 2-7/8" workstring.
5. RIH with Servco K-mill or equivalent for 7", 23 lb/ft casing and drill collars as necessary on 2-7/8" workstring. Cut casing at 1400' and mill 1 ft to confirm cut. POH laying down all but 900' of workstring. Spear and recover 7", 23 lb/ft casing. If 7" casing string was recovered Go To Step No. 7.

6. If 7" casing string is cut but cannot be recovered, pump into 7" casing to insure that it can be squeezed. RIH with cement retainer on 500' of 2-3/8" CS Hydril tubing and 2-7/8" workstring and set at 1350'. PT backside to 200 psi and monitor. Establish injection rate of 1-2 BPM using 9 ppg mud taking returns on 7" casing annulus. Mix and pump 485 cu ft of class B 15.6 ppg neat cement (includes 100 percent excess as required by BLM) and displace cement to cement retainer. Note: If get good uncontaminated cement returns, the pumping of cement can be discontinued. Pull out of cement retainer and reverse out with 9 ppg mud. POH and lay down drag block setting tool. RIH with 500' of 2-3/8" CS Hydril tailpipe on 2-7/8" workstring to top of cement retainer at 1350'. Fill hole with class B 15.6 ppg neat cement in 400' stages, laying down workstring while POH. Calculated volume required to fill hole is 299 cu ft. Go To Step No. 8.
7. RIH with 500' of 2-3/8" CS Hydril tailpipe on 2-7/8" workstring to 1400'. Fill hole from 1400' to surface with class B 15.6 ppg neat cement in 400' stages, laying down workstring while POH. Calculated volume required to fill hole is 606 cu ft.
8. If top of casing strings are above ground level, cut off casing strings at ground level. Top off all casing annuli with cement. Use 1" spaghetti string if necessary to spot cement. Weld on a 1/4" steel plate having a 1/4" weep hole. Steel plate should cover all casing strings and have the following information welded to the top of the plate:

Mobil E&P U.S., Inc.  
McElmo Creek Unit #F-21  
Navajo Tribal Lease  
14-20-603-370  
852' FNL, 925' FWL  
Sec. 13 - T41S - R24E  
San Juan Co., Utah
9. RDMD workover rig. Haul off salvaged equipment and clean location. Notify Shirley Todd with Mobil at 918/688-2585 when work is completed so that a Sundry Notice (Subsequent Report of Abandonment, Form 3160-5) can be filed with the Bureau of Land Management.

Mobil Operations Engineer: Sean S. Murphy  
Office Phone: 303/565-2208  
Home Phone: 303/564-9423

McElmo Creek Unit # F-21

API # 43-037-31063

JOB OR AUTH. NO.

LOCATION 925' FWL, 852' FNL Sec. 13-T41S-R24E

PAGE

SUBJECT Plug and Abandon

DATE 8/Sept/93

LEASE 14-20-603-370

BY S. S. Murphy

EXISTING

KB 4614'  
GL 4600'

Top of Chinle at ± 1300'  
TOC at 2306' (Calc.)

13-3/8", 54.5# K-55 at  
126' cnt'd to surface

9-5/8", 36# K-55 Csg  
at 1282' cnt'd w/600sxs  
to surface

DV tool at 2805' cnt'd w/75sxs

TOC at 3901' (Calc.)

Top of Hermosa 4295'

TOP of Ismay at 5130'

