

UTAH DIVISION OF OIL AND GAS CONSERVATION

REMARKS: WELL LOG \_\_\_\_\_ ELECTRIC LOGS \_\_\_\_\_ FILE X WATER SANDS \_\_\_\_\_ LOCATION INSPECTED \_\_\_\_\_ SUB. REPORT /abd. \_\_\_\_\_

DATE FILED 11-14-77

LAND: FEE & PATENTED \_\_\_\_\_ STATE LEASE NO. \_\_\_\_\_ PUBLIC LEASE NO. \_\_\_\_\_ INDIAN 14-20-603-359

DRILLING APPROVED: 11-10-77

SPUDED IN:

COMPLETED: \_\_\_\_\_ PUT TO PRODUCING: \_\_\_\_\_

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION: 4503' GR

DATE ABANDONED: 3-19-80 LOCATION ABANDONED DUE TO FAILURE TO SPUD IN REASONABLE TIME

FIELD: GREATER ANETH 386

UNIT: McELMO CREEK UNIT

COUNTY: SAN JUAN COUNTY

WELL NO. McELMO CREEK UNIT #S-23

API NO: 43-037-30403

LOCATION 2938' FT. FROM (N) (X) LINE. 1772' FT. FROM (E) (W) LINE. NE SW 1/4 - 1/4 SEC.

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				41S.	25E.	16	THE SUPERIOR OIL COMPANY

**FILE NOTATIONS:**

Entered in NID File .....	Checked by Chief .....
Location Map Pinned .....	Approval Letter .....
Card Indexed .....	Disapproval Letter .....

**COMPLETION DATA:**

ate Well Completed .....	Location Inspected .....
..... WW..... TA.....	Bond released
GW..... OS..... PA.....	State or Fee Land .....

**LOGS FILED**

Driller's Log.....  
Electric Logs (No.) .....

E.....	I.....	Dual I Lat.....	GR-N.....	Micro.....
AC	Sonic GR.....	Lat.....	MI-L.....	Sonic.....
CBLog.....	CCLog.....	Others.....		

11-29-91 JCR

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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  
 THE 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.)\*  
 At surface  
 2938' FNL, 1772' FWL, SEC. 16, T41S, R25E, SLB&M  
 At proposed prod. zone  
 NE SW

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 0.4 Miles NE of Aneth, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 680'

16. NO. OF ACRES IN LEASE

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. 1000'

19. PROPOSED DEPTH 5495'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 4503' Ungraded Ground Level

22. APPROX. DATE WORK WILL START\*  
 Dec. 1, 1977

5. LEASE DESIGNATION AND SERIAL NO.  
 14-20-603-359

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
 NAVAJO

7. UNIT AGREEMENT NAME  
 McELMO CREEK UNIT

8. FARM OR LEASE NAME

9. WELL NO.  
 MCU #S-23

10. FIELD AND POOL, OR WILDCAT  
 GREATER ANETH

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 SEC. 16, T41S, R25E

12. COUNTY OR PARISH  
 SAN JUAN

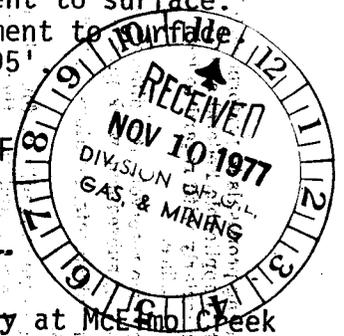
13. STATE  
 UTAH

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"	48#	100'	To Surface
12-1/4"	8-5/8"	24#	1200'	To Surface
7-7/8"	5-1/5"	14 & 15.5#	5495'	250 Sacks

1. Drill 17-1/2" hole to 100'. Set 13-3/8" casing to 100' and cement to surface.
2. Drill 12-1/4" hole to 1200'. Set 8-5/8" casing to 1200' and cement to surface.
3. Drill 7-7/8" hole through Desert Creek Zone at approximately 5495'.
4. Log well.
5. Set 5-1/2" casing at 5495' and cement with 250 sacks.
6. Perforate Desert Creek and stimulate.

APPROVED BY THE DIVISION OF  
 OIL, GAS, AND MINING  
 DATE: 11-10-77



This well is a part of a 40 acre infill drilling program now underway at McElmo Creek Unit.

