

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY30-275-24655
5. LEASE DESIGNATION AND SERIAL NO.

NM 020503

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

MESA PETROLEUM CO.

3. ADDRESS OF OPERATOR

1600 Lincoln, 2800 Lincoln Center, Denver, Colo. 80264

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface

1240'N, 1745'E

At proposed prod. zone

1275'N,

see amendment

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

305.06

17. NO. OF ACRES ASSIGNED
TO THIS WELL

E/ 305.06

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

19. PROPOSED DEPTH

6950'

20. ROTARY OR CABLE TOOLS

ROTARY

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

5869 GL

22. APPROX. DATE WORK WILL START*

November 15, 1979

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15	10 3/4	40.5	300	200
8 3/4	7	20	2400	220
6 1/4	4 1/2	10.5	6950	500

SEE ATTACHMENTS

Gas under this lease is dedicated to a contract.

RECEIVED
OCT 24 1979U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

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

JOHN ALEXANDER

TITLE

AGENT

DATE

October 20, 1979

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

NW4-421 wk 3rd

10000

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-107
Revised 10-1-78

All distances must be from the outer boundaries of the Section

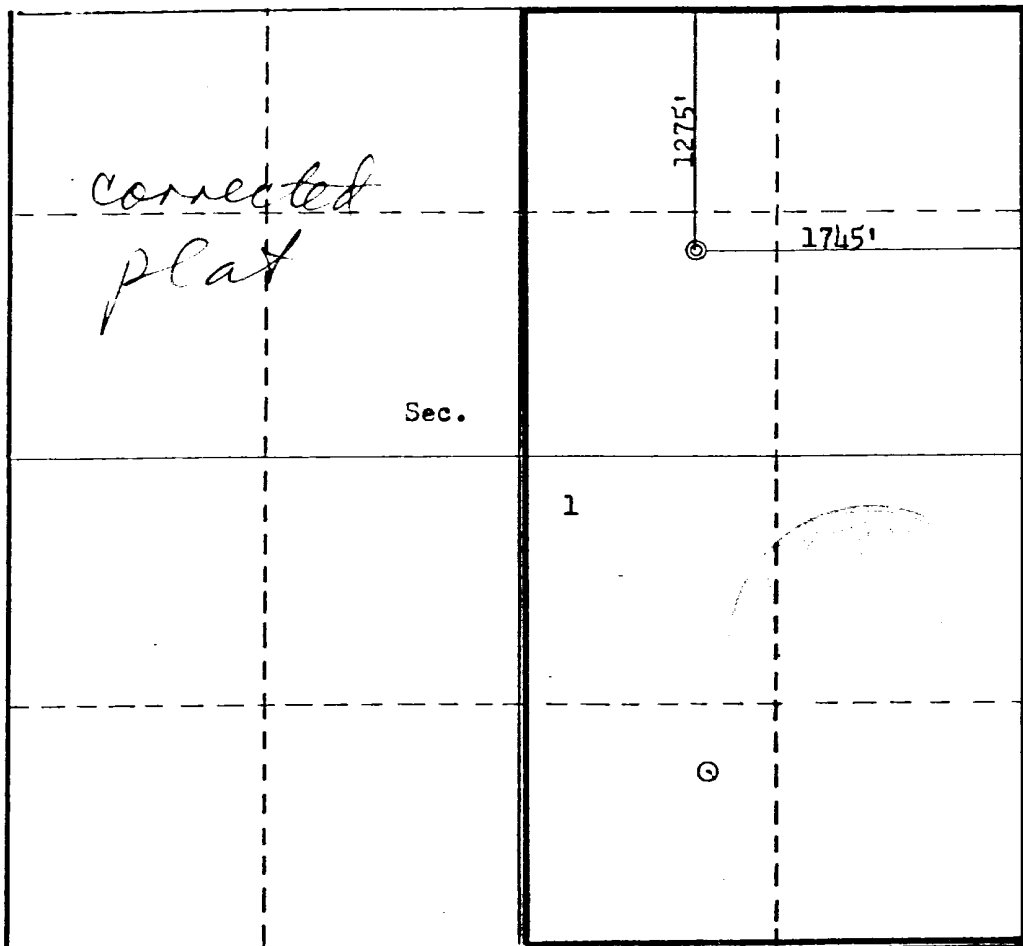
Operator MESA PETROLEUM COMPANY			Lease FEDERAL		Well No. 10-E
Unit Letter G	Section 1	Township 29N	Range 11W	County San Juan	
Actual Footage Location of Well: 1275 feet from the North line and 1745 feet from the East line					
Ground Level Elev. 5876	Producing Formation Dakota	Pool Basin Dakota		Dedicated Acreage: 320 305.06 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commis-



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

John Alexander

Name
JOHN ALEXANDER

Position
AGENT

Company
MESA PETROLEUM CO.

