

May 16, 1983

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

Re: Proposed Lone Mountain Canyon #1-32  
2350' FEL, 2184' FNL,  
Sec. 1, T42S, R24E  
San Juan County, Utah

Dear Mr. Stout:

The attached Application for Permit to Drill for the above referenced well is staked on an unorthodox location in accordance with Rule C-3(c) General Rules and Regulations and Practice and Procedure. An exemption for this location is requested primarily due to topographic considerations (sand wash to east).

We would appreciate your cooperation on this matter.

Sincerely yours,



Jeanette M. Bauman

JMB/dt  
Attachment

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

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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: 2084' FNL, 2350' FEL SWNE Sec. 1  
 At proposed prod. zone: same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 Approximately 13 miles southeast of Montezuma, Utah

10. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
 290'

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
 1621'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 4635.4' GR

23. DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS" PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH
18"	13-3/8"	54.5#	100'
12-1/4"	9-5/8"	47#	1335'
8-5/8"	5-1/2"	17#	5520'

5. LEASE DESIGNATION AND SERIAL NO.  
 N00-C-14-20-5119

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
 NAVAJO

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
 LONE MOUNTAIN CANYON

9. WELL NO.  
 #1-32

10. FIELD AND POOL, OR WILDCAT  
 WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 Sec. 1, T42S, R24E

12. COUNTY OR PARISH  
 San Juan

13. STATE  
 Utah

16. NO. OF ACRES IN LEASE  
 640

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 80

19. PROPOSED DEPTH  
 5520'

20. ROTARY OR CABLE TOOLS  
 Rotary

22. APPROX. DATE WORK WILL START\*  
 June 30, 1983

This action is subject to administrative appeal pursuant to 30 CFR 290.

**RECEIVED**  
 MAY 27 1983  
 U.S. GEOLOGICAL SURVEY  
 WASHINGTON, D. C.

We propose to drill a well to 5520' to test the Desert Creek formation. If productive, we will run casing and complete. If dry, we will plug and abandon as per State of Utah, BLM and BIA requirements.

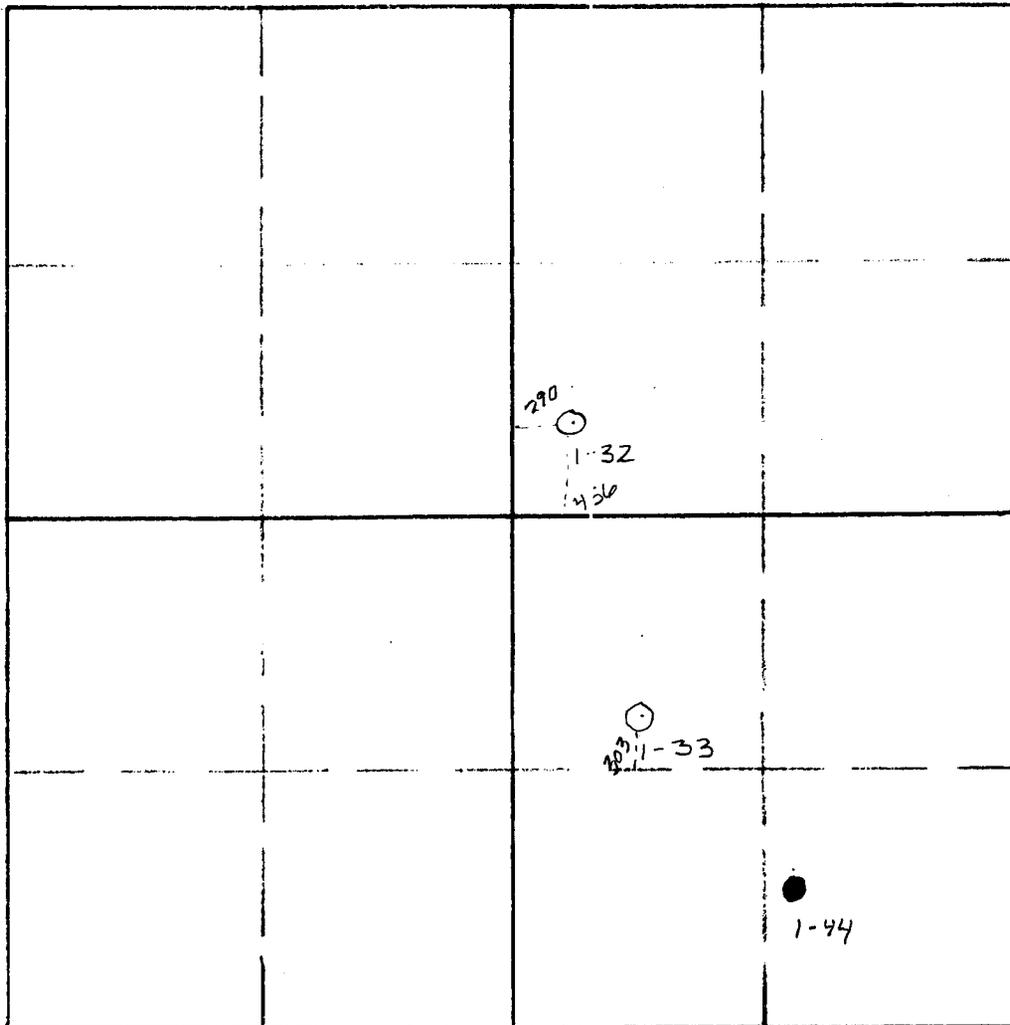
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer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

24. SIGNED J. S. Andres TITLE Petroleum Engineer DATE \_\_\_\_\_  
 (This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

Utah O&G C.

**APPROVED AS AMENDED**  
 DATE  
 JUN 24 1983  
 JAMES F. SIMS  
 DISTRICT ENGINEER



SCALE 1:1000

SECTION 1  
 TOWNSHIP 42S  
 RANGE 24E  
 COUNTY SAN JUAN

6-2-83  
 no other wells in section

Surface Management Stipulations  
To Be Included in APD

Company Superior  
 Well # 1-32  
 Date of Inspection 5-10-83  
 Provided by Randy Cornett

1. All above ground structures and equipment will be painted with the following non-glare color.

<u>    </u> Brown	Fed. Standard	<u>                    </u>	595a - 30318
<u>    </u> Green	Fed. Standard	<u>                    </u>	595a - 34127
<u>    </u> Gray	Fed. Standard	<u>                    </u>	595a - 36357
<u>  X</u> Sand	Fed. Standard	<u>                    </u>	595a - 30277

2. Compacted areas will be plowed or ripped to a depth of 4 to 6 inches before reseeding. Seed will be drilled to a depth of .5 to .75 inch or broadcast and followed by a drag or packer. If broadcast, the recommended seed mix will be applied at 150% of the recommended rate. The following seed mix will be used.

<u>SPECIES</u>	<u>lbs./acre/PLS</u>
Crested Wheatgrass . . . . .	<u>                    </u>
Slender Wheatgrass . . . . .	<u>                    </u>
Smooth Brome . . . . .	<u>                    </u>
Orchardgrass . . . . .	<u>                    </u>
Yellow Sweetclover . . . . .	<u>                    </u> 3 #
Sainfoin . . . . .	<u>                    </u>
Western Wheatgrass . . . . .	<u>                    </u>
Sand Dropseed . . . . .	<u>                    </u> 1 #
Alkali Sacaton . . . . .	<u>                    </u> 1 #
Indian Ricegrass . . . . .	<u>                    </u> 3 #
Galleta . . . . .	<u>                    </u>
Needle-N-Thread . . . . .	<u>                    </u>
Squirrel tail . . . . .	<u>                    </u>
Side Oats Grama . . . . .	<u>                    </u>
Four-Wing Saltbush . . . . .	<u>                    </u>
Shadscale . . . . .	<u>                    </u>
Cliffrose . . . . .	<u>                    </u>
Antelope Bitterbrush . . . . .	<u>                    </u>
Timothy . . . . .	<u>                    </u>
Winter-Fat . . . . .	<u>                    </u>

(Purity X Germination = PLS)

3. N/A Topsoil will be removed and stockpiled for use in revegetating the site.
4. ✓ Upon abandonment, the well pad will be fenced with a standard five-strand barb wire fence, or equivalent and will have no gates. The fence will be maintained for two years to allow for seeding establishment and will then be removed.
5. ✓ Access roads not needed for through traffic will be barricaded and reseeded in accordance with #2. Water bars will be constructed to the following specifications.

<u>% Slope</u>	<u>Slope Distance</u>
Less than 1%	400 feet
1% - 5%	300 feet
5% - 15%	200 feet
15% - 25%	100 feet
Greater than 25%	50 feet

6. ✓ Other Pit will be lined w/impervious material.

SUPPLEMENTAL TO FORM 9-331-C

WELL: Lone Mountain Canyon #1-32

ELEVATION: 4635.4' Ungraded ground level

SURFACE FORMATION: Dakota

ESTIMATED FORMATION TOPS:	<u>FORMATION</u>	<u>DEPTH</u>
	Chinle	1270'
	Dechelly	2310'
	Hermosa	4285'
	Ismay	5115'
	Lower Ismay	5235'
	Gothic Shale	5270'
	Desert Creek	5288'
	Chimney Rock	5468'
	T.D.	5520'

WATER BEARING FORMATION: Water is expected to be encountered intermittently from 50' to 1270'.

HYDROCARBON BEARING FORMATION: Oil and gas could be encountered intermittently from 5115' to 5468'.

MUD PROGRAM: Surface to 2800'- Fresh water.

2800' to T.D. - Lignosulfate or similar mud system. Water loss controlled to 15 cc or less and weighted with Barite as necessary.

CASING PROGRAM:

	Depth	Hole Size	O.D.	Weight	Grade	Type
Conductor	0-100'	18"	13-3/8"	54.5#	H-40	ST&C
Surface	0-1335'	12-1/4"	9-5/8"	47#	P-110	LT&C
Production	0-5520'	8-5/8"	5-1/2"	17#	N-80	ST&C

All casing will be new.



# **SUPERIOR OIL**

May 18, 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 #1-32  
2084' FNL, 2350' FEL  
Section 1, T42S, R24E, SLM  
San Juan County, Utah

Dear Sir:

We submit the following application and plats for permission to drill the referenced well. The attached "Surface Management Stipulations" (BIA) are made a part of this APD.

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 3.2 miles. Go Southwest 0.5 miles on an existing road (to be improved) to the location. The existing roads are being maintained as access to an existing producing well. (refer to Plat #1).
2. Planned access road 20' wide will be from an abandoned drill hole location beside an existing improved road in the NE of NE of Section 1, T42S, R24E in a Southwest direction 0.25 miles on an abandoned existing road to be improved. 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%. (refer to Plat #2).

3. Location of existing wells within one mile:

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

(refer to Plat #3).

4. Location of existing and/or proposed producing facilities: there is one set of producing facilities owned and controlled by Superior approximately 2500 ft southwest of the proposed location and another tank battery 2500 ft north of the proposed location also owned and operated by Superior. 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 to the Southwest will be used and the flowline will be buried along the road right of way and existing approved pipeline right of way. An earthen dike will be maintained around the storage tanks.
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 roads and access road.
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 #4 & #5).
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 #4).

# SUPERIOR OIL

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 #4, #5, #6 & #7).
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 Cheat Grass, Indian Rice Grass, Morman Tea, Yucca, Rabbitbrush and Curley Dock.

There are no Indian habitations or artifacts in the immediate vicinity of the access road, flow line or drill site. The nearest habitate is 1.3 miles north 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 - not determined at this time.

Drilling contractor - not determined at this time.