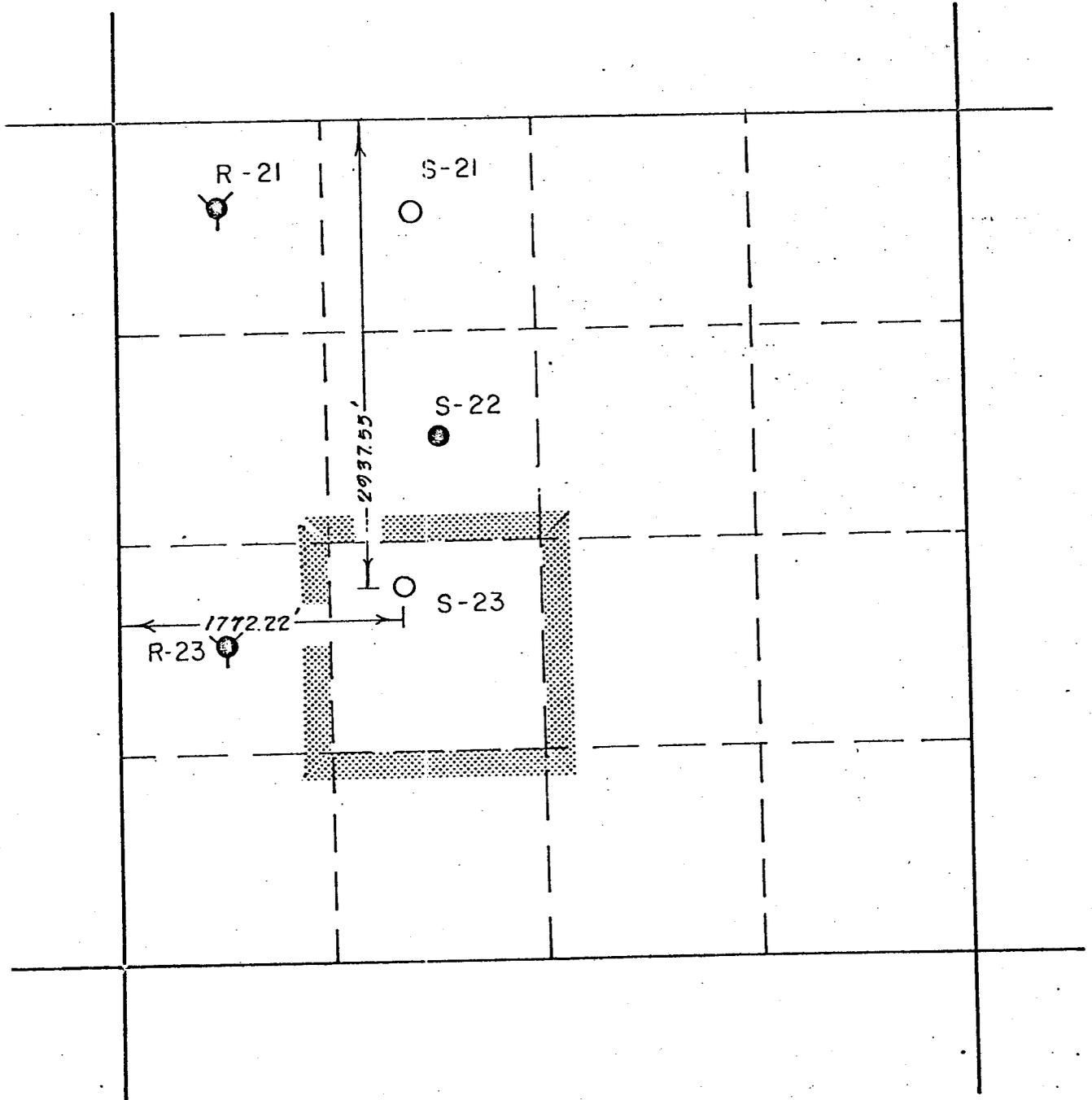
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer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

24. SIGNED Charles L. Hill TITLE Sr. Area Engineer DATE Nov. 4, 1977

(This space for Federal or State office use)  
 PERMIT NO. Cause # 152-2 APPROVAL DATE \_\_\_\_\_  
 APPROVED BY 43-034-30403 TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

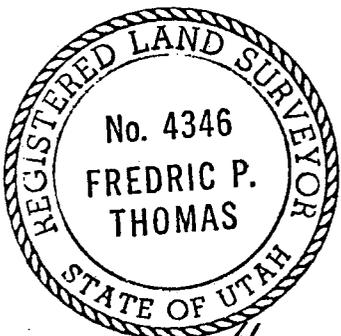
THE SUPERIOR OIL COMPANY  
Operator

WELL NO. MCU S - 23



NE / SW SECTION 16, T41 S, R 25 E

McELMO CREEK UNIT  
San Juan Co., Utah

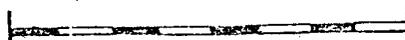


*Fredric P. Thomas*



- Location
- Well
- ⊕ Injector

Scale 1" = 1000'



# THE SUPERIOR OIL COMPANY

P. O. DRAWER G

CORTEZ, COLORADO 81321

November 4, 1977

Mr. P. T. McGrath  
District Engineer  
U. S. Geological Survey  
P. O. Box 959  
Farmington, New Mexico 87401

Re: Surface Use Development Plan  
Proposed Well  
McElmo Creek Unit #S-23  
2938' FNL, 1772' FWL  
Section 16, T41S, R25E  
San Juan County, Utah

Dear Mr. McGrath:

The "Surface Use Development Plan" for the proposed McElmo Creek Unit Well #S-23 is as follows:

1. The existing roads and the location of the main highway exit are shown on the attached road and pipeline map.
2. A new 300' X 30' access road is required, as shown on the attached plat. The proposed road will run southeast to the location and will be of compacted sand and gravel with a maximum grade of 3%. The road will be constructed so as to provide for adequate drainage. No major cuts or fills will be necessary.
3. The location and status of wells in the vicinity are shown on the attached plat.
4. The location of existing tank batteries, flow lines and lateral roads in the vicinity of the proposed well are shown on the attached plat. The 2" flow line for the proposed well will run 1000' north to an existing flow line.
5. Water for drilling operations will be obtained from the San Juan River.
6. Material necessary for the construction of the access road and drilling pad will be obtained from the location. No access roads for the purpose of hauling materials will be necessary.
7. Waste materials will be collected in earth pits. The perimeter of these pits will be fenced with small mesh wire. When drilling operations are complete these earth pits will be backfilled and leveled to the contour of the original landscape. Small portable trailer houses for the company and contract drilling personnel may be on the location. A sufficient number of OSHA approved chemical toilets will be provided and maintained.

8. No permanent campsites or airstrips are anticipated.
9. The location and position of drilling equipment is shown on the attached plat. Included on this plat is a cross section diagram showing cuts and fills necessary for the construction of the drilling pad. The drilling pad will be located approximately at ground level. Materials at the the location will be used for elevation on the pad.
10. The proposed drillsite is located on a sandstone outcrop near the San Juan River. Surface land is owned by the Navajo Tribe and is used primarily for grazing. Vegetation consists of sparse desert type ground cover and Tamarisks. There are no Indian habitations or artifacts in the immediate vicinity of the proposed drillsite, access road, flow line, construction material site or roads used in transportation of material.

