

UTAH OIL AND GAS CONSERVATION COMMISSION

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

DATE FILED 6-14-82

LAND: FEE & PATENTED _____ STATE LEASE NO. _____

PUBLIC LEASE NO. 14-20-603-2057

INDIAN _____

DRILLING APPROVED: 6-15-82

SPUDED IN: _____

COMPLETED: _____ PUT TO PRODUCING: _____

INITIAL PRODUCTION: _____

GRAVITY A.P.I. _____

GOR: _____

PRODUCING ZONES: _____

TOTAL DEPTH: _____

WELL ELEVATION: 4892' gn

DATE ABANDONED: 2.3.84 LA application rescinded

FIELD: 786 GREATER ANETH

UNIT: MCELMO CREEK

COUNTY: SAN JUAN

WELL NO. MCELMO CREEK UNIT #R-10

API NO. 43-037-30792

LOCATION 1862' FT. FROM (N) ~~XX~~ LINE.

486'

FT. FROM ~~XX~~ (W) LINE.

SW NW

1/4 - 1/4 SEC.

33

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				40S	25E	33	SUPERIOR OIL COMPANY

SUPERIOR OIL

May 11, 1982

Mr. Mike Minder
Petroleum Engineer
Division of Oil, Gas & Mining
1588 West North Temple
Salt Lake City, Utah 84116

Re: McElmo Creek Unit #R-10
Proposed Infill Development Well
Section 33, T40S, R25E, SLM
San Juan County, Utah

Dear Mr. Minder:

Attached is Superior Oil's "Application for Permit to Drill" for the above captioned well. This well is staked on a 40 acre spacing to recover oil bypassed in the original flood pattern and is part of the overall Carbon Dioxide enhanced recovery program in the McElmo Creek Unit. Superior Oil is the designated operator of McElmo Creek Unit in San Juan County, Utah.

Sincerely,

SUPERIOR OIL COMPANY

Charles L. Hill

Charles L. Hill
Area Production Superintendent

GT/1h

RECEIVED
JUN 14 1982

DIVISION OF
OIL, GAS & MINING

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
 SUPERIOR OIL COMPANY

3. ADDRESS OF OPERATOR
 P.O. DRAWER "G", CORTEZ, COLORADO 81324

4. LOCATION OF WELL (Report location clearly and in accordance with applicable requirements.)*
 At surface: 1862 FNL, 486' FWL of Section 33
 At proposed prod. zone: Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 3.6 Miles North of Aneth, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 486'

16. NO. OF ACRES IN LEASE 1840

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. 1250'

19. PROPOSED DEPTH 5915'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 4892' Ungraded ground level

22. APPROX. DATE WORK WILL START*
 August 15, 1982

RECEIVED
JUN 14 1982
SUNNY GREAT ANETH

DIVISION OF OIL, GAS & MINING

CHIMNEY ROCK

5. LEASE DESIGNATION AND SERIAL NO.
14-20-603-2057

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NAVAJO

7. UNIT AGREEMENT NAME
McELMO CREEK UNIT

8. FARM OR LEASE NAME

9. WELL NO.
#R-10

10. FIELD AND POOL, OR WILDCAT
GREAT ANETH

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SEC. 33, T40S, R25E, SLM

12. COUNTY OR PARISH | 13. STATE
SAN JUAN | UTAH

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"	48#, H-40	100'	Redi-mix to surface
12-1/4"	8-5/8"	24#, K-55	1500'	800 sx to surface
7-7/8"	5-1/2"	15.5#, K-55	5915'	250 sx

1. Drill 17-1/2" hole to 100'. Run 100' of 13-3/8", 48#, H-40 conductor casing and cement to surface w/ Redi-mix.
2. Drill 12-1/4" hole to 1500'. Run 1500' of 8-5/8", 24#, K-55 surface casing and cement to surface w/ 600 sx 65/35 Pozmix + 200 sx Class 'B' cement.
3. Drill 7-7/8" hole to 5915', (or to base of Desert Creek).
4. Log well w/ GR-CNL-FDC from TD to 1500'.
5. Run 5915' of 5-1/2", 15.5#, K-55 production casing and cement to TD.
6. Complete in Ismay and/or Desert Creek based on log evidence if necessary.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
 DATE: 6/17/82
 BY: [Signature]

Orig + 5 - USGS, State, Navajo Tribe, Reg. Group, Joint Interest, Drilling, Files - H, D, C

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 T. Greg Merriam TITLE Petroleum Engineer DATE May 12, 1982