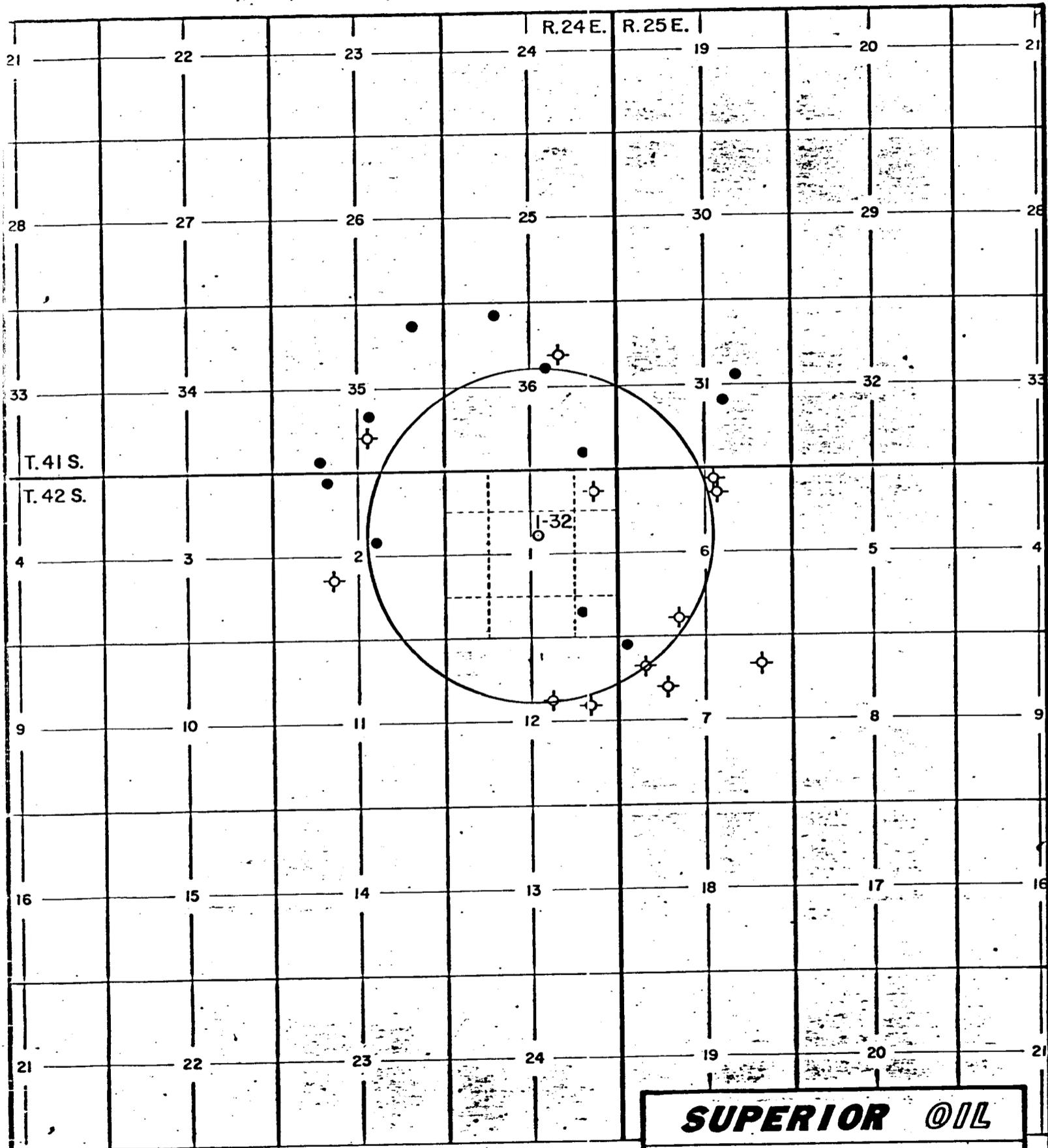
13. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated 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

May 25-83  
Date

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



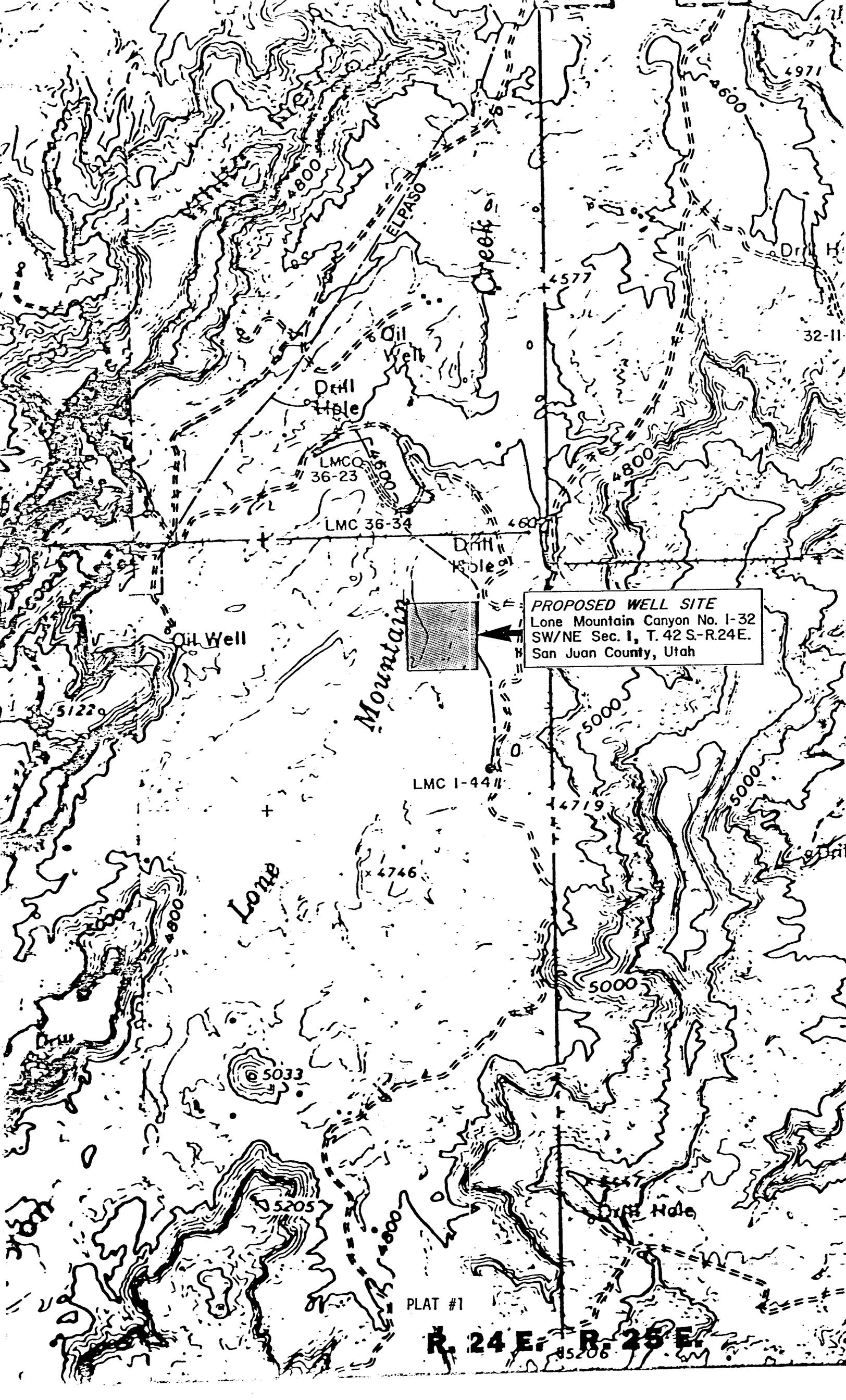
- Proposed Well
- Producing Well
- ★ Gas Well
- ⊕ Water Disposal Well
- ⊙ Temporarily Abandoned
- ⊗ Plugged and Abandoned

PLAT #3

**SUPERIOR OIL**

**EXISTING WELLS  
SURROUNDING  
PROPOSED WELL**

By: JEG      Date: 5-3-83



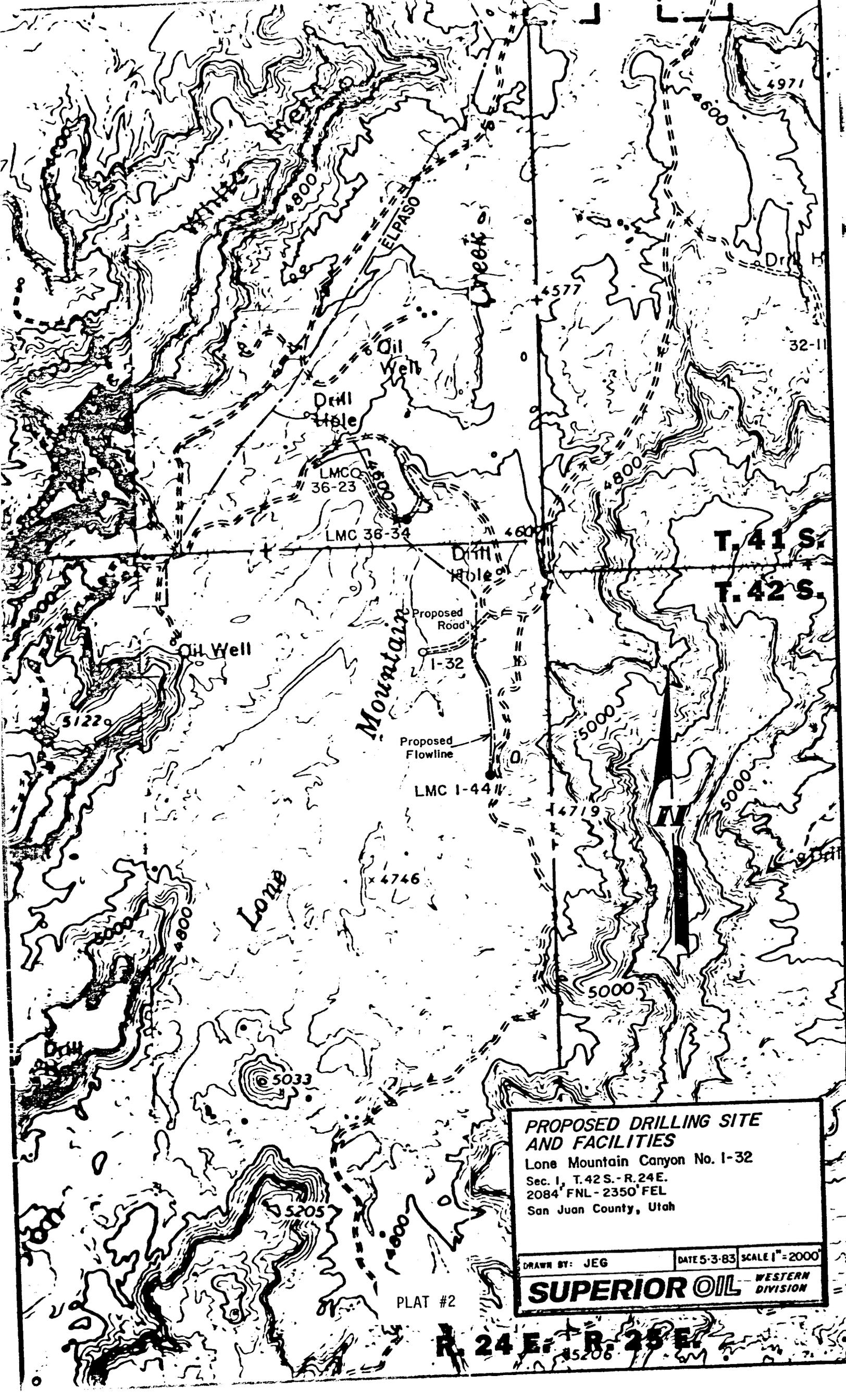
**PROPOSED WELL SITE**  
Lone Mountain Canyon No. 1-32  
SW/NE Sec. 1, T. 42 S.-R.24 E.  
San Juan County, Utah



PLAT #1

R. 24 E. R. 25 E.

45206



T. 41 S.  
T. 42 S.

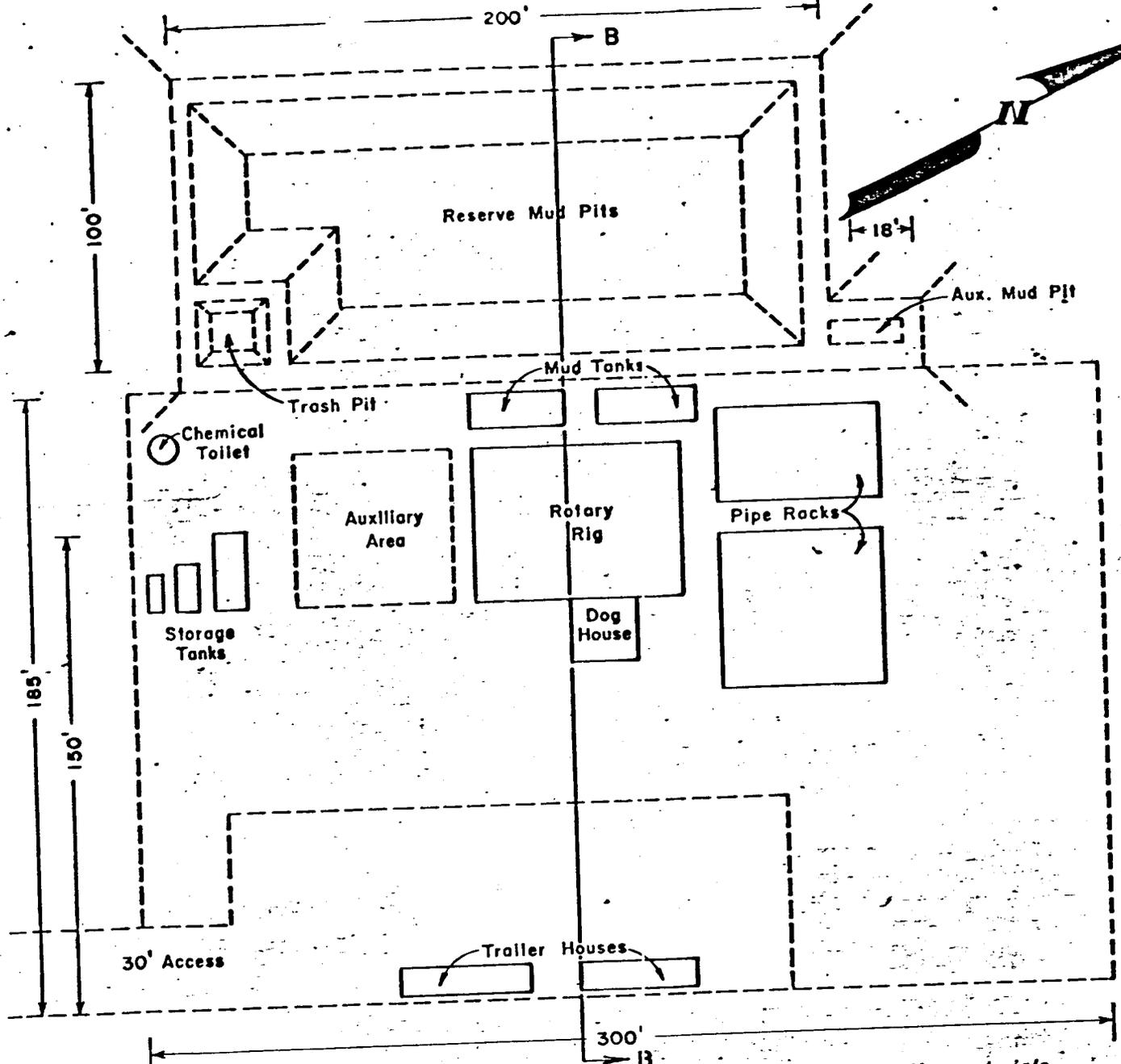
**PROPOSED DRILLING SITE  
AND FACILITIES**  
Lone Mountain Canyon No. 1-32  
Sec. 1, T.42 S. - R.24 E.  
2084' FNL - 2350' FEL  
San Juan County, Utah

