

UTAH DIVISION OF OIL, GAS AND MINING

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

DATE FILED 9-25-79

LAND: FEE & PATENTED

STATE LEASE NO.

PUBLIC LEASE NO.

INDIAN N00-C-14-20-3002

DRILLING APPROVED: 9-24-79

SPOUDED IN:

COMPLETED:

PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED: 1-30-80

LOCATION ABANDONED WELL NEVER DRILLED

FIELD: ~~Greater Aneth~~ 3/86 Clay Hill

UNIT:

COUNTY: San Juan

WELL NO. Navajo Tribal 34-21

API NO: 43-037-30500

LOCATION 1000' FT. FROM (N) ~~XX~~ LINE. 2400' FT. FROM ~~XX~~ (W) LINE. NE NW 1/4-1/4 SEC. 34

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				41S	25E	34	SUPERIOR OIL COMPANY

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

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 2400' FWL, 1000' FNL, SEC. 34, T41S, R25E, S1B&M  
 At proposed prod. zone Same as surface *ne new*

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

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1000'

16. NO. OF ACRES IN LEASE 640

17. NO. OF ACRES ASSIGNED TO THIS WELL 40

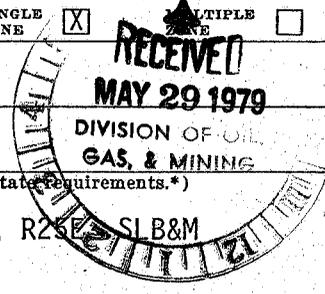
18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1000'

19. PROPOSED DEPTH 5490'

20. ROTARY OR CABLE TOOLS ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 4524' Ungraded Ground level

22. APPROX. DATE WORK WILL START\*  
 July 1, 1979



5. LEASE DESIGNATION AND SERIAL NO.  
 N00-C-14-20-3002

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
 NAVAJO

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
 NAVAJO TRIBAL

9. WELL NO.  
 34-21

10. FIELD AND POOL, OR WILDCAT  
 ROCKWELL SPRINGS FIELD

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 SEC. 34, T41S, R25E

12. COUNTY OR PARISH  
 SAN JUAN

13. STATE  
 UTAH

*Greater Aneth*

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#	100'	150 sx
12-1/4"	8-5/8"	24#	1190'	750 sx
7-7/8"	5-1/2"	14 & 15.5#	5490'	250 sx

1. Drill 17-1/2" hole to 100'. Set 13-3/8" casing to 100' and cement to surface with 100 sacks.
2. Drill 12-1/4" hole to 1190'. Set 8-5/8" casing to 1190' and cement to surface with 750 sacks.
3. Drill 7-7/8" hole through Desert Creek Zone and 40' into Chimney Rock Shale at approximately 5490'.
4. Log well.
5. Set 5-1/2" casing @ 5490' and cement with 250 sacks.
6. Perforate Ismay and/or Desert Creek and stimulate based on log evaluation.

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.

SIGNED J. R. Oberlander TITLE PRODUCTION ENGINEER DATE 5/24/79

(This space for Federal or State office use)

