

UTAH OIL AND GAS CONSERVATION COMMISSION

7

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

Application rescinded 11.2.84

DATE FILED 4-12-83

LAND: FEE & PATENTED _____ STATE LEASE NO. _____ PUBLIC LEASE NO. _____ INDIAN NOO-C-14-20-5117

DRILLING APPROVED: 5-3-83 - OIL

SPUDDED IN: _____

COMPLETED: _____ PUT TO PRODUCING: _____

INITIAL PRODUCTION: _____

GRAVITY A.P.I. _____

GOR: _____

PRODUCING ZONES: _____

TOTAL DEPTH: _____

WELL ELEVATION: _____

DATE ABANDONED: LA 10.2.84

FIELD: ~~Undesignated~~ North GREATER ANETH

UNIT: _____

COUNTY: San Juan

WELL NO. Lone Mountain Canyon #36-23 API #43-037-30895

LOCATION 1473 FT. FROM (S) LINE. 1741 FT. FROM (W) LINE. NESW 1/4 - 1/4 SEC. 36

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
41S	24E	36	SUPERIOR OIL COMPANY				

- JACK CALHOON -

Requested C-3-(K)

info

Yorum

4-12-83

Request did not include
C60 statement. Made
written request for same.

Yorum

4-19-83

OK 5-3-83

Yorum

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 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface 1473' FSL, 1741' FWL NESW Section 36
 At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 4 miles southwest of Aneth, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 1473'
 153'

16. NO. OF ACRES IN LEASE
 480

17. NO. OF ACRES ASSIGNED TO THIS WELL
 80

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 1400'

19. PROPOSED DEPTH
 5840'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 4644.3' Ungraded Ground Level

22. APPROX. DATE WORK WILL START*
 May 16, 1983

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
18"	13-3/8"	54.5#	100'	Redi-mix to surface
12-1/4"	8-5/8"	24#	1800'	1300 sx
7-7/8"	5-1/2"	15.5#	5840'	250 sx

1. Drill 18" hole to 100'. Set 100' of new 13-3/8" 54.5#/ft H 40 ST&C casing Cement to surface with Redi-mix.
2. Drill 12-1/4" hole to 1800' and set 1800' of new 8-5/8" 24#/ft K-55 ST&C casing Cement to surface with 1300 sx Class 'B' cement. NU BOP.
3. Drill 7-7/8" hole to 5840', run DIL-GR, FDC-CNL, BHC Sonic from 5840'-1800'.
4. Run 5840' of 5-1/2", 15.5# K-55 ST&C casing and cement w/ 250 sx Class 'B' cement.
5. To be completed in the Ismay and/or Desert Creek based on log evaluation

RECEIVED
 APR 12 1983

DIVISION OF OIL, GAS & MINING

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 conditions and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Wm. H. Edwards TITLE Special Projects Superintendent DATE April 7, 83

(This space for Federal or State office use)

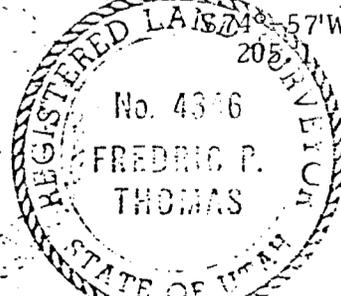
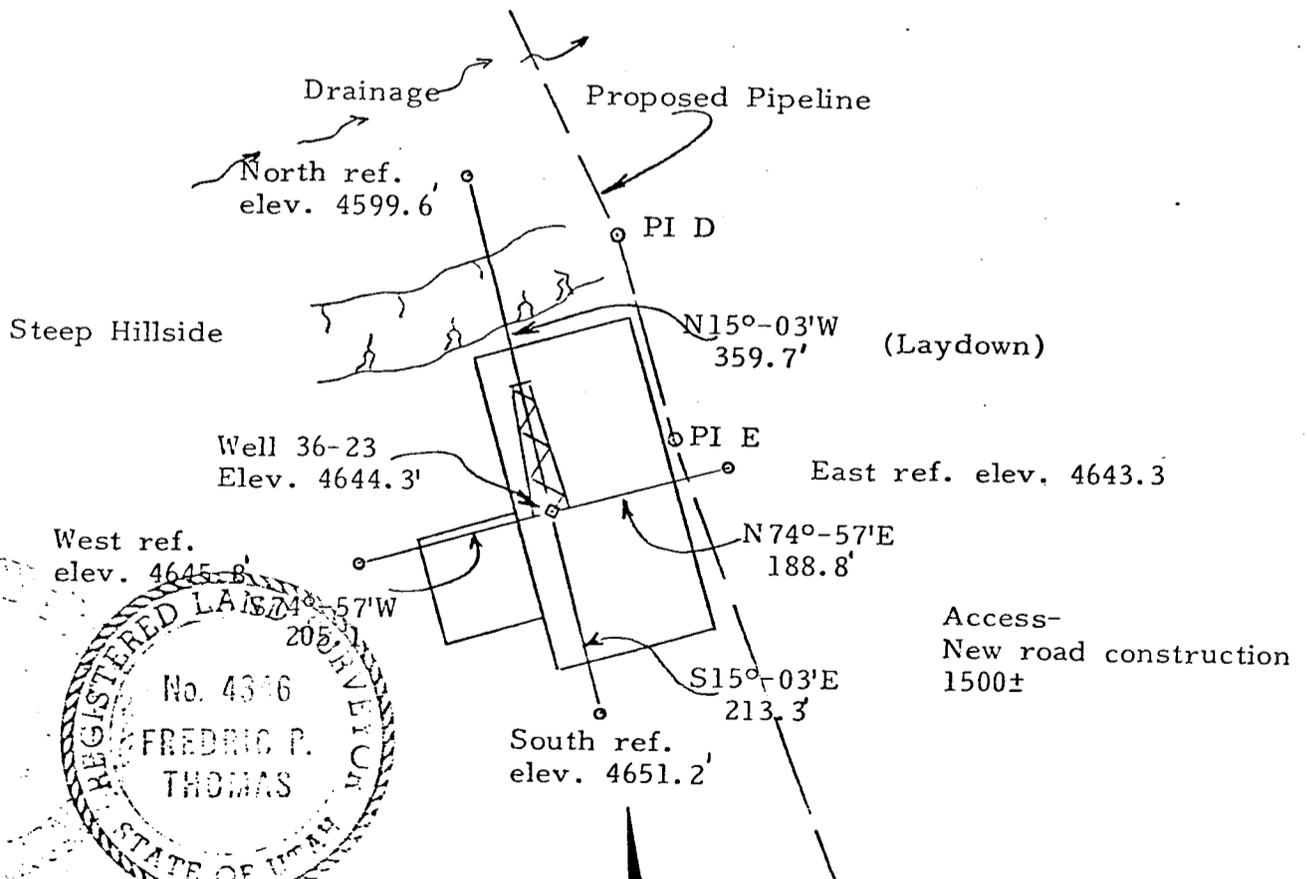
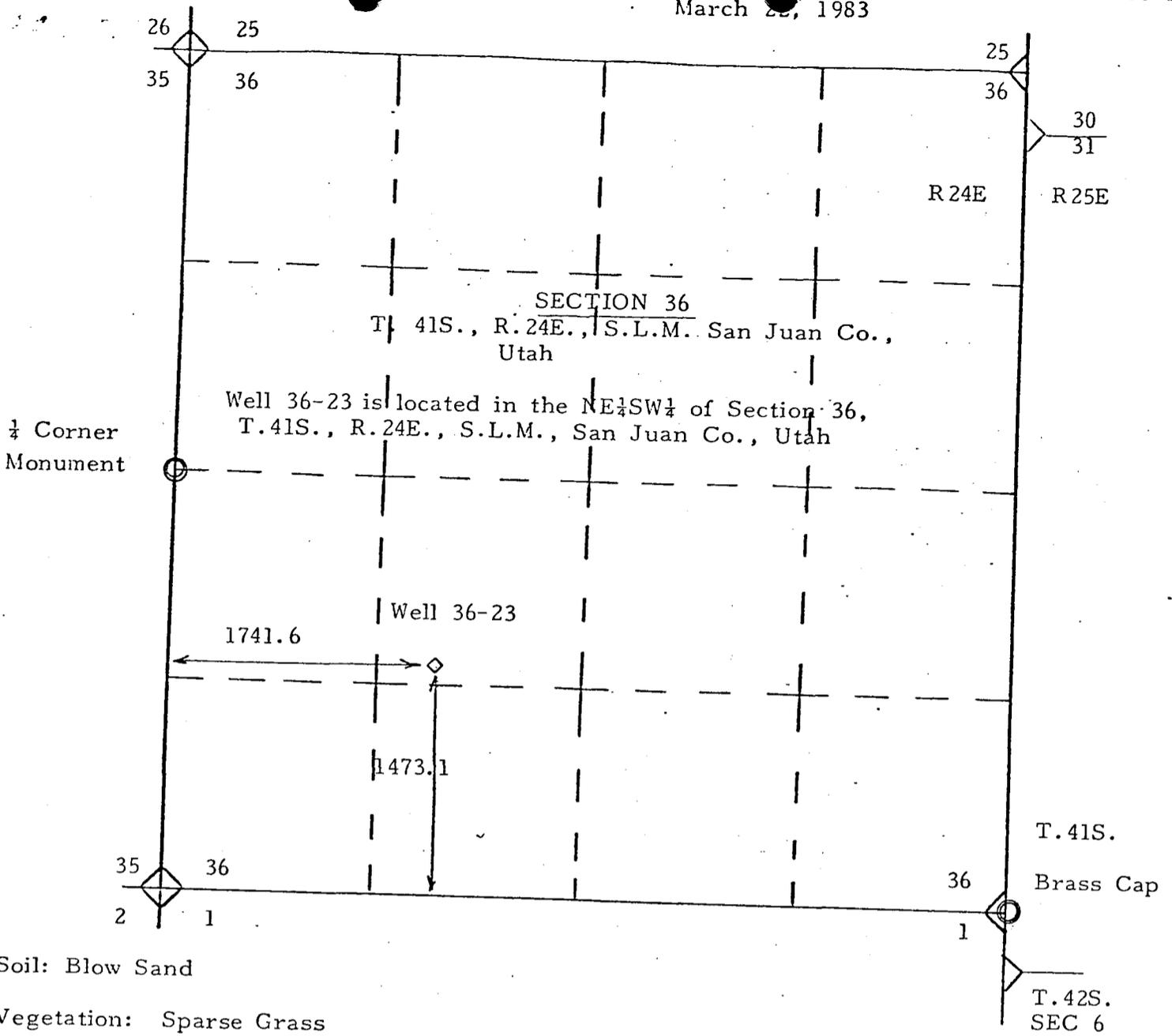
PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

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

DATE: 5-3-83
 BY: Norman L. Hunt



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 Bearing by
 Reg. L.S. and P.E. Solar
 Colo. Reg. No. 6728 observation
 Utah Reg. No. 4346

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



Horizontal Scale
 1"=200'

RULE C-3 — GENERAL WELL SPACING REQUIREMENTS

(a) The spacing of wells in pools for which drilling units have been established shall be governed by special rules for that particular pool.

(b) All wells drilled for oil and/or gas which are not within an area covered by a special area spacing rule or which are not within a pool for which drilling units have been established, shall be located not less than 500 feet from any property or lease line or from the boundary of any legal subdivision comprising a governmental quarter-quarter section or equivalent lot or lots of comparable size and location and not less than 1000 feet from any oil well, or 4,960 feet from any gas well, unless otherwise specifically permitted by order of the Commission after notice and hearing, unless an exception is granted by the Commission pursuant to Rule C-3 (c).

(c) The Commission may grant an exception to the requirements of (b) above as to the situs of a particular well location, without notice and hearing, where an application has been filed in due form and:

(1) The necessity for an unorthodox location is based on topographical, and/or geological conditions, and;

(2) The ownership of all oil and gas leases within a radius of 660 feet of the proposed location is common with the ownership of the oil and gas leases under the proposed location, or all owners of oil and gas leases within such radius consent in writing to the proposed location.

(d) Whenever an exception is granted, the Commission may take such action as will offset any advantage which the person securing the exception may obtain over other producers by reason of the unorthodox location.

(e) The spacing requirements of this rule shall not apply in cases where, in the opinion of the Commission, engineering practices have *been proven otherwise*.

SUPERIOR OIL

April 5, 1983

Mr. James F. Sims
District Supervisor
U. S. Department of Interior
Bureau of Land Management
P. O. Box 600
Farmington, New Mexico 87499

Re: Surface Use Development Plan
Proposed Well
Lone Mountain Canyon #36-23
1473' FSL, 1741' FWL
Section 36, T41S, R24E, SLM
San Juan County, Utah

Dear Sir:

We submit the following application and plats for permission to drill the referenced well.