DRAWN BY: JEG      DATE 5-3-83      SCALE 1"=2000'

**SUPERIOR OIL** - WESTERN DIVISION

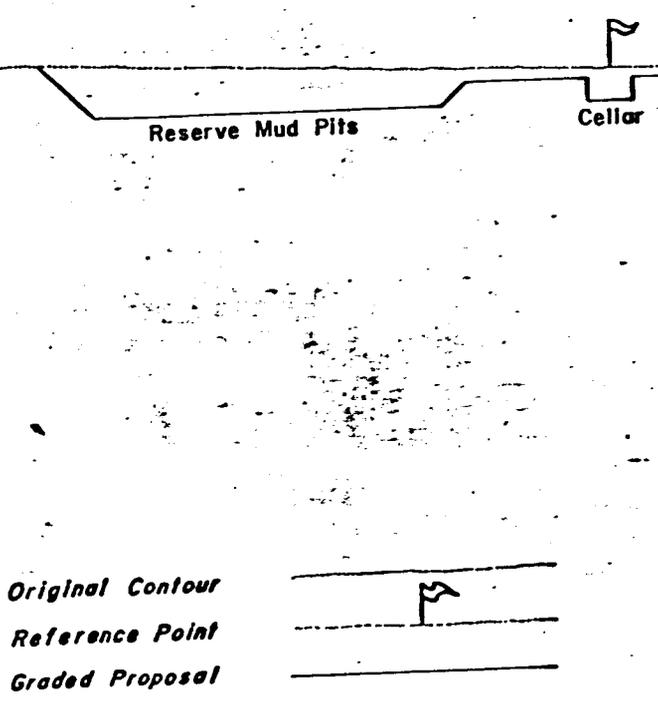
PLAT #2

R. 24 E.      R. 25 E.  
15206



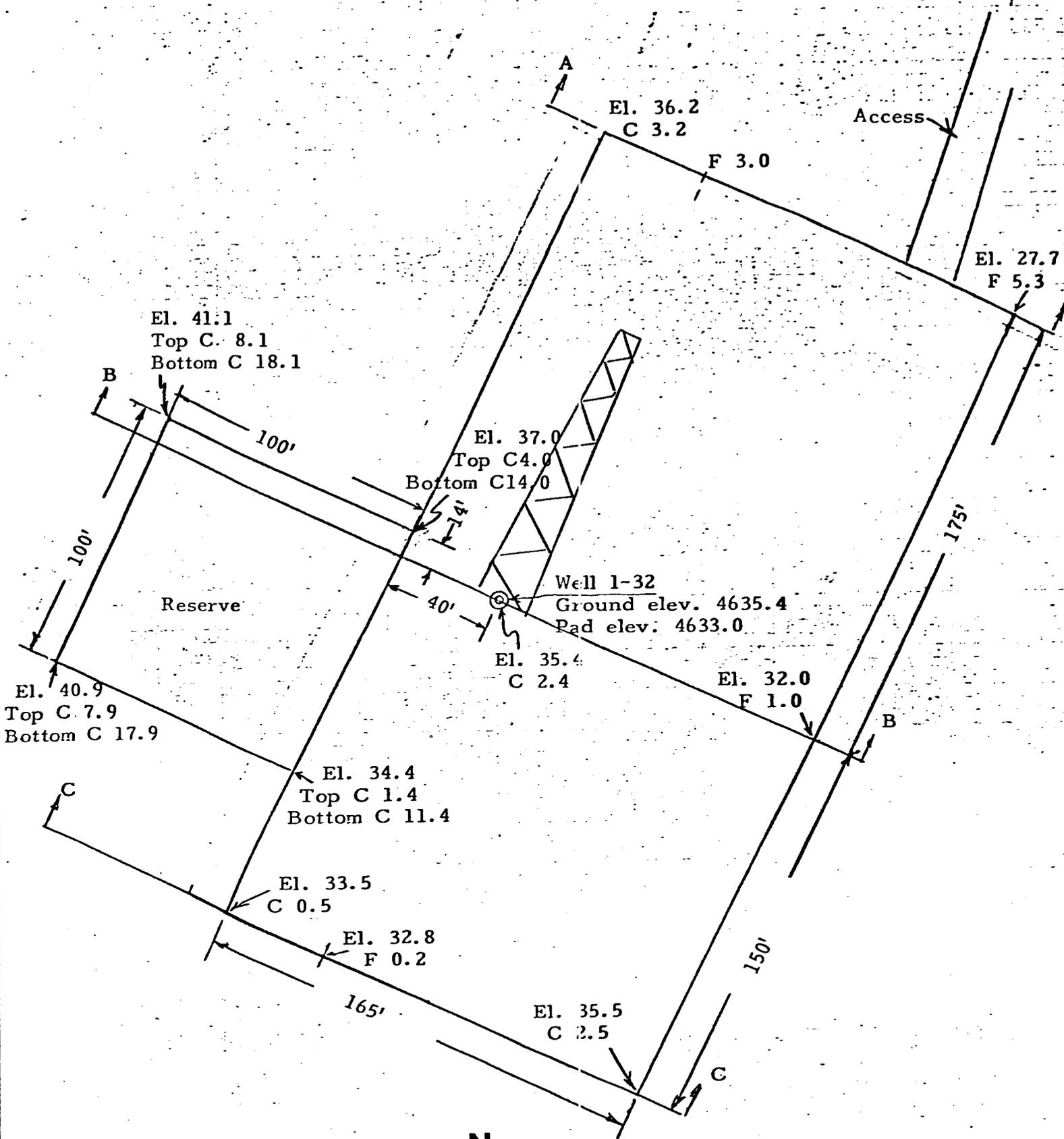
*The Drilling Pad will be graded and compacted, and composed of native materials.*

PROPOSED WELL SITE  
 L.M.C. 1-32  
 Original Elev. 4635.4'



**THE SUPERIOR OIL CO.**  
 CORTEZ - CARPER DISTRICT  
 ENGINEERING DEPARTMENT  
**RIG LAYOUT & DRILL  
 PAD CROSS SECTION**  
 LONE MOUNTAIN CANYON 1-32  
 Sec. 1, T.42S.-R.24E.  
 San Juan County, Utah  
 BY JEB DATE 8/3/83  
 SCALE 1" = 80' REVISED

PLAT #4



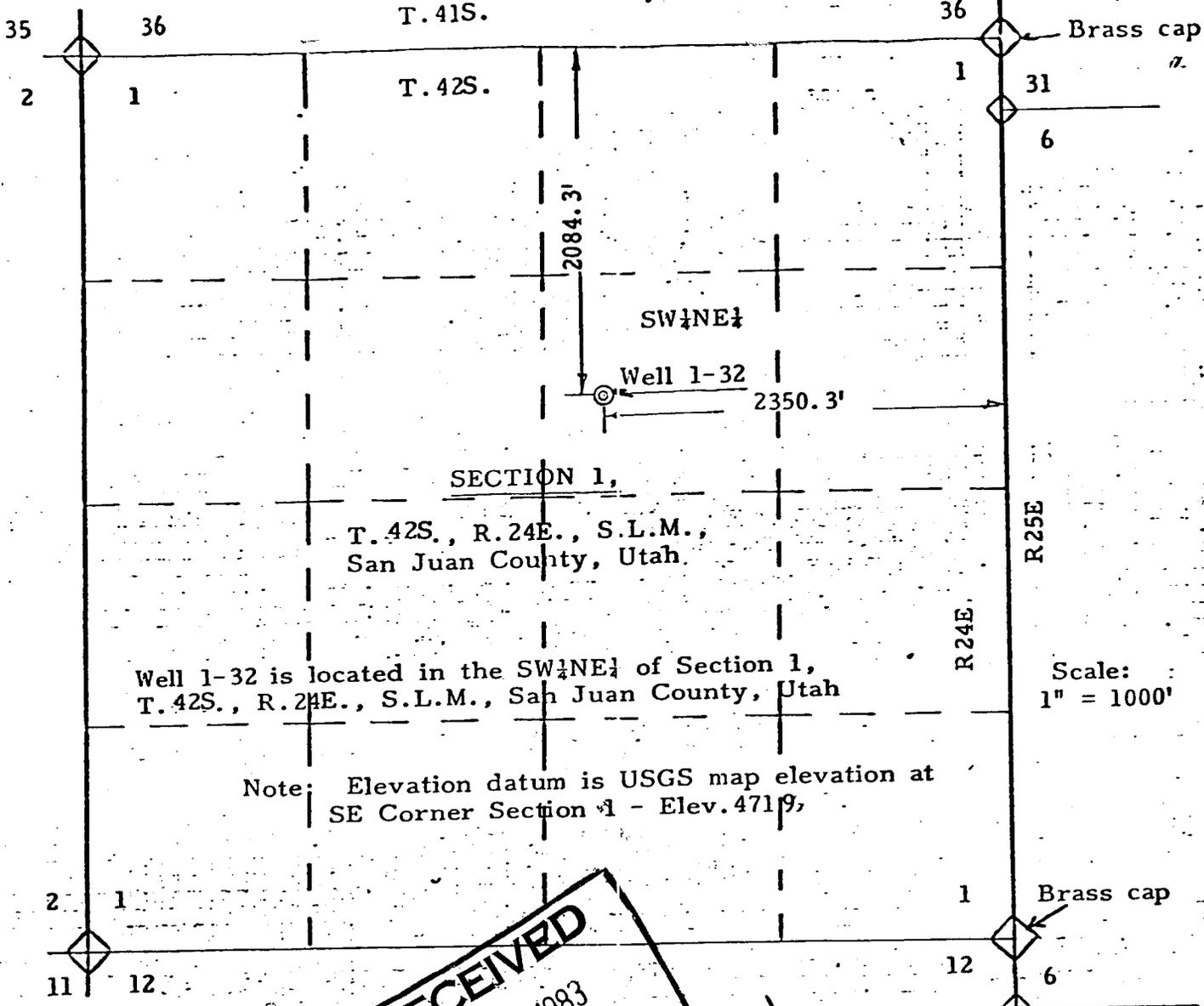
Scale: 1" = 50'

N



**THOMAS** Engineering Inc.

25 N. Linden  
Cortez, Colorado  
565-4496

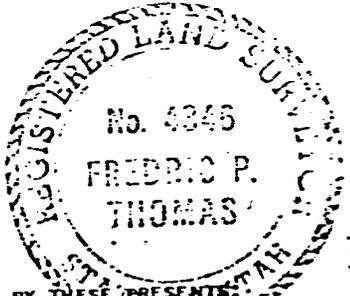
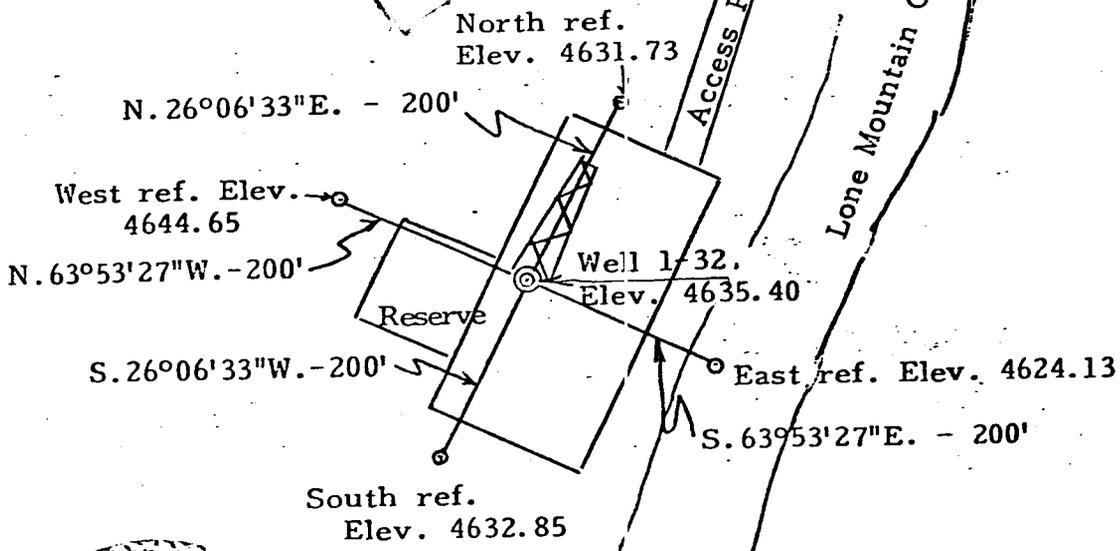
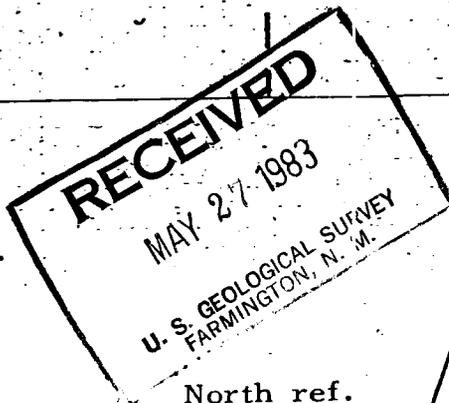


Well 1-32 is located in the SW 1/4 NE 1/4 of Section 1,  
T. 42S., R. 24E., S.L.M., San Juan County, Utah

Scale:  
1" = 1000'

Note: Elevation datum is USGS map elevation at  
SE Corner Section 1 - Elev. 4719,

Soil: Sand.  
Vegetation: Sparse brush.