CIBP at 5220'  
w/50' cnt on top

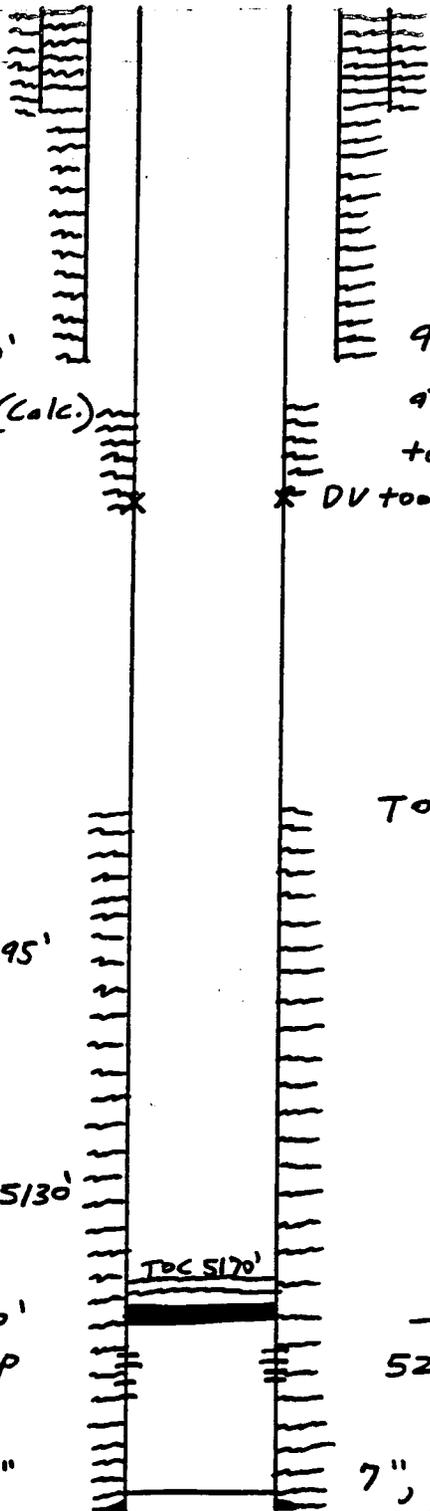
PERFS

5290-5316' w/2SPF

Hole Size: 8-3/4"

7", 23# K-55 Csg at  
5498' cnt'd w/240sxs +  
75sxs through DV tool at 2805'

PBTD 5170'  
TD 5498'



McElmo Creek Unit # F-21

API # 43-037-31063

JOB OR AUTH. NO.