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

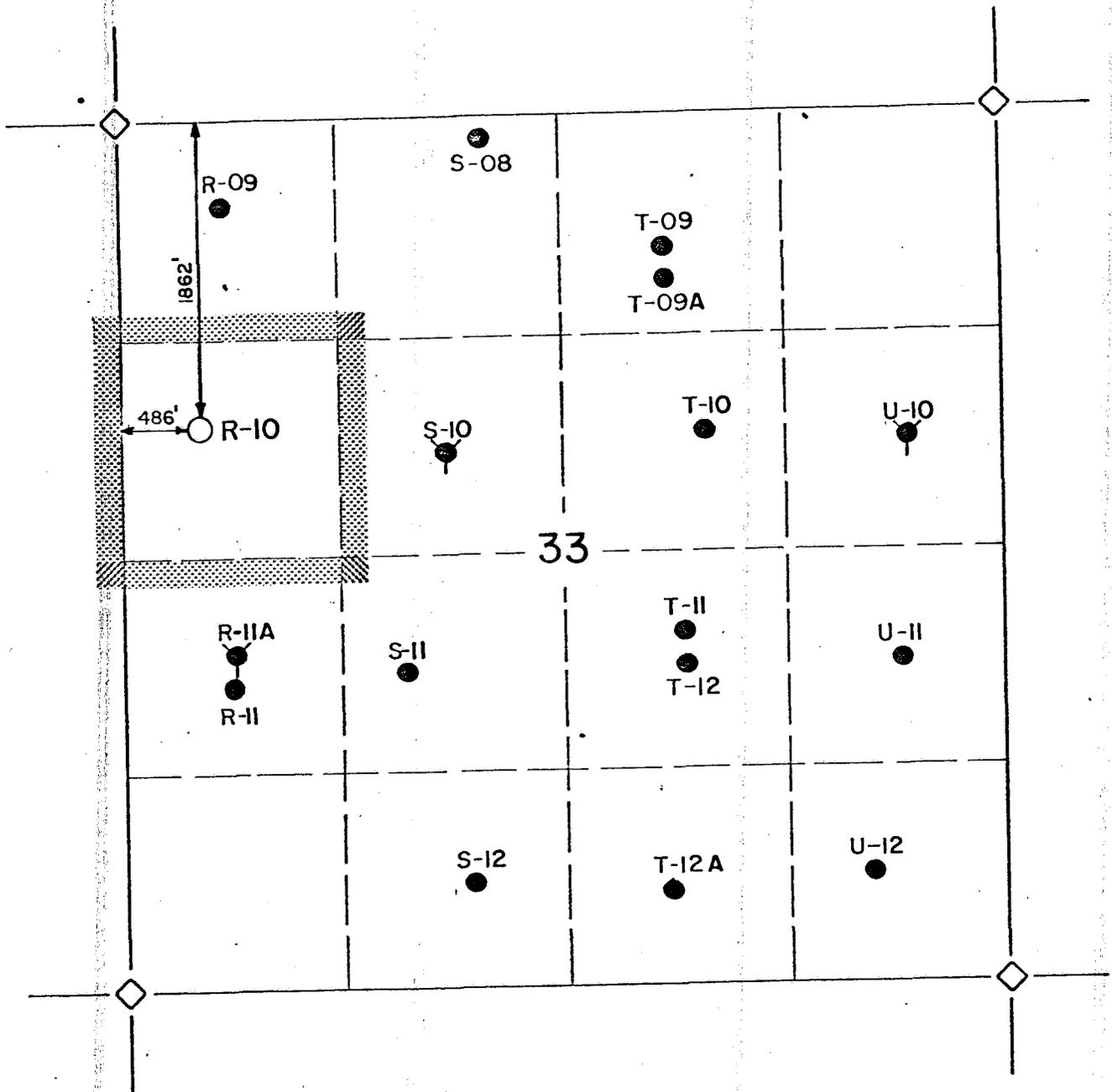
APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

THE SUPERIOR OIL CO.

OPERATOR

Well No. MCU R-10



McELMO CREEK UNIT

SW/NW SECTION 33, T.40S. - R.25 E.



- Location
- Well
- ⊕ Injector

Scale: 1" = 1000'

Charles L. Hill



SUPERIOR OIL

May 11, 1982

Mr. James Sims
District Engineer
Minerals Management Service
P. O. Box 600
Farmington, New Mexico 87401

Re: Surface Use & Operations Plan
Proposed Infill Development Well
McElmo Creek Unit #R-10
1862' FNL, 486' FWL
Section 33, T40S, R25E, SLM
San Juan County, Utah

Dear Mr. Sims:

The "Surface Use & Operations Plan" (as per NTL-6 requirements) for the proposed McElmo Creek Unit #R-10 is as follows:

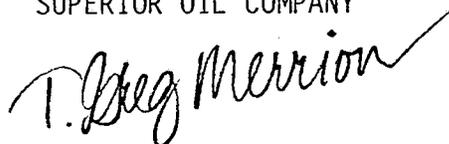
1. The existing roads are shown on the "Proposed Access Road" plat.
2. A new 1200' X 20' access road will be required as shown on the attached plat. The proposed road will run west from an existing road to the new location. The new road will consist of compacted sand and gravel with a maximum grade of 8%. The road will have a cut of 30' on the southeast side and a fill of 12' on the northwest side.
3. The location and status of wells in the vicinity are shown on the attached road and pipeline plats.
4. The location of production facilities and flowlines in the vicinity are shown on the attached "Proposed Pipeline" plat. A 2" flowline will run 2500' southeast to Superior's existing Section #33 Satellite Station where the oil and water will be separated from the gas.
5. Water for drilling operations will be trucked on existing roads and the aforementioned access road. The water will be obtained from Superior's fresh water wells near the San Juan River.
6. Materials necessary for the construction of the access road and drilling pad will be obtained from the location. No access road for the purpose of hauling materials will be necessary.
7. Waste materials will be collected in earth pits 6'-8' deep with steep sides. 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.

SUPERIOR OIL

8. No ancillary facilities will be constructed.
9. The location of drilling equipment is shown on an attached plat. The position of drilling equipment and a cross section diagram showing cuts and fills that are necessary for drilling pad construction are shown on another attached plat. The drilling pad will be located at approximately ground level. Materials at the location will be used for pad elevation.
10. Upon completion of operations, the site will be restored according to BIA requirements.
11. Surface land is owned by the Navajo Tribe and is used primarily for grazing. The flora in the area includes Indian rice grass, galleta, alkali sacaton, salt bush and bud sage. There are no Indian habitations or artifacts in the immediate vicinity of the access road, flowline or drillsite.

Very truly yours,

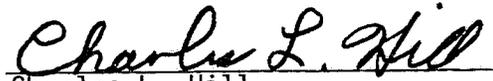
SUPERIOR OIL COMPANY



T. Greg Merrion
Petroleum Engineer

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 conditons under which it is approved.

6-7-82
Date



Charles L. Hill
Area Production Superintendent

SUPPLEMENTAL TO FORM 9-331-C

WELL: McElmo Creek Unit #R-10

ELEVATION: 4392' Ungraded Ground Level

SURFACE FORMATION: Dakota

ESTIMATED FORMATION TOPS: (Measured from KB level at 4906')

Chinle	1480'
DeChelly	2880'
Ismay	5620'
Lower Ismay	5710'
Desert Creek	5760'
Chimney Rock	5890'
TD	5915'

WATER BEARING FORMATION: Water is expected to be encountered intermittently from 300' to 1480'.