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

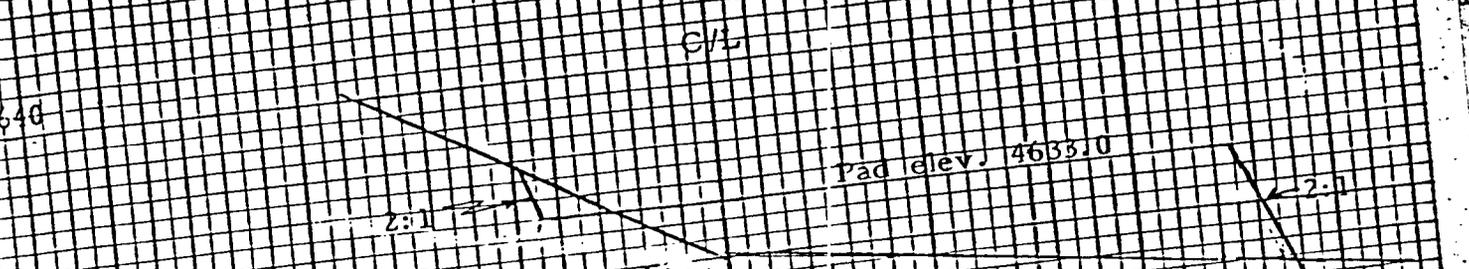
Bearing by  
Solar  
observation

Utah reg. no. 4346

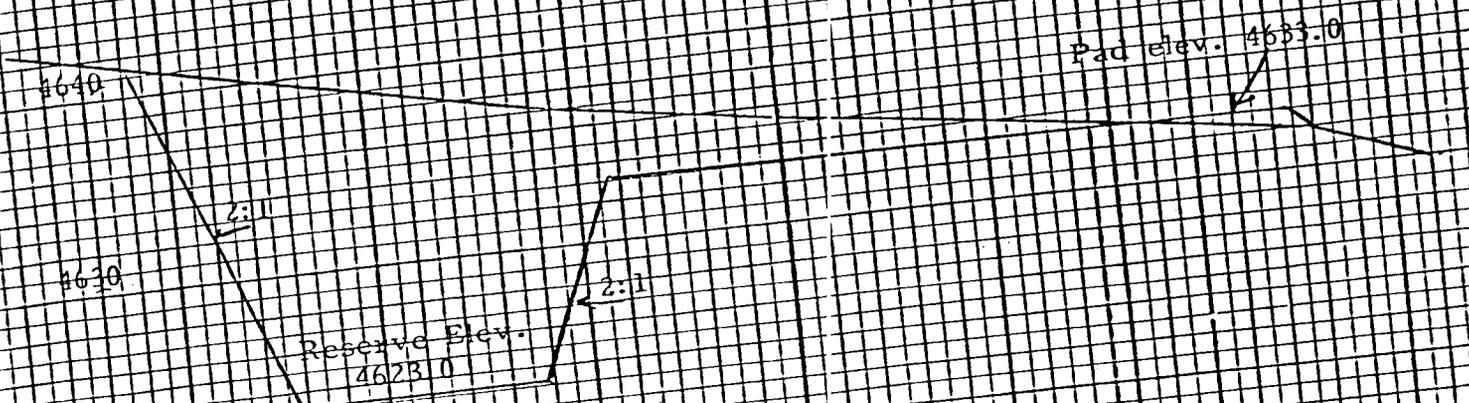
Scale: 1" = 200'

**THOMAS** Engineering Inc.

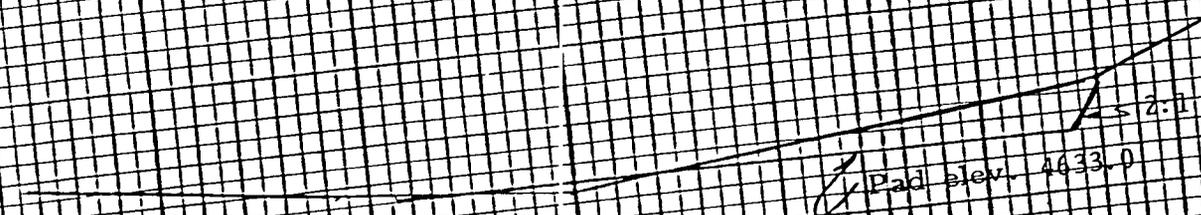
215 N. Linden  
Cortez, Colorado  
565-4496



SECTION A-A



SECTION B-B



SECTION C-C

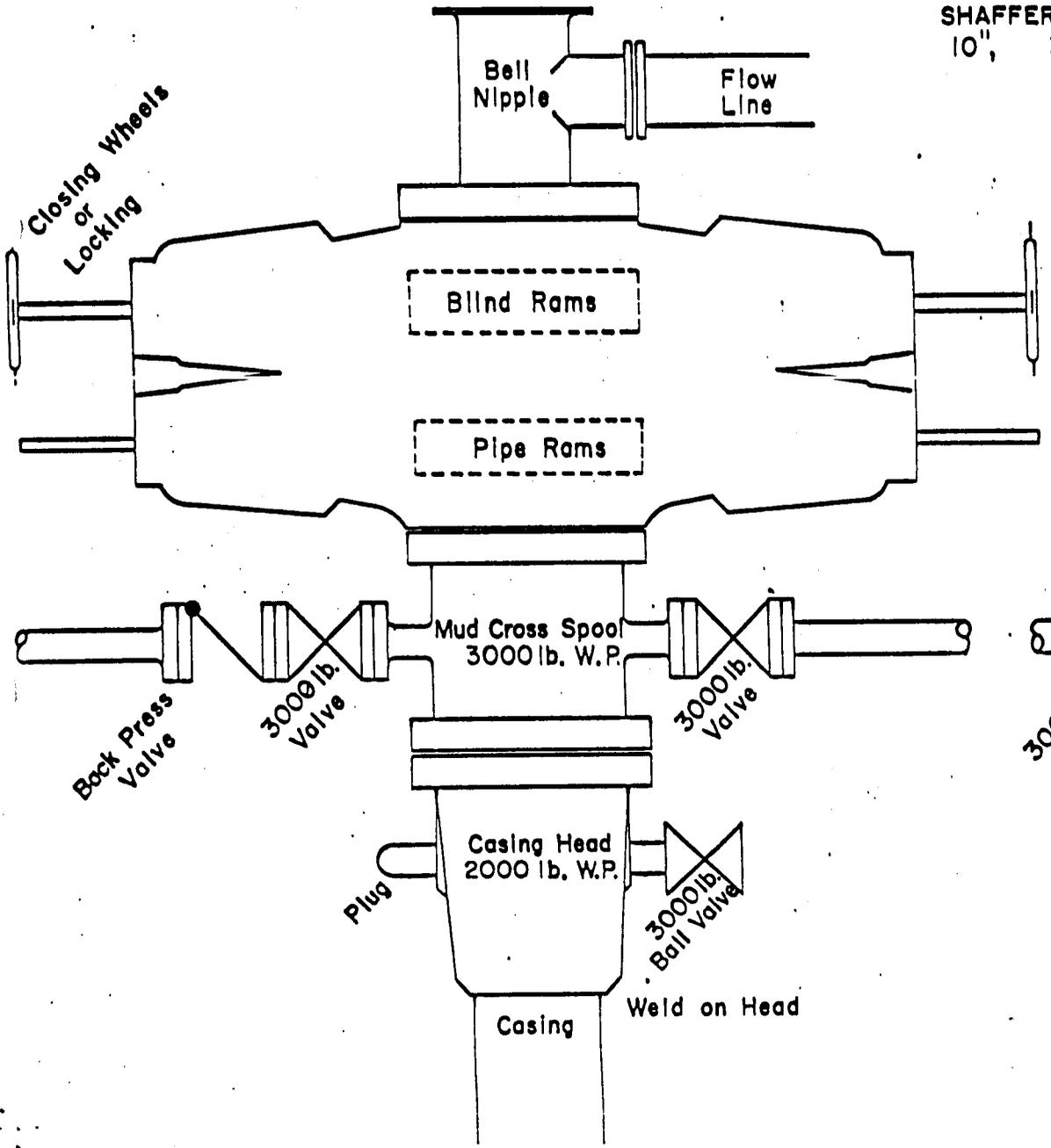
Horizontal scale: 1" = 30'

Vertical scale: 1" = 10'

**THOMAS** Engineering Inc.  
 25 N. Linden  
 Cortez, Colorado  
 365-44

Circulating Tank

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



Closing Wheels  
or  
Locking

Bell Nipple

Flow Line

Blind Rams

Pipe Rams

Mud Cross Spool  
3000 lb. W.P.

Back Press Valve

3000 lb. Valve

3000 lb. Valve

Casing Head  
2000 lb. W.P.

Plug

3000 lb. Ball Valve

Casing

Weld on Head

Positive Choke

2" Line

3000 lb. Valve

5000 lb. Gauge

Mud Cross

3" By Pass Line

to Circ. Tank  
or  
Reserve Pit

Reserve  
Mud Pit

3000 lb. Valve

3000 lb. Valve

Adjustable Choke

2" Line to Mud Tank or Mud Pit

THE SUPERIOR OIL CO.   
CORTEZ-CASPER DISTRICT  
ENGINEERING DEPARTMENT

**SCHEMATIC DIAGRAM  
OF PRESSURE CONTROL  
EQUIPMENT**

BY JEG      DATE 8/26/70  
SCALE NONE      REVISED

**SUPERIOR OIL**

*up order on unit*

May 23, 1983

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

RE: Lone Mountain Canyon #1-32 (UT-2032)  
Lone Mountain Canyon #1-33 (UT-2032)  
Section 1, T42S-R24E  
San Juan County, Utah

Dear Mr. Stout:

The Superior Oil Company proposes to drill the following wells at the indicated locations:

Lone Mountain Canyon #1-32 -- 2350' FEL - 2184' FNL  
SW $\frac{1}{4}$ NE $\frac{1}{4}$  Section 1, T42S-R24E

Lone Mountain Canyon #1-33 -- 1623' FSL - 1959' FEL  
NW $\frac{1}{4}$ SE $\frac{1}{4}$  Section 1, T42S-R24E

Both of these locations are closer than 500' to the quarter-quarter section line and therefore will not meet the locatior guidelines set by the State of Utah.

An exception location is being requested so these wells can be drilled on seismic shot points. Deviation from the known data on the seismic line increases our risk in drilling these wells. The ownership of all oil and gas leases within a radius of 660' of both lccations is the same with Superior owning a 50% working interest and Raymond T. Duncan a 50% working interest. Under separate letter, Raymond T. Duncan will give their consent to the above locations.

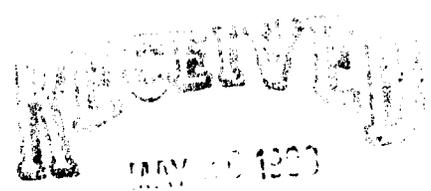
The Application for Permit to Drill for these wells will be sent to you from W. H. Edwards of our Cortez office. We will appreciate your cooperation in granting the exceptions. Please do not hesitate to contact W. H. Edwards (303-565-3733) or me at (303-863-2700), if ycu have any questions regarding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

Respectfully,

THE SUPERIOR OIL COMPANY

  
R. A. Rosprim  
Landman  
RAR:dm

CC: J. M. Bauman, D. W. Shewmake, W. H. Edwards, Bruce Johnston





# DIVISION OF CONSERVATION ARCHAEOLOGY

San Juan County  
Museum Association

May 25, 1983

Mr. Duane Likes  
Superior Oil Company  
P.O. Drawer G  
Cortez, CO 81321

Dear Mr. Likes:

Enclosed is an archaeological report for well locations LMC 1-32 and LMC 1-33 located in and north of Lone Mountain Canyon, San Juan County, Utah. Three isolated loci were found.

We recommend clearance for both locations.

The Bureau of Indian Affairs and the Navajo Nation will review this report and make the final decision regarding archaeological clearance for your project. The Bureau of Indian Affairs in Window Rock should notify the Real Property Management offices of the BIA in Shiprock of its decision.

Also enclosed is an invoice for our services. We have enjoyed working with you and hope that we can be of service again. If you have any questions about either the report or the invoice please call us. We will be happy to help you.

Sincerely,

*Roger A. Moore (JZ)*  
Roger A. Moore  
Supervisory Archaeologist

cc: Dr. Barry Holt, BIA, Window Rock (5)

Project No. 61-83-C

Federal Antiquities  
Permit No. 82-AZ/UT/NM-089

Navajo Nation No. 1981-14

An Archaeological Survey of  
Two Well Locations and Access  
Routes Near Aneth, Utah

for

Superior Oil Co.