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

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

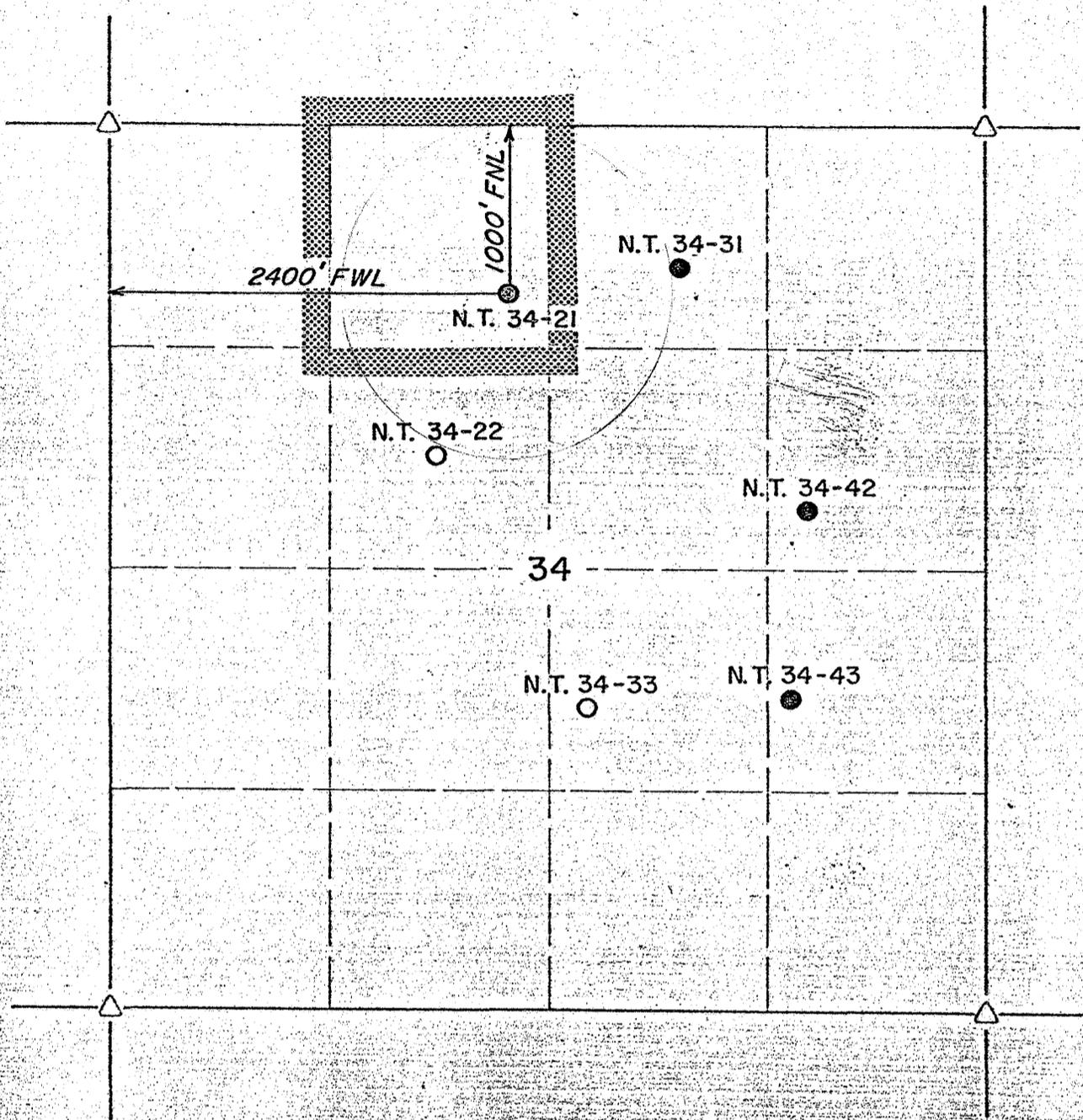
CONDITIONS OF APPROVAL, IF ANY:

JRO/sc  
 Orig. + 3 USGS, STATE - 2, T. W. COOLEY, JIB/C, File, WHS, FEF, RFK, WNM/File, DUNCAN OIL PROPERTIES  
 \*See Instructions On Reverse Side

# THE SUPERIOR OIL COMPANY

Operator

WELL NO. N.T. 34-21



NE/NW SECTION 34, T.41 S., R.25 E

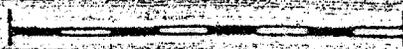
Rockwell Springs Field



*Charles L. Hill*



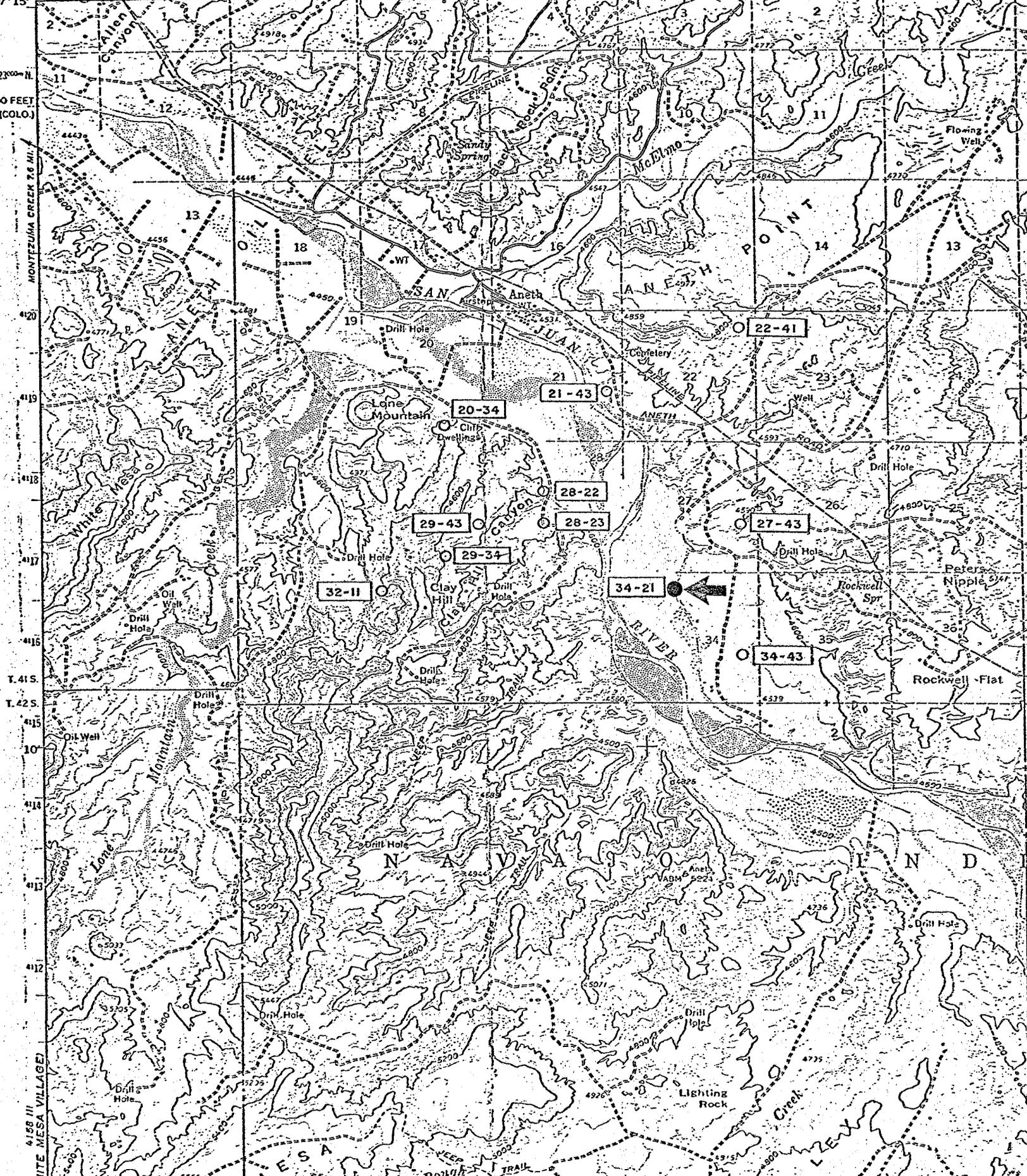
Scale - 1" = 1000'