Date
November 14, 1979

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

November 6, 1979
Registered Professional Engineer
and/or Land Surveyor

Fred B. Kerr Jr.
Fred B. Kerr Jr.

Certificate No. **3950**

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
MESA PETROLEUM CO.

3. ADDRESS OF OPERATOR 80264
1600 Lincoln, 2800 Lincoln Center, Denver, Colo.

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 1275'/N and 1745'/E
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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) MOVE LOCATION		

5. LEASE

020503

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

FEDERAL

9. WELL NO.

10E

10. FIELD OR WILDCAT NAME

BASIN DAKOTA

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

1-29N-11W

12. COUNTY OR PARISH

SAN JUAN

13. STATE

NEW MEXICO

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)

5869' GL

(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.)*

The above location does not conform to the 200' from legal subdivision regulation. Mesa has moved the location to 1275'/N and 1745'/E, 1-29N-11W. A correct C-102 is attached.

Subsurface Safety Valve: Manu. and Type

Set @ Ft.

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

SIGNED John Alexander TITLE AGENT DATE

(This space for Federal or State office use)

APPROVED BY TITLE DATE
CONDITIONS OF APPROVAL, IF ANY:

NMOCC

*See Instructions on Reverse Side

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107
Revised 10-1-78

All distances must be from the outer boundaries of the Section.

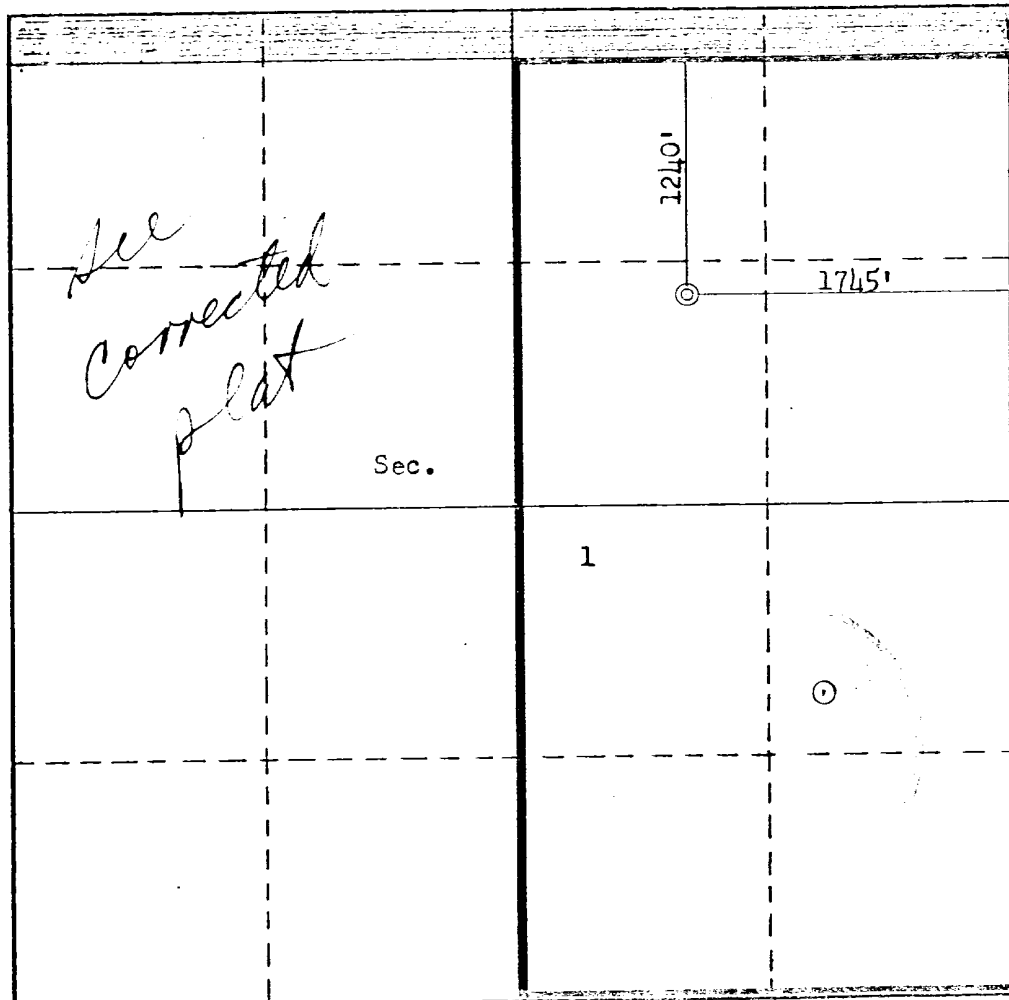
Operator MESA PETROLEUM COMPANY			Lease FEDERAL		Well No. 10-E
Unit Letter G	Section 1	Township 29N	Range 11W	County San Juan	
Actual Footage Location of Well: 1240 feet from the North line and 1745 feet from the East line					
Ground Level Elev. 5869	Producing Formation Dakota		Pool Basin Dakota	Dedicated Acreage 305.060 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