LOCATION 925' FWL, 852' FNL Sec. 13-T41S-R24E

PAGE

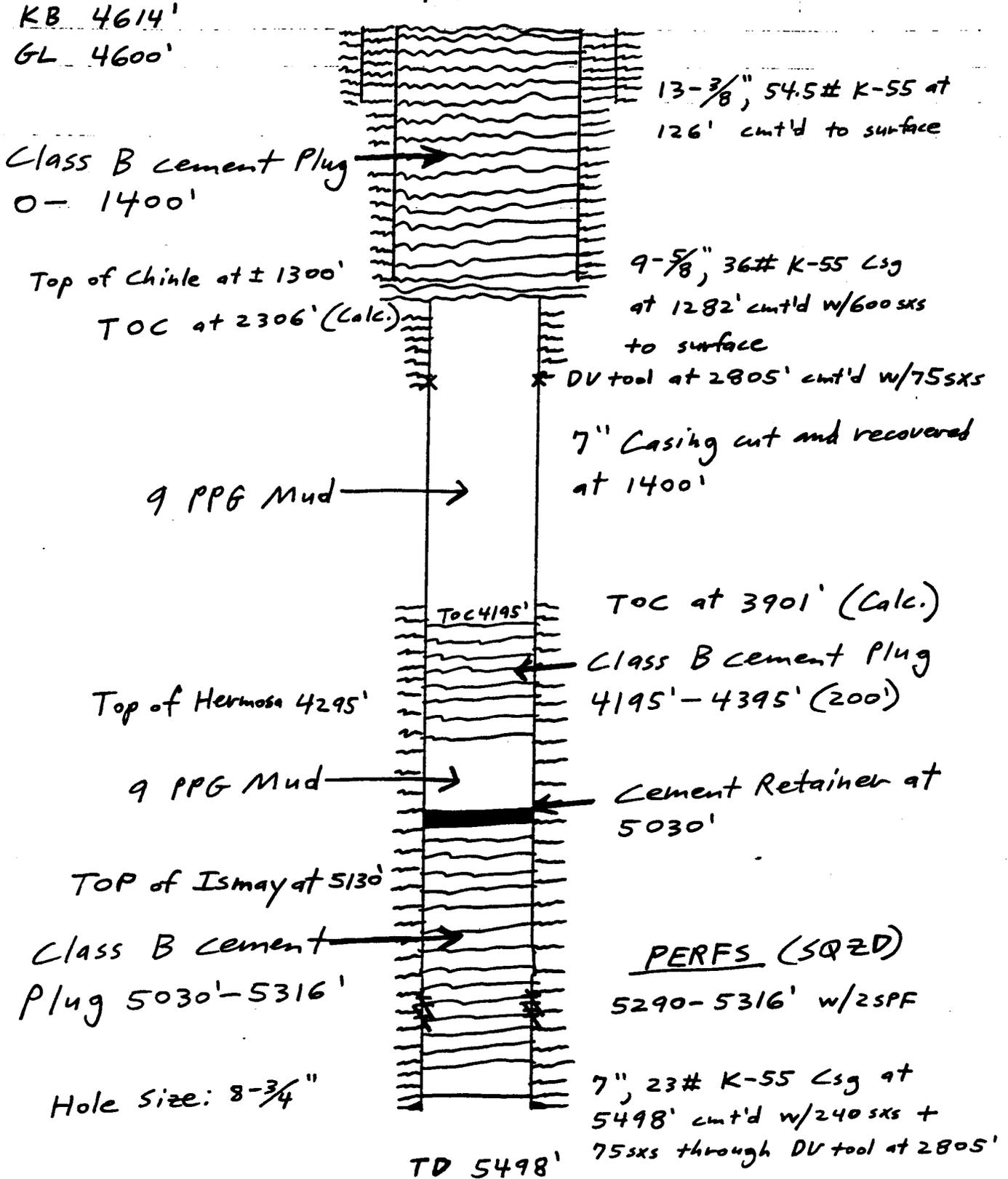
SUBJECT Plug and Abandon

DATE 8/Sept/93

LEASE 14-20-603-370

BY S. S. Murphy

PROPOSED



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.  
14-20-603-370

6. If Indian, Allottee or Tribe Name  
NAVAJO TRIBAL

**SUBMIT IN TRIPLICATE**

7. If Unit or CA, Agreement Designation  
MCELMO CREEK UNIT

1. Type of Well

Oil Well     Gas Well     Other

8. Well Name and No.  
F-21

2. Name of Operator

MOBIL EXPLORATION & PRODUCNG U.S. INC.

9. API Well No.  
43-037-31063

3. Address and Telephone No.

P.O. BOX 633, MIDLAND TX 79702

(915) 688-2585

10. Field and Pool, or Exploratory Area  
GREATER ANETH

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

925' FWL, 852' FNL SEC. 13, T41S, R24E

11. County or Parish, State  
SAN JUAN, UTAH

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input checked="" type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

10/20 MIRU - NOTIFY RON SNOW OF THE BLM

10/21 RON SNOW ON LOCATION - TAG CMT AT 5176' - SPOT 26 SX CLASS B 1.18 YIELD, 15.6#/GAL - SPOT 37 SX CLASS B 1.18 YIELD, 15.6#/GAL AT 4395' (200') - PERF W/4 SPF 1396 - 1400 - CMT BACKSIDE TO SURFACE W/275 SX CLASS B 1.18 YIELD, 15.6#/GAL - CMT TO SURF IN 400' STAGES FROM RET AT 1350' W/255 SX, CLASS B 1.18 YIELD 15.6#/GAL

10/29 CUT OFF CSG - TOP OFF W/CMT WELD ON PLATE, EXTENSION & SURFACE INFORMATION PLATE - FILL HOLE

RECEIVED

NOV 23 1993

DIVISION OF  
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed S. Boyer for SHIRLEY TODD

Title ENVIRONMENTAL & REGULATORY TECH

Date 11/19/93

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

Date \_\_\_\_\_

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an Abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. See Listing below
2. Name of Operator Mobil Producing TX & NM Inc* *Mobil Exploration & Producing US Inc as agent for MPTM		6. If Indian, Allottee or Tribe Name NAVAJO TRIBAL
3a. Address P.O. Box 4358, Houston, TX 77210-4358	3b. Phone No. (include area code) 713-431-1022	7. If Unit or CA/Agreement, Name and/or No. McElmo Creek Unit
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) See Listing below		8. Well Name and No. See Listing below
		9. API Well No. See Listing below
		10. Field and Pool, or Exploratory Area Greater Aneth
		11. County or Parish, State San Juan, UTAH

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input checked="" type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Final Clearance</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection)

Mobil Exploration & Producing US Inc. as agent for Mobil Producing Texas & New Mexico Inc. & Mobil Exploration & Producing North America Inc requests Final Clearance on the following Abandoned wells as listed in Letter 3160 (07200):

- 1) McElmo Creek T-04, 660' FSL & 1980' FEL, Sec. 21 T40S-R25E, Lease # 14-20-603-2048A; -43-037-16306
- 2) McElmo Creek T-06, 1980' FNL & 1980' FEL, Sec. 28 T40S-R25E, Lease # 14-20-603-2048A; -43-037-15332
- 3) McElmo Creek R-06, 1980' FNL & 660' FWL, Sec. 28 T40S-R25E, Lease # 14-20-603-2048A; -43-037-10241
- 4) McElmo Creek T-09, 790' FNL & 2035' FEL, Sec. 33 T40S-R25E, Lease # 14-20-603-2057; -43-037-16153
- 5) McElmo Creek F-23, 2230' FSL & 765' FWL, Sec. 13 T41S-R24E, Lease # 14-20-603-370; -43-037-131031
- 6) McElmo Creek F-24, 565' FSL & 760' FWL, Sec. 13 T41S-R24E, Lease # 14-20-603-370; -43-037-15948
- 7) McElmo Creek F-21, 852' FNL & 925' FWL, Sec. 13 T41S-R24E, Lease # 14-20-603-370; -43-037-13063
- 8) McElmo Creek W-14, 2065' FNL & 1820' FWL, Sec. 03 T41S-R25E, Lease # 14-20-603-2057; -43-037-16160
- 9) McElmo Creek W-16, 535' FSL & 1830' FWL, Sec. 03 T41S-R25E, Lease # 14-20-603-2057; -43-037-16161
- 10) McElmo Creek V-17, 447' FNL & 428' FWL, Sec. 10 T41S-R25E, Lease # 14-20-603-359; -43-037-130093
- 11) McElmo Creek L-27, 1980' FSL & 1980' FEL, Sec. 19 T41S-R25E, Lease # 14-20-603-264; -43-037-15509
- 12) McElmo Creek K-26, 1980' FNL & 1810' FWL, Sec. 19 T41S-R24E, Lease # 14-20-603-264; -43-037-15558
- 13) McElmo Creek N-25, 660' FNL & 660' FWL, Sec. 20 T41S-R25E, Lease # 14-20-603-264; -43-037-10559