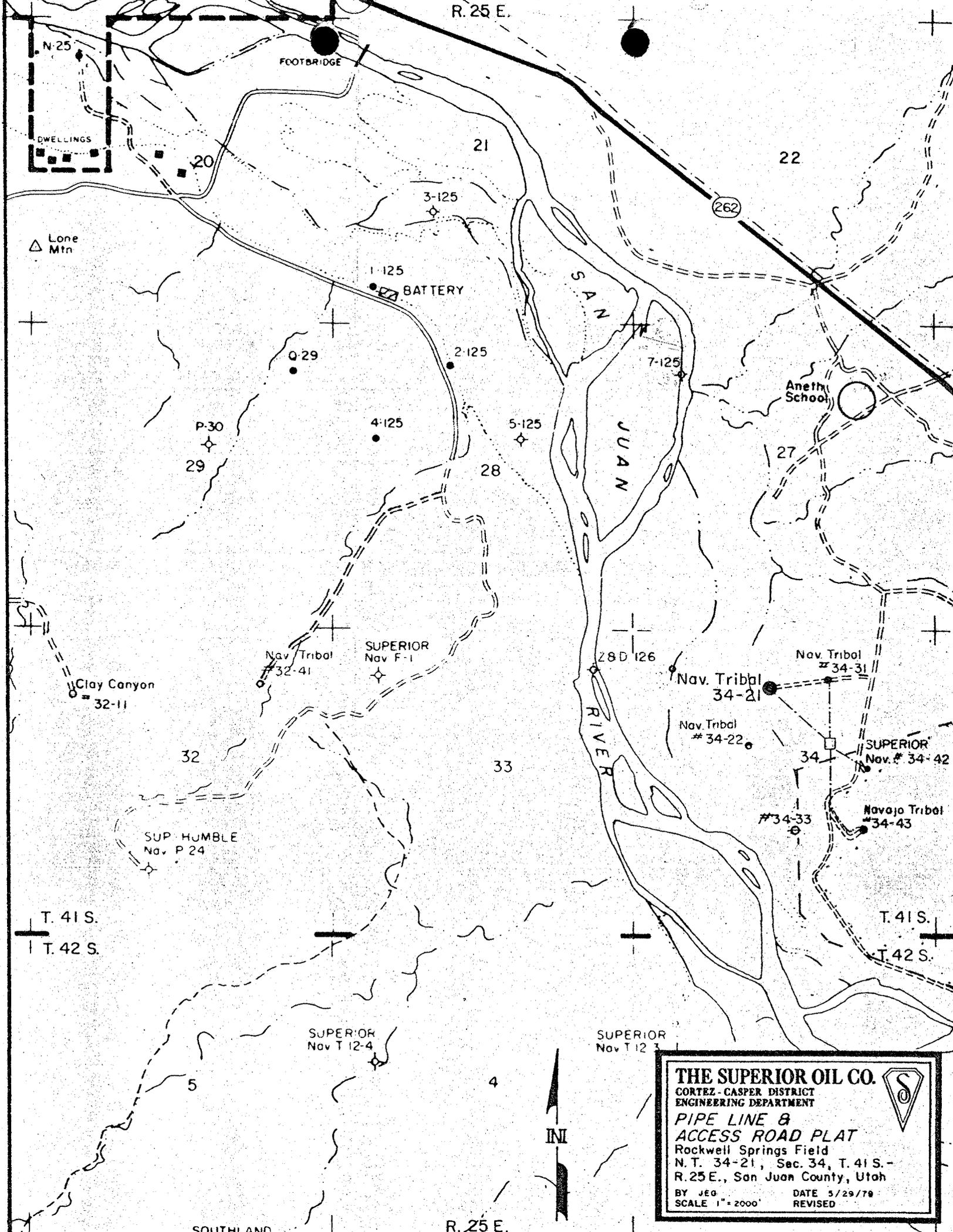


- O Location
- Well
- ▽ Injector

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

109° 15' : 910 000 FEET (COLO.) R 24 E R 25 E. 459000 E. 460 461 462 10' 463 CORTEZ, COLO. 41 MI (CAJON MESA) R 25 E 4158 I