John Alexander

JOHN ALEXANDER

Position
AGENT

Company
MESA PETROLEUM CO.

Date
October 20, 1979

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

July 25, 1979

Registered Professional Engineer
and/or Land Surveyor

Fred B. Kerr Jr.
Fred B. Kerr Jr.

Certificate No. **3950**
F. B. KERR, JR.

MESA PETROLEUM COMPANY

Formation Information and Drilling Practices

WELL:

Federal 10E

LOCATION:

1240'/N and 1745'/E

Sec. 1-T29N-R11W

San Juan Co., NM

LEASE NUMBER:

020503

1. Surface Formation
Nacimiento
2. Estimated Formation Tops

Ojo Alamo	940'	Greenhorn	6520'
Pictured Cliffs	2220'	Dakota	6640'
Cliff House	3810'		
Point Lookout	4560'		
3. Estimated Depth of Anticipated Water, Oil, Gas or Minerals

2220	Gas	4560	Gas
3810	Gas	6640	Gas
4. Proposed Casing Program

0-300'	10 3/4", 40.5#, K-55, ST&C new casing. Cement with 300 sk. class "B" + 2% CaCl ₂
0-2400'	7", 20#, K-55, ST&C new casing. Cement with 120 sk. 65-35 Pozmix w/12% gel and 12½ lb. Gilsonite/sk. followed by 100 sk. Class "B" + 2% CaCl ₂ + 12½ lb. Gilsonite/sk.
2200-6950'	4½", 10.5#, ST&C new liner. Cement to be 500 sk. 50-50 Pozmix w/2% gel and 6½ lb. Gilsonite/sk.
5. Pressure Control Equipment - Blowout Preventer
The attached schematic shows the type of blowout preventer to be used while drilling. The unit will be tested to 800 psi prior to drilling from under surface pipe by pressuring through casing valves with blind ram closed. This procedure will be repeated with the pipe rams closed on a joint of drill pipe. Operation of the hydraulic system will be checked daily.
6. Drilling Fluids

Depth	Type	Vis	Weight	Fluid Loss
0-300	gel-lime	35-45	8.6-9.0	N/L
300-2400	low-solids	30-40	8.6-11.5	10
2400-6950	Air			
7. Auxiliary Equipment
 - a. bit float
 - b. stabbing valve to be used in drill pipe when the kelly is not connected
 - c. rotating drilling head
8. Logging - Coring - Testing

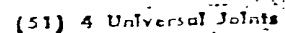
Logging:	Intermediate: IES, FDC/CNL, Caliper, GR Liner: GR-Induction, FDC, Caliper
Coring:	None planned
Testing:	None planned
9. Abnormal Temperatures, Pressures, or Potential Hazards
None expected.

10. Starting Date

Anticipated starting date is November 15, 1979. Approximately 15 days will be needed to build roads, location and drill to total depth. Completion will commence immediately and require approximately 20 days.