Very truly yours,

THE SUPERIOR OIL COMPANY

*Charles L. Hill*  
Charles L. Hill

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by THE SUPERIOR OIL COMPANY and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Nov. 4, 77  
Date

*Wm. H. Edwards*  
Wm. H. Edwards, Area Production Superintendent

SUPPLEMENT TO FORM 9-331C

WELL: MCU #S-23

SURFACE FORMATION WHERE PROPOSED DRILLING IS TO TAKE PLACE: Dakota

ESTIMATED FORMATION TOPS: (Measured from estimated KB at 4516')

Chinle	1171'
DeChelly	2441'
Ismay	5166'
Gothic Shale	5311'
Desert Creek	5331'
Chimney Rock	5466'
TD	5495'

WATER BEARING FORMATIONS: Water is expected to be encountered intermittently from 400' to 1171'.

HYDROCARBON BEARING FORMATIONS: Oil and gas are expected to be encountered intermittently from 5331' to 5466'.

MUD PROGRAM: Surface to 2000' - Water.

2000' to 4900' - Lignosulfonate or similar mud system; no water loss control, weighted as necessary with Barite.

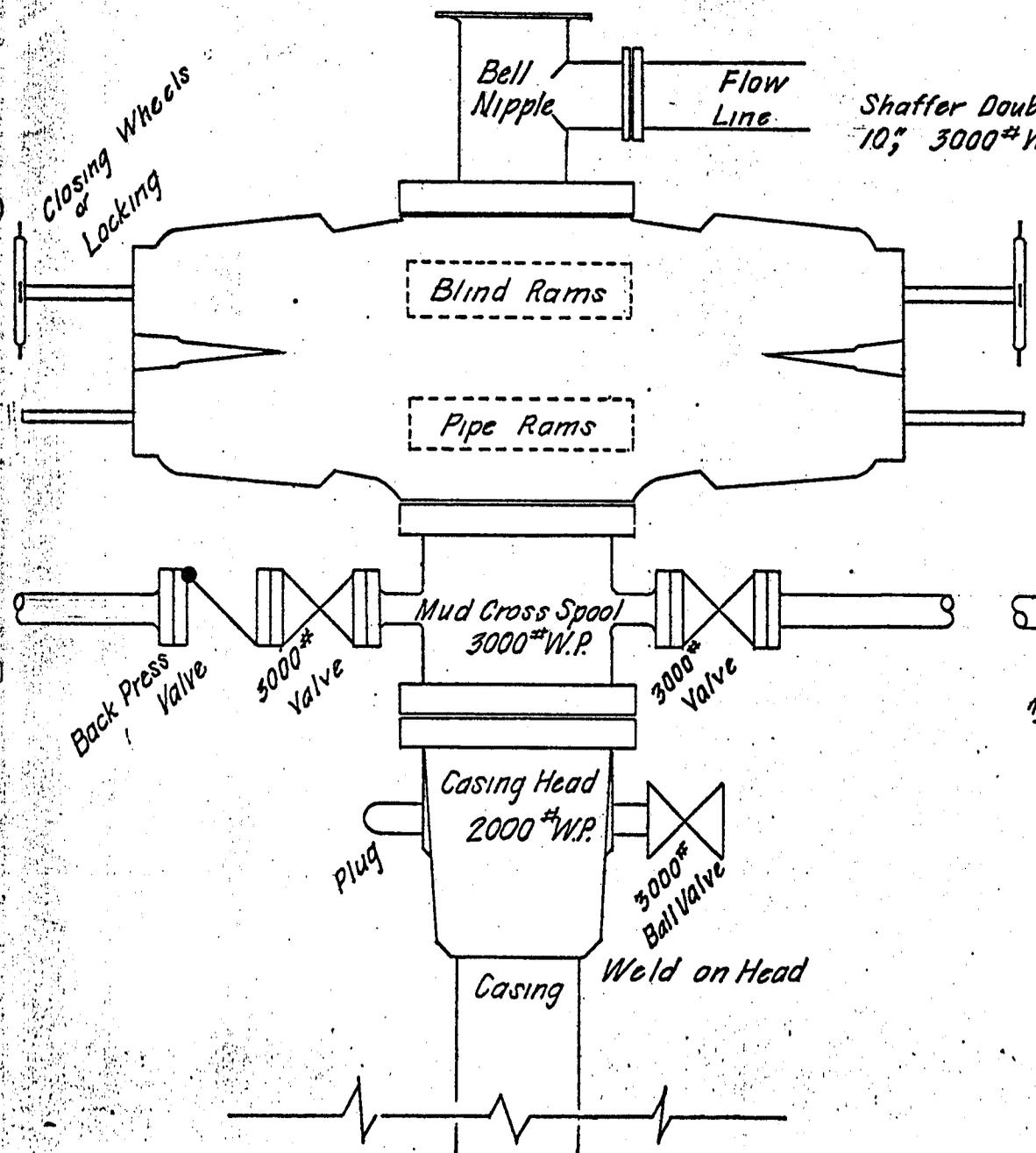
4900' to TD - Lignosulfonate or similar mud system; 15 cc water loss, weighted as necessary with Barite.

CEMENT PROGRAM: Surface - Cement to surface w/600 sx B. J. Light w/10#/sk Gilsonite, followed w/100 sx Class "B" Neat w/2% CaCl at 15.6 ppg.