1. The existing roads are shown on the attached drill site and facilities plats. Directions to the location from Montezuma Creek, Utah are as follows:
from the San Juan River Bridge at Montezuma Creek go south on blacktop 0.4 miles to the Red Mesa Highway. Go southeasterly 1.2 miles on the Red Mesa Highway to a gravel road on the left. Proceed southeasterly on gravel road parallel to the river for 6.3 miles to a wash. Cross the wash, go south parallel to the wash 3 miles. Go northwest 0.5 miles to Superior's well Lone Mountain Canyon #36-34. Go northeast 0.3 miles on road along pipeline right of way to location. The existing roads are being maintained as access to an existing producing well. (refer to Plat #1).
2. Planned access road will be from Superior's well LMC #36-34 in a north-easterly direction 0.3 miles along pipeline right of way. An existing wash will be crossed 50' northeast of the #36-34 location. A low water crossing will be used. Ditching and waterbars will be constructed as directed by the Bureau of Indian Affairs to control erosion. Maximum grade will not exceed 7%. The width of the road will not exceed the pipeline right of way limits. (refer to Plat #1).

3. Location of existing wells within one mile:

- a. Water wells - none.
- b. Abandoned wells - six.
- c. Temporarily abandoned wells - one.
- d. Disposal wells - none.
- e. Drilling wells - none.
- f. Producing wells - two.
- g. Shut in wells - none.
- h. Injection wells - none.

(refer to Plat #2).

4. Location of existing and/or proposed producing facilities: there is one set of producing facilities owned or controlled by Superior approximately 1500 ft southwest to the proposed location. There are no other facilities owned or controlled by Superior within a one mile radius of the proposed well. If the proposed well is productive the existing facilities will be used and the flowline will be buried along the road right of way. An earthen dike will be maintained around storage tank.
5. Location and type of water supply will be from Superior's McElmo Creek Unit operations which gets its fresh water from wells near the San Juan River (SW1/4 Sec. 17, T41S, R25E). Water will be trucked to location over existing road and access road to be built.
6. Source of construction materials necessary to build the drilling pad and access road will be obtained from the location and road. If gravel is needed to maintain existing roads and/or access road it will be trucked from an off the reservation privately owned gravel pit 0.25 miles west of Montezuma Creek.
7. Methods for handling waste disposal is to collect it in an earthen pit 6' to 8' deep with steep sides and fenced with small mesh wire and located near the mud pit. The reserved mud pit will be located on the west side of the location. When drilling operations are complete the mud pits will be allowed to dry and then backfilled and leveled to the contour of the original landscape. The reserve pit will be lined with Bentonite. The reserve pit will be fenced on three sides while drilling and on the fourth side as soon as the drilling rig moves out, OSHA approved chemical toilets will be provided and maintained. (refer to Plat #3 & #4).
8. Ancillary facilities. No permanent campsites or air strips will be constructed. Two small portable trailer houses for Superior's and contractors drilling Supervisory personnel will be on the location while drilling the well. (refer to Plat #3).

9. Wellsite layout. The location and position of all drilling equipment is shown on the attached plat. There is also a plat attached showing the cross section diagram of the drill pad including all cuts and fills. Material from the location will be used for pad elevation. (refer to Plats #3, #4, #5 & #6).
10. Plans for restoration of the surface. Upon completion of drilling operations and in case of a dry hole the site and unused portion of the access road will be restored to the contour of the original landscape and seeded in accordance with the BIA requirements.
11. Surface land is owned by the Navajo Tribe and is used primarily for grazing. Vegetation is sparse and consists of Rice Grass, Sandhill Muhly, Morman Tea and Rumex.

There are no Indian habitations or artifacts in the immediate vicinity of the access road, flow line or drill site. The nearest habitate is 2/3 mile northwest of the location.

12. Superior's representatives:

Permitting - Wm. H. Edwards
Construction - J. A. Calhoon
Drilling - J. E. Gagneaux
Production - K. R. Johnson
Mailing address - P. O. Drawer 'G', Cortez, Co. 81321
Telephone (24 hrs) - 303-565-3733.
Dirt contractor - Perry McDonald Construction
P. O. Box 1750, Cortez, Co. 81321
Telephone - 303-565-3656
Drilling contractor - not determined at this time.

13. 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 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.

Respectfully submitted,

SUPERIOR OIL COMPANY

April 8 - '83
Date

Wm. H. Edwards
Wm. H. Edwards
Special Projects Superintendent

WHE/lh

SUPPLEMENT TO FORM 9-331-C

WELL: Lone Mountain Canyon (LMC) #36-23
1473' FSL, 1741' FWL
Section 36, T41S, R24E, SLM
San Juan County, Utah

ELEVATION: 4644.3' Ungraded ground level.

SURFACE FORMATION: Dakota

ESTIMATED FORMATION TOPS:

<u>Formation</u>	<u>Depth</u>
Chinle	1470'
DeChelly	2610'
Hermosa	4520'
Ismay	5370'
Lower Ismay	5490'
Gothic Shale	5530'
Desert Creek	5550'
Chimney Rock Shale	5730'
TD	5840'

WATER BEARING FORMATION: Water is expected to be encountered intermittently from 50' to 1470'.

HYDROCARBON BEARING FORMATION: Oil & gas could be encountered intermittently from 5490' to 5730'.

MUD PROGRAM: Surface to 2800' - Fresh water.
2800' to TD - Lignosulfonate or similar mud system.
Water loss controlled to 15 cc or less and weighted with Barite as necessary.

CASING PROGRAM:

	<u>Depth</u>	<u>Hole Size</u>	<u>O.D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Type</u>
Conductor	0-100'	18"	13-3/8"	54.5#	H-40	ST&C
Surface	0-1800'	12-1/4"	8-5/8"	24#	K-55	ST&C
Production	0-5840'	7-7/8"	5-1/2"	15.5#	K-55	ST&C

All casing will be new.

CEMENT PROGRAM:

Conductor - cement to surface with Redimix.
Surface - cement to surface with 1300 sx Class 'B' cement.
Production - cement with 250 sx Class 'B' cement.

PRESSURE CONTROL EQUIPMENT:

Blowout preventor equipment is shown on the attached plat, it will be a 10" series 600 with blind rams and drill pipe rams hydraulically and manually controlled. The blind rams will be tested daily. The mud system will be monitored by visual inspection. (refer to Plat #7).

LOGGING PROGRAM: DIL-GR, FDC-CNL, BHC Sonic.

HIGH PRESSURE and/or H2S GAS:

High pressure gas or gas containing detectable amounts of H2S are not anticipated while drilling this well.

DRILL STEM TESTS:

- 1) Ismay
- 2) Desert Creek

CORING: None.

ANTICIPATED STARTING DATE: May 16, 1983



Plat No. One

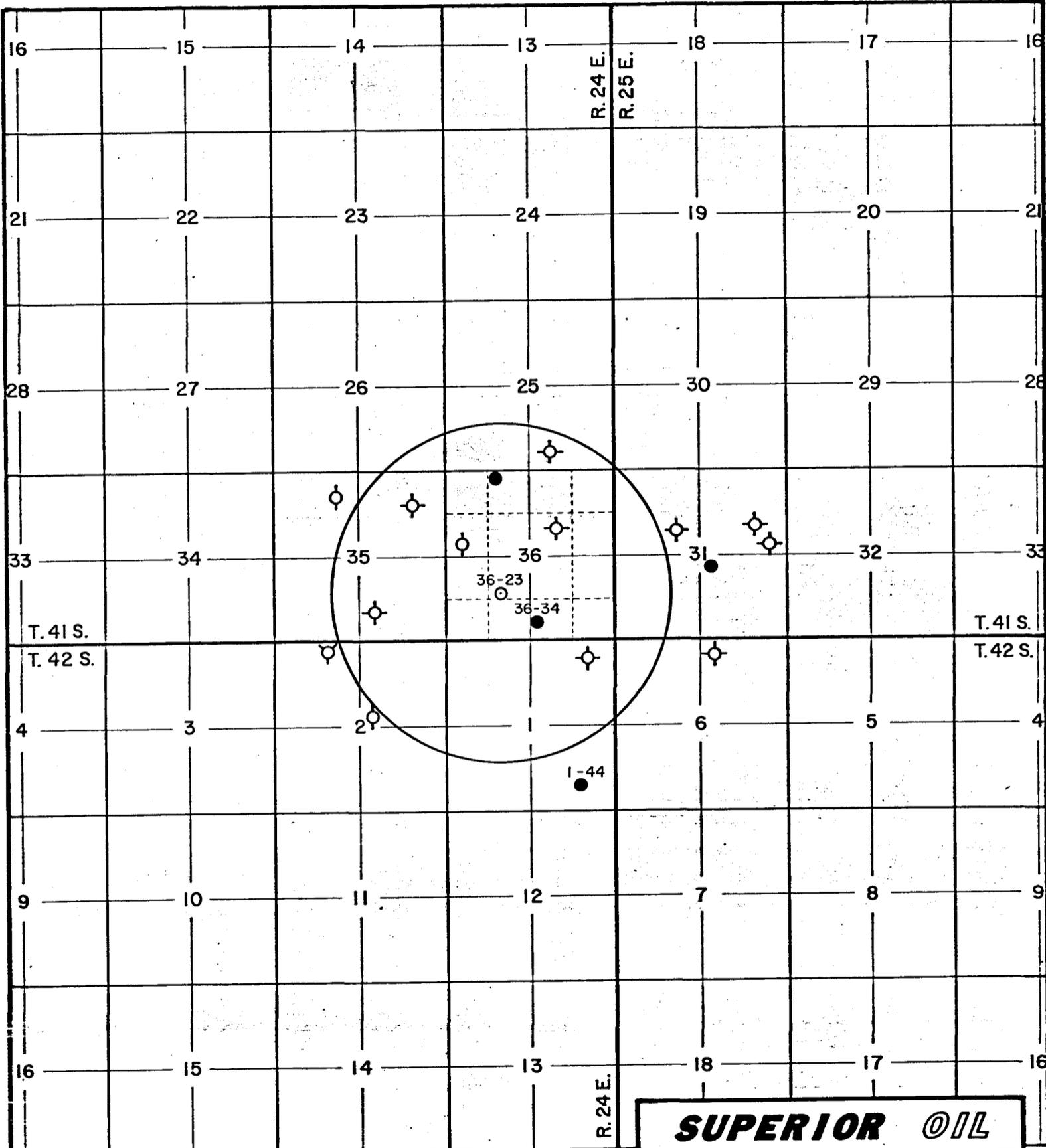
THE SUPERIOR OIL CO. 

CORTEZ - CASPER DISTRICT
 ENGINEERING DEPARTMENT

**PROPOSED DRILLING SITE
 & FACILITIES**

Lone Mountain Canyon No. 36-23
 Sec. 36, T. 41 S. - R. 24 E.
 1473' FSL - 1742' FWL
 San Juan Co., Utah