(Patented)

PARTS AND DIMENSIONAL ILLUSTRATIONS



Refer to Figs. 43 and 44

Size	Max. Spacing From Nail	Tied From	Vertical Bars	Max. From Side	Approx. Weight Lbs.	A				B	C	D	E	F	G	Covering Ratio	Opening Ratio	U.S. Code Field To Corners	U.S. Code Field To Open Pans		
						Standard Flange		Single												Double	
						Single	Double	Standard Flange	Riveted Flange											Standard Flange	Riveted Flange
12" x 12"	2,000	6.00	7"	7"	2,000	-----	2,000	-----	2,000	25 1/2"	70 1/2"	11 1/2"	14 1/2"	21"	46"	5.8 to 1	1.57 to 1	2.75	2.3		
12" x 12"	2,000	10.00	11"	11"	2,000	-----	2,000	-----	2,000	25 1/2"	70 1/2"	11 1/2"	14 1/2"	21"	46"	5.8 to 1	1.57 to 1	2.75	2.3		
12" x 12"	5,000	10.00	11"	11"	5,000	2,000	7,000	2,000	2,000	25 1/2"	70 1/2"	11 1/2"	14 1/2"	21"	46"	5.5 to 1	1.5 to 1	2.25	2.7		
12" x 12"	5,000	6.00	11 1/2"	11 1/2"	5,000	2,000	7,000	2,000	2,000	25 1/2"	70 1/2"	11 1/2"	14 1/2"	21"	46"	5.5 to 1	1.5 to 1	2.25	2.9		
12" x 12"	5,000	6.00	11 1/2"	11 1/2"	5,000	2,000	7,000	2,000	2,000	25 1/2"	70 1/2"	11 1/2"	14 1/2"	21"	46"	5.5 to 1	1.5 to 1	2.25	2.9		
12" x 12"	5,000	10.00	11 1/2"	11 1/2"	5,000	2,000	7,000	2,000	2,000	25 1/2"	70 1/2"	11 1/2"	14 1/2"	21"	46"	5.5 to 1	1.5 to 1	2.25	2.9		
12" x 12"	5,000	6.00	11 1/2"	11 1/2"	5,000	2,000	7,000	2,000	2,000	25 1/2"	70 1/2"	11 1/2"	14 1/2"	21"	46"	5.5 to 1	1.5 to 1	2.25	2.9		

MESA PETROLEUM COMPANY

Surface Use Plan

WELL:

Federal 10E

LOCATION:

1240'/N & 1745'/E

S.1-T29N-R11W

San Juan Co., NM

LEASE NUMBER

020503

1. Existing Roads (shown in green)
The attached topographic map shows all existing roads within one mile of the proposed location. The access road will join an existing lease road.
2. Planned Access Road
The access road will be approximately 300' long and 20' wide. No turn-outs will be needed. Water bars will be used to aid drainage and prevent erosion. Maximum grade will be about 5%. No fences or cattle guards will be crossed.
3. Location of Existing Wells
All wells (water, oil, gas, disposal and drilling) are shown and so labeled on the topographic map.
4. Location of Tank Batteries, Prod. Facilities, Prod. Gathering & Service Lines
All production facilities are to be contained within the proposed site. Other facilities operated by Mesa are shown on the attached topographic map.
5. Location of Water Supply
Water for drilling will be trucked from Bloomfield, NM approximately 3 miles southwest of the location. Water is privately owned.
6. Source of Construction Materials
Any construction material required for road or location will be excess material accumulated from building such sites.
7. Methods of Handling Waste Disposal (refer to attached well site layout)
All burnable material will be burned in the trash pit when conditions permit. All nonburnable material (drilling fluids, cuttings, chemicals, etc.) will be held in the reserve pit and buried when dry. Any oil produced while drilling will be trucked from the location prior to leaving the pit to dry. Pits will be fenced during dryout time, then completely backfilled with dirt prior to preparing the location for production or abandonment. Material that cannot otherwise be safely disposed of will be carried to a sanitary land fill.
8. Ancillary Facilities
No ancillary facilities are planned.
9. Well Site Layout
The attached layout shows the drilling rig with all facilities. Cut and fill required is also indicated.
10. Plans for Restoration of Surface
Restoration of well site and access road will begin within 90 days of well completion, weather permitting. Should the well be abandoned, the drilling site will be reshaped to its approximate former contour. The

access road will be plowed and leveled. Both site and road will have topsoil replaced and will be reseeded when germination can occur.

Should the well be commercial, that portion of the location, not needed for operation, will be repaired as above. The portion needed for daily production operations, and the access road, will be maintained in good repair.

In either case, clean-up of the site will include burning any safely burnable material, filling of all pits, carrying away of all nonburnable material and chemicals that cannot be buried. Any oil that has accumulated on the pits will be trucked away.