Lone Mountain Canyon Well 1-32  
Lone Mountain Canyon Well 1-33

by

Roger A. Moore  
Supervisory Archaeologist

Submitted by

Margaret A. Powers  
Principal Investigator

DIVISION OF CONSERVATION ARCHAEOLOGY

Contributions to Anthropology Series, No. 694  
San Juan County Archaeological Research Center and Library

May 5, 1983

7  
7

### ABSTRACT

On April 27, 1983, the Division of Conservation Archaeology of the San Juan County Museum Association completed an archaeological survey of two well locations and access routes for Superior Oil Co. The survey area is located on Lone Mountain Canyon, southwest of Aneth in San Juan County, Utah and is under the jurisdiction of the Bureau of Indian Affairs and the Navajo Nation.

Three isolated loci were recorded. Archaeological clearance is recommended.

## INTRODUCTION

On April 27, 1983, the Division of Conservation Archaeology (DCA) of the San Juan County Museum Association conducted an archaeological survey for Superior Oil Co. of Cortez, Colorado. Clyde Benally of Superior Oil Co. requested the survey on April 20, 1983. Margaret A. Powers administered the project for DCA; Clyde Benally and Duane Likes administered the project for Superior Oil Co.

In recognition of the limited, nonrenewable nature of archaeological remains, federal and state governments have enacted legislation that is designed to conserve and protect these resources. The principal federal legislation includes the Antiquities Act of 1906 (PL 52-209), the Historic Preservation Act of 1966 (PL 89-665), the National Environmental Policy Act of 1969 (PL 91-852), the 1971 Executive Order No. 11593, the Archaeological and Historical Conservation Act of 1974 (PL 93-291), and the Archaeological Resources Protection Act of 1979 (PL 96-95).

In addition, the states of Arizona, New Mexico, Utah, and Colorado have enacted laws to ensure compliance with federal legislation and to protect archaeological resources within their jurisdiction. Work undertaken in the course of this project is governed by the stipulations of Federal Antiquities Permit No. 82-AZ/UT/NM-089 and Navajo Nation Permit No. 1981-14 and is for purposes of compliance with these statutes.

Roger Moore, DCA archaeologist, surveyed the project area for cultural remains. Dr. Barry Hold, Bureau of Indian Affairs Navajo Area Archaeologist, and Dr. Anthony Klesert, Navajo Cultural Resource Management Program Coordinator, were notified of the survey schedule prior to beginning fieldwork. Mike Loyd and Duane Likes of Superior Oil Co. accompanied the archaeologist during the fieldwork.

## METHODS

The area was surveyed by walking a single zig zag transect along the access route right-of-ways, and parallel transects 15 meters apart on the well locations. A buffer zone 15 feet wide was included on both sides of the access route right-of-ways, and 50 feet wide around the well locations. The archaeologist recorded all cultural remains. Those whose information potential exceeded what could be extracted during the survey phase were assigned site status. Other cultural remains were documented as isolated loci (IL). Pertinent environmental data were also recorded.

In addition to field inspection, the archaeologist conducted a search of the records at the Division of Conservation Archaeology to determine if any sites had been previously recorded in the project area. Site and project records requested by the State of Utah were completed.

LONE MOUNTAIN CANYON WELL 1-32

Legal Description: T42S, R24E, Section 1, 2184' F/NL, 2350' F/EL (well pad), S.L.C., San Juan County, Utah

UTM Coordinates: Zone 12, 4114650N, 657020E (center of pad)

Map Source: U.S.G.S. 15' Aneth, Utah (1962)

Land Jurisdiction: Bureau of Indian Affairs and Navajo Nation

Project Area: 325' x 300' (well pad)

Surveyed Area: 425' x 400' (well pad with buffer  
3.90 acres

Description: The proposed well pad is in the bottom of Lone Mountain Canyon on the west bank of the creek in the dune covered flood plain (Figure 1). Access will be by following the creek bed about 150 meters north to an existing dirt road.

Vegetative cover is about 15 percent and consists of snakeweed, narrow leaf yucca, rabbitbrush, dock, and Mormon tea.

Cultural Resources: Two isolated loci were found. IL#1 (UTM: Zone 12, 4114660N, 657030E) is near the center of the northeast quarter of the drill location and consists of a white chert microflake with 100 percent dorsal cortex. IL #2 (UTM: Zone 12, 4114660N, 650990E) is in the west side of the northwest quarter of the drill location and consists of a green chert bifacially flaked thick blade-like flake about 6cm long, 4cm wide, and 1.5cm thick. The area uphill on the west side of the pad was checked an extra 100 feet to determine if there might be a site from which these IL's originated. No site was found. IL #1 is in recently active and accumulating dunes, while IL #2 is in older partly stabilized dunes.

Recommendations: The recorded data on the isolated loci exhausts their information potential. Archaeological clearance is, therefore, recommended.

LONE MOUNTAIN CANYON WELL 1-33

Legal Description: T42S, R24E, Section 1, 1623' F/SL, 1959' F/EL (well pad);  
 T42S, R24E, Section 1, NW $\frac{1}{4}$  SE $\frac{1}{4}$  (access route);  
 T42S, R24E, Section 1, W $\frac{1}{2}$  NE $\frac{1}{4}$  SE $\frac{1}{4}$  (access route);  
 S.L.C., San Juan County, Utah

UTM Coordinates: Zone 12, 4114225N, 657125E (center of pad)  
 Zone 12, 4114300N, 657475E (east end of access)

Map Source: U.S.G.S. 15' Aneth, Utah-Colorado (1962)

Land Jurisdiction: Bureau of Indian Affairs and Navajo Nation

Project Area: 325' x 300' (well pad)  
 1500' x 20' (access route)  
 Surveyed Area: 425' x 400' (well pad with buffer)  
 1500' x 50' (access route with buffer)  
 5.62 Acres

Description: The proposed drill location is on the canyon flood plain. The southwest two-thirds of the pad will cut back into a high dune covered ridge (Figure 1). From the drill location the access route goes northwest down a wash (which will be rerouted to the north) about 150 feet. The route then ascends a low bedrock terrace to the north-northeast and climbs the side of a high bedrock bench. On the broad bench the route follows a narrow finger to the main bench and continues east to an existing dirt road.

Vegetative cover ranges from 10-20 percent. Vegetation includes snakeweed, rabbitbrush, Mormon tea, dock, barrel cactus, prickly pear cactus, cheat grass, and other identified grasses.

Cultural Resources: One isolated locus, IL #3 (UTM: Zone 12, 4114350N, 657200E), was found on the access route near the point where the route drops down from the bench finger. The IL consists of a core reduction tertiary flake and a cobble core, both of light gray chert.

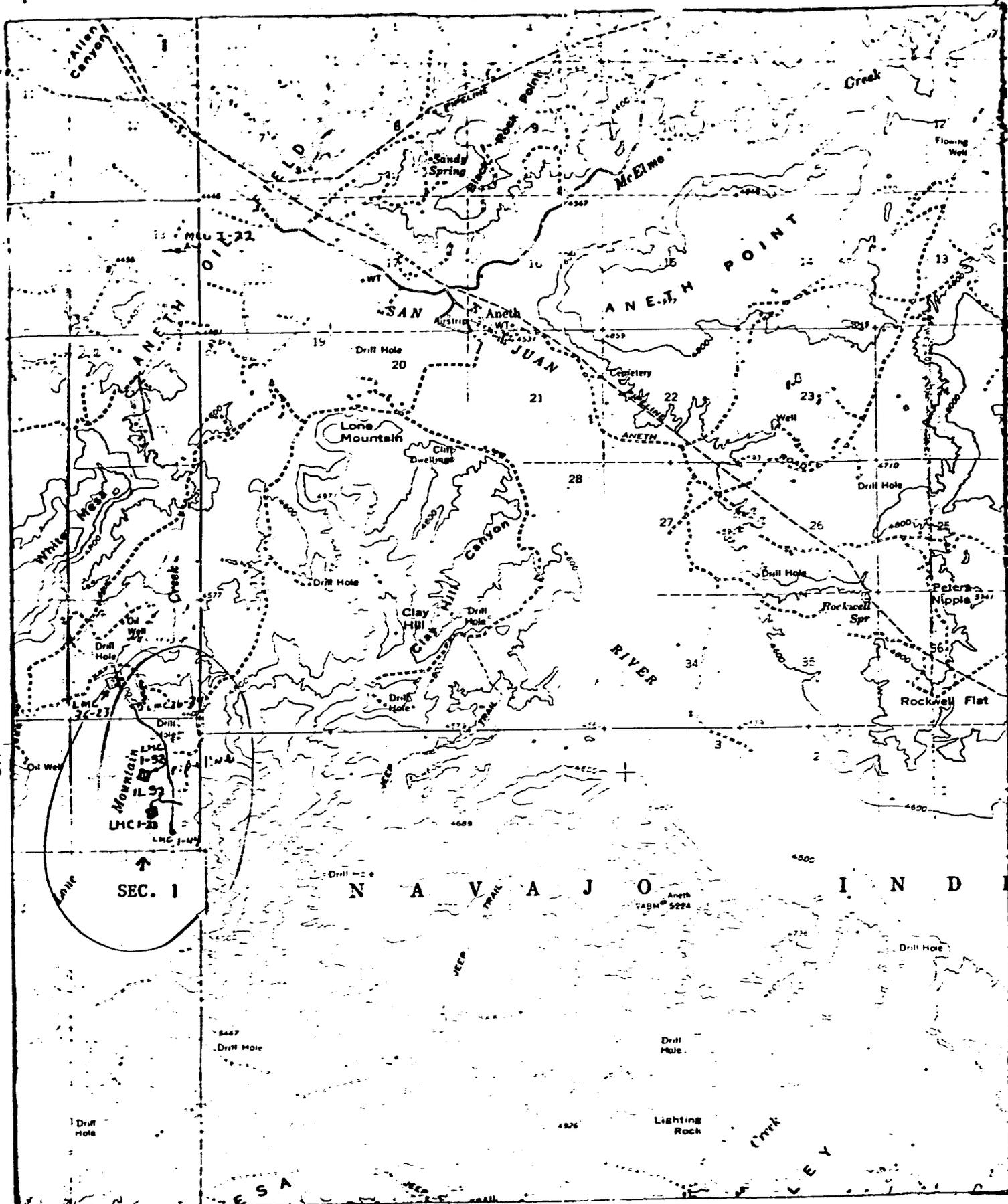
Recommendations: The recorded data on the isolated locus exhausts its information potential. Archaeological clearance is recommended.

NOTE ON GEOPHYSICAL CHARACTER OF SURVEY AREA

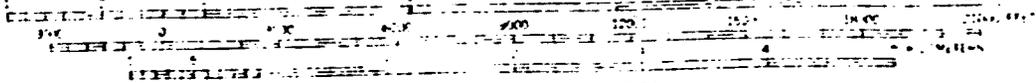
The Lone Mountain Canyon floor and several of the lowest mesa benches have dune fields on them. The dunes near the main canyon drainages are active, with seasonal to yearly shifts in mass, resulting in a low percentage of vegetative cover. The other dunes are farther from the main drainage and are apparently more stable and have more vegetative cover. While surveying the area I checked the steep slopes at the edge of several dune fields for evidence as to whether some of the isolated

loci found in the dunes are derived from buried sites. This was easier to do for the more active fields. The more active fields have shifted in elevation up to 2 meters in places and, therefore, portions of the sites, if they exist, are likely to have been uncovered. The older dunes, however, may have a potential for harboring buried sites. The areas that would have the greatest potential for buried sites are the upper or lower mesa benches, rather than the valley floor.

The recommendations in this report are based on my observations, but the topography warrants the attention of a Quaternary geologist in order to place these inferences on a more secure foundation.



SCALE 1:62500



CONTOUR INTERVAL 40 FEET  
 DOTTED LINES REPRESENT 20 FEET CONTOURS  
 ELEVATIONS MEAN SEA LEVEL

ANETH, UTAH—CO  
 N3700—W10900/15

1962

AMS 4158 II - SERIES V79

THE NAVAJO NATION  
WINDOW ROCK, NAVAJO NATION (ARIZONA) 86515



PETERSON ZAH

CHAIRMAN, NAVAJO TRIBAL COUNCIL

Utah Land Development  
801-651-3208

EDWARD T. BEGAY

VICE CHAIRMAN, NAVAJO TRIBAL COUNCIL

P.O. Box 410  
Montezuma Creek, Utah 84534

May 19, 1983

Office of the Secretary  
Bureau of Land Management Oil & Gas  
P.O. Drawer 600  
Farmington, New Mexico 87401

Re: Lone Mountain Canyon  
Well No. 1-32  
Well No. 1-33

Dear Gentlemen:

Superior Oil Company has been given approval on May 16, 1983 by the Lone Mountain Canyon permittees and concurred by the Utah Land Development Office to drill the following wells when the archeological clearance is obtained:

Lone Mountain Canyon No. 1-32  
SW/NE Section 1, T42S, R24E  
San Juan County, Utah

Lone Mountain Canyon No. 1-33  
NW/SE Section 1, T42S, R24E  
San Juan County, Utah

Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read "Evangeline Tanner".