BY JEG DATE 3/22/83
 SCALE 1" = 2000' REVISED



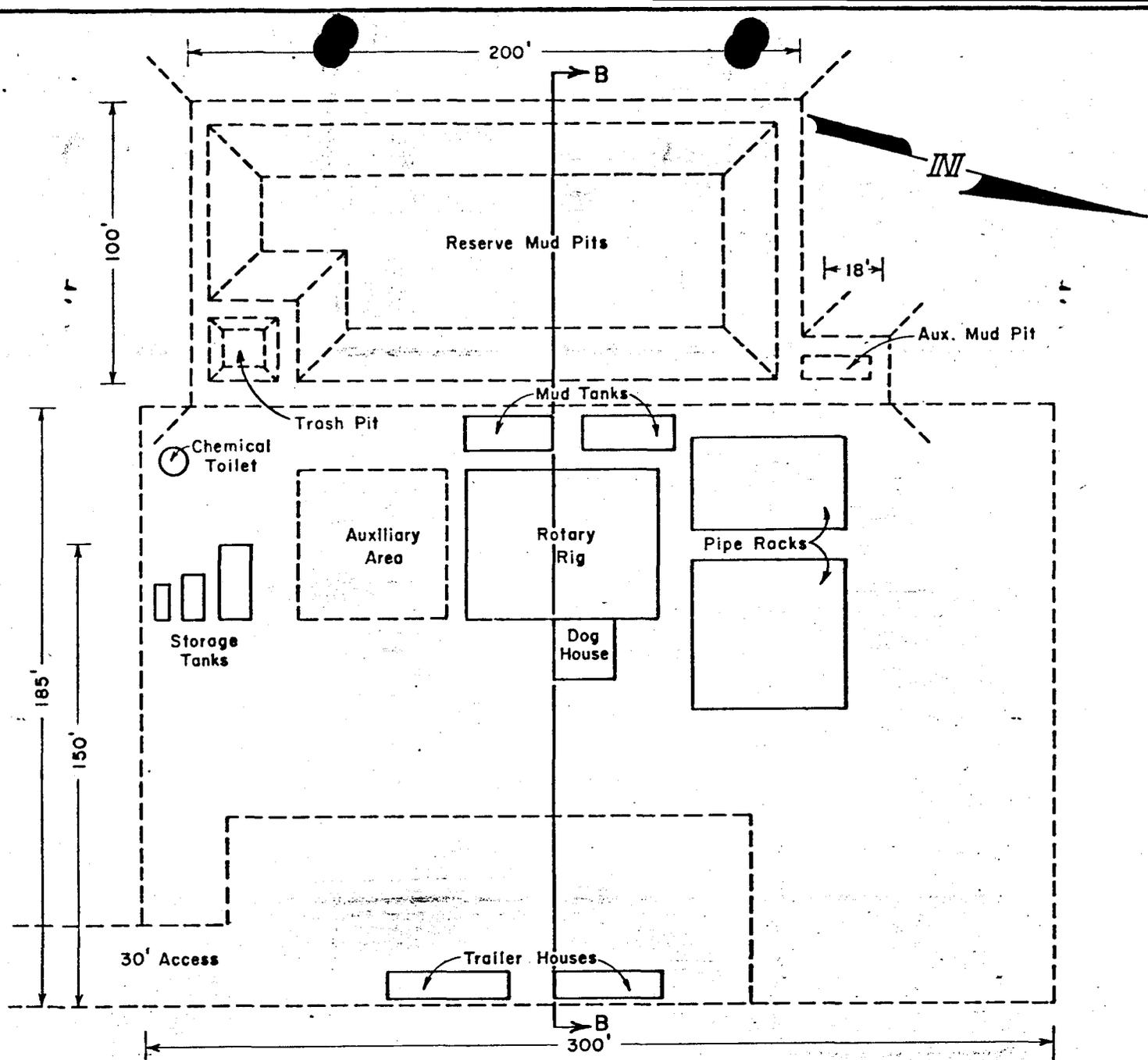
- ⊙ Proposed Well
- Producing Well
- ⊛ Gas Well
- ♀ Water Disposal Well
- Temporarily Abandoned
- ⊕ Plugged and Abandoned

SUPERIOR OIL

**EXISTING WELLS
SURROUNDING
PROPOSED WELL**

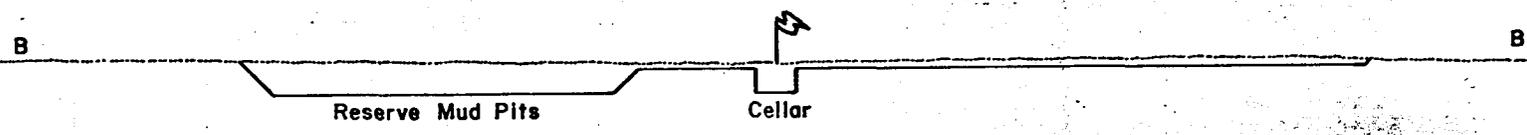
0 1/2 1 mile

By: JEG Date: 3/24/83



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

PROPOSED WELL SITE
 L.M.C. 36-23
 Original Elev. 4644.3'



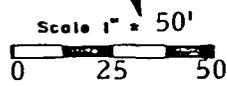
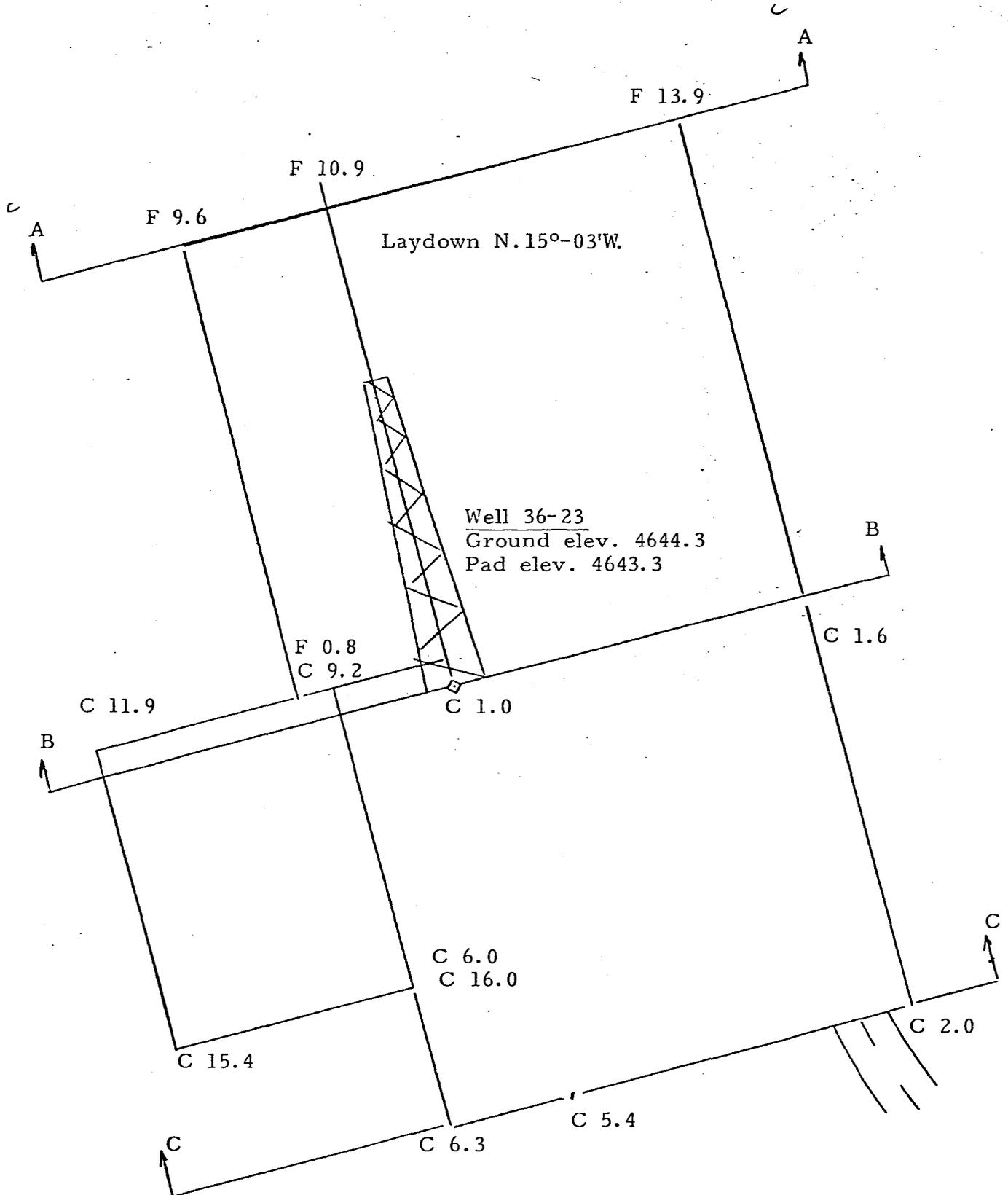
Original Contour 
 Reference Point 
 Graded Proposal 

THE SUPERIOR OIL CO.
 CORTES-CASPER DISTRICT
 ENGINEERING DEPARTMENT

**RIG LAYOUT & DRILL
 PAD CROSS SECTION**

LONE MOUNTAIN CANYON 36-23
 Sec. 36, T.41S.-R. 24 E.
 San Juan Co., Utah
 BY JEB DATE 3/22/63
 SCALE 1" = 80' REVISION

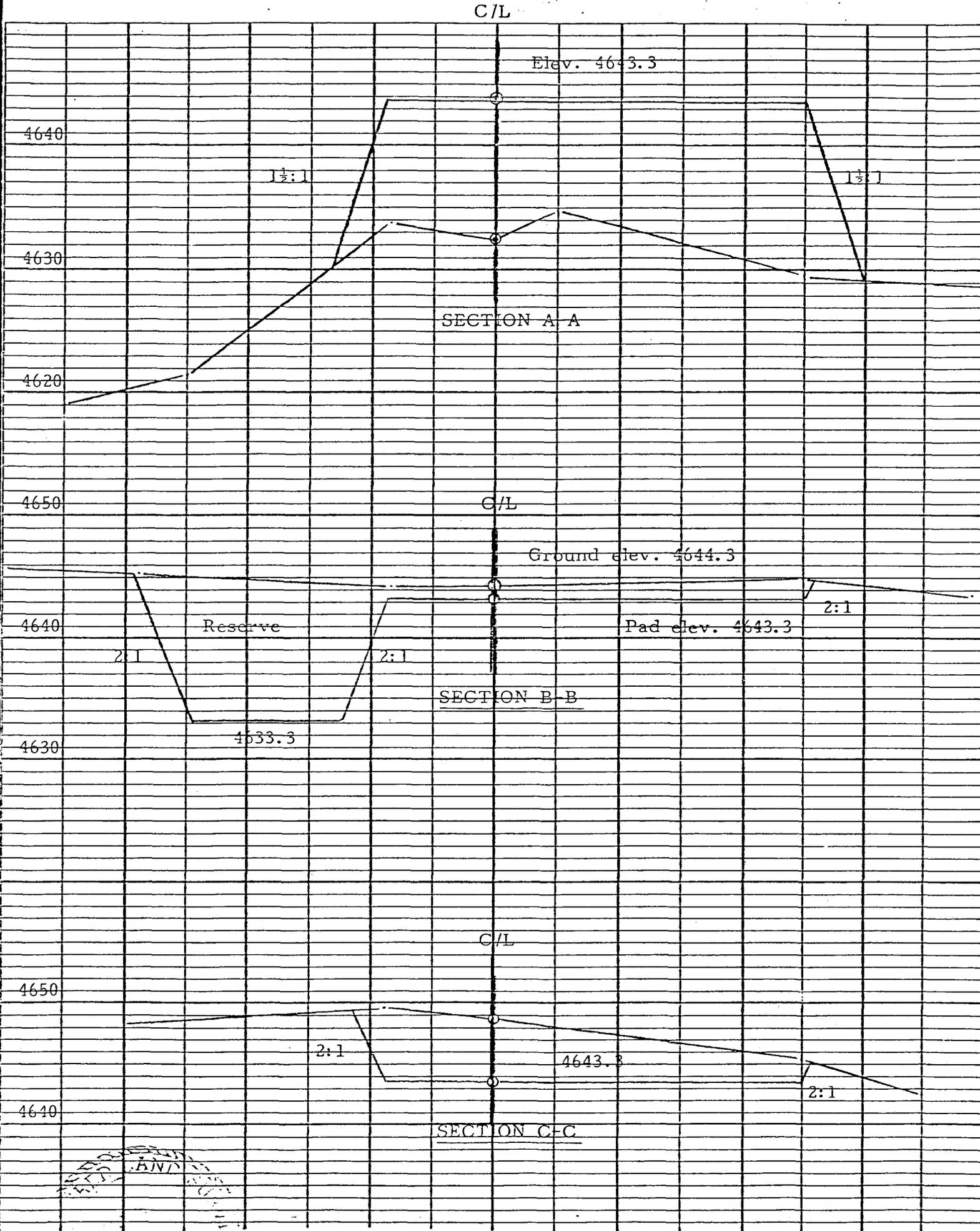




THOMAS Engineering Inc.