R. 25 E.

FOOTBRIDGE

N-25

DWELLINGS

21

22

Lone Mtn

3-125

1-125

BATTERY

2-125

7-125

Aneth School

4-125

5-125

P-30

29

28

27

SUPERIOR Nav F-1

Nav. Tribal #32-41

28 D 126

Nav. Tribal #34-21

Nav. Tribal #34-31

Nav. Tribal #34-22

SUPERIOR Nav #34-42

32

33

34

#34-33

Navajo Tribal #34-43

SUP HUMBLE Nav P 24

T. 41 S.

T. 42 S.

T. 41 S.

T. 42 S.

SUPERIOR Nav T 12-4

SUPERIOR Nav T 12-3

5

4



R. 25 E.

**THE SUPERIOR OIL CO.**   
 CORTEZ - CASPER DISTRICT  
 ENGINEERING DEPARTMENT  
**PIPE LINE &  
 ACCESS ROAD PLAT**  
 Rockwell Springs Field  
 N. T. 34-21, Sec. 34, T. 41 S. -  
 R. 25 E., San Juan County, Utah  
 BY JEG. DATE 5/29/79  
 SCALE 1" = 2000' REVISED

# THE SUPERIOR OIL COMPANY

P. O. DRAWER G

CORTEZ, COLORADO 81321

May 24, 1979

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  
Navajo Tribal #34-21  
1000' FNL, 2400' FWL  
Section 34, T41S, R25E  
San Juan County, Utah

Dear Mr. McGrath:

The "Surface Use Development Plan" for the proposed Navajo Tribal #34-21 is as follows:

1. The existing roads and the location of the main highway exit are shown on the attached road and pipeline plat.
2. A new 900' X 30' access road is required as shown on the attached plat. The proposed road will run west to the location and will be of compacted sand and gravel with a maximum grade of 1%. 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 proposed and 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 1200' southeast to the existing Rockwell Springs battery.
5. Water for drilling operations will be obtained from 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 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 location will be used for elevation of 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

*James R. Oberlander*  
James R. Oberlander

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.

5-25-79  
Date

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

SUPPLEMENT TO FORM 9-331C

WELL: Navajo Tribal #34-21

SURFACE FORMATION WHERE PROPOSED DRILLING IS TO TAKE PLACE: Dakota

ESTIMATED FORMATION TOPS: (Measured from KB approximately 4537')

Chinle	1170'
DeChelly	2340'
Ismay	5170'
Gothic Shale	5300'
Desert Creek	5335'
Chimney Rock	5462'
TD	5490'

WATER BEARING FORMATIONS: Water is expected to be encountered intermittently from 400' to 1170'.

HYDROCARBON BEARING FORMATIONS: Oil and gas are expected to be encountered intermittently from 5170' to 5462'.

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:

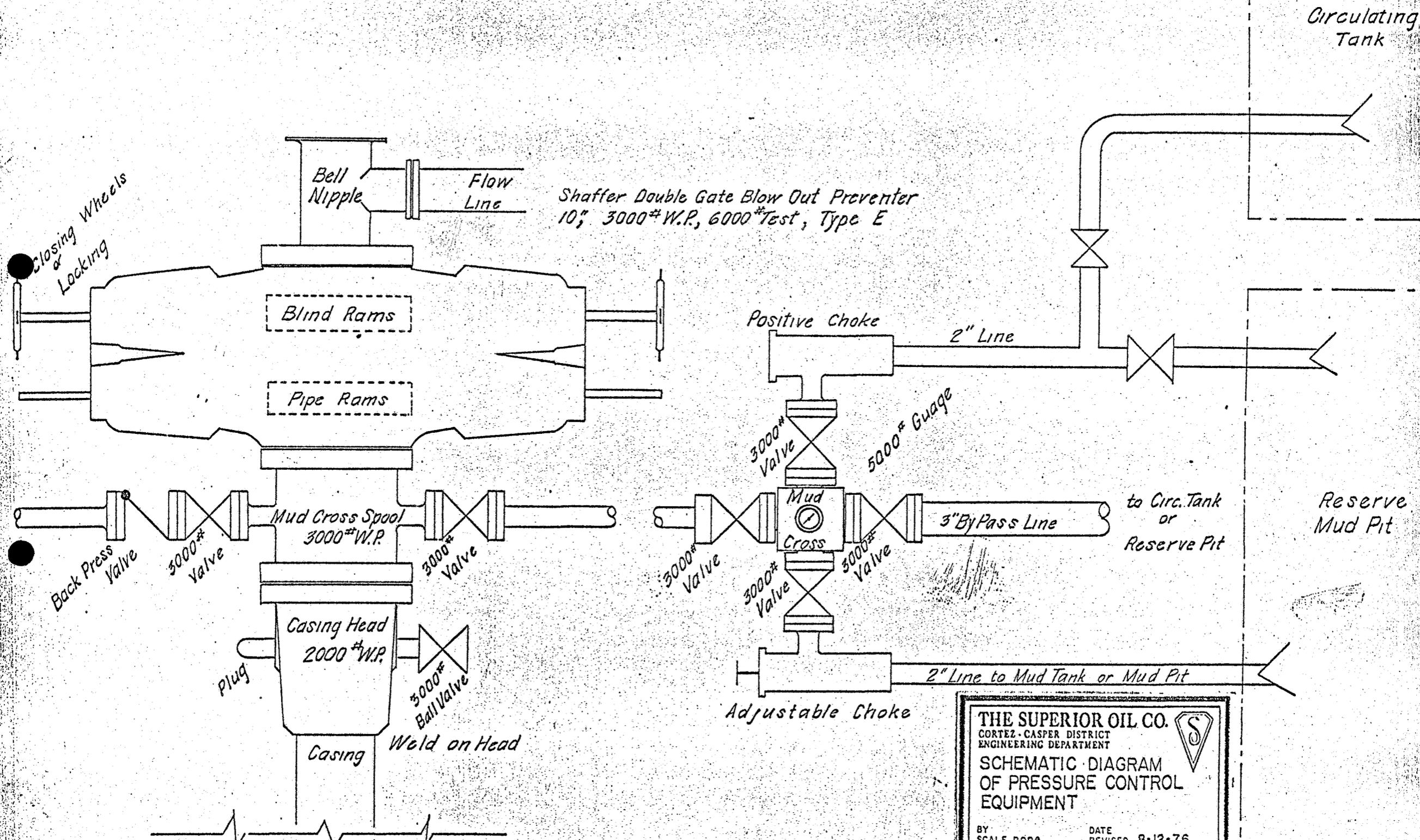
- Conductor - Cement to surface with 150 sx Light with class 'B' cement containing 4% gel and 2% CaCl.
- Surface - Cement to surface w/650 sx B.J. Light w/10#/sk Gilsonite, followed w/100 sx Class 'B' Neat w/2% CaCl at 15.6 ppg.
- Production - 250 sx Class 'B' with 5#/sk salt, 1/2#/sk Firm Set and 3/4% CFR-2.

LOGGING PROGRAM:

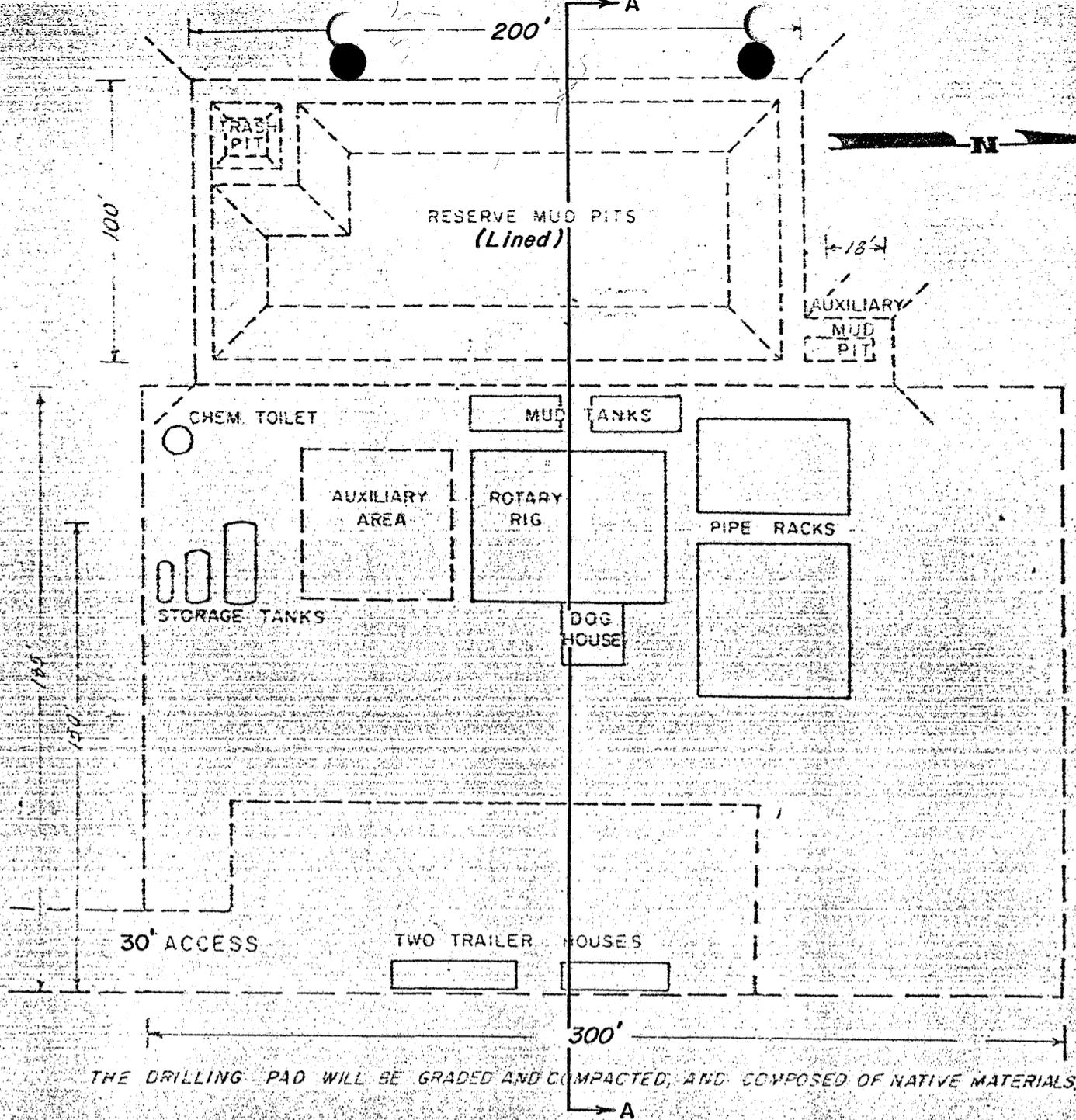
- FDC-CNL Sonic - TD to Surface.
- DIL, MSFL, VELOCITY SURVEY - TD to 5000'