HYDROCARBON BEARING FORMATION: Oil & gas could be encountered in the Ismay and Desert Creek from 5620' to 5890'.

MUD PROGRAM: Surface to 2880' - fresh water based mud.
2880' to 5915' - lignosulfonate or similar mud system. Water loss controlled to 15 cc or less and weighted with Barite as necessary.

CASING PROGRAM: Conductor - 13-3/8", 48#, H-40, ST&C new casing set to 100'.
Surface - 8-5/8", 24#, K-55, ST&C new casing set to 1500'.
Production - 5-1/2", 15.5#, K-55, ST&C new casing set to 5915'.

(2)

CEMENT PROGRAM:

Conductor - cement to surface w/ Redi-mix.

Surface - cement to surface w/ 600 sx 65/35
Pozmix + 200 sx Class 'B'.

Production - cement w/ 250 sx Class 'B'.

LOGGING PROGRAM:

TD to 1500': GR-FDC-CNL.

DRILL STEM TESTS:

None.

CORING:

None.

PRESSURE CONTROLS:

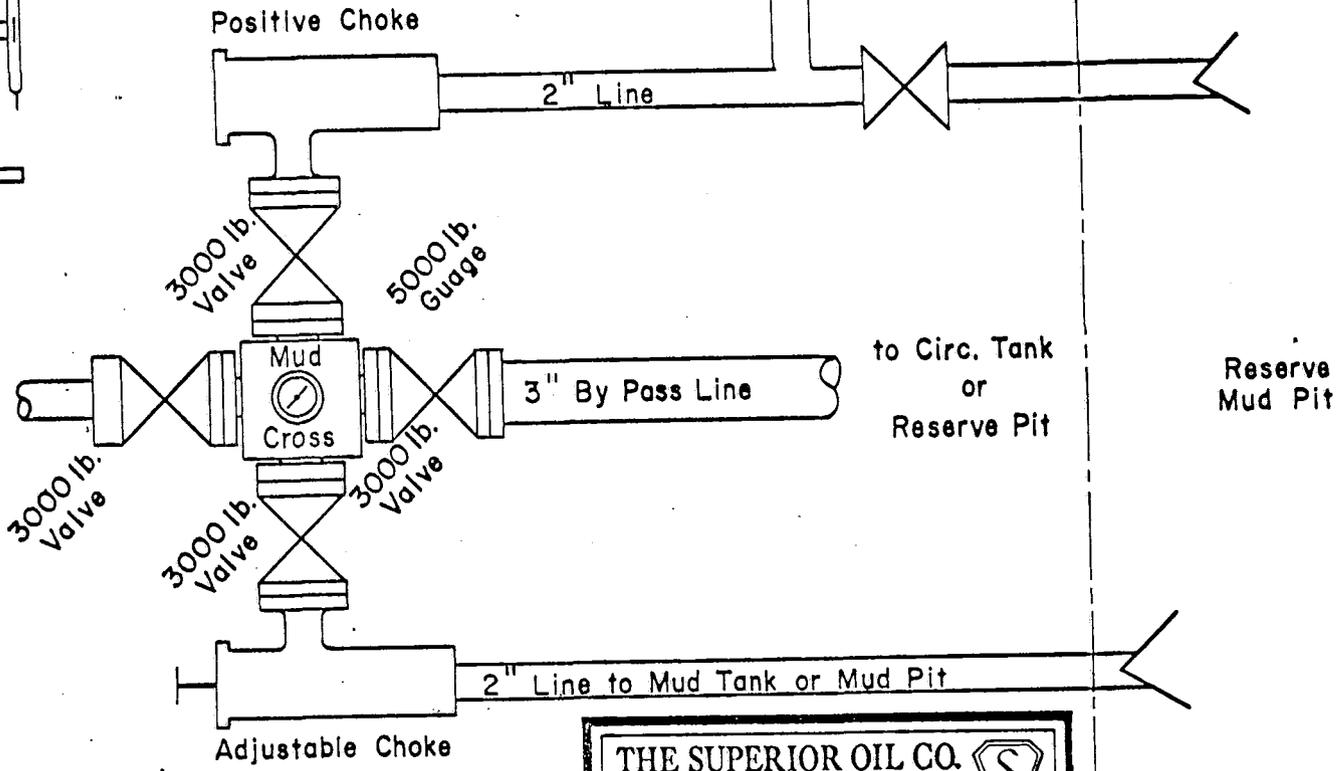
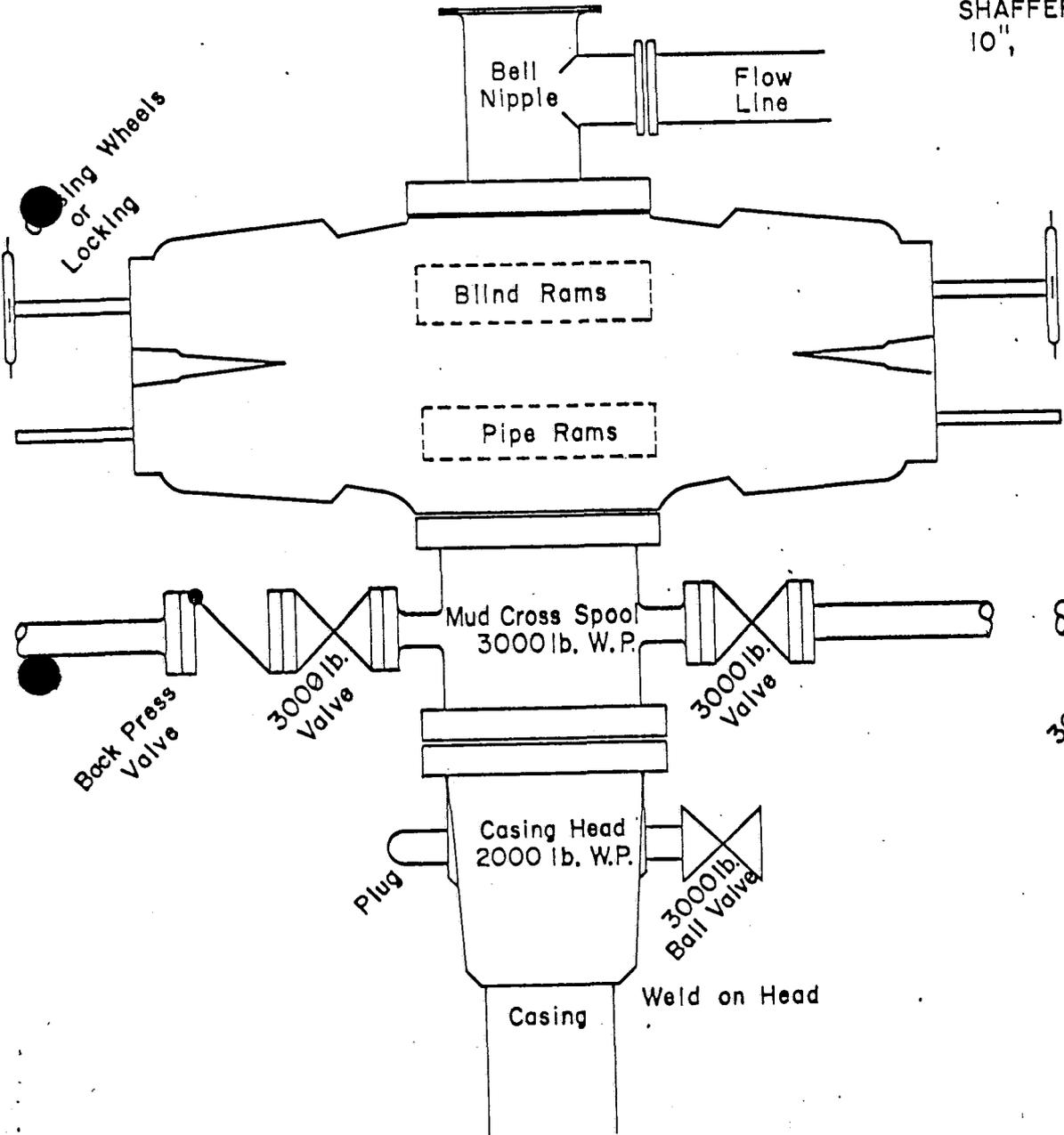
Blowout preventer equipment will be 10" Series 600 with blind rams and drill pipe rams hydraulically and manually controlled. The blind rams will be tested daily. The schematic of the pressure control equipment can be seen on the attached diagram. The mud system will be monitored by visual inspection.