215 N. Linden
Cortez, Colorado
565-4496

FREDRIC P THOMAS
Reg. L.S. and P.E.
Colo. Reg. No. 6728
Utah Reg. No. 4346

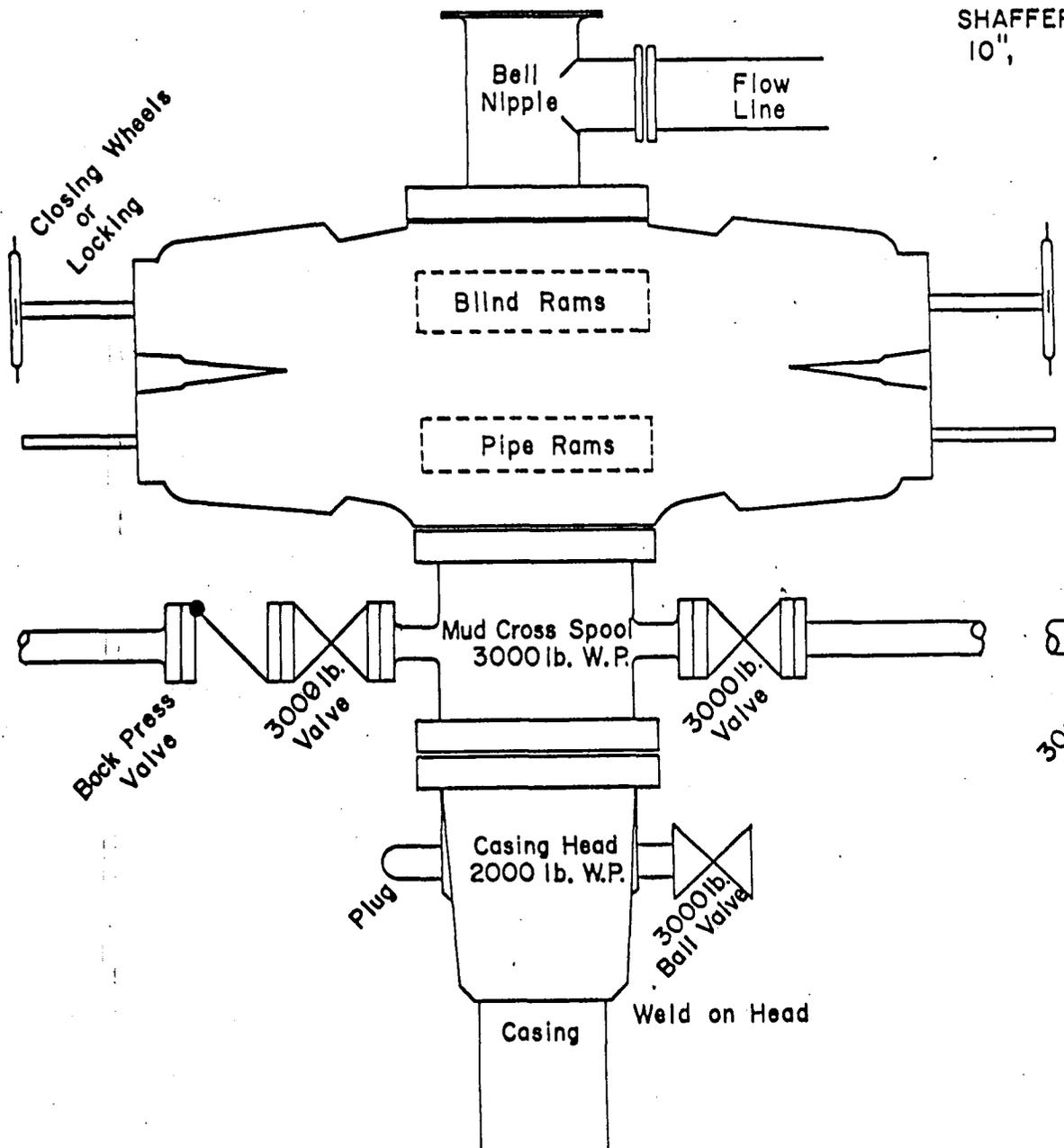


FREDRIC P THOMAS
Reg. L.S. and P.E.
Colo. Reg. No. 6728
Utah Reg. No. 4346

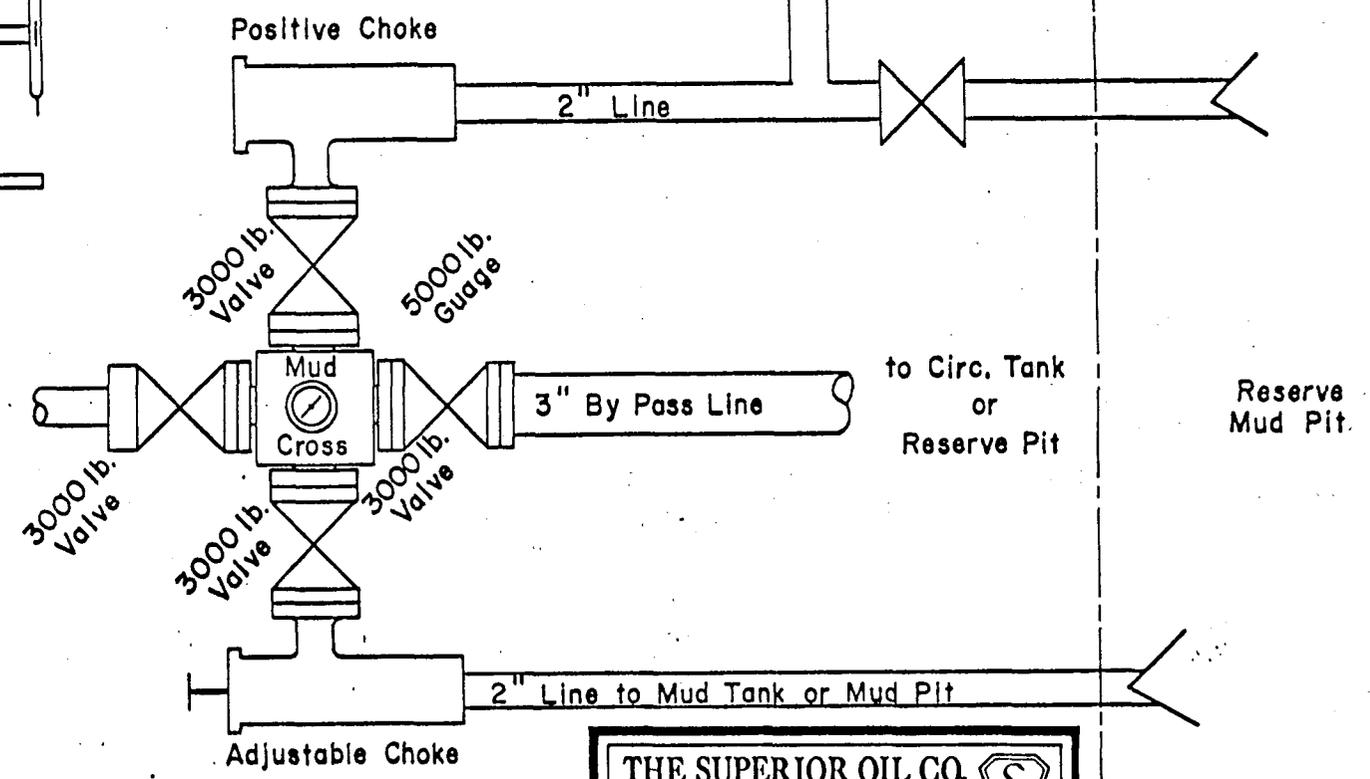
THOMAS Engineering Inc.

25 N. Linden
Cortez, Colorado
565-4496

Horizontal Scale
1"=50'
Vertical Scale
1"=10'



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 JEG DATE 6/25/79
 SCALE NONE REVISED

OPERATOR SUPERIOR OIL CO

DATE 4-12-83

WELL NAME LOVE MOUNTAIN CANYON #36-23

SEC NESW 36 T 41S R 24E COUNTY SAN JUAN

43-037-30895
API NUMBER

INDIAN
TYPE OF LEASE

POSTING CHECK OFF:

INDEX

HL

NID

PI

MAP

PROCESSING COMMENTS:

NO OIL WELLS WITHIN 1000'

RSTV

APPROVAL LETTER:

SPACING: A-3 _____ UNIT

c-3-a _____ CAUSE NO. & DATE

c-3-b

c-3-c

SPECIAL LANGUAGE:

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

AUTHENTICATE LEASE AND OPERATOR INFORMATION

VERIFY ADEQUATE AND PROPER BONDING *INDIAN*

AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

APPLY SPACING CONSIDERATION

ORDER NO

UNIT NO

c-3-b

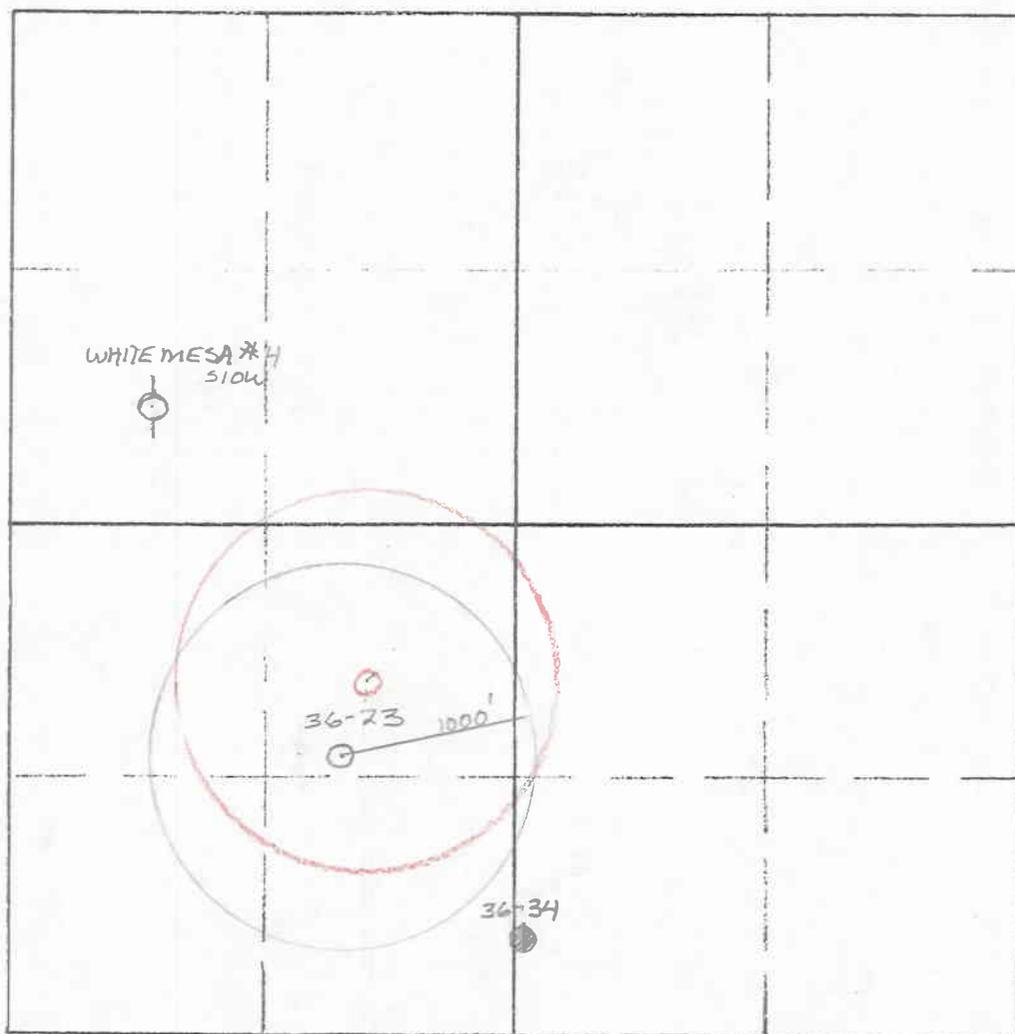
c-3-c

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.



SCALE 1:1000

SECTION 36
 TOWNSHIP 41S
 RANGE 24E
 COUNTY SAN JUAN

153 FSQQL, 421 FWQQL

SUPERIOR OIL

April 15, 1983

Mr. Norm Stout
Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, UT 84114

Re: Proposed Well
Lone Mountain Canyon #36-23
1473' FSL, 1741' FWL
Section 36, T41S, R24E
San Juan County, Utah

Dear Mr. Stout:

An Application for Permit to Drill for the above referenced well has been sent to you from W. H. Edwards in our Superior Oil Cortez, Colorado office. This well is staked on an unorthodox location in accordance with Rule C-3(c) General Rules and Regulations and Practice and Procedure.

An exemption is requested in order that the well observe the 80-acre spaced plan of development established by the initial well LMC #36-34. Further considerations included topography and the White Mesa Unit Boundary line.

We would appreciate your cooperation on this matter.

Sincerely yours,

Jeanette M. Bauman

Jeanette M. Bauman

JMB/dt

cc: W. E. Pritchard
W. E. Edwards

*MO 660' statement
W. E. Edwards
4-19*

RECEIVED

APR 19 1983

**DIVISION OF
OIL, GAS & MINING**



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

April 19, 1983

Superior Oil Company
Attn: Jeanette M. Bauman
1888 Sherman St., Suite 600
Denver, Colorado 80203

Dear Ms. Bauman:

Your request for an unorthodox drilling location (copy attached) does not fully comply with the requirements of Rule C-3(c). Please re-submit the request and include a statement pertinent to paragraph (2) relative to ownership of oil and gas leases within a 660 ft. radius.