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.

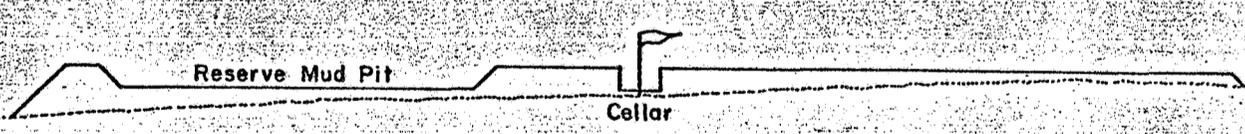


**THE SUPERIOR OIL CO.**  
 CORTEZ-CASPER DISTRICT  
 ENGINEERING DEPARTMENT  
 SCHEMATIC DIAGRAM  
 OF PRESSURE CONTROL  
 EQUIPMENT  
 BY SCALE none DATE REVISED 8-12-76



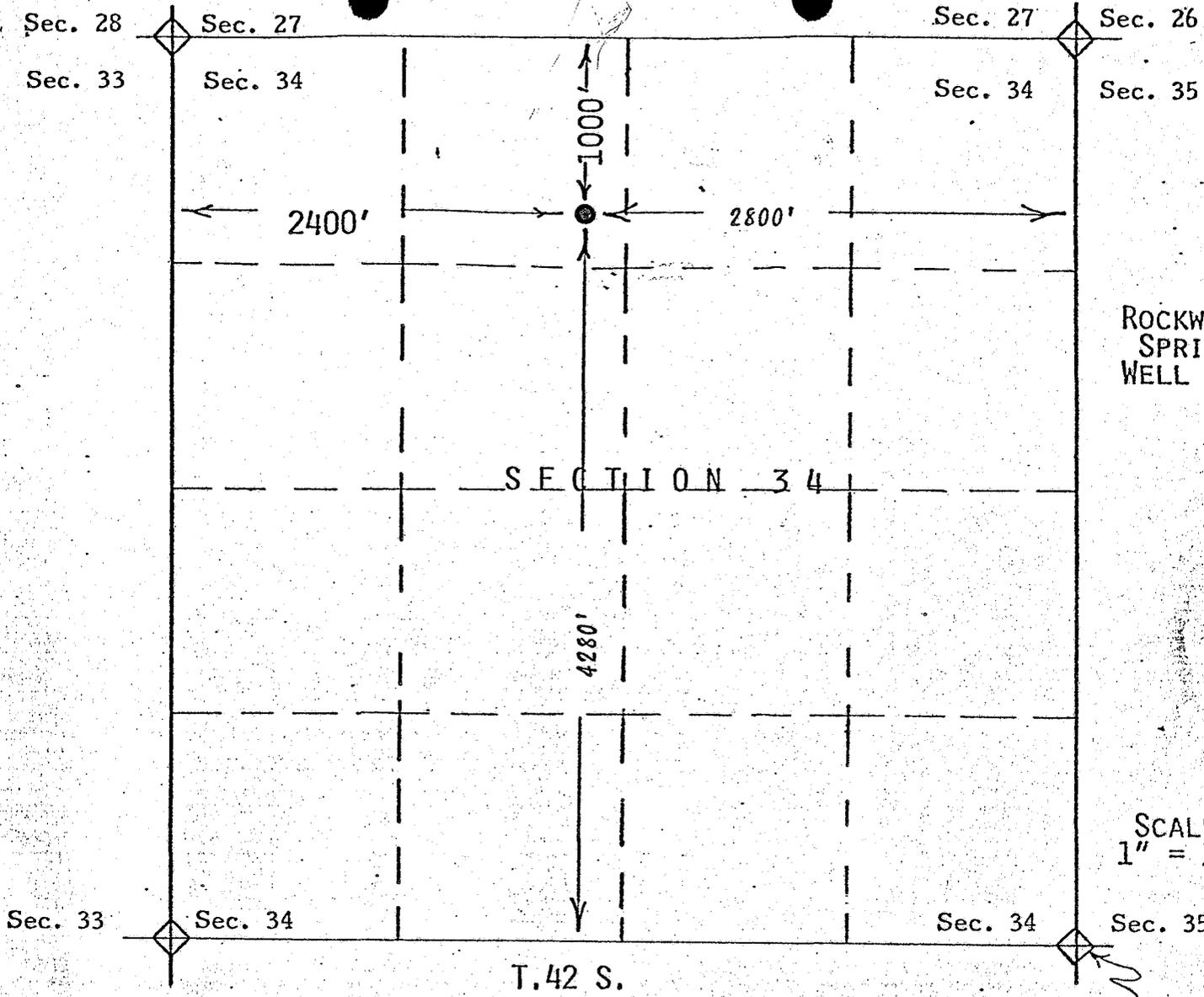
THE DRILLING PAD WILL BE GRADED AND COMPACTED, AND COMPOSED OF NATIVE MATERIALS

PROPOSED WELL SITE  
 N.T. 34-21  
 Original Elev. 4524.4'



Original Contour   
 Reference Point   
 Graded Proposal 

THE SUPERIOR OIL CO.   
 CORTEL - CASPER DISTRICT  
 ENGINEERING DEPARTMENT  
**RIG LAYOUT & DRILL  
 PAD CROSS SECTION**  
 N.T. Well No. 34-21  
 ROCKWELL SPRINGS FIELD  
 SAN JUAN CO., UTAH  
 BY M.H.E. DATE: 8-12-78  
 SCALE: 1" = 50' REVISED: 1-29-79



ROCKWELL  
SPRINGS  
WELL #34-

SCALE:  
1" = 1000'

WELL 34-21

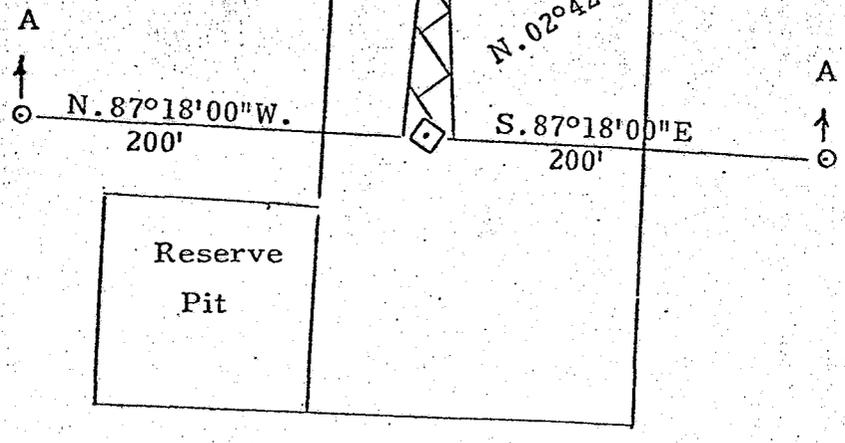
4530  
4520

Section A-A  
Horizontal Scale 1"=100'  
Vertical Scale 1"=50'

Road 900' @ 1 1/2% grade

Rockwell Springs 34-21  
Elevation 4524.00

Ref. Elev.  
4519.8



Ref. Elev. 4524.4

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

*Fredric P. Thomas*  
FREDRIC P THOMAS  
Reg. L.S. and P.E. Bearing by  
Coto. Reg. No. 6728 Solar  
Utah Reg. No 4346 observation

THOMAS Engineering Inc.  
215 N. Linden