Evangeline Tanner,  
Compliance Officer

cc: File  
Superior Oil  
BIA/Land Operations  
BIA/Real Property

THE NAVAJO NATION  
WINDOW ROCK, NAVAJO NATION (ARIZONA) 86515



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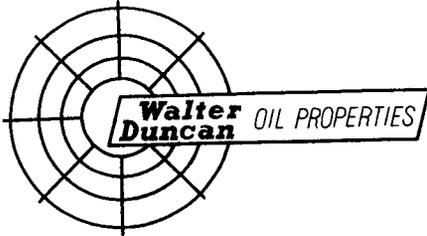
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A handwritten signature in black ink, appearing to read "Evangeline Tanner".

Evangeline Tanner,  
Compliance Officer

cc: File  
Superior Oil  
BIA/Land Operations  
BIA/Real Property



1777 SOUTH HARRISON STREET • PENTHOUSE ONE  
TELEPHONE (303) 759-3303 • DENVER, COLORADO 80210

May 26, 1983

State of Utah  
Natural Resources & Energy  
Oil & Gas & Mining Division  
4241 State Office Bldg.  
Salt Lake City, Utah 84111

Attn: Mr. Norman C. Stout

Re: Lone Mountain Canyon #1-32  
Lone Mountain Canyon #1-33  
Section 1-42S-24E  
San Juan County, Utah  
White Mesa Prospect: 44-2-3

Dear Mr. Stout:

The Superior Oil Company proposes to drill the captioned wells at exception locations. Duncan has no objections to these exception locations.

We appreciate your cooperation in granting this request.

Very Truly Yours,

RAYMOND T. DUNCAN

  
Bruce E. Johnston  
Land Manager

BEJ/ka

cc: Dick Rosprim  
Superior Oil Company  
1860 Lincoln Street  
Lincoln Tower Bldg.  
Suite 800  
Denver, Colorado 80295

**RECEIVED**  
JUN 03 1983

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 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
 At surface: 2084' FNL, 2350' FEL SWNE Sec. 1  
 At proposed prod. zone: same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 Approximately 13 miles southeast of Montezuma Creek, Utah

16. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any) 290'  
 16. NO. OF ACRES IN LEASE 640'

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1621'  
 19. PROPOSED DEPTH 5520'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 4635.4' GR

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'	Cement to surface
12-1/4"	9-5/8"	47#	1335'	Cement to surface
8-5/8"	5-1/2"	17#	5520'	317 sx cement or sufficient to cover zones of interest

5. LEASE DESIGNATION AND SERIAL NO.  
 N00-C-14-20-5119  
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
 NAVAJO  
 7. UNIT AGREEMENT NAME  
 8. FARM OR LEASE NAME  
 LONE MOUNTAIN CANYON  
 9. WELL NO.  
 #1-32  
 10. FIELD AND POOL, OR WILDCAT  
 WILDCAT  
 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 Sec. 1, T42S, R24E  
 12. COUNTY OR PARISH  
 San Juan  
 13. STATE  
 Utah

17. NO. OF ACRES ASSIGNED TO THIS WELL 80  
 20. ROTARY OR CABLE TOOLS  
 Rotary  
 22. APPROX. DATE WORK WILL START\*  
 June 30, 1983

We propose to drill a well to 5520' to test the Desert Creek formation. If productive, we will run casing and complete. If dry, we will plug and abandon as per State of Utah, BLM and BIA requirements.

RECEIVED  
 JUN 10 1983  
 DIVISION OF OIL, GAS AND 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 locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED J. S. Andres TITLE Petroleum Engineer DATE \_\_\_\_\_  
 (This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL BY \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE STATE  
 OF UTAH DIVISION OF  
 OIL, GAS, AND MINING  
 DATE: 6-14-83  
 BY: [Signature]

SUPPLEMENTAL TO FORM 9-331-C

WELL: Lone Mountain Canyon #1-32 ✓

ELEVATION: 4635.4' Ungraded ground level

SURFACE FORMATION: Dakota

ESTIMATED FORMATION TOPS:	FORMATION	DEPTH
	Chinle	1270'
	Dechelly	2310'
	Hermosa	4285'
	Ismay	5115'
	Lower Ismay	5235'
	Gothic Shale	5270'
	Desert Creek	5288'
	Chimney Rock	5468'
	T.D.	5520'

WATER BEARING FORMATION: Water is expected to be encountered intermittently from 50' to 1270'.

HYDROCARBON BEARING FORMATION: Oil and gas could be encountered intermittently from 5115' to 5468'.

MUD PROGRAM: Surface to 2800'- Fresh water.

2800' to T.D. - Lignosulfate or similar mud system. Water loss controlled to 15 cc or less and weighted with Barite as necessary.

CASING PROGRAM:

	Depth	Hole Size	O.D.	Weight	Grade	Type
Conductor	0-100'	18"	13-3/8"	54.5#	H-40	ST&C
Surface	0-1335'	12-1/4"	9-5/8"	47#	P-110	LT&C
Production	0-5520'	8-5/8"	5-1/2"	17#	N-80	ST&C

All casing will be new.

(2)

**CEMENT PROGRAM:**

Conductor	Cement to surface with Redi-Mix
Surface	Cement to surface with 147 sacks Class "B" and 629 sacks Lite cement.
Production	Cement with 317 sacks Class "H" cement.

**LOGGING PROGRAM:** 5520' - 1335': DIL-GR, FDC-CNL, BHC Sonic

**DRILL STEM TESTS:** None anticipated at this time.

**CORING:** Desert Creek 5288' - 5463' Two cores.

**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 mud system will be monitored by visual inspection. The schematic of the pressure control equipment can be seen on attached diagram.

**POSSIBLE HAZARDS:** High pressure gas or gas containing detectable amounts of H<sub>2</sub>S are not anticipated while drilling this well.

**ANTICIPATED STARTING DATE:** June 30, 1983.

# **SUPERIOR OIL**

May 18, 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 #1-32 ✓  
2084' FNL, 2350' FEL  
Section 1, T42S, R24E, SLM  
San Juan County, Utah

Dear Sir:

We submit the following application and plats for permission to drill the referenced well. The attached "Surface Management Stipulations" (BIA) are made a part of this APD.

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 3.2 miles. Go Southwest 0.5 miles on an existing road (to be improved) to the location. The existing roads are being maintained as access to an existing producing well. (refer to Plat #1).
2. Planned access road 20' wide will be from an abandoned drill hole location beside an existing improved road in the NE of NE of Section 1, T42S, R24E in a Southwest direction 0.25 miles on an abandoned existing road to be improved. 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%. (refer to Plat #2).

# **SUPERIOR OIL**

3. Location of existing wells within one mile:

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

(refer to Plat #3).

4. Location of existing and/or proposed producing facilities: there is one set of producing facilities owned and controlled by Superior approximately 2500 ft southwest of the proposed location and another tank battery 2500 ft north of the proposed location also owned and operated by Superior. 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 to the Southwest will be used and the flowline will be buried along the road right of way and existing approved pipeline right of way. An earthen dike will be maintained around the storage tanks.
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 roads and access road.
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 #4 & #5).
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 #4).

# SUPERIOR OIL

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 #4, #5, #6 & #7).
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 Cheat Grass, Indian Rice Grass, Morman Tea, Yucca, Rabbitbrush and Curley Dock.

There are no Indian habitations or artifacts in the immediate vicinity of the access road, flow line or drill site. The nearest habitate is 1.3 miles north 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 - not determined at this time.

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

May 25-83  
Date

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

support material  
for a different  
well.

left msg for Jeanette  
to call

~~xxxx~~  
6-8-83

Jeanette said she would  
send the missing info.

~~xxxx~~  
6-8

6-8-83

Mr. Norm Stout:

As per our phone conversation  
I've enclosed the necessary  
information to complete the  
APD for Lone Mtn. Canyon 1-32  
in San Juan Co. Utah.

Our Cortez office will be  
sending a copy of the APD  
for LMC. 1-33.

Thanks,

Geanette

OPERATOR SUPERIOR OIL CO

DATE 6-8-83

WELL NAME LONE MOUNTAIN CANYON #1-3Z

SEC SW NE T 42 S R 24 E COUNTY SAN JUAN

43-037-30907  
API NUMBER

INDIAN  
TYPE OF LEASE

POSTING CHECK OFF:

INDEX

MAP

HL

NID

PI

PROCESSING COMMENTS:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

CHIEF PETROLEUM ENGINEER REVIEW:

6/14/83 Field  
Lone Mtn Bx. / SE Greater Aneth

APPROVAL LETTER:

SPACING:  A-3 \_\_\_\_\_ UNIT

c-3-a \_\_\_\_\_ CAUSE NO. & DATE

c-3-b

c-3-c

SPECIAL LANGUAGE:

a copy of the Utah Division of Water Rights  
(801-532-6071) approval for use or  
purchase of drilling water must be  
submitted to this office prior to spudding,  
otherwise this approval is void.

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

AUTHENTICATE LEASE AND OPERATOR INFORMATION

VERIFY ADEQUATE AND PROPER BONDING

AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

APPLY SPACING CONSIDERATION

ORDER 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.

May 16, 1983

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

Re: Proposed Lone Mountain Canyon #1-32  
2350' FEL, 2184' FNL,  
Sec. 1, T42S, R24E  
San Juan County, Utah

Dear Mr. Stout:

The attached Application for Permit to Drill for the above referenced well is staked on an unorthodox location in accordance with Rule C-3(c) General Rules and Regulations and Practice and Procedure. An exemption for this location is requested primarily due to topographic considerations (sand wash to east).

We would appreciate your cooperation on this matter.

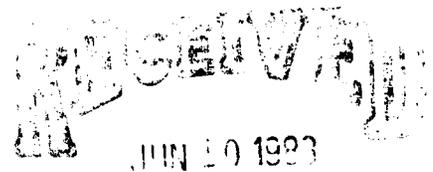
Sincerely yours,



Jeanette M. Bauman

JMB/dt  
Attachment

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



**DIVISION OF  
OIL GAS & MINING**

June 14, 1983

Superior Oil Company  
P. O. Box 6  
Cortez, Colorado 81321

RE: Well No. Lone Mountain #1-32  
2084 FNL, 2350 FEL  
SW/4 Sec. 1, T.42S, R.24E  
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. A copy of the Utah Division of Water Rights (801-533-6071) approval for use or purchase of drilling water must be submitted to this office prior to spudding, otherwise this approval is void.

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

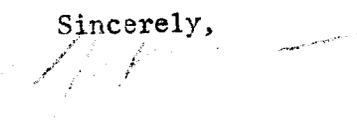
RONALD J. FIRTH - Chief Petroleum Engineer  
Office: 533-5771  
Home: 571-6068

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 43-037-30907.

Sincerely,

  
Norman C. Stout  
Administrative Assistant

NCS/as  
cc: Minerals Management  
Bureau of Indian Affairs  
Enclosure

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: 2084' FNL, 2350' FEL, SWNE SEC. 1  
AT TOP PROD. INTERVAL: same  
AT TOTAL DEPTH: same

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>AMMEND APD.</u>			

5. LEASE  
NOO-C-14-20-5119

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
NAVAJO

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
LONE MOUNTAIN CANYON

9. WELL NO.  
#1-32 ✓

10. FIELD OR WILDCAT NAME  
LONE MOUNTAIN CANYON

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
SEC. 1, T42S, R24E

12. COUNTY OR PARISH  
SAN JUAN

13. STATE  
UTAH

14. API NO.  
43-037-30907

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
GR: 4635.4'

(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.)\*

SIZE OF HOLE	SIZE OF CSG	WEIGHT/FOOT & TYPE	SETTING DEPTH	QUANTITY OF CMT
** 17-1/2"	13-3/8"	54.5# K-55	100'	Cmt. to surface
12-1/4"	9-5/8"	* 36# K-55	1335'	Cmt. to surface
** 8-3/4"	* 7	* 23# K-55	5520"	** 247 Sx Class
		26# L-80		"H" or sufficient to cover zones of interest.

\* CHANGES HAVE BEEN MADE DUE TO LACK OF TUBULAR GOODS.  
\*\* CHANGES MADE ACCORDINGLY, BASED ON NEW CASING PROGRAM.

**ACCEPTED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING**  
DATE: 9/21/83  
BY: [Signature]

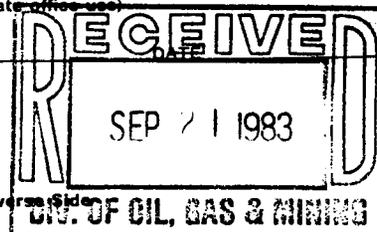
Subsurface Safety Valve: Manu. and Type \_\_\_\_\_

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

SIGNED James S. Andres TITLE PETROLEUM ENGINEER DATE \_\_\_\_\_  
JAMES S. ANDRES

(This space for Federal or State office use)

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



**SUPERIOR** ©

*Andy*  
*Carli*  
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

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 DRY

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: 2084' FNL, 2350' FEL SWNE SEC. 1  
AT TOP PROD. INTERVAL: Same  
AT TOTAL DEPTH: Same

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 checked="" type="checkbox"/>
(other) <input type="checkbox"/>	

5. LEASE  
N00-C-14-20-5119

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
NAVAJO

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
LONE MOUNTAIN CANYON

9. WELL NO.  
#1-32

10. FIELD OR WILDCAT NAME  
LONE MOUNTAIN CANYON

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
SEC. 1, T42S, R24E

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

14. API NO.  
43-037-30907

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
4635.4' GR

(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.)\*

10-7-83: Plugged & abandoned the subject well per BLM requirements as follows:

1st plug: 5108-5208' 66 cu.ft Class 'H' cmt across the top of the Upper Ismay formation.