Respectfully,

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

Norman C. Stout
Administrative Assistant

NCS/as

SUPERIOR OIL

April 26, 1983

State of Utah Natural Resources
and Energy Oil, Gas and Mining
4241 State Office Building
Salt Lake City, Utah 84111
Attention: Norman C. Stout

RE: Lone Mountain Canyon #36-23
Section 36, T41S-R24E
San Juan County, Utah U-2033

Dear Mr. Stout:

The Superior Oil Company proposes to drill the Lone Mountain Canyon #36-23 at a location 1473' FSL - 1741' FWL, Section 36, T41S-R24E, San Juan County, Utah. This location is closer than 500' to the quarter/quarter section line and therefore will not meet the location guidelines set by the State of Utah.

An exception location is being requested so that this well can be drilled on an existing seismic shot point. Deviation from the known data on the seismic line increases the risk in drilling this well. The ownership of all oil and gas leases within a radius of 660' of this location is the same with Superior owning a 60% working interest and Raymond T. Duncan a 40% working interest. Under separate letter, Raymond T. Duncan will give their consent to this exception location.

The Application for Permit to Drill for this well was sent to you from W. H. Edwards of our Cortez, Colorado office. We will appreciate your cooperation in granting the exception location. Please do not hesitate to contact W. H. Edwards (303-565-3733) or me at 303-863-2700 if you have any questions regarding this matter.

Respectfully,

THE SUPERIOR OIL COMPANY


R. A. Rosper
Landman
RAR:dm

cc: W. H. Edwards
W. E. Pritchard
Jeanette Bauman
Dan Shewmake
Bruce Johnston - Duncan

RECEIVED
MAY 03 1983

**DIVISION OF
OIL, GAS & MINING**

May 3, 1983

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

RE: Well No. Lone Mountain Canyon 36-23
NESW Sec. 36, T.41S, R.24E
1473 FSL, 1741 FWL
San Juan County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil well on said unorthodox location is hereby granted in accordance with Rule C-3(c), 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:

RONALD J. FIRTH - Chief Petroleum Engineer
Office: 533-5771
Home: 571-6068

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 43-037-30895.

Sincerely,

Norman C. Stout
Administration Assistant

NCS/as
cc: Oil & Gas Operations (New Mexico)
Bureau of Indian Affairs
Enclosure

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 81321

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 At proposed prod. zone Same

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 4 miles southwest of Aneth, Utah

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18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 1400'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 4644.3' Ungraded Ground Level

23. PROPOSED DRILLING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
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12-1/4"	8-5/8"	24#	1800'	1300 sx
7-7/8"	5-1/2"	15.5#	5840'	250 sx

1. Drill 18" hole to 100'. Set 100' of new 13-3/8" 54.5#/ft H-40 ST&C casing. Cement to surface with Redi-mix.
2. Drill 12-1/4" hole to 1800' and set 1800' of new 8-5/8" 24#/ft K-55 ST&C casing. Cement to surface with 1300 sx Class 'B' cement. NU BOP.
3. Drill 7-7/8" hole to 5840', run DIL-GR, FDC-CNL, BHC Sonic from 5840'-1800'.
4. Run 5840' of 5-1/2", 15.5# K-55 ST&C casing and cement w/ 250 sx Class 'B' cement.
5. To be completed in the Ismay and/or Desert Creek based on log evaluation.

RECEIVED
APR 11 1983

U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

5. LEASE DESIGNATION AND SERIAL NO.
N00-C-14-20-5117

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NAVAJO

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
LONE MOUNTAIN CANYON

9. WELL NO.
#36-23

10. FIELD AND POOL, OR WILDCAT
WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SEC 36, T41S, R24E

12. COUNTY OR PARISH
SAN JUAN

13. STATE
UTAH

22. APPROX. DATE WORK WILL START*
 May 16, 1983
 This action is subject to administrative appeal pursuant to 30 CFR 290.

RECEIVED
MAY 17 1983

DIVISION OF
OIL, GAS & MINING

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

24. SIGNED Wm. H. Edwards TITLE Special Projects Superintendent DATE April 7, 83

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED AS AMENDED
DATE
MAY 23 1983
JAMES F. SIMS
DISTRICT ENGINEER

Utah OCC

SUPERIOR OIL

April 5, 1983

Mr. James F. Sims
District Supervisor
U. S. Department of Interior
Bureau of Land Management
P. O. Box 600
Farmington, New Mexico 87499

Re: Surface Use Development Plan
Proposed Well
Lone Mountain Canyon #36-23
1473' FSL, 1741' FWL
Section 36, T41S, R24E, SLM
San Juan County, Utah

Dear Sir:

We submit the following application and plats for permission to drill the referenced well.

1. The existing roads are shown on the attached drill site and facilities plats. Directions to the location from Montezuma Creek, Utah are as follows:
from the San Juan River Bridge at Montezuma Creek go south on blacktop 0.4 miles to the Red Mesa Highway. Go southeasterly 1.2 miles on the Red Mesa Highway to a gravel road on the left. Proceed southeasterly on gravel road parallel to the river for 6.3 miles to a wash. Cross the wash, go south parallel to the wash 3 miles. Go northwest 0.5 miles to Superior's well Lone Mountain Canyon #36-34. Go northeast 0.3 miles on road along pipeline right of way to location. The existing roads are being maintained as access to an existing producing well. (refer to Plat #1).
2. Planned access road will be from Superior's well LMC #36-34 in a north-easterly direction 0.3 miles along pipeline right of way. An existing wash will be crossed 50' northeast of the #36-34 location. A low water crossing will be used. Ditching and waterbars will be constructed as directed by the Bureau of Indian Affairs to control erosion. Maximum grade will not exceed 7%. The width of the road will not exceed the pipeline right of way limits. (refer to Plat #1).

3. Location of existing wells within one mile:

- a. Water wells - none.
- b. Abandoned wells - six.
- c. Temporarily abandoned wells - one.
- d. Disposal wells - none.
- e. Drilling wells - none.
- f. Producing wells - two.
- g. Shut in wells - none.
- h. Injection wells - none.

(refer to Plat #2).

4. Location of existing and/or proposed producing facilities: there is one set of producing facilities owned or controlled by Superior approximately 1500 ft southwest to the proposed location. There are no other facilities owned or controlled by Superior within a one mile radius of the proposed well. If the proposed well is productive the existing facilities will be used and the flowline will be buried along the road right of way. An earthen dike will be maintained around storage tank.
5. Location and type of water supply will be from Superior's McElmo Creek Unit operations which gets its fresh water from wells near the San Juan River (SW1/4 Sec. 17, T41S, R25E). Water will be trucked to location over existing road and access road to be built.
6. Source of construction materials necessary to build the drilling pad and access road will be obtained from the location and road. If gravel is needed to maintain existing roads and/or access road it will be trucked from an off the reservation privately owned gravel pit 0.25 miles west of Montezuma Creek.
7. Methods for handling waste disposal is to collect it in an earthen pit 6' to 8' deep with steep sides and fenced with small mesh wire and located near the mud pit. The reserved mud pit will be located on the west side of the location. When drilling operations are complete the mud pits will be allowed to dry and then backfilled and leveled to the contour of the original landscape. The reserve pit will be lined with Bentonite. The reserve pit will be fenced on three sides while drilling and on the fourth side as soon as the drilling rig moves out, OSHA approved chemical toilets will be provided and maintained. (refer to Plat #3 & #4).
8. Ancillary facilities. No permanent campsites or air strips will be constructed. Two small portable trailer houses for Superior's and contractors drilling Supervisory personnel will be on the location while drilling the well. (refer to Plat #3).

9. Wellsite layout. The location and position of all drilling equipment is shown on the attached plat. There is also a plat attached showing the cross section diagram of the drill pad including all cuts and fills. Material from the location will be used for pad elevation. (refer to Plats #3, #4, #5 & #6).
10. Plans for restoration of the surface. Upon completion of drilling operations and in case of a dry hole the site and unused portion of the access road will be restored to the contour of the original landscape and seeded in accordance with the BIA requirements.
11. Surface land is owned by the Navajo Tribe and is used primarily for grazing. Vegetation is sparse and consists of Rice Grass, Sandhill Muhly, Morman Tea and Rumex.

There are no Indian habitations or artifacts in the immediate vicinity of the access road, flow line or drill site. The nearest habitate is 2/3 mile northwest of the location.

12. Superior's representatives:

Permitting - Wm. H. Edwards
Construction - J. A. Calhoon
Drilling - J. E. Gagneaux
Production - K. R. Johnson
Mailing address - P. O. Drawer 'G', Cortez, Co. 81321
Telephone (24 hrs) - 303-565-3733.
Dirt contractor - Perry McDonald Construction
P. O. Box 1750, Cortez, Co. 81321
Telephone - 303-565-3656
Drilling contractor - not determined at this time.

13. 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 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.

Respectfully submitted,

SUPERIOR OIL COMPANY

April 8 - '83
Date

Wm. H. Edwards
Wm. H. Edwards
Special Projects Superintendent

WHE/lh

SUPPLEMENT TO FORM 9-331-C

WELL: Lone Mountain Canyon (LMC) #36-23
1473' FSL, 1741' FWL
Section 36, T41S, R24E, SLM
San Juan County, Utah

ELEVATION: 4644.3' Ungraded ground level.

SURFACE FORMATION: Dakota

ESTIMATED FORMATION TOPS:

<u>Formation</u>	<u>Depth</u>
Chinle	1470'
DeChelly	2610'
Hermosa	4520'
Ismay	5370'
Lower Ismay	5490'
Gothic Shale	5530'
Desert Creek	5550'
Chimney Rock Shale	5730'
TD	5840'

WATER BEARING FORMATION: Water is expected to be encountered intermittently from 50' to 1470'.

HYDROCARBON BEARING FORMATION: Oil & gas could be encountered intermittently from 5490' to 5730'.

MUD PROGRAM: Surface to 2800' - Fresh water.
2800' to TD - Lignosulfonate or similar mud system.
Water loss controlled to 15 cc or less and weighted with Barite as necessary.

CASING PROGRAM:

	<u>Depth</u>	<u>Hole Size</u>	<u>O.D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Type</u>
Conductor	0-100'	18"	13-3/8"	54.5#	H-40	ST&C
Surface	0-1800'	12-1/4"	8-5/8"	24#	K-55	ST&C
Production	0-5840'	7-7/8"	5-1/2"	15.5#	K-55	ST&C

All casing will be new.

CEMENT PROGRAM:

Conductor - cement to surface with Redimix.
Surface - cement to surface with 1300 sx Class 'B' cement.
Production - cement with 250 sx Class 'B' cement.

PRESSURE CONTROL EQUIPMENT:

Blowout preventor equipment is shown on the attached plat, it will be a 10" series 600 with blind rams and drill pipe rams hydraulically and manually controlled. The blind rams will be tested daily. The mud system will be monitored by visual inspection. (refer to Plat #7).

LOGGING PROGRAM: DIL-GR, FDC-CNL, BHC Sonic.