11. Other Information

This well is located about 3 miles northeast of Bloomfield, NM. The area is rugged and covered with sagebrush, yucca, Pinon and Cedar trees. The soil is a sandy clay. Small animals and rodents inhabit the area.

Surface belongs to the Bureau of Land Management. There are no occupied dwellings in the area. No artifacts were noticed .

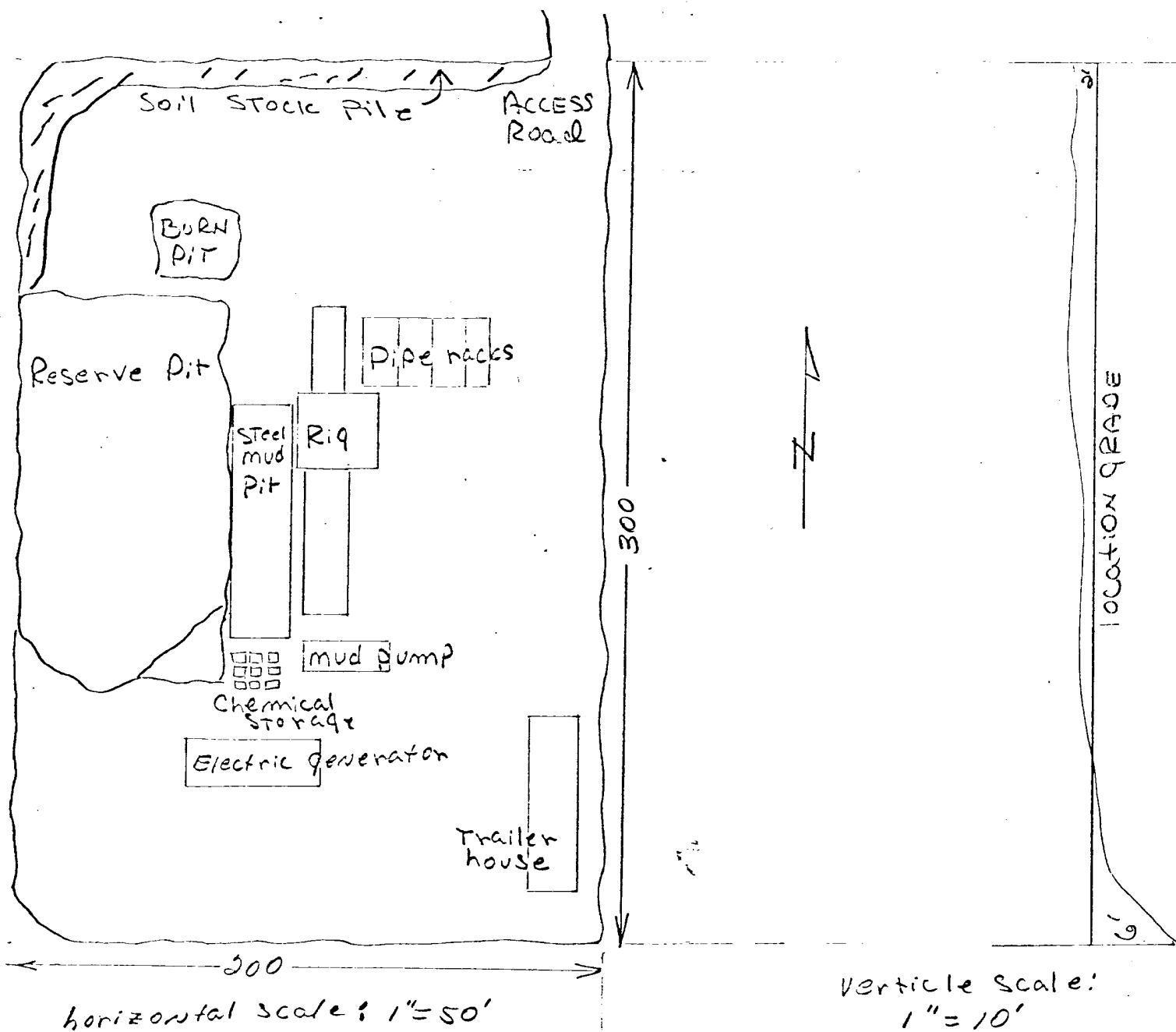
12. John Alexander
3E Company, Inc.
P.O. Box 190
Farmington, NM 87401
Phone: 505-327-4020

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 the 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 Mesa Petroleum Co. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

10-22-79

John Alexander
JOHN ALEXANDER