ANTICIPATED STARTING DATE: August 15, 1982

GT/1h

Circulating Tank

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



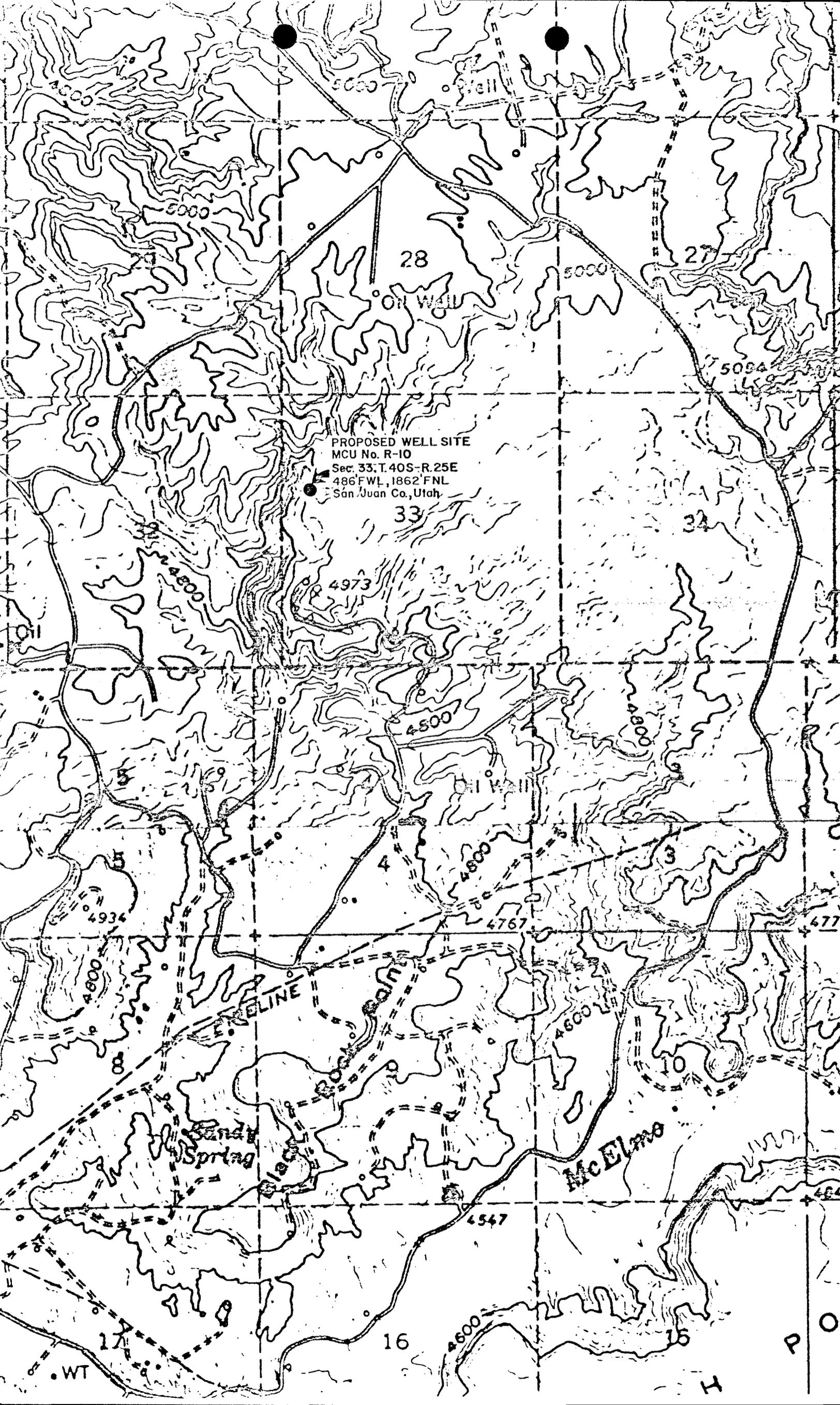
THE SUPERIOR OIL CO.
CORTEZ-CASPER DISTRICT
ENGINEERING DEPARTMENT



**SCHEMATIC DIAGRAM
OF PRESSURE CONTROL
EQUIPMENT**

BY JEA
SCALE NONE

DATE 6/25/79
REVISED



PROPOSED WELL SITE
MCU No. R-10
Sec. 33, T. 40S-R. 25E
486' FWL, 1862' FNL
San Juan Co., Utah