2nd plug: 4258-4358' 75 cu. ft. Class 'H' cmt across the top of the Hermosa formation.

3rd plug: 2264-2364' 86 cu. ft. Class 'H' cmt across the top of the DeChelly formation.

4th plug: 1256-1356' 60 cu. ft. Class 'H' cmt across the 9-5/8" csg shoe.

5th plug: 0-518" 225 cu. ft. Class 'H' cmt.

The subject well was plugged & abandoned because zones of interest were non-productive.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED J. S. Andres TITLE Petroleum Engineer DATE 10-25-83

(This space for Federal or State office use)

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

**APPROVED BY THE STATE**  
**OF UTAH DIVISION OF**  
**OIL, GAS, AND MINING**  
DATE: 10/21/83  
BY: [Signature]

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

RECEIVED  
OCT 31 1983  
DIVISION OF OIL, GAS & MINING

5. LEASE  
100-C-14-20-5119

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
MINIWAJAO

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
LONE MOUNTAIN CANYON

9. WELL NO.  
#1-32

10. FIELD OR WILDCAT NAME  
LONE MOUNTAIN CANYON

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
SEC. 1, T42S, R24E

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

14. API NO.  
43-037-30907

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
4635.4' GR

SUNDRY NOTICES AND REPORTS

(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 DRY

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: 2084' FNL, 2350' FEL SWNE SEC. 1  
AT TOP PROD. INTERVAL: Same  
AT TOTAL DEPTH: Same

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) Drilling operations			

(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.)\*

- 9-21-83: MIRU drilling rig. Spudded 12-1/4" hole. Reamed to 17-1/2" to 119'. Ran 13-3/8", 54.5#/ft csg to 117' & cmt'd w/ 175 cu.ft. Class 'B' cmt w/ 2% CaCl to surface.
- 9-22-83: Drilled 12-1/4" hole to 1306'.
- 9-23-83: Ran 9-5/8", 36#/ft csg to 1306 & cmt'd w/ 688 cu. ft. B. J. Lite cmt w/ 10#/sx Gilsonite + .4% A-2 LoDense + 175 cu. ft. Class 'B' cmt w/ 2% CaCl to surface.
- 9-24/10-4-83: Drilled 8-3/4" hole to 5519'.
- 10-5-83: Ran electric logs from 5519' to 1300'.
- 10-6-83: Ran DST tool. Drill stem tested Lower Desert Creek, set'g bottom pkr at 5409'.
- 10-7-83: Circulated & conditioned hole.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED J. S. Andres TITLE Petroleum Engineer DATE 10-25-83

(This space for Federal or State office use)

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

RECEIVED  
OCT 31 1983  
DIVISION OF OIL, GAS & MINING

\*See Instructions on Reverse Side

DIVISION OF  
OIL, GAS & MINING

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE\*

(See other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R355.5.

47

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG\***

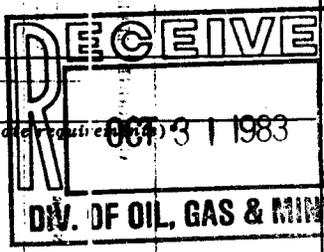
1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other Plug & Abandon

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 **2084' FNL, 2350' FEL SWNE SEC. 1**  
At top prod. interval reported below **Same**  
At total depth **Same**



14. PERMIT NO. **43-037-30907** DATE ISSUED \_\_\_\_\_

15. DATE SPUNDED **9-21-83** 16. DATE T.D. REACHED **10-4-83** 17. DATE COMPL. (Ready to prod.) **NA**

18. ELEVATIONS (DF, REB, RT, GR, ETC.)\* **4635.4' GR** 19. ELEV. CASINGHEAD **4636.4'**

20. TOTAL DEPTH, MD & TVD **5519'** 21. PLUG, BACK T.D., MD & TVD **See item 32** 22. IF MULTIPLE COMPL., HOW MANY\* \_\_\_\_\_

23. INTERVALS DRILLED BY **Rotary** 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* **NONE**

25. WAS DIRECTIONAL SURVEY MADE **NO** 26. TYPE ELECTRIC AND OTHER LOGS RUN **DIL-SFL-GR-SP, CNL-LDT-GR-CAL** 27. WAS WELL CORED **NO**

**CASING RECORD (Report all strings set in well)**

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	54.5	117'	17-1/2"	175 cuft C1 'B' cmt w/ 2% CaCl	CaCl
9-5/8"	36	1306'	12-1/4"	688 cuft B.J. Lite cmt w/ +.4% A-2 LoDense + 175 cuft C1 'B' cmt w/ 2% CaCl	10#/sx Gilsonite

**LINER RECORD**

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

**TUBING RECORD**

SIZE	DEPTH SET (MD)	PACKER SET (MD)

**ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.**

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5108-5208'	66 cuft Class 'H'
4258-4358'	75 cuft Class 'H'
2264-2364'	86 cuft Class 'H'
1256-1356'	60 cuft Class 'H'
PRODUCTION 0-518'	225 cuft Class 'H'

31. PERFORATION RECORD (Interval, size and number) \_\_\_\_\_

33.\* **PRODUCTION 0-518'**

32. DATE FIRST PRODUCTION **NA** PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) \_\_\_\_\_ WELL STATUS (Producing or shut-in) \_\_\_\_\_

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) \_\_\_\_\_ TEST WITNESSED BY \_\_\_\_\_

35. LIST OF ATTACHMENTS \_\_\_\_\_

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

SIGNED James S. Andres TITLE Petroleum Engineer DATE 10-25-83

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

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure, tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:  
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Desert Creek	5338'	5470'	Limestone Dolomite DST: 5409-5519' CUSHION: 62' of drilling mud. PRESSURE DATA: 10-6-83 at 0751 hrs open tool Initial Press 1st flow: 80.5 psi Final Press 1st flow: 93.9 psi Initial Press 1st shut-in: 93.9 psi Final Press 1st shut-in: 295 psi Initial Press 2nd flow: 93.9 psi Final Press 2nd flow: 120.7 psi Initial Press 2nd shut-in: 120.7 psi Final Press 2nd shut-in: 415.6 psi  Total fluid recovery - 124' of drilling mud.
Morrison			
Navajo			
9-5/8" csg shoe			
DeChelly			
Organ Rock			
Hermosa			
Ismay			
Lower Ismay			
Gothic			
Desert Creek			
Chimney Rock			
Akah			

38. GEOLOGIC MARKERS	NAME	MEAS. DEPTH	TOP	TRUB VERT. DEPTH
	Surf			
	468'			
	1306'			
	2314'			
	2610'			
	4308'			
	5158'			
	5280'			
	5317'			
	5338'			
	5470'			
	5492'			

39. NAME OF OPERATOR: **24th STREET OIL CO.**

40. TYPE OF COMPLETION:  
 WELL WORK COMPLETION  
 MULTIPLE COMPLETION

41. TYPE OF COMPLETION: **WELL COMPLETION OR RECOMPLETION**

42. NAME OF OPERATOR: **24th STREET OIL CO.**

43. NAME OF OPERATOR: **24th STREET OIL CO.**

44. NAME OF OPERATOR: **24th STREET OIL CO.**

45. NAME OF OPERATOR: **24th STREET OIL CO.**

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93. NAME OF OPERATOR: **24th STREET OIL CO.**

94. NAME OF OPERATOR: **24th STREET OIL CO.**

95. NAME OF OPERATOR: **24th STREET OIL CO.**

96. NAME OF OPERATOR: **24th STREET OIL CO.**

97. NAME OF OPERATOR: **24th STREET OIL CO.**

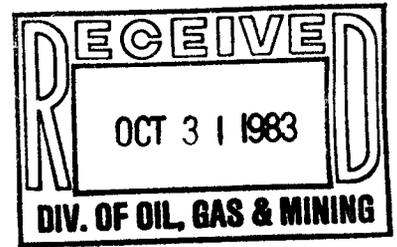
98. NAME OF OPERATOR: **24th STREET OIL CO.**

99. NAME OF OPERATOR: **24th STREET OIL CO.**

100. NAME OF OPERATOR: **24th STREET OIL CO.**

M

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116



\*REPORT OF WATER ENCOUNTERED DURING DRILLING\*

Well Name & Number LONE MOUNTAIN CANYON #1-32  
Operator SUPERIOR OIL COMPANY Address P. O. DRAWER "G",CORTEZ, CO. 81321  
Contractor FOUR CORNERS Address FARMINGTON, NEW MEXICO 87499  
Location 1/4 1/4 Sec. 1 T. 42S R. 24E County San Juan, Utah

Water Sands

	<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
	From	To	Flow Rate or Head	Fresh or Salty
1.	520'	1306'	Approx 95 bbl/hr	Chloride 2300 ppm, hardness 350
2.				
3.				
4.				
5.				

(Continue of reverse side if necessary)

Formation Tops

Remarks

- NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
- (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT FARMINGTON RESOURCE AREA

Caller Service 4104  
Farmington, New Mexico 87499

IN REPLY REFER TO:  
3162.3-4 (016)

JUL 10 1987

Superior Oil Company  
c/o Mobil Oil Corporation  
P.O. Drawer G  
Cortez, CO 81321

Gentlemen:

A review of our files indicates that we have not received a "Subsequent Report of Abandonment" stating that surface reclamation has been completed for the wells listed on the attachment. Please submit documentation indicating whether or not all surface reclamation has been completed on these wells within 90 days. Onshore Oil and Gas Order No. 1, Section V., requires that "upon completion of reclamation operations, the lessee or operator shall notify the authorized officer when the location is ready for inspection.

If you have any questions please call Arlan Hiner at (505) 325-4572.

Sincerely,

  
John H. Hiner  
Area Manager

1 Enclosure

ST FOR COMPANY='SUPERIOR'.AND.LTRSENT(860000.AND.FWKIDONE=0

WELLNO	COMPANY	WELLNAME	WELLNO	FOOTAGES	S	T	R	LEASENO	S	AGENCY	S	STATUS	STATE	TRIBE	DATE REC	LTRSENT	FWKIDONE	INSPECTION	INITIALS
50	SUPERIOR	LONE MOUNTAIN CANYON	1-32	2084N/2350E	1	42S	24E	N00-C-14-20-5119	SHI	I	UT	NAV	831031	840208	0	0	SPS		
50	SUPERIOR	CLAY CANYON	29-43	300E/1750S	29	41S	25E	14-20-603-264	SHI	I	UT	NAV	801115	830804	0	0	SPS		
51	SUPERIOR	CLAY CANYON	32-11	710N/1190N	32	41S	25E	14-20-603-373	SHI	I	UT	NAV	790612	800820	0	0	SPS		

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

**SUBMIT IN TRIPL**  
 (Other instructions  
 verso side)

Form approved by  
 Budget Bureau No. 100-107-1083  
 Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.  
 NOO-C-14-20-5119 **PA**

6. IF INDIAN, ALIEN, OR TRUST NAME  
**080409**  
**NAVAJO**

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
**LONE MOUNTAIN CANYON**

9. WELL NO.  
**1-32**

10. FIELD AND POOL, OR WILDCAT  
**LONE MOUNTAIN CANYON**

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
**Sec. 1, T42S, R24E**

12. COUNTY OR PARISH  
**SAN JUAN**

13. STATE  
**UTAH**

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

1. **OIL WELL**  **GAS WELL**  **OTHER**

2. NAME OF OPERATOR  
**MEPUS, Agent for MEPNA \***

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
 At surface  
**2084' FNL, 2350' FEL, SWNE**

14. PERMIT NO.  
**43-037-30907**

15. ELEVATIONS (Show whether DF, RT, OR, etc.)  
**GR: 4635.4' KB: 4648'**

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 checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANE <input type="checkbox"/>	(Other) <input type="checkbox"/>	

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

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

This well was plugged and abandoned by Superior Oil on 10/7/83 and subsequent notice of surface rehabilitation was sent on March 22, 1984. The disturbed surface was reclaimed and reseeded in the fall of 1984.

\*MOBIL EXPLORATION AND PRODUCING U.S., INC, as Agent for MOBIL EXPLORATION AND PRODUCING NORTH AMERICA, INC.