HIGH PRESSURE and/or H2S GAS:

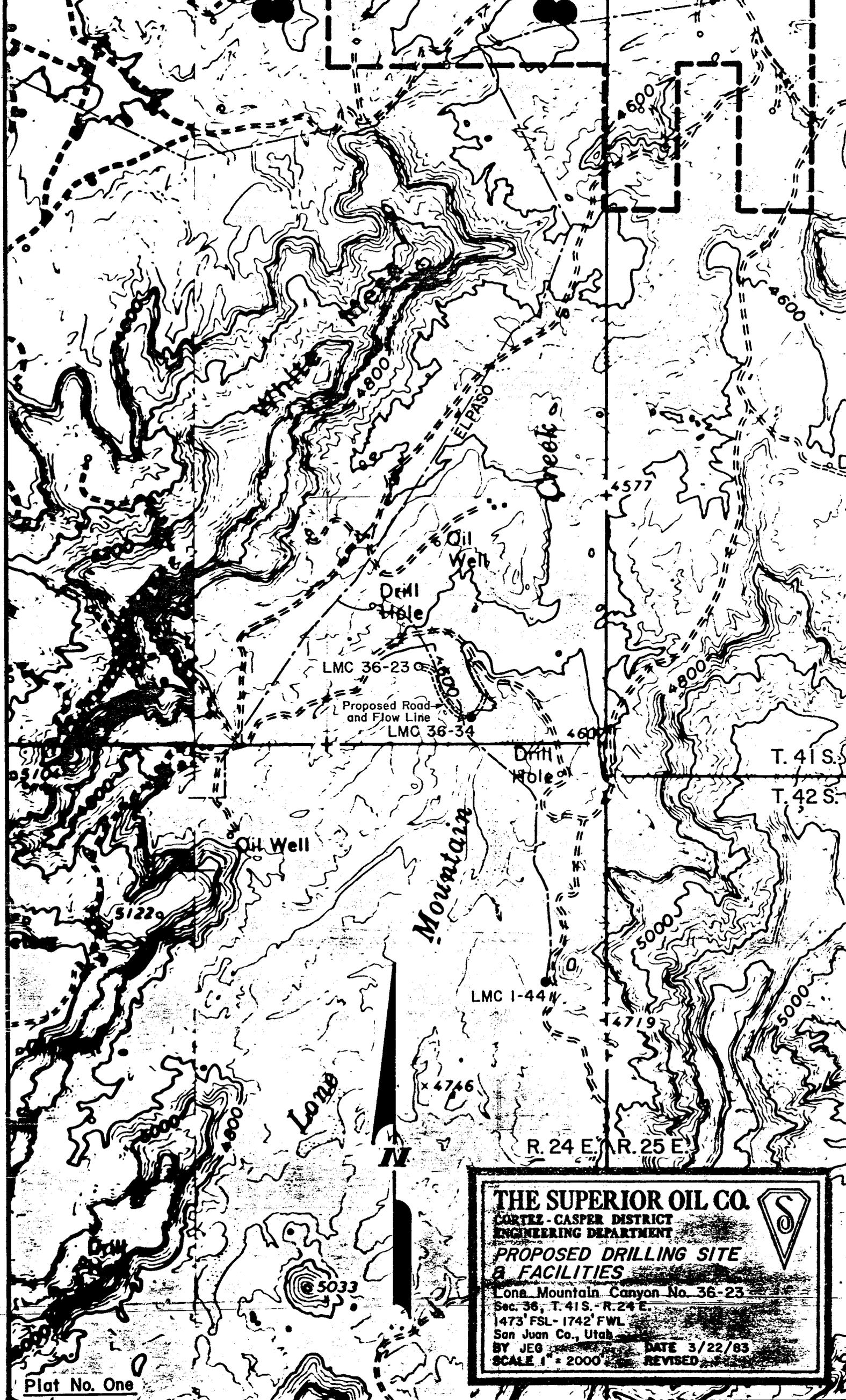
High pressure gas or gas containing detectable amounts of H2S are not anticipated while drilling this well.

DRILL STEM TESTS:

- 1) Ismay
- 2) Desert Creek

CORING: None.

ANTICIPATED STARTING DATE: May 16, 1983



THE SUPERIOR OIL CO. 

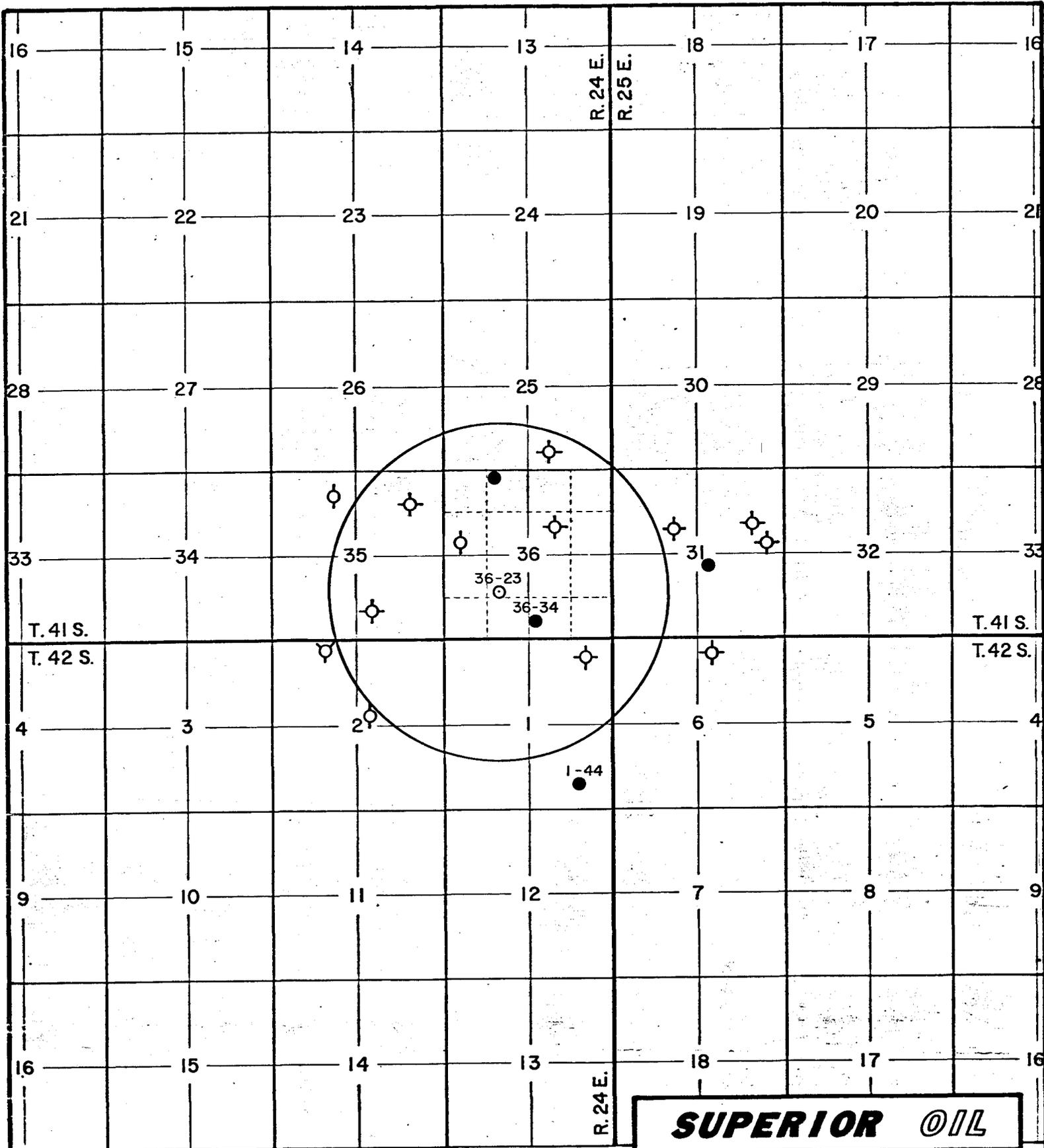
CORTEZ - CASPER DISTRICT
ENGINEERING DEPARTMENT

**PROPOSED DRILLING SITE
& FACILITIES**

Long Mountain Canyon No. 36-23
Sec. 36, T. 41 S., R. 24 E.
1473' FSL - 1742' FWL
San Juan Co., Utah

BY JEG DATE 3/22/83
SCALE 1" = 2000' REVISED

Plat No. One



- Proposed Well
- Producing Well
- ⊗ Gas Well
- ⊖ Water Disposal Well
- Temporarily Abandoned
- ⊕ Plugged and Abandoned

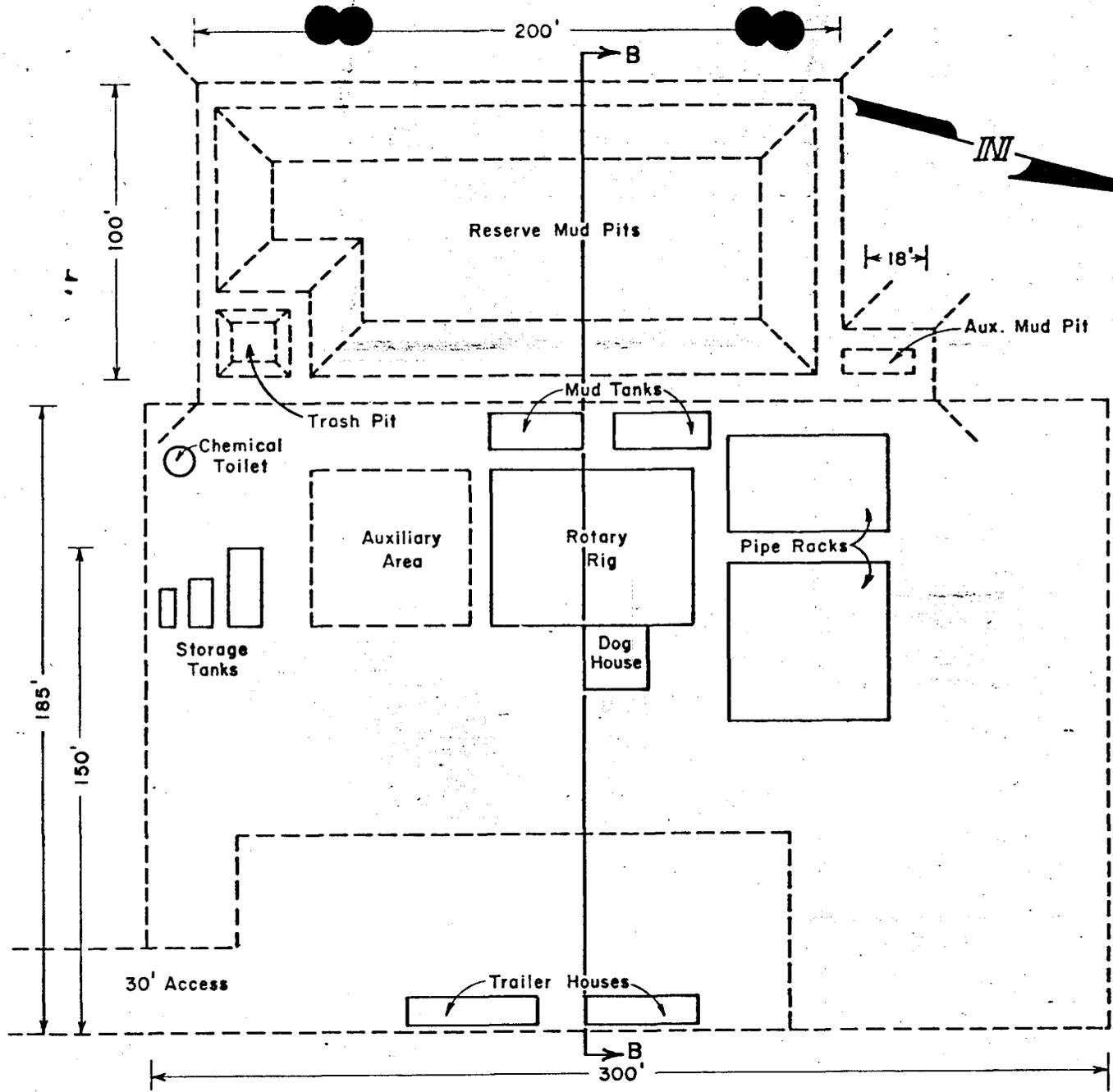
SUPERIOR OIL

EXISTING WELLS
SURROUNDING
PROPOSED WELL



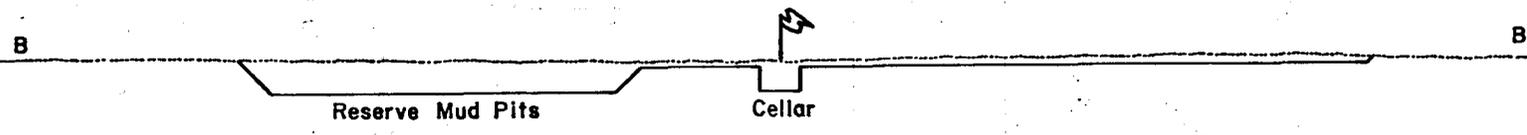
By: JEG

Date: 3/24/83



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

PROPOSED WELL SITE
 L.M.C. 36-23
 Original Elev. 4644.3'