28

27

ON WELL

5094

33

34

4973

4500

4800

4934

4767

477

WATERLINE

WATERLINE

McElmo

Sandy Spring

4547

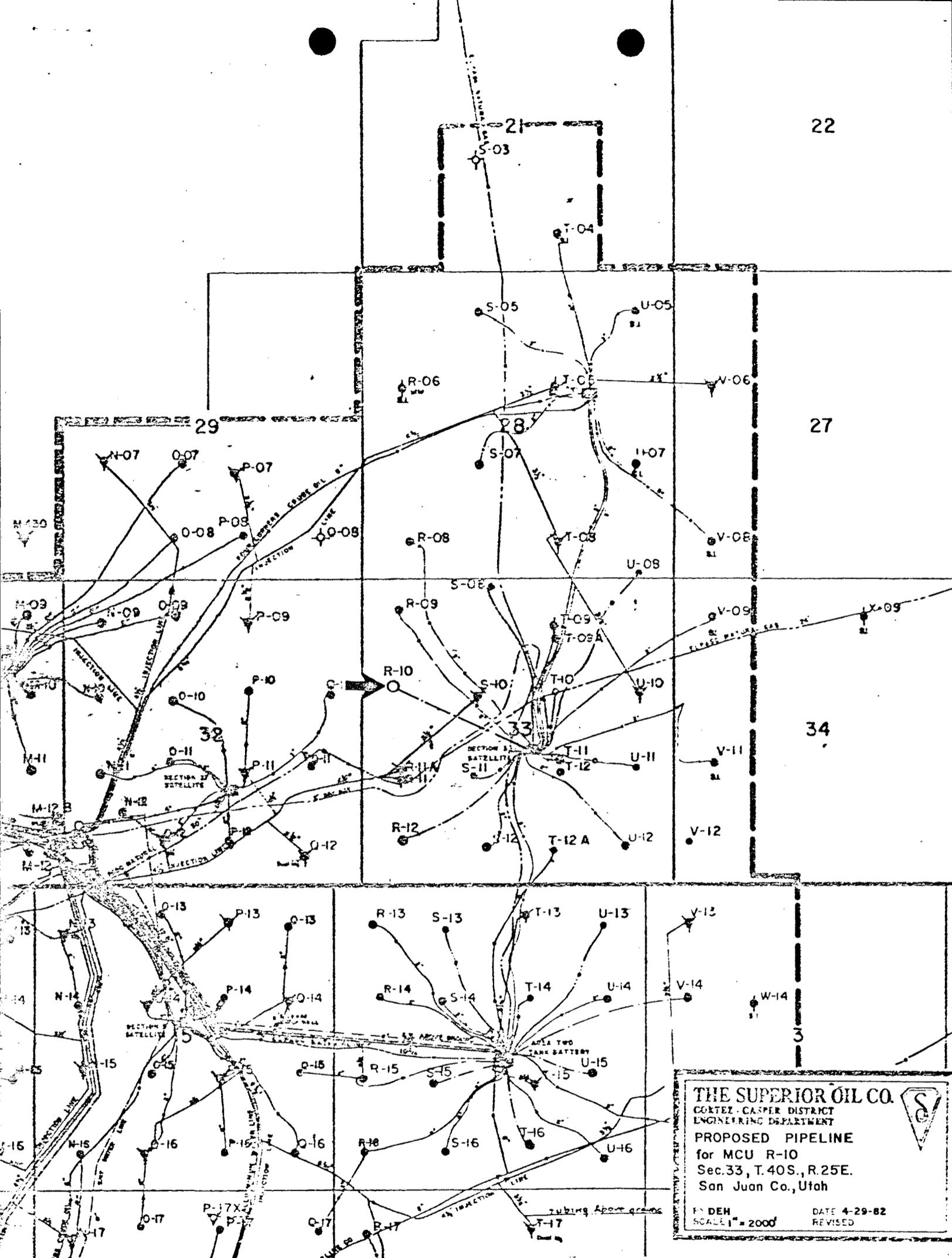
16

15

WT

PO

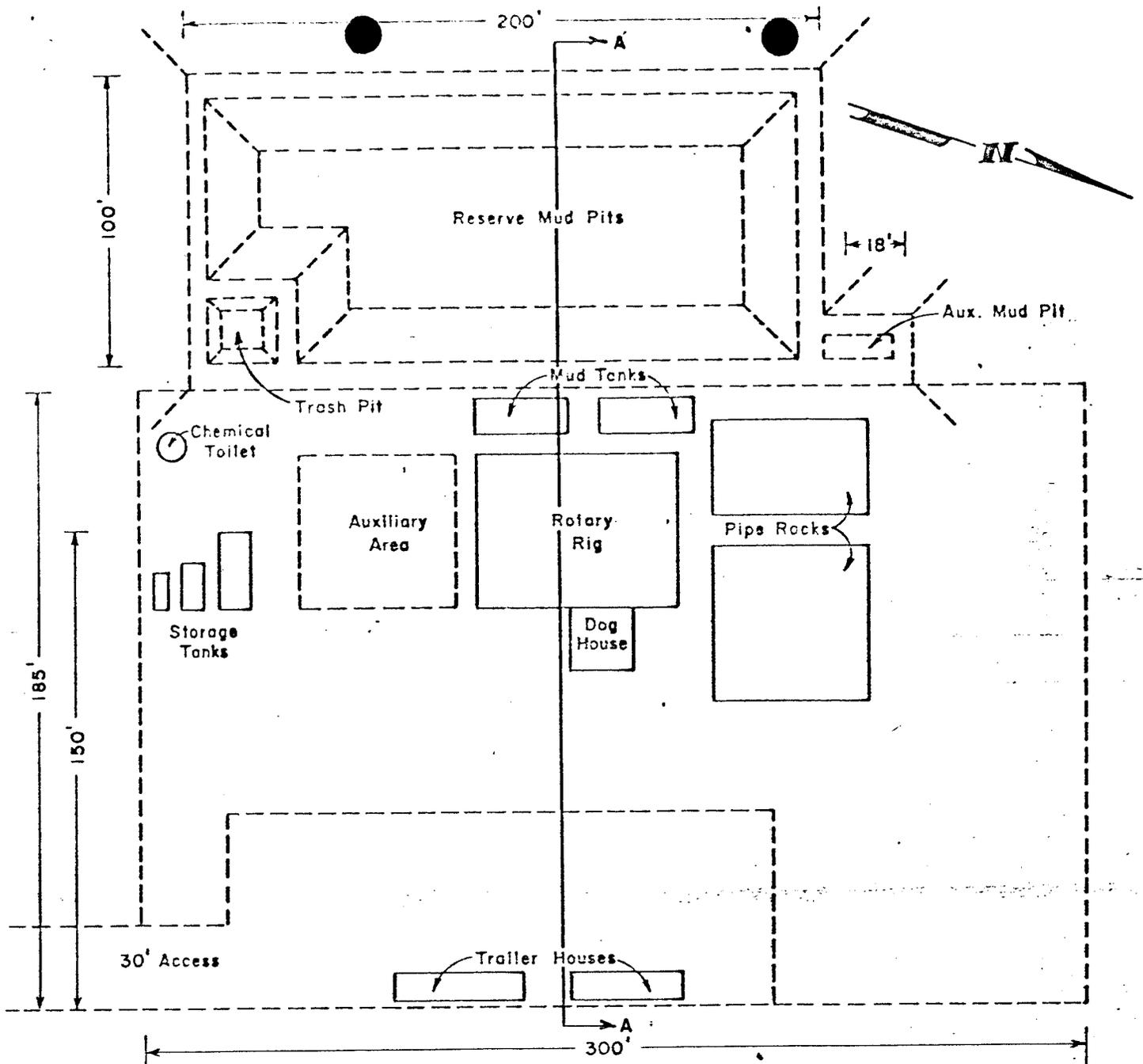
H



THE SUPERIOR OIL CO.
 CORTEZ-CASPER DISTRICT
 ENGINEERING DEPARTMENT
PROPOSED PIPELINE
 for MCU R-10
 Sec. 33, T. 40S., R. 25E.
 San Juan Co., Utah

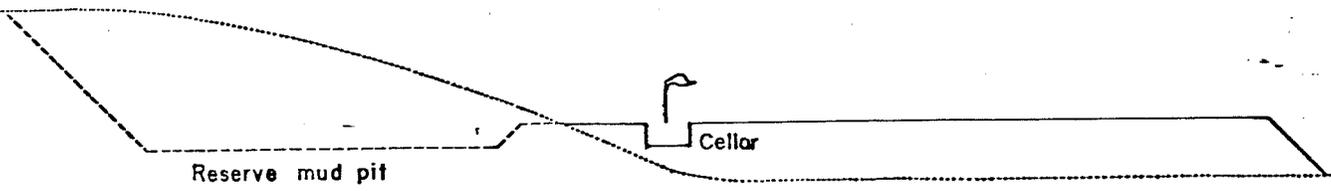
EN DEH
 SCALE 1" = 2000'