Denver, Colorado  
565-4496



STATE OF UTAH  
DIVISION OF OIL, GAS, AND MINING

\*\* FILE NOTATIONS \*\*

Date: May 29, 1979

Operator: Superior Oil Company

Well No: Navajo Tribal 34-21

Location: Sec. 34 T. 41S R. 25E County: San Juan

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API Number: 43-037-36500

CHECKED BY:

Administrative Assistant: \_\_\_\_\_

Remarks:

Petroleum Engineer: COG OK BOP OK JANK

Remarks: archeological prob. will send letter requesting exception, Oberlander 5/80 303-565-3733 4/12 will send statement of ownership 660' radius

Director: \_\_\_\_\_

Remarks: cond upon own 660'

INCLUDE WITHIN APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. \_\_\_\_\_

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 \_\_\_\_\_ Unit

Other: \_\_\_\_\_

#2

Adrian  
USGS  
Phil McGraw  
posted

Letter Written/Approved  
ktm

# THE SUPERIOR OIL COMPANY

P. O. DRAWER G  
CORTEZ, COLORADO 81321

May 31, 1979



Mr. Mike Minder  
Geological Engineer  
Utah Division of Oil, Gas & Mining  
1588 West North Temple  
Salt Lake City, Utah 84115

Re: Navajo Tribal #34-21  
2400' FWL, 1000' FNL  
Section 34, T41S, R25E  
San Juan County, Utah

Dear Mike Minder:

This letter is to advise you of the reason for the off-pattern for our proposed Navajo Tribal #34-21 well.