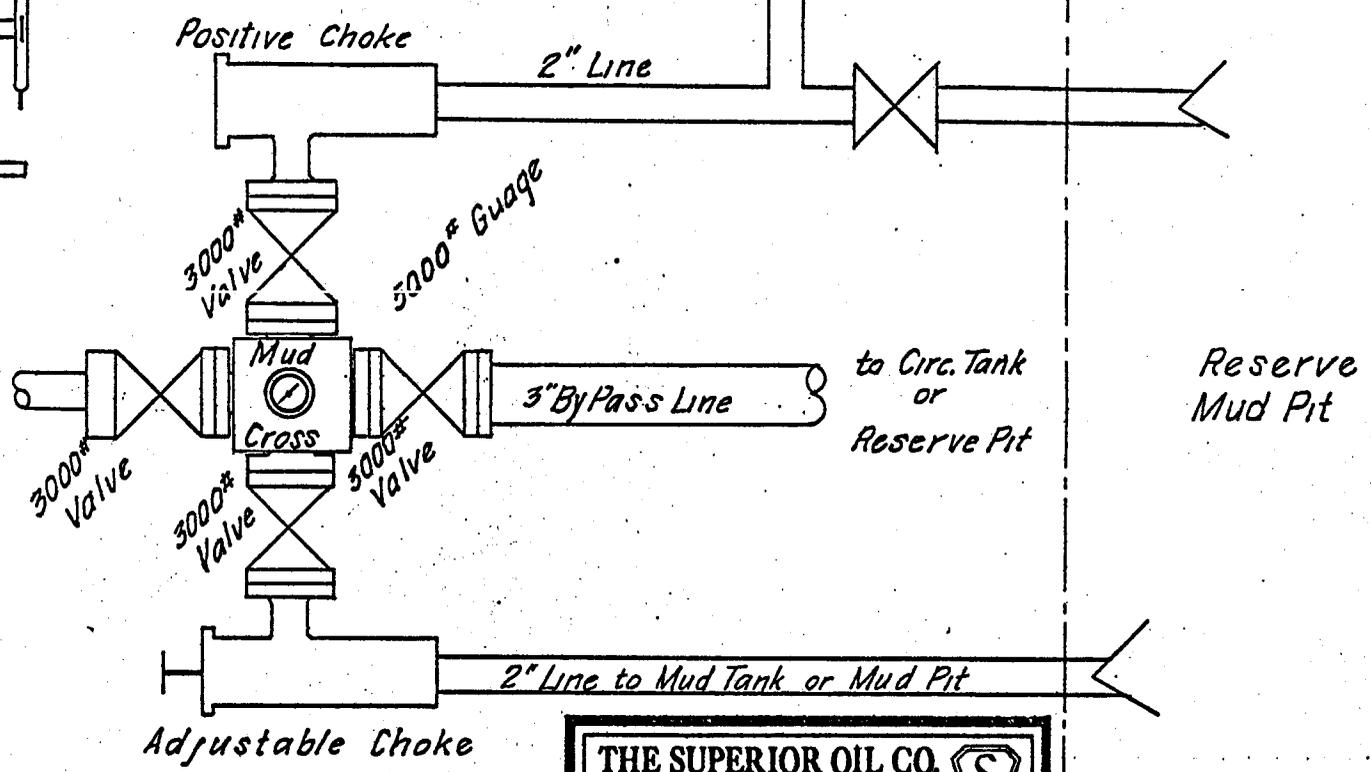
Production - 250 sx Class "B" with 5#/sk salt, 1/2#/sk Firm set and 3/4% CFR-2.

LOGGING PROGRAM: CNL/DENSITY/GR and DUAL IND/LATERLOG - TD to 5000'.

PRESSURE CONTROLS: Blowout preventer equipment will be 10" Series 600 with blind rams and drill pipe rams hydraulically and manually controlled. The schematic of the pressure control equipment can be seen on the following page. The mud system will be monitored by visual inspection.