DATE 4-29-82
 REVISED



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

PROPOSED WELL SITE
 MCU R-10
 Original Elev. 4891.7

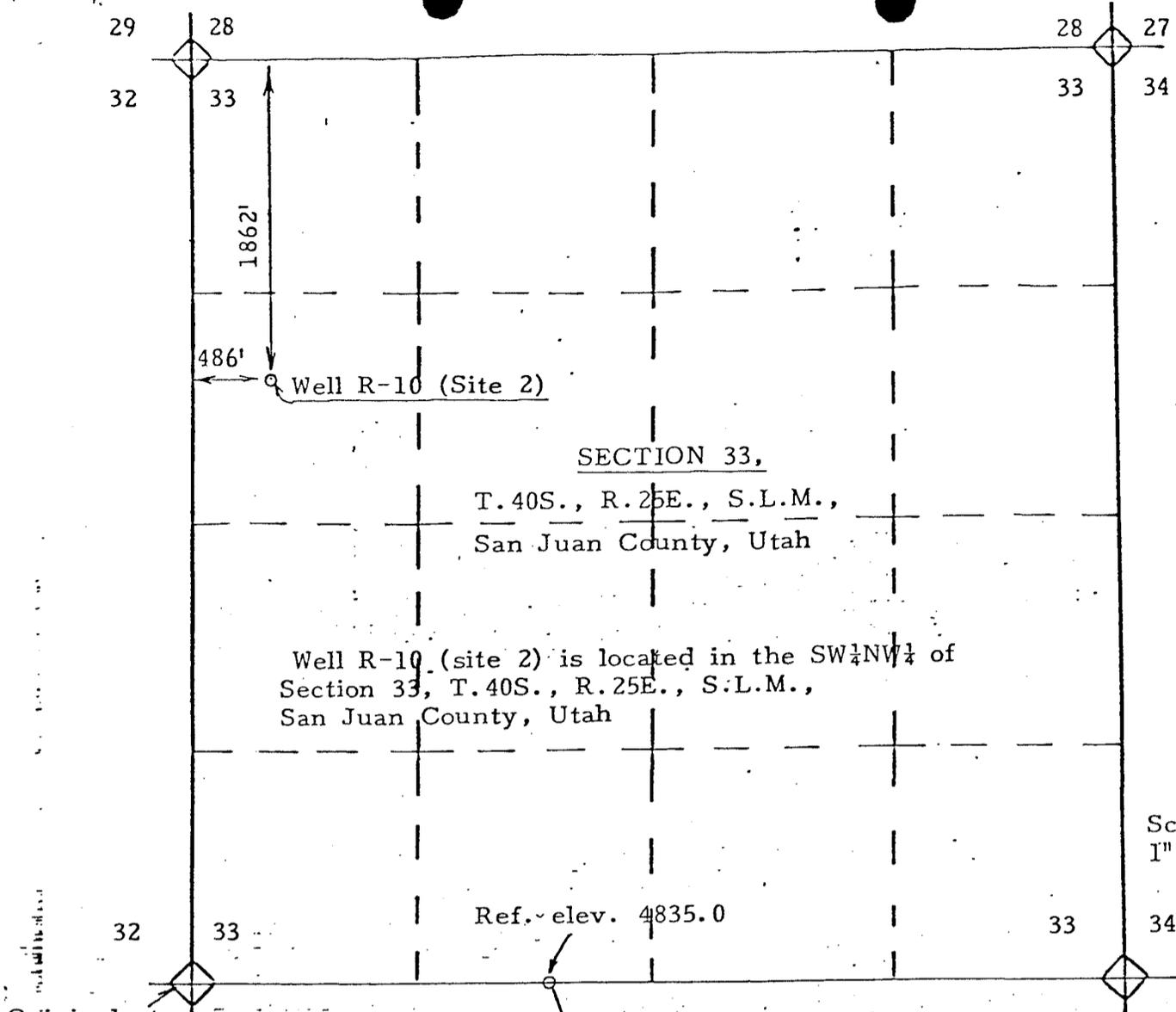


Original Contour 

Reference Point 

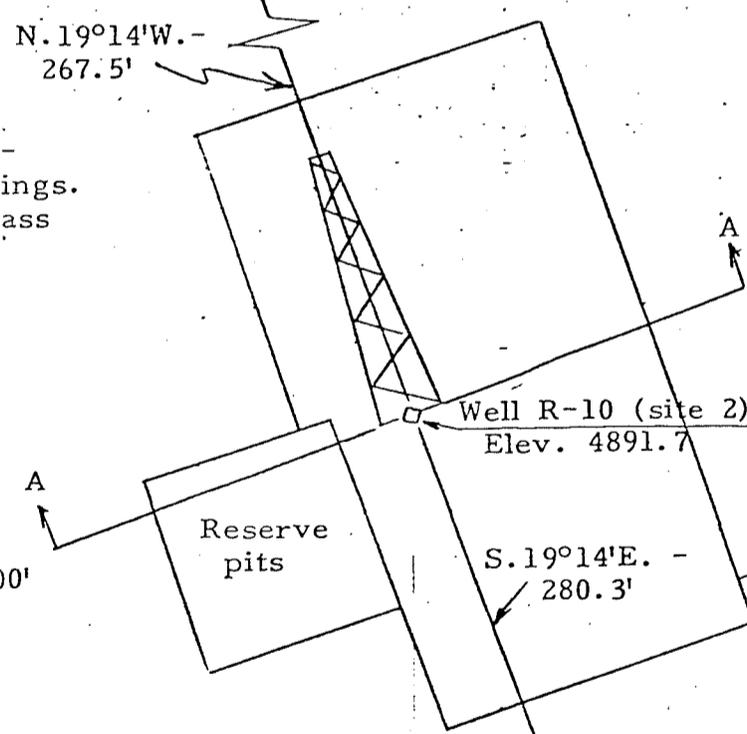
Graded Proposal 

THE SUPERIOR OIL CO.		
CORTES-CASPER DISTRICT ENGINEERING DEPARTMENT		
RIG LAYOUT & DRILL PAD CROSS SECTION		
McELMO CREEK UNIT		
WELL No R-10		
BY JEG	DATE 4-30-82	
SCALE 1" = 50'	REVISED DEN	

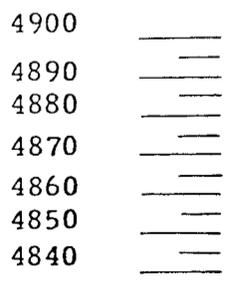


Original stone

Soil: Sandy with sand-stone rock outcroppings.
 Vegetation: Sparse grass and shrubs.



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

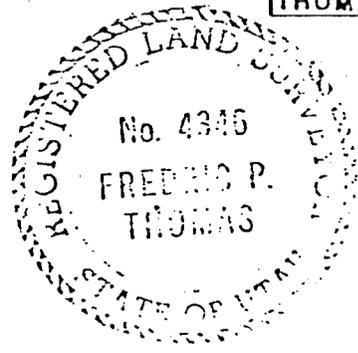


KNOW ALL MEN BY THESE PRESENTS:
 THAT I, FREDRIC P. THOMAS
 do hereby certify that I prepared this plat from an actual and accurate survey of the land and that the same is true and correct to the best of my knowledge and belief.