The west 40 acre offset location to the present Navajo Tribal #34-31 would have been in the center of an approximate 300 foot diameter archaeological ruin. The building of a sufficient size drilling pad dictated that the 40 acre location site be moved to the present location so as not to disturb this ruin. Structure mapping indicates that the best direction for the location was to the east.

If you have any further questions please advise.

Sincerely,

THE SUPERIOR OIL COMPANY

*James R. Oberlander*

James R. Oberlander

JRO/1h

September 7, 1979

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

Re: Well No. Navajo Tribal 34-21  
Sec. 34, T. 41S, R. 25E.,  
San Juan County, Utah

Attention Mr. James R. Oberlander

Dear Mr. Oberlander:

As discussed during our phone conversation on September 6, 1979, concerning the above referenced well, as of this date we have not recieved a letter from your company stating that they own or control the acreage within a radius of 660' of the proposed well location.

We must have this document in order to further process your application. Please send it to our office as soon as possible. Thank you very much for your time.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Hinder  
Geological Engineer

NTM:btm

cc: USGS  
Phil McGrath

September 24, 1979

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

RE: Well No. Navajo Tribal 34-21  
Sec. 34, T. 41S, R. 25E.,  
San Juan County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure. However, this Division required that a letter from The Superior Oil Company stating that you own or control acreage within a 660' radius of the proposed site be submitted to this office prior to the drilling of this well.

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

FRANK M. HAMNER  
Chief Petroleum Engineer  
Home: 531-7827  
Office: 533-5771

MICHAEL T. MINDER  
Geological Engineer  
Office: 533-5771  
Home: 876-3001

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 43-037-30500.

Sincerely,  
DIVISION OF OIL, GAS AND MINING

Frank M. Hamner  
Chief Petroleum Engineer

/b:tm

cc: Phil McGrath

# THE SUPERIOR OIL COMPANY

P. O. DRAWER G  
CORTEZ, COLORADO 81321

October 15, 1979

Michael T. Minder  
Geological Engineer  
Division of Oil, Gas & Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

Re: Navajo Tribal #34-21  
Section 34, T41S, R25E SLM  
San Juan County, Utah

Dear Mr. Minder:

The Superior Oil Company controls all oil and gas mineral rights within a 660' radius of the reference well. The Superior Oil Company was designated as operator of all of Section 34, T41S, R25E from Duncan Oil Company.

Very truly yours,

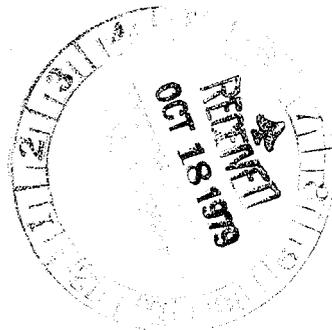
THE SUPERIOR OIL COMPANY



Wm. H. Edwards  
Area Production Superintendent

JRO/th

cc: U.S.G.S, Farmington



3

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**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 Form 9-331-C for such proposals.)

1. 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. See space 17 below.)  
AT SURFACE: 2400' FWL, 1000' FNL  
AT TOP PROD. INTERVAL: Same as surface  
AT TOTAL DEPTH: Same as surface

5. LEASE  
N00-C-14-20-3002

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
NAVAJO

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
NAVAJO TRIBAL

9. WELL NO.  
#34-21

10. FIELD OR WILDCAT NAME  
ROCKWELL SPRINGS FIELD

11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA  
SEC. 34, T41S, R25E, SLM

12. COUNTY OR PARISH  
SAN JUAN

13. STATE  
UTAH

14. API NO.  
43-037-30500

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
4524' Ungraded Ground Level

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

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other) <u>DISCONTINUE APD</u>			

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)\*

Please drop subject well (Navajo Tribal 34-21; 2400' FWL, 1000' FNL Sec. 34, T41S, R25E) from the Application for Permit To Drill records and files. Superior Oil is proposing a new oil well (1690' FWL, 1380' FNL Sec. 34, T41S, R25E) which would be +820' southwest of subject well; this violates the State of Utah's General Rules and Regulations and Rules of Practice and Procedure Rule C-3 (b). Recent Geophysical data and interpretation dictated that this new location.

**LOCATION ABANDONED**

**RECEIVED**

FEB 01 1980

DIVISION OF  
SOIL GAS & MINING

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_

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

SIGNED J. R. Oberlander TITLE Engineer DATE 1-30-80

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

JRO/1h  
Orig + 3 - USGS, State - 2, Navajo Tribe, Walter Duncan Oil Properties, T. W. Cooley, Reg. Group, Central File - Houston, Conroe, Cortez  
\*See Instructions on Reverse Side