Shaffer Double Gate Blow Out Preventer  
10"; 3000# W.P., 6000# Test, Type E

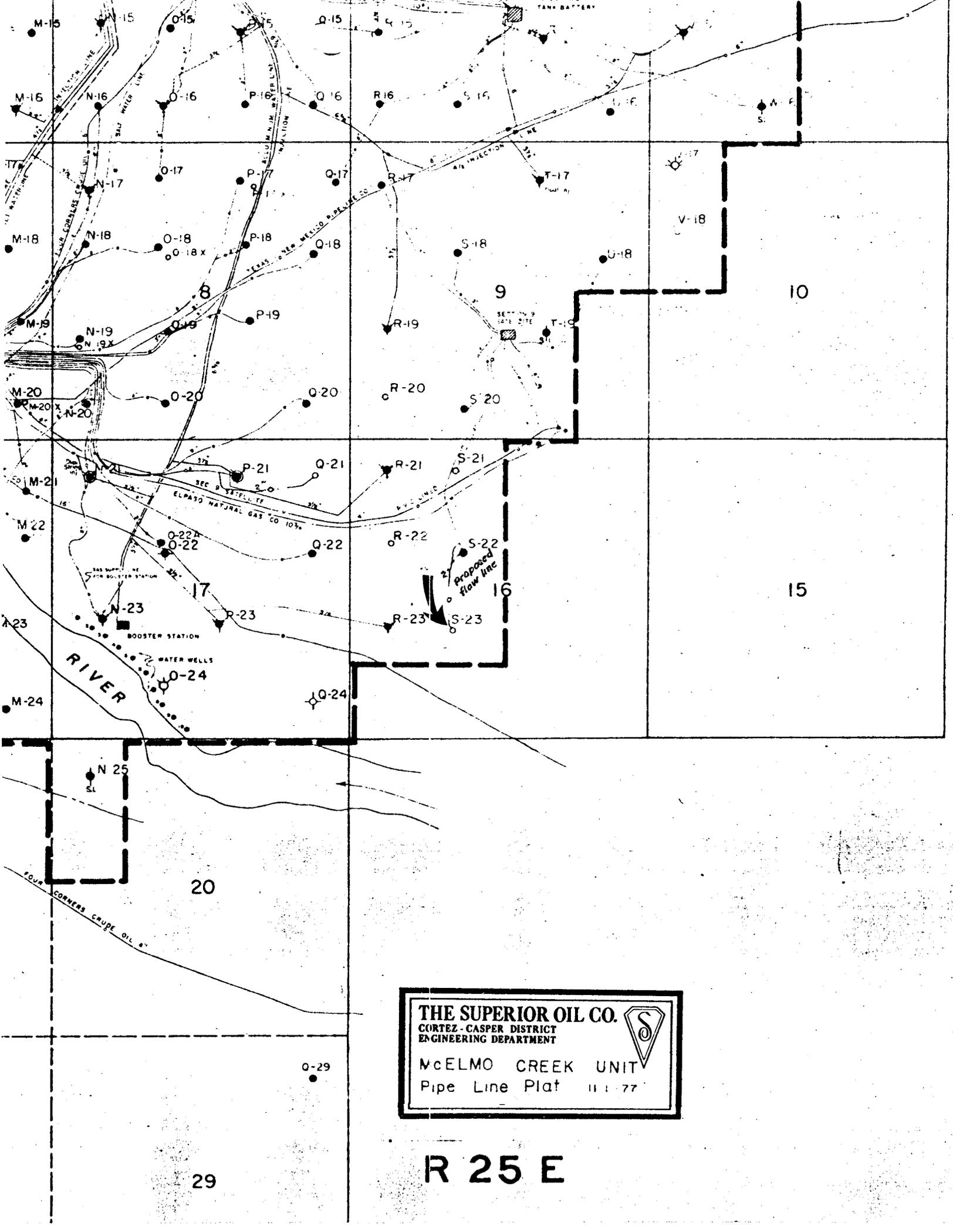


Circulating Tank

to Circ. Tank or Reserve Pit

Reserve Mud Pit

**THE SUPERIOR OIL CO.**   
 CORTEZ-CASPER DISTRICT  
 ENGINEERING DEPARTMENT  
 SCHEMATIC DIAGRAM OF  
 PRESSURE CONTROL  
 EQUIPMENT  
 BY MHT NONE      DATE REVISED 8-12-76  
 SCALE NONE