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

Bearing by
 Solar
 observation

Utah Reg. No. 4346



THOMAS Engineering Inc.
 215 N. Linden
 Cortez, Colorado
 565-4496

** FILE NOTATIONS **

DATE: June 16, 1982

OPERATOR: Superior Oil Company

WELL NO: Madlino Creek Unit # R-10

Location: Sec. 33 T. 40S R. 25E County: San Juan

File Prepared:

Entered on N.I.D:

Card Indexed:

Completion Sheet:

API Number 43-037-30792

CHECKED BY:

Petroleum Engineer: _____

Director: OK UW

Administrative Aide: Unit will

APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. _____

O.K. Rule C-3

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

Lease Designation FED

Plotted on Map

Approval Letter Written

Hot Line

P.I.

June 18, 1982

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

RE: Well No. McElmo Creek Unit #R-10
Sec. 33, T40S, R25E
San Juan County

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953 and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

CLEON B. FEIGHT
Office: 533-5771
Home: 466-4455

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30792.

Sincerely,

Cleon B. Feight
CLEON B. FEIGHT
DIRECTOR

CBF:SC
cc: Minerals Management Service
Enclosure



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

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

March 16, 1983

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

Re: See attached list of wells

Gentlemen:

In reference to the above mentioned wells, 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 these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If you plan to drill these locations at a later date, please notify as such.

We will be happy to acknowledge receipt of your response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and a self addressed envelope for the return. Such acknowledgement should avoid unnecessary mailing of a firm second notice from our agency.

Your prompt attention to the above will be greatly appreciated.

Respectfully,

DIVISION OF OIL, GAS AND MINING

A handwritten signature in cursive script that reads "Cari Furse".

Cari Furse
Well Records Specialist

CF/cf

Well No. McElmo Creek Unit # R-10
Sec. 33, T. 40S, R. 25E.
San Juan County, Utah

Well No. McElmo Creek Unit # S-09
Sec. 33, T. 40S, R. 25E.
San Jaun County, Utah

Well No. McElmo Creek # R-18
Sec. 9, T. 41S, R. 25E.
San Juan County, Utah

Well No. McElmo Creek # S-17
Sec. 9, T. 41S, R. 25E.
San Juan County, Utah

Well No. McElmo Creek #S-19
Sec. 9, T. 41S, R. 25E.
San Juan County, Utah

Well No. McElmo Creek # T-18
Sec. 9, T. 41S, R. 25E.
San Juan County, Utah

Well No. McElmo Creek #U-17
Sec. 9, T. 41S, R. 25E.
San Juan County, Utah

SUPERIOR OIL

March 24, 1983

State of Utah
Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

Re: See attached list of wells

Gentlemen:

The subject wells have not been spudded as of this date. Superior Oil intends to drill these infill wells within McElmo Creek Unit pending the initiation of the CO2 flood. It is requested that approval of the "Application for Permit to Drill" be extended one year.

Respectfully,

SUPERIOR OIL COMPANY

T. Greg Merrion

T. Greg Merrion
Production Engineer

TGM/lh
Attach.

RECEIVED
MAR 31 1983

DIVISION OF
OIL, GAS & MINING

Well No. McElmo Creek Unit # R-10
Sec. 33, T. 40S, R. 25E.
San Juan County, Utah

Well No. McElmo Creek Unit # S-09
Sec. 33, T. 40S, R. 25E.
San Jaun County, Utah

Well No. McElmo Creek # R-18
Sec. 9, T. 41S, R. 25E.
San Juan County, Utah

Well No. McElmo Creek # S-17
Sec. 9, T. 41S, R. 25E.
San Juan County, Utah

Well No. McElmo Creek #S-19
Sec. 9, T. 41S, R. 25E.
San Juan County, Utah

Well No. McElmo Creek # T-18
Sec. 9, T. 41S, R. 25E.
San Juan County, Utah

Well No. McElmo Creek #U-17
Sec. 9, T. 41S, R. 25E.
San Juan County, Utah

RECEIVED

MAR 31 1993

DIVISION OF
OIL GAS & MINING

SUPERIOR OIL

*Proby
Cair*

OCT 17 1983

**DIVISION OF
OIL, GAS & MINING**

October 13, 1983

State of Utah
Department of Natural Resources
Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

RE: Distribution of Oil & Gas
Lease Sale Notices

Gentlemen:

Please consider this letter as our official notice of address change, effective November 1, 1983 and our request that Superior Oil be maintained on your mailing list to receive notices regarding any forthcoming sales of oil and gas leases on lands administered by you.

We will appreciate your sending notices to the following address:

The Superior Oil Company
600 17th Street
Suite 1500
Denver, Colorado 80202
ATTN: Land Department

Thank you very much.

Very truly yours,

THE SUPERIOR OIL COMPANY

Jed W. Lemmons/cbb

Jed W. Lemmons
Division Land Manager

JWL/cbb

The Superior Oil Company

Denver Division

1860 Lincoln St., Suite 800,
Lincoln Tower Building, Denver, CO 80295
(303) 863-2600, Twx: 910 931 2539



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dr. G. A. (Jim) Shirazi, Division Director

January 3, 1984

Superior Oil Company
600 17th Street
Suite 1500
Denver, Colorado 80202

RE: Well No. McElmo Creek #R-10
API #43-037-30792
1862' FNL, 486'FWL SW/NW
Sec. 33, T. 41S, R. 25E.
San Juan County, Utah

Gentlemen:

Due to excessive time delay in commencing drilling operations, approval to drill the subject well is hereby rescinded effective one calendar month from the date of this notice.

A new Application for Permit to Drill must be filed with this office for approval, prior to future drilling of the subject location.

Respectfully,

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

Norman C. Stout
Administrative Assistant

NCS/cj