Original Contour 
 Reference Point 
 Graded Proposal 

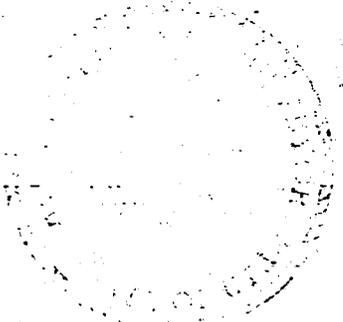
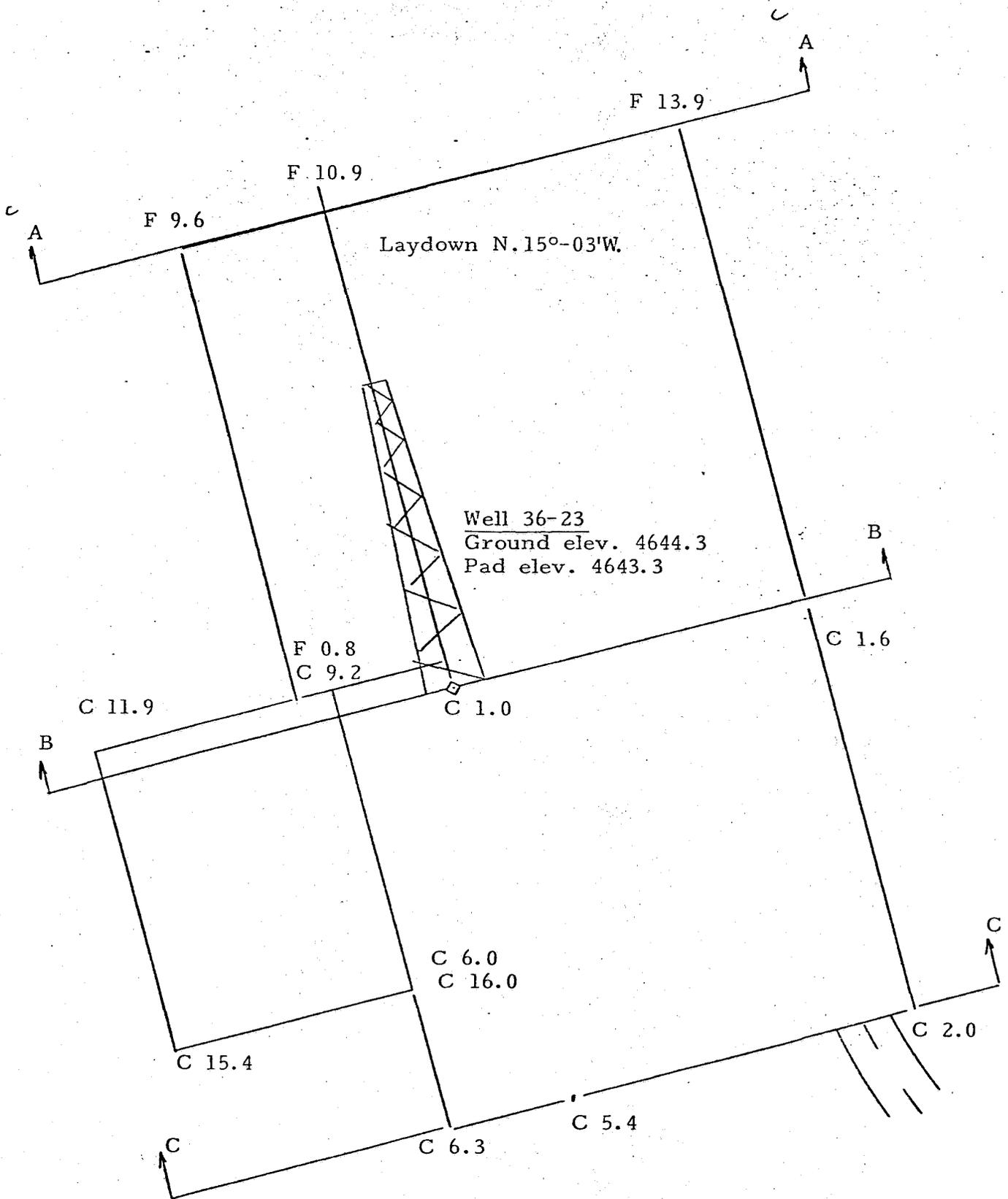
THE SUPERIOR OIL CO.
 CORTEZ-CASPER DISTRICT
 ENGINEERING DEPARTMENT

**RIG LAYOUT & DRILL
 PAD CROSS SECTION**

LONE MOUNTAIN CANYON 36-23
 Sec. 36, T. 41 S. - R. 24 E.
 San Juan Co., Utah

BY JEG DATE 3/22/83
 SCALE 1" = 80' REVISED

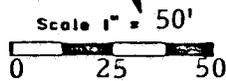


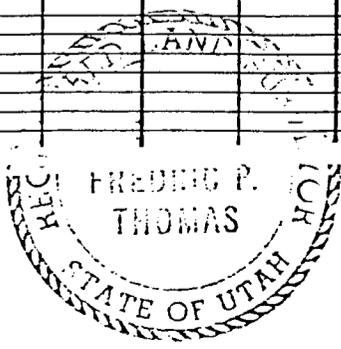
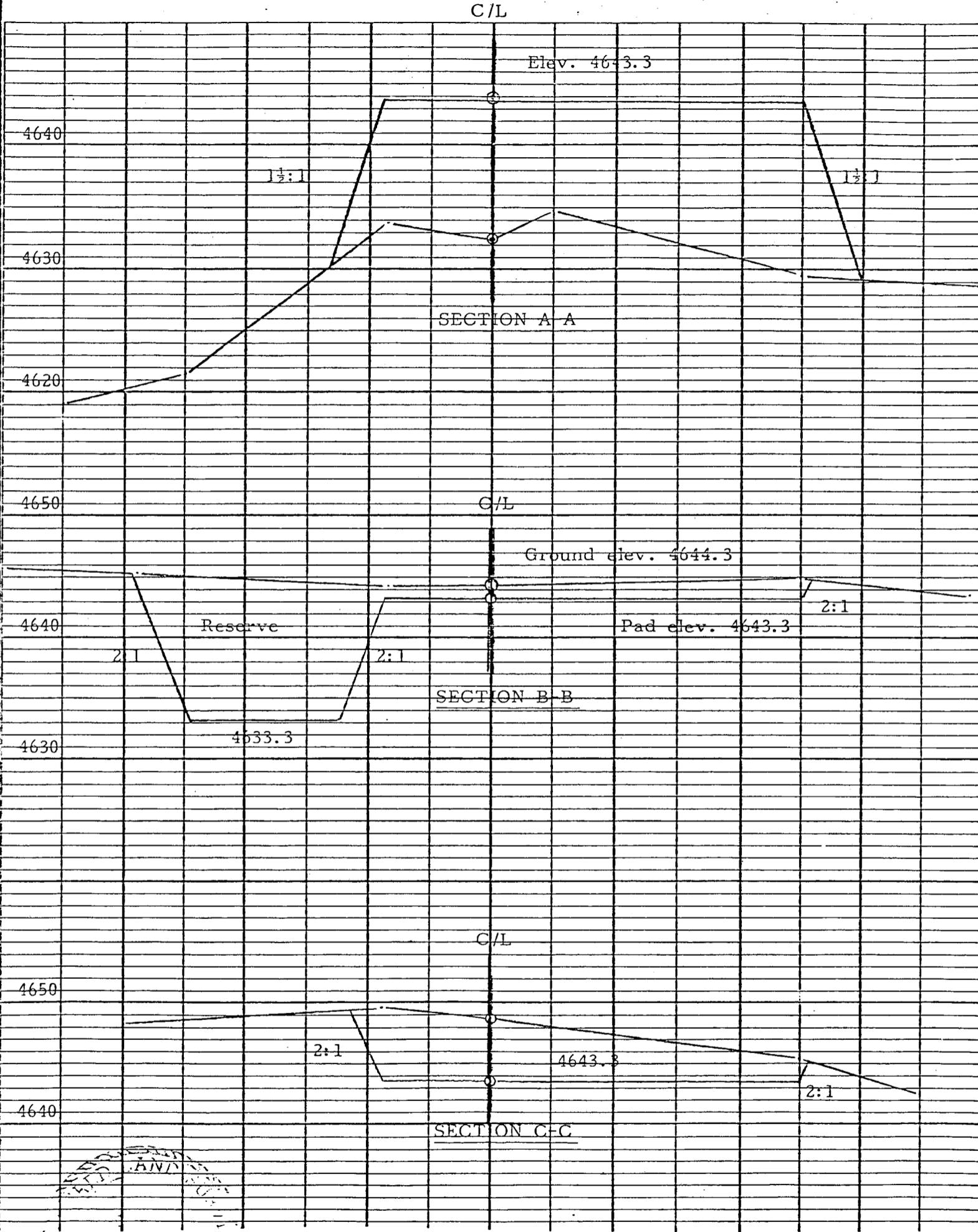


THOMAS Engineering Inc.

215 N. Linden
Cortez, Colorado
565-4496

FREDRIC P THOMAS
Reg. L.S. and P.E.
Colo. Reg. No. 6728
Utah Reg. No. 4346





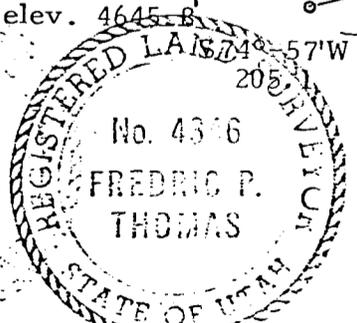
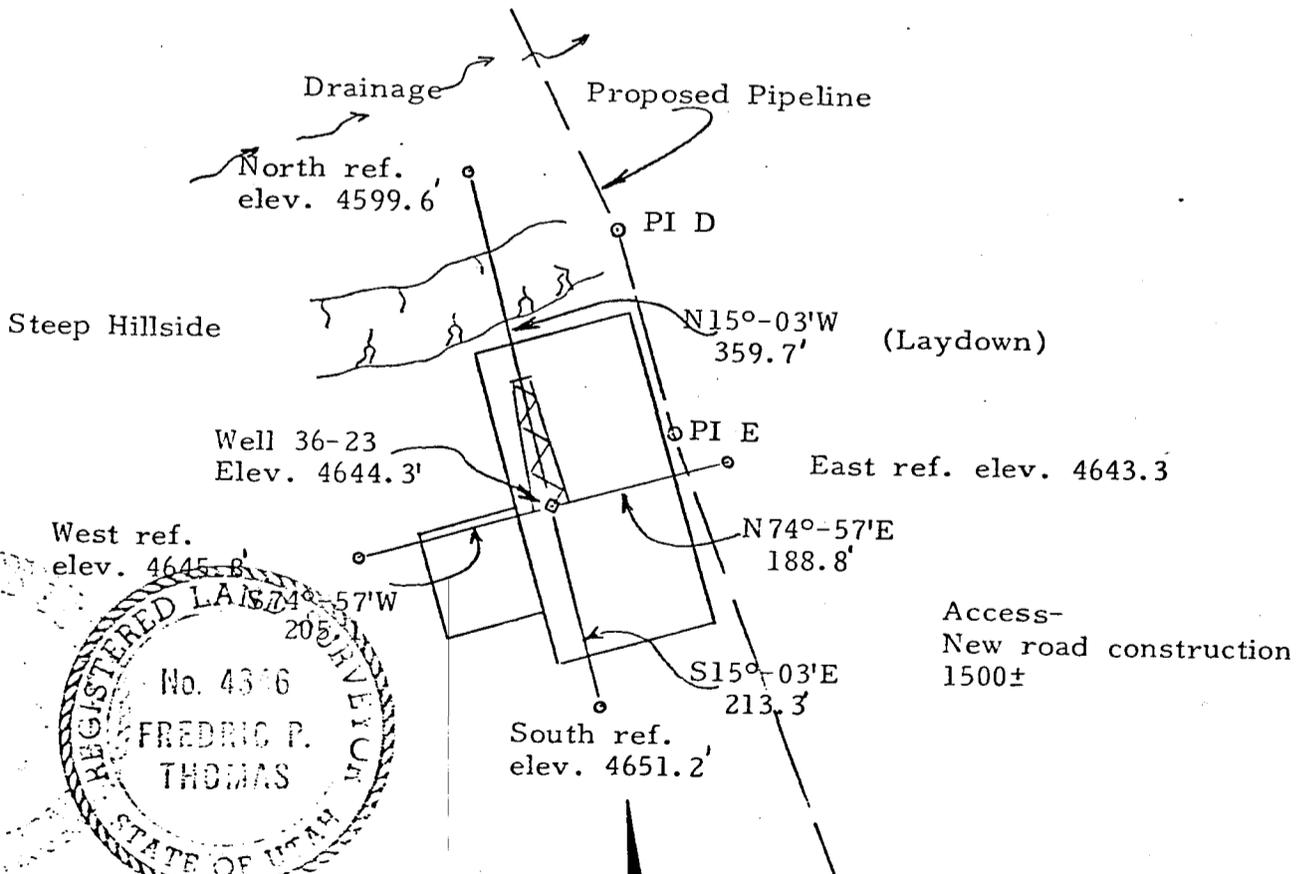
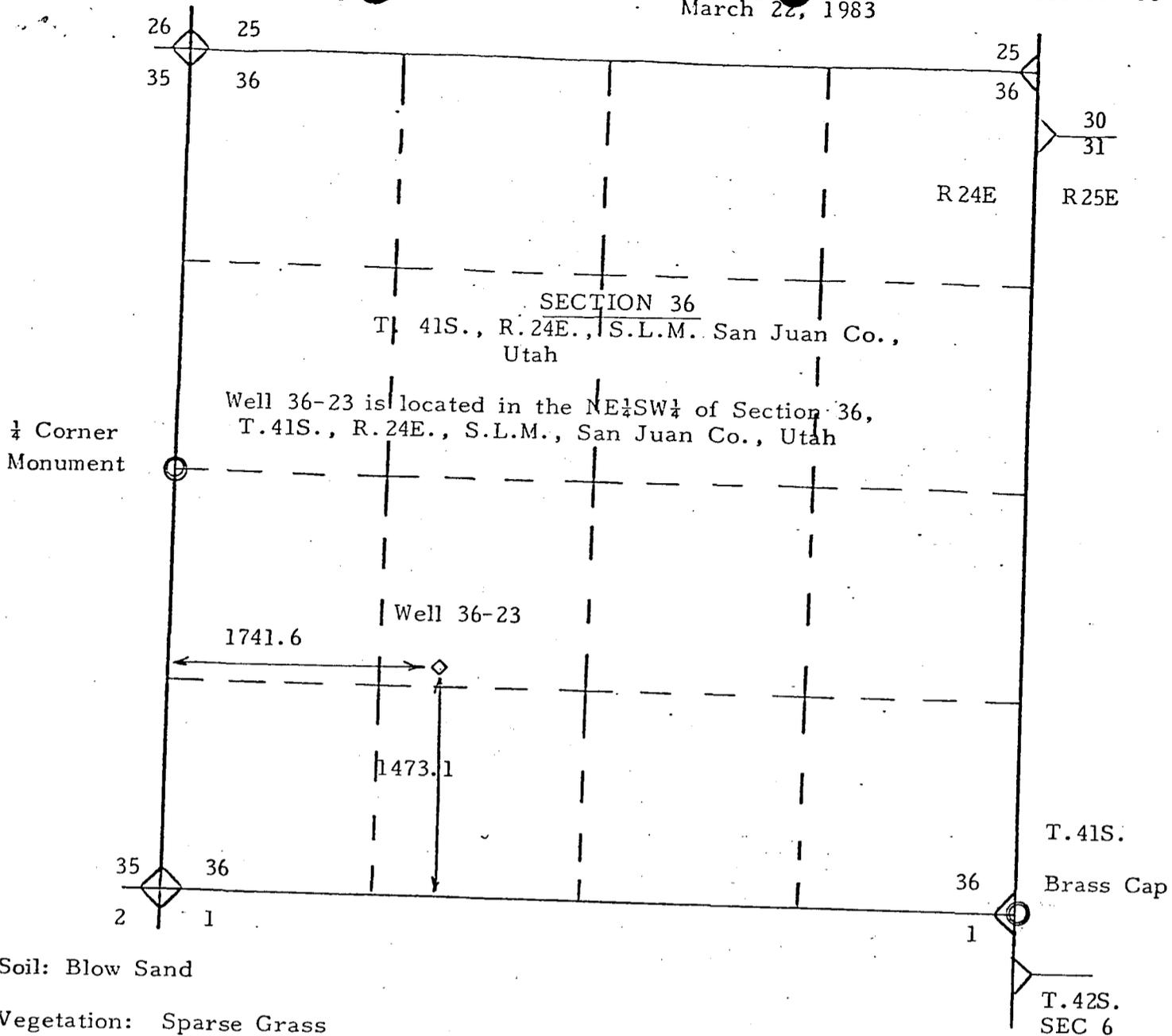
THOMAS Engineering Inc.