**RECEIVED**  
 AUG 03 1987  
 DIVISION OF  
 OIL, GAS & MINING

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

SIGNED *Clyde J. Benally* TITLE Sr. Environ. Engin. DATE 7/31/87  
C. J. Benally

(This space for Federal or State office use)

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

\*See Instructions on Reverse Side



TICKET NO. 26963900  
 10-OCT-83  
 FARMINGTON

FORMATION TESTING SERVICE REPORT

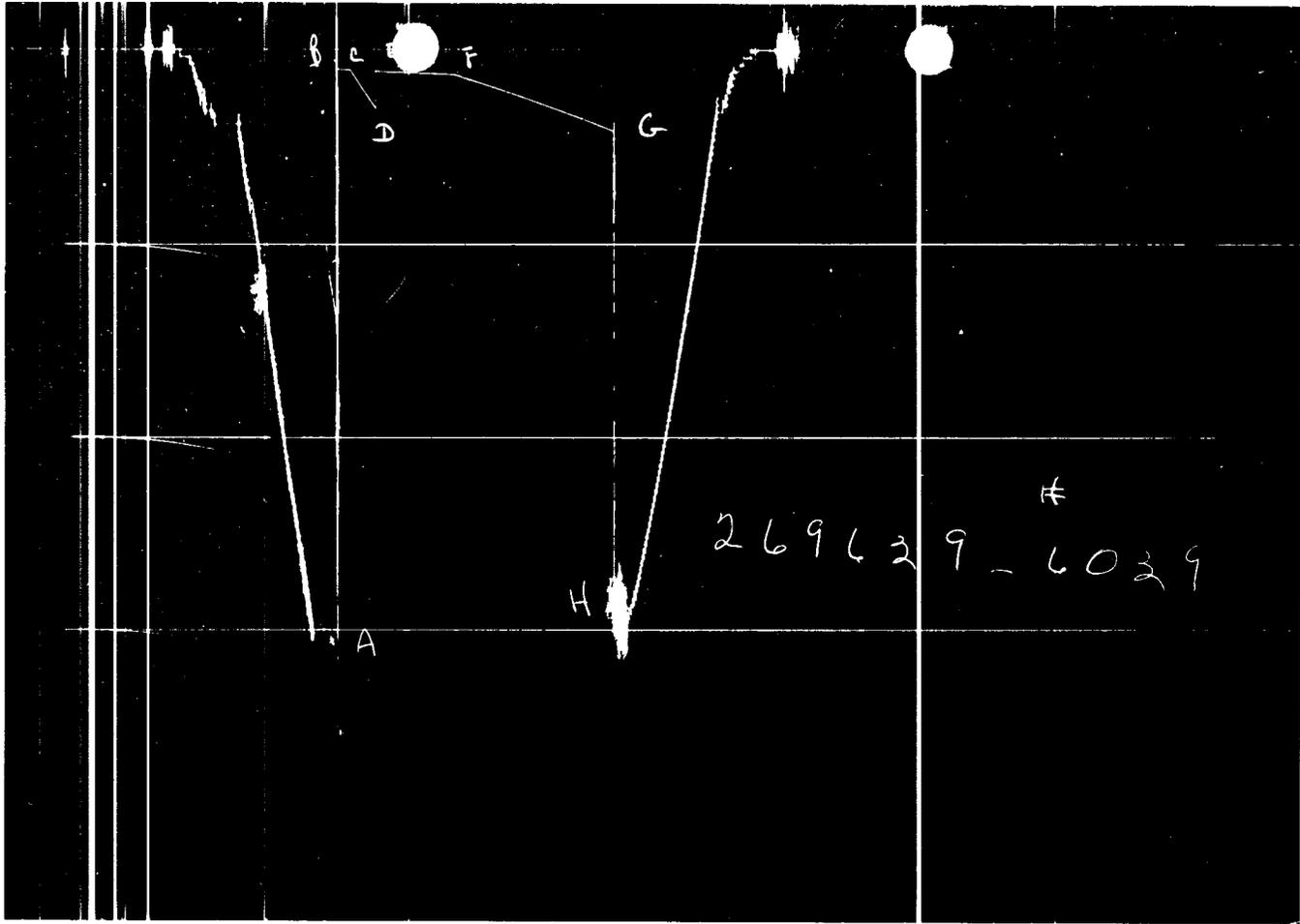
LEGAL LOCATION SEC. - TWP. - RNG.	1 - 42S - 24E	FIELD AREA	WILDCHRT	COUNTY	SRN JUAN	STATE	UTRH NM
LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME			
	1-32	1	5409.1 - 5519.1	THE SUPERIOR OIL COMPANY			
				LONE MOUNTAIN CANYON			

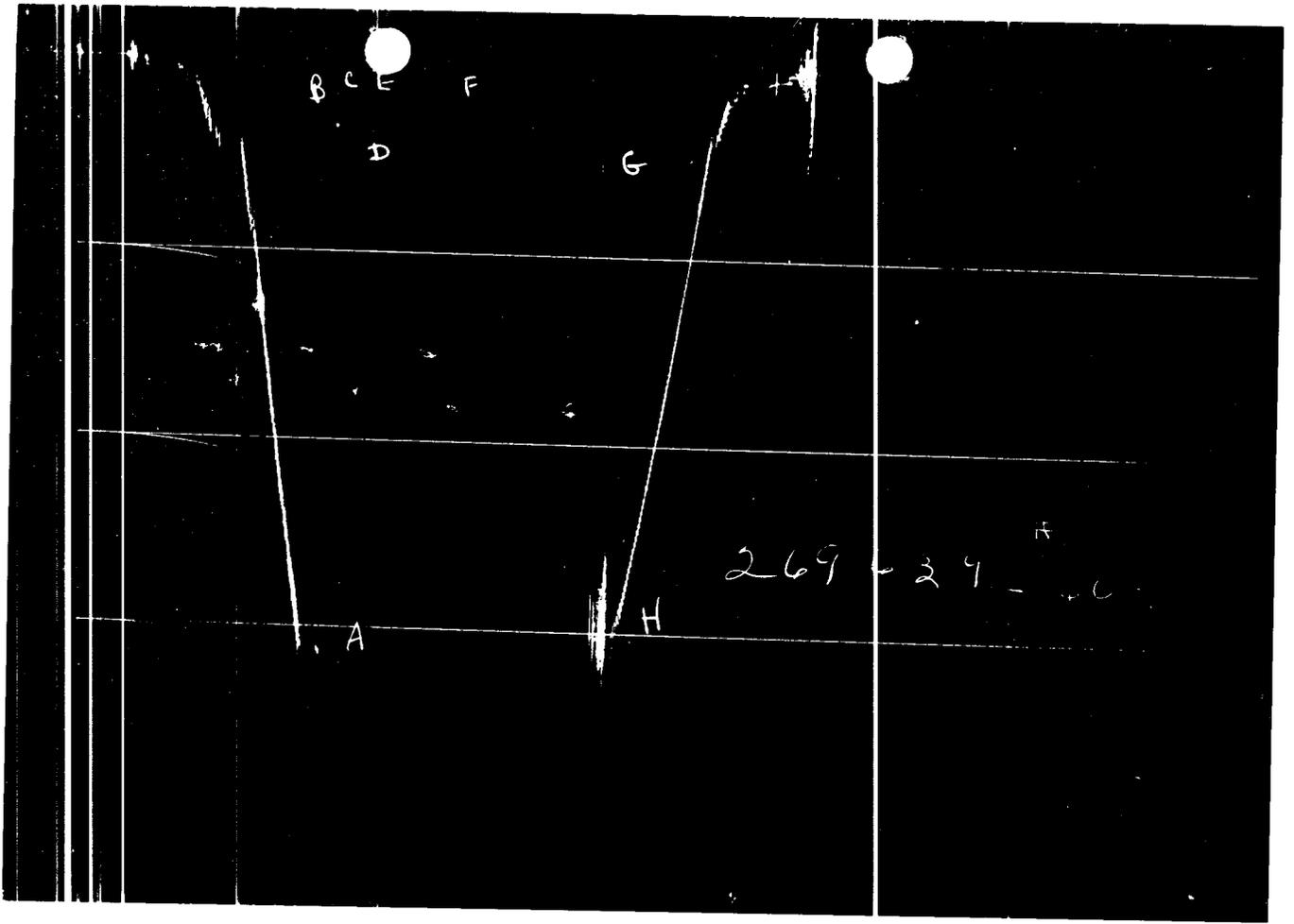
GAUGE NO: 6039 DEPTH: 5389.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3041	3022.4			
B	INITIAL FIRST FLOW	81	100.7	15.0	15.0	F
C	FINAL FIRST FLOW	94	106.6			
C	INITIAL FIRST CLOSED-IN	94	106.6	30.0	30.0	C
D	FINAL FIRST CLOSED-IN	295	302.7			
E	INITIAL SECOND FLOW	94	112.5	90.0	90.0	F
F	FINAL SECOND FLOW	121	128.3			
F	INITIAL SECOND CLOSED-IN	121	128.3	180.0	180.0	C
G	FINAL SECOND CLOSED-IN	416	416.1			
H	FINAL HYDROSTATIC	3041	2959.5			

GAUGE NO: 6039 DEPTH: 5389.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3041	3022.4			
B	INITIAL FIRST FLOW	81	100.7			
C	FINAL FIRST FLOW	94	106.6	15.0	15.0	F
C	INITIAL FIRST CLOSED-IN	94	106.6			
D	FINAL FIRST CLOSED-IN	295	302.7	30.0	30.0	C
E	INITIAL SECOND FLOW	94	112.5			
F	FINAL SECOND FLOW	121	128.3	90.0	90.0	F
F	INITIAL SECOND CLOSED-IN	121	128.3			
G	FINAL SECOND CLOSED-IN	416	416.1	180.0	180.0	C
H	FINAL HYDROSTATIC	3041	2959.5			





269-29-10

GAUGE NO: 6040 DEPTH: 5516.2 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3114	3102.0			
B	INITIAL FIRST FLOW	175	177.6			
C	FINAL FIRST FLOW	188	179.6	15.0	15.0	F
C	INITIAL FIRST CLOSED-IN	188	179.6			
D	FINAL FIRST CLOSED-IN	363	373.5	30.0	30.0	C
E	INITIAL SECOND FLOW	188	190.6			
F	FINAL SECOND FLOW	202	201.9	90.0	90.0	F
F	INITIAL SECOND CLOSED-IN	202	201.9			
G	FINAL SECOND CLOSED-IN	484	486.3	180.0	180.0	C
H	FINAL HYDROSTATIC	3100	3026.4			

## EQUIPMENT & HOLE DATA

FORMATION TESTED: LOWER DESERT CREEK  
 NET PAY (ft): 10.0  
 GROSS TESTED FOOTAGE: 109.8  
 ALL DEPTHS MEASURED FROM: KELLY BUSHING  
 CASING PERFS. (ft): \_\_\_\_\_  
 HOLE OR CASING SIZE (in): 8.750  
 ELEVATION (ft): 4635  
 TOTAL DEPTH (ft): 5519.0  
 PACKER DEPTH(S) (ft): 5403, 5409  
 FINAL SURFACE CHOKE (in): \_\_\_\_\_  
 BOTTOM HOLE CHOKE (in): 0.750  
 MUD WEIGHT (lb/gal): 10.60  
 MUD VISCOSITY (sec): 41  
 ESTIMATED HOLE TEMP. (°F): \_\_\_\_\_  
 ACTUAL HOLE TEMP. (°F): 125 @ 5514.0 ft

TICKET NUMBER: 26963900

DATE: 10-6-83 TEST NO: 1

TYPE DST: OPEN HOLE

HALLIBURTON CAMP:  
FARMINGTON

TESTER: J.L. ROBINSON

WITNESS: JAMES E. GREGORY

DRILLING CONTRACTOR:  
FOUR CORNERS # 8

### FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES	
<u>MUD PIT</u>	<u>    </u> @ <u>    </u> °F	<u>    </u> ppm	
_____	<u>    </u> @ <u>    </u> °F	<u>    </u> ppm	
_____	<u>    </u> @ <u>    </u> °F	<u>    </u> ppm	
_____	<u>    </u> @ <u>    </u> °F	<u>    </u> ppm	
_____	<u>    </u> @ <u>    </u> °F	<u>    </u> ppm	
_____	<u>    </u> @ <u>    </u> °F	<u>    </u> ppm	

### SAMPLER DATA

Pstg AT SURFACE: 60  
 cu.ft. OF GAS: 0.00  
 cc OF OIL: 0  
 cc OF WATER: 0  
 cc OF MUD: 2240  
 TOTAL LIQUID cc: 2240

### HYDROCARBON PROPERTIES

OIL GRAVITY (°API): \_\_\_\_\_ @ \_\_\_\_\_ °F  
 GAS/OIL RATIO (cu.ft. per bbl): \_\_\_\_\_  
 GAS GRAVITY: \_\_\_\_\_

### CUSHION DATA

TYPE	AMOUNT	WEIGHT
<u>MUD (FT)</u>	<u>62.0</u>	<u>10.60</u>
_____	_____	_____

### RECOVERED:

186 FEET OF DRILLING MUD INCLUDING THE 62 FEET OF MUD CUSHION.

MEASURED FROM TESTER VALVE

### REMARKS:

ELEVATION SHOWN IS AT GROUND LEVEL



		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	4829.9	
3		DRILL COLLARS.....	6.250	2.360	500.3	
50		IMPACT REVERSING SUB.....	6.000	2.750	0.9	5308.7
5		CROSSOVER.....	6.000	2.250	1.1	
51		PUMP OUT REVERSING SUB.....	5.750	3.000	0.8	5310.7
5		CROSSOVER.....	6.000	2.250	1.0	
3		DRILL COLLARS.....	6.250	2.360	61.9	
5		CROSSOVER.....	6.000	2.250	0.9	
13		DUAL CIP SAMPLER.....	5.030	0.870	7.7	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	5387.0
80		AP RUNNING CASE.....	5.000	3.060	4.0	5389.0
15		JAR.....	5.030	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	2.5	
70		OPEN HOLE PACKER.....	5.250	1.530	5.8	5403.4
70		OPEN HOLE PACKER.....	5.250	1.530	5.8	5409.2
5		CROSSOVER.....	6.000	2.250	0.9	
3		DRILL COLLARS.....	6.250	2.360	66.8	
5		CROSSOVER.....	5.750	2.250	0.9	
21		PERFORATED TAIL PIPE.....	5.750	3.000	35.0	
81		BLANKED-OFF RUNNING CASE.....	5.750		4.2	5516.2
TOTAL DEPTH						5519.0

EQUIPMENT DATA