DIVISION OF  
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) <b>MARK DEL PICO</b>	Title Regulatory Specialist
Signature <i>M. Del Pico</i>	Date 11/16/00

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an Abandoned well. Use Form 3160-3 (APD) for such proposals.*

*SUBMIT IN TRIPLICATE - Other Instructions on reverse side*

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. See Listing Below
2. Name of Operator Mobil Producing TX & NM Inc.* *Mobil Exploration & Producing US Inc. as agent for MPTM		6. If Indian, Allottee or Tribe Name NAVAJO TRIBAL
3a. Address P.O. Box 4358, Houston, TX 77210-4358	3b. Phone No. (include area code) 713-431-1828	7. If Unit or CA/Agreement, Name and/or No. McElmo Creek Unit
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) See Listing Below		8. Well Name and No. See Listing Below
		9. API Well No. See Listing Below
		10. Field and Pool, or Exploratory Area Greater Aneth
		11. County or Parish, State San Juan, UTAH

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input checked="" type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Bond Release</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection)

**BOND RELEASE: THE SUBJECT LOCATIONS HAVE BEEN RECLAIMED AND ARE READY FOR INSPECTION AND BOND RELEASE. PLEASE RELEASE MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR MOBIL PRODUCING TX & NM INC. FROM ANY FURTHER LIABILITY FOR THESE LOCATIONS AND REMOVE THEM FROM THE FEDERAL BOND LISTING.**

- |                        |                    |                    |                                       |
|------------------------|--------------------|--------------------|---------------------------------------|
| 1) McElmo Creek T-04,  | 660'FSL/1980'FEL,  | Sec. 21 T40S-R25E, | Lease #14-20-603-2048A - 43-037-16376 |
| 2) McElmo Creek T-06,  | 1980'FNL/1980'FEL, | Sec. 28 T40S-R25E, | Lease #14-20-603-2048A - 43-037-15332 |
| 3) McElmo Creek R-06,  | 1980'FSL/660'FWL,  | Sec. 28 T40S-R25E, | Lease #14-20-603-2048A - 43-037-10241 |
| 4) McElmo Creek T-09,  | 790'FNL/2035'FEL,  | Sec. 33 T40S-R25E, | Lease #14-20-603-2057 - 43-037-16153  |
| 5) McElmo Creek F-23,  | 2230'FSL/765'FWL,  | Sec. 13 T41S-R24E, | Lease #14-20-603-370 - 43-037-31031   |
| 6) McElmo Creek F-24,  | 565'FSL/760'FWL,   | Sec. 13 T41S-R24E, | Lease #14-20-603-370 - 43-037-15948   |
| 7) McElmo Creek F-21,  | 852'FNL/925'FWL,   | Sec. 13 T41S-R24E, | Lease #14-20-603-370 - 43-037-31063   |
| 8) McElmo Creek W-14,  | 2065'FNL/1820'FWL, | Sec. 03 T41S-R25E, | Lease #14-20-603-2057 - 43-037-16160  |
| 9) McElmo Creek W-16,  | 535'FSL/1830'FWL,  | Sec. 03 T41S-R25E, | Lease #14-20-603-2057 - 43-037-16161  |
| 10) McElmo Creek V-17, | 447'FSL/1980'FEL,  | Sec. 10 T41S-R25E, | Lease #14-20-603-359 - 43-037-20093   |
| 11) McElmo Creek L-27, | 1980'FSL/1980'FEL, | Sec. 19 T41S-R25E, | Lease #14-20-603-264 - 43-037-15509   |
| 12) McElmo Creek K-26, | 1980'FNL/1810'FWL, | Sec. 19 T41S-R24E, | Lease #14-20-603-264 - 43-037-10558   |
| 13) McElmo Creek N-25, | 660'FNL/660'FWL,   | Sec. 20 T41S-R25E, | Lease #14-20-603-264 - 43-037-10559   |

OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)  
Cathy Higginbotham

Title Staff Administrative Assistant

Signature *Cathy Higginbotham*

Date 1/10/01

Approved By \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office \_\_\_\_\_

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.