215 N. Linden
Cortez, Colorado
565-4496

Horizontal Scale
1"=50'

Vertical Scale
1"=10'

FREDRIC P THOMAS
Reg. L.S. and P.E.
Colo. Reg. No. 6728
Utah Reg. No. 4346



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.

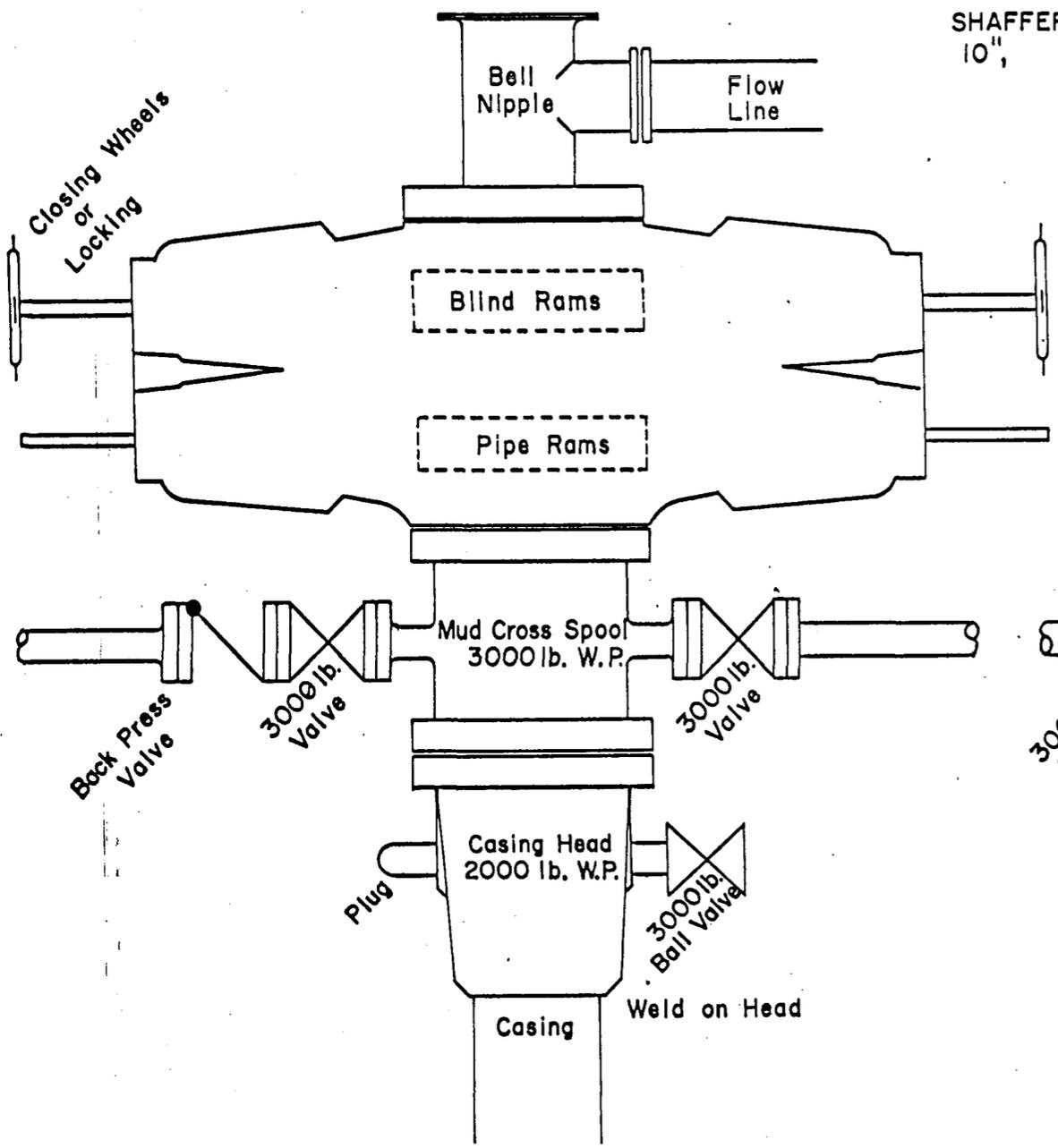
Fredric P. Thomas

FREDRIC P THOMAS Bearing by
 Reg. L.S. and P.E. Solar
 Colo. Reg. No. 6728 observation
 Utah Reg. No. 4346

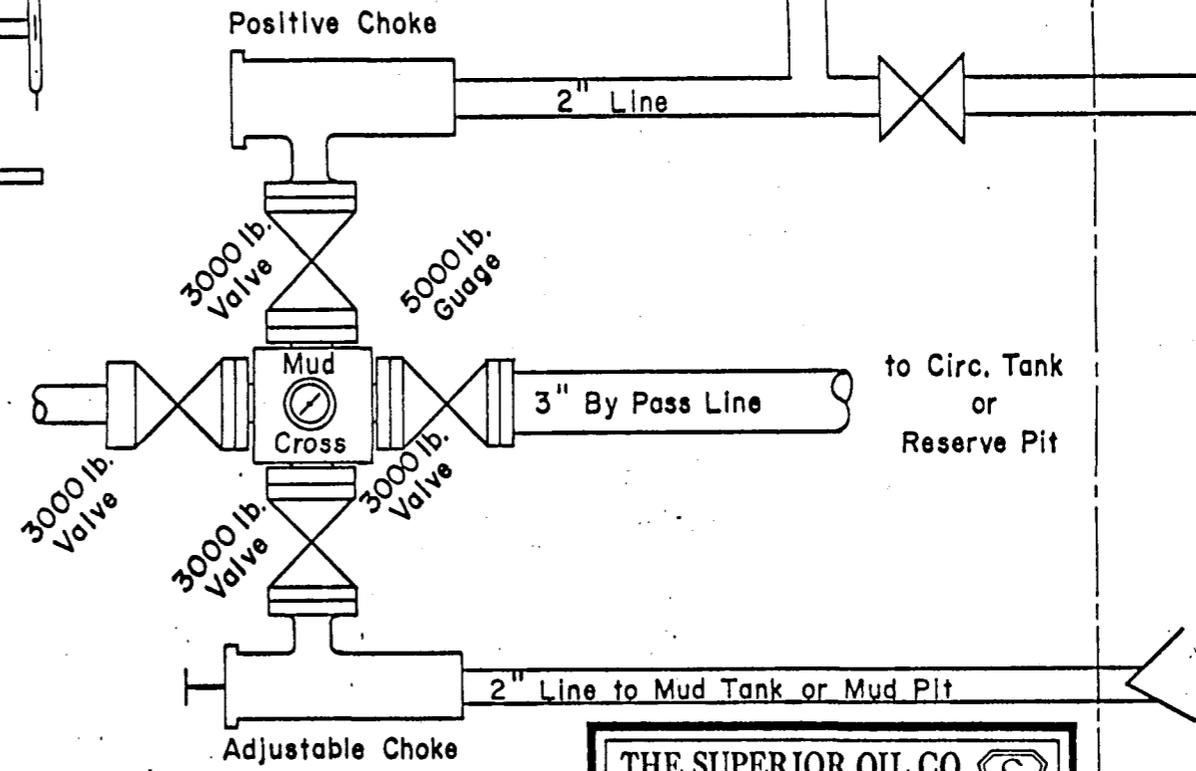
THOMAS Engineering Inc.
 215 N. Linden
 Cortez, Colorado
 565-4496



Horizontal Scale
 1"=200'



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



Circulating Tank

Reserve Mud Pit

THE SUPERIOR OIL CO. 
 CORTEZ-CASPER DISTRICT
 ENGINEERING DEPARTMENT
 SCHEMATIC DIAGRAM
 OF PRESSURE CONTROL
 EQUIPMENT
 BY JEG SCALE NONE DATE 6/25/79
 REVISD

Andy
Conic
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



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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

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

January 4, 1984

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

Re: Well No. Lone. Mtn. Cyn #36-23
API #43-037-30895
1473' FSL, 1741' FWL NE/SW
SEc. 36, T. 41S, R. 24E.
San Juan County, Utah

Gentlemen:

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

If spudding has not occurred within one year of the date of approval for this well, approval to drill is rescinded.

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 second notice from our agency.

Your prompt attention to the above will be greatly appreciated.

Respectfully,

Claudia Jones
Well Records Specialist

CJ/cj

RECEIVED

SUPERIOR OIL

SEP 19 1984

DIVISION OF OIL
GAS & MINING

September 15, 1984

State of Utah
Division of Oil, Gas & Mining
4241 State Office Bldg.
Salt Lake City, Utah 84114

Re: Lone Mountain Canyon #36-23
Section 36, T41S, R24E SLM
San Juan County, Utah

Attention: Arlene Sollis

This is to advise you that Superior Oil wishes to Rescind our application to
drill the referenced well.

Respectfully requested,

SUPERIOR OIL COMPANY



Wm. H. Edwards
Special Projects Superintendent

WHE/th



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

October 2, 1984

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

Attention: Wm. H. Edwards

Gentlemen:

Re: Well No. Lone Mountain Canyon #36-23 - Sec. 36, T. 41S., R. 24E.
San Juan County, Utah - API #43-037-30895

In reply to your letter of September 15, 1984, approval to drill the above referred to well is hereby **rescinded** without prejudice.

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

Sincerely


John R. Baza
Petroleum Engineer

clj

cc: Dianne R. Nielson
Ronald J. Firth
File
00000007/1