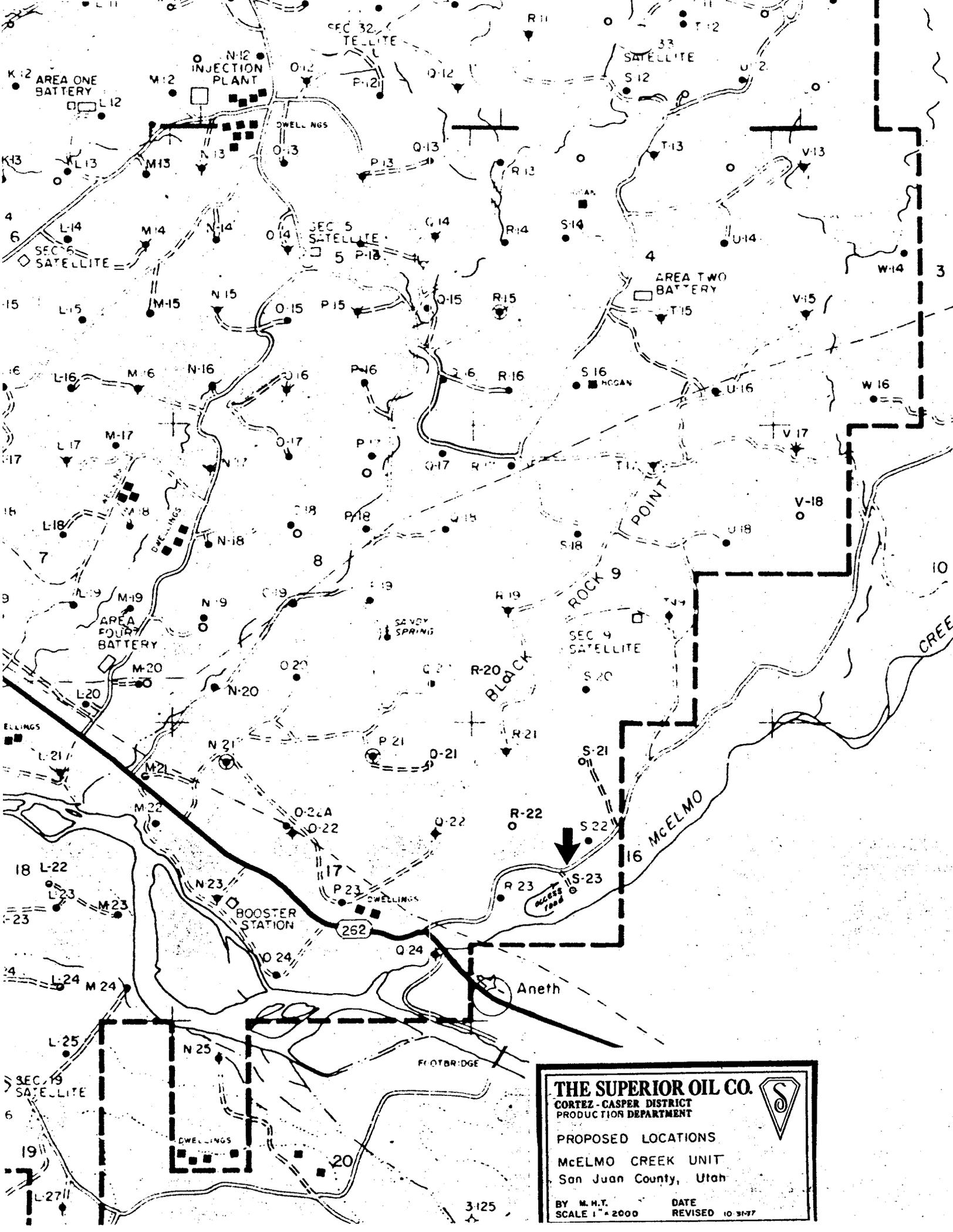


**THE SUPERIOR OIL CO.**  
 CORTEZ-CASPER DISTRICT  
 ENGINEERING DEPARTMENT



McELMO CREEK UNIT  
 Pipe Line Plat 11177

**R 25 E**



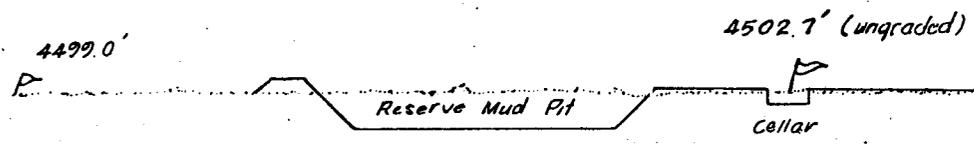
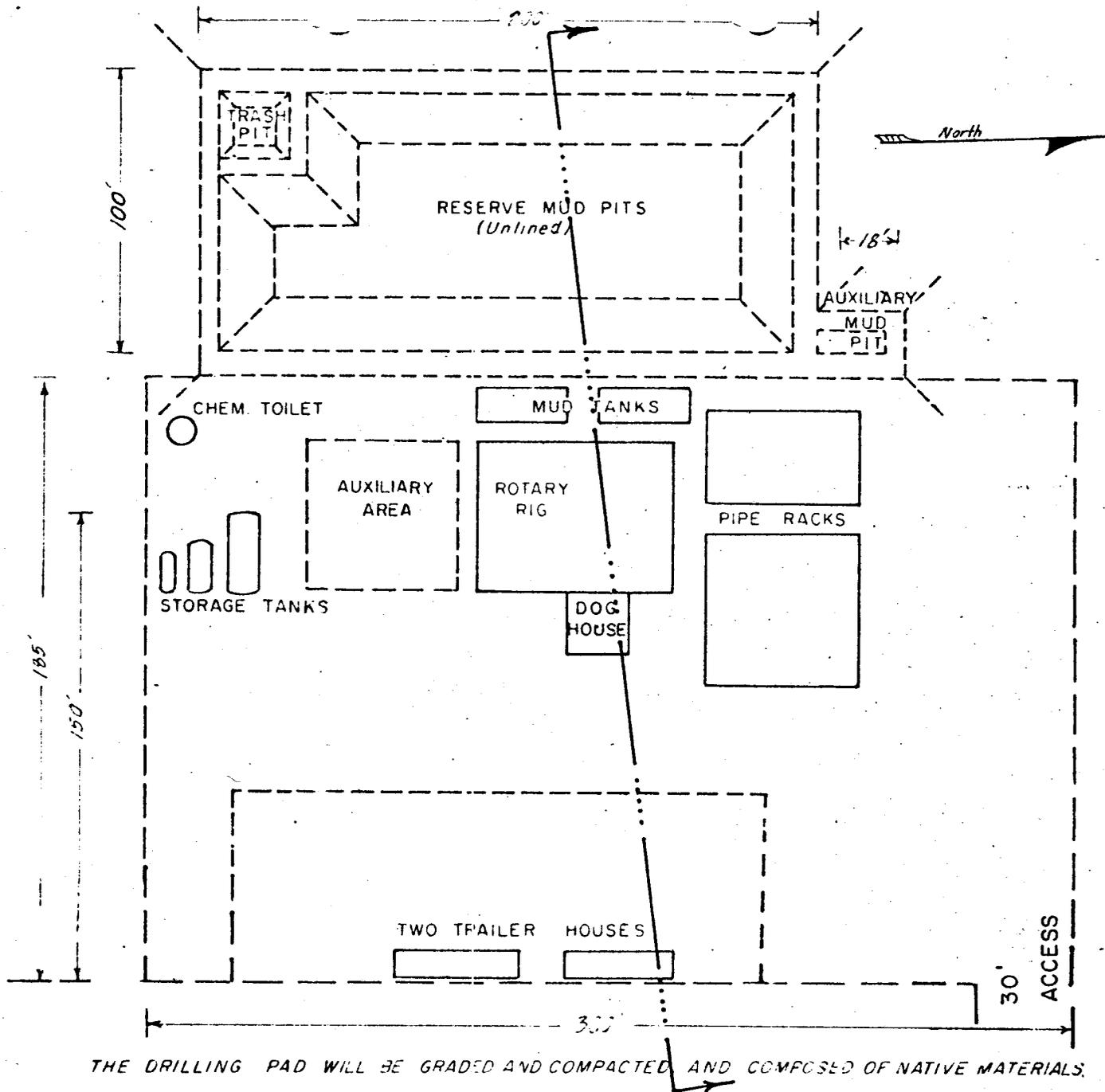
**THE SUPERIOR OIL CO.**  
 CORTEZ - CASPER DISTRICT  
 PRODUCTION DEPARTMENT

PROPOSED LOCATIONS  
 McELMO CREEK UNIT  
 San Juan County, Utah

BY M. H. T. DATE  
 SCALE 1" = 2000' REVISED 10-31-77

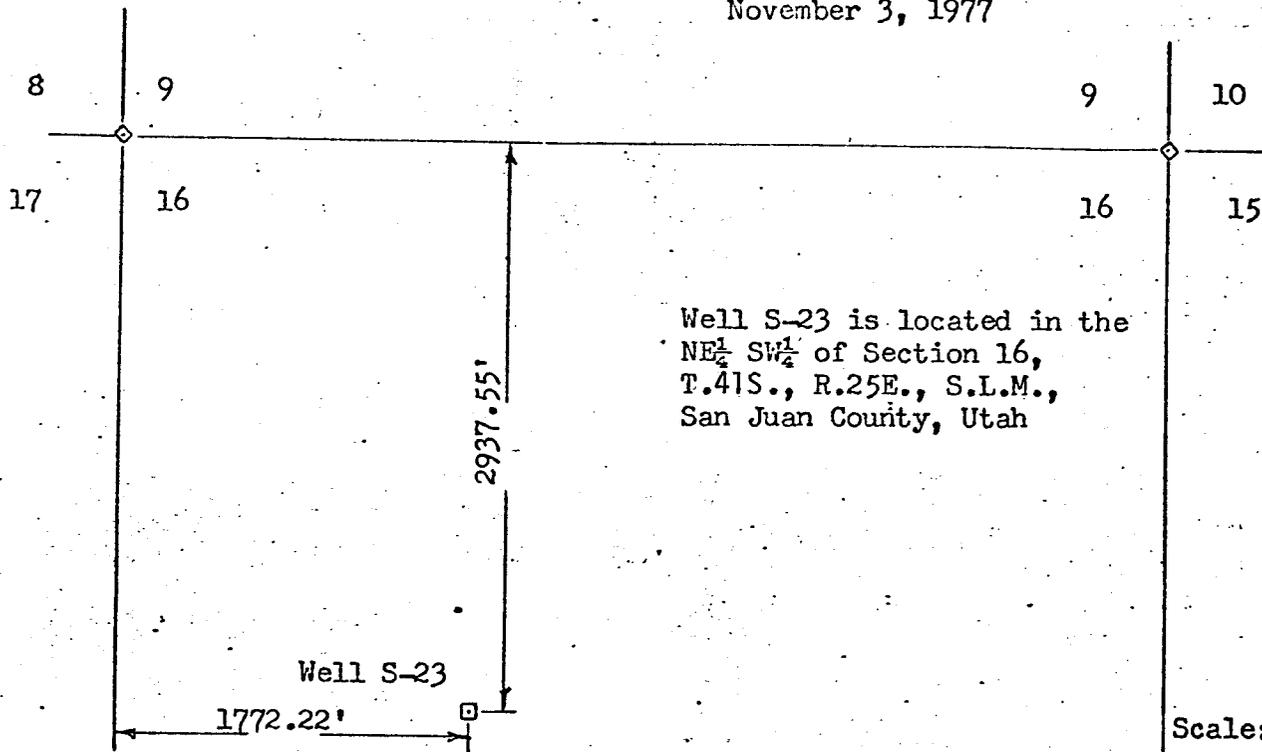


3125



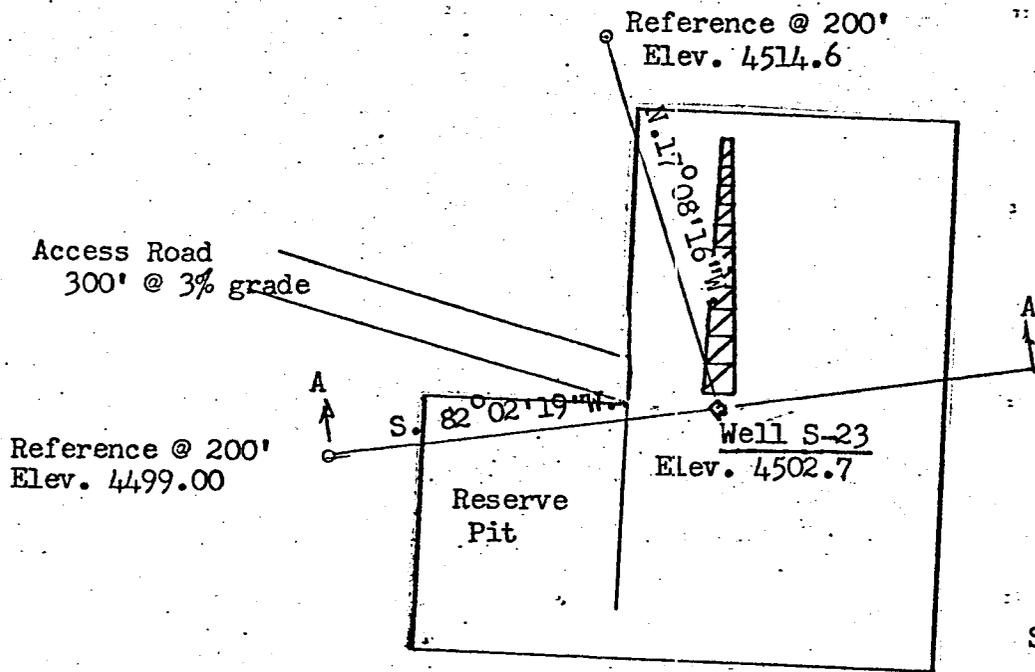
- - - - - Original Contour  
 P Reference point  
 \_\_\_\_\_ proposed line of grading

**THE SUPERIOR OIL CO.**  
 CORTEZ CASPER DISTRICT  
 ENGINEERING DEPARTMENT  
**RIG LAYOUT & DRILL  
 PAD CROSS SECTION**  
 MCU WELL No. **S-23**  
 McELMO CREEK UNIT  
 SAN JUAN COUNTY, UTAH  
 BY M.H.T. DATE 8 12 78  
 SCALE 1" = 50' REVISED



Well S-23 is located in the  
 NE  $\frac{1}{4}$  SW  $\frac{1}{4}$  of Section 16,  
 T.41S., R.25E., S.L.M.,  
 San Juan County, Utah

Scale: 1" = 100'



Scale: 1" = 100'

4510  
 4500  
 4490

Well S-23

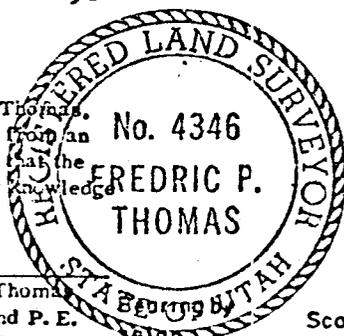
Soil: Sandy  
 Vegetation: Sparse bushes

Section A-A

Horizontal scale: 1" = 100'  
 Vertical scale: 1" = 50'

KNOW ALL MEN BY THESE PRESENTS:  
 That I, Fredric P. Thomas,  
 do hereby certify that I prepared this plat from an  
 actual and accurate survey of the land and that the  
 same is true and correct to the best of my knowledge  
 and belief.

*Fredric P. Thomas*



Fredric P. Thomas  
 Reg. L. S. and P. E.  
 Colo. Reg. No. 6728



Scale: 1" = 50'

Corners  
 are 15' x 1/2"  
 rebar

Utah Reg. No. 4346

observation

THOMAS Engineering Inc.

432 N. Broadway  
 Cortez, Colorado  
 81305

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

\*\* FILE NOTATIONS \*\*

Date: Nov. 10 -  
Operator: Superior Oil Co.  
Well No: Mc Elus Creek 5-23  
Location: Sec. 16 T. 41S R. 23E County: San Juan

File Prepared:  Entered on N.I.D.:   
Card Indexed:  Completion Sheet:

API NUMBER: 43-037-30403

CHECKED BY:

Administrative Assistant [Signature]

Remarks:

Petroleum Engineer [Signature]

Remarks:

Director \_\_\_\_\_

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required: [Signature] Survey Plat Required:

Order No. 152-2  Surface Casing Change   
to \_\_\_\_\_

Rule C-3(c), Topographic exception/company owns or controls acreage  
within a 660' radius of proposed site

O.K. Rule C-3  O.K. In M. Creek Unit

Other:

Letter Written/Approved



SCOTT M. MATHESON  
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON  
*Executive Director,*  
NATURAL RESOURCES

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING

1588 West North Temple  
Salt Lake City, Utah 84116  
(801) 533-5771

I. DANIEL STEWART  
*Chairman*

CHARLES R. HENDERSON  
JOHN L. BELL  
THADIS W. BOX  
C. RAY JUVELIN

CLEON B. FEIGHT  
*Director*

August 18, 1978

The Superior Oil Company  
PO Drawer "G"  
Cortez, Colorado 81321

Re: Well locations listed on  
attached sheet

Gentlemen:

Our records indicate that you have not filed a Monthly Report of Operations for the months indicated above on the subject wells.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1b, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, & MINING

Tammy Edge  
Typist

Well No. McElmo Creek #I-26  
Sec. 24, T. 41S, R. 24E  
San Juan County, Utah  
January 1978-July 1978

Well No. McElmo Creek Unit K-22X  
Sec. 18, T. 41S, R. 25E  
San Juan County, Utah  
November 1977-July 1978

X Well No. McElmo Creek S-23  
Sec. 16, T. 41S, R. 25E  
San Juan County, Utah  
December 1977-July 1978

Well No. McElmo Creek T-12A  
Sec. 33, T. 40S, R. 25E  
San Juan County, Utah  
December 1977-July 1978

Well No. Navajo Tribal 32-41  
Sec. 32, T. 41S, R. 25E  
San Juan County, Utah  
June 1978-July 1978

Well No. Navajo Tribal 34-22  
Sec. 34, T. 41S, R. 25E  
San Juan County, Utah  
May 1978-July 1978

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> <small>(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.)</small>		<b>5. LEASE DESIGNATION AND SERIAL NO.</b> 14-20-603-359
<b>1. OIL WELL</b> <input checked="" type="checkbox"/> <b>GAS WELL</b> <input type="checkbox"/> <b>OTHER</b> <input type="checkbox"/>		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</b> NAVAJO
<b>2. NAME OF OPERATOR</b> THE SUPERIOR OIL COMPANY		<b>7. UNIT AGREEMENT NAME</b> McELMO CREEK UNIT
<b>3. ADDRESS OF OPERATOR</b> P.O. DRAWER 'G', CORTEZ, COLORADO 81321		<b>8. FARM OR LEASE NAME</b>
<b>4. LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2938' FNL, 1772' FWL, SEC. 16, T41S, R25E, SLB&M		<b>9. WELL NO.</b> MCU #S-23
<b>14. PERMIT NO.</b> 43-037-30403		<b>10. FIELD AND POOL, OR WILDCAT</b> GREATER ANETH
<b>15. ELEVATIONS</b> (Show whether DF, RT, GR, etc.) 4503' Ungraded Ground Level		<b>11. SEC., T., R., M., OR BLK. AND SUBVY OR AREA</b> SEC. 16, T41S, R25E
		<b>12. COUNTY OR PARISH</b>   <b>13. STATE</b> SAN JUAN   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 checked="" type="checkbox"/>	(Other) _____	(Other) _____
(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.)\*

1. The proposal to drill this well has been submitted to our Joint Interest Section for the working interest owners approval. As of this date we have not received the unit operating agreements approval percentage and have not drilled this well. We will begin drilling operations as soon as the approval percentage is reached.

~~APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING  
DATE: \_\_\_\_\_  
BY: \_\_\_\_\_~~

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

SIGNED J. R. Oberlander TITLE Engineer DATE 9-5-78  
(This space for Federal or State office use)

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



SCOTT M. MATHESON  
Governor

GORDON E. HARMSTON  
Executive Director,  
NATURAL RESOURCES

CLEON B. FEIGHT  
Director

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116  
(801) 533-5771

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON  
Chairman

JOHN L. BELL  
C. RAY JUVELIN  
THADIS W. BOX  
CONSTANCE K. LUNDBERG  
EDWARD T. BECK  
E. STEELE McINTYRE

February 7, 1980

The Superior Oil Co.  
P. O. Drawer "G"  
Cortez, Colo. 81321

RE: Well No. McElmo Creek #I-26  
Sec. 24, T. 41S, R. 24E,  
San Juan County, Utah  
Well No. McElmo Creek #S-23  
Sec. 16, T. 41S, R. 25E,  
San Juan County, Utah

Gentlemen:

In reference to above mentioned well(s), considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill this well (these wells), please notify this Division. If spudding or any other activity has taken place, please send necessary forms.\* If we do not hear from your company within fifteen (15) days, we will assume you do not intend to drill this well, and action will be taken to terminate the application. If you plan on drilling this well at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

DEBBIE BEAUREGARD  
CLERK-TYPIST



SCOTT M. MATHESON  
Governor

GORDON E. HARMSTON  
*Executive Director,*  
NATURAL RESOURCES

CLEON B. FEIGHT  
*Director*

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116  
(801) 533-5771  
March 19, 1980

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON  
*Chairman*

JOHN L. BELL  
C. RAY JUVELIN  
THADIS W. BOX  
CONSTANCE K. LUNDBERG  
EDWARD T. BECK  
E. STEELE McINTYRE

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

Re: Well No. McElmo Creek #1-26  
Sec. 24, T. 41S, R. 24E.  
San Juan, County, Utah

Well No. McElmo Creek #S-23  
Sec. 16, T. 41S, R. 25E.  
San Juan County, Utah

Gentlemen:

Approval to drill the above mentioned wells, which was granted on 11-10-77, is hereby terminated for failure to spud in a reasonable period of time.

If and when you should decide to drill these wells, it will be necessary for you to again obtain the approval of this Division.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

JANICE TABISH  
CLERK-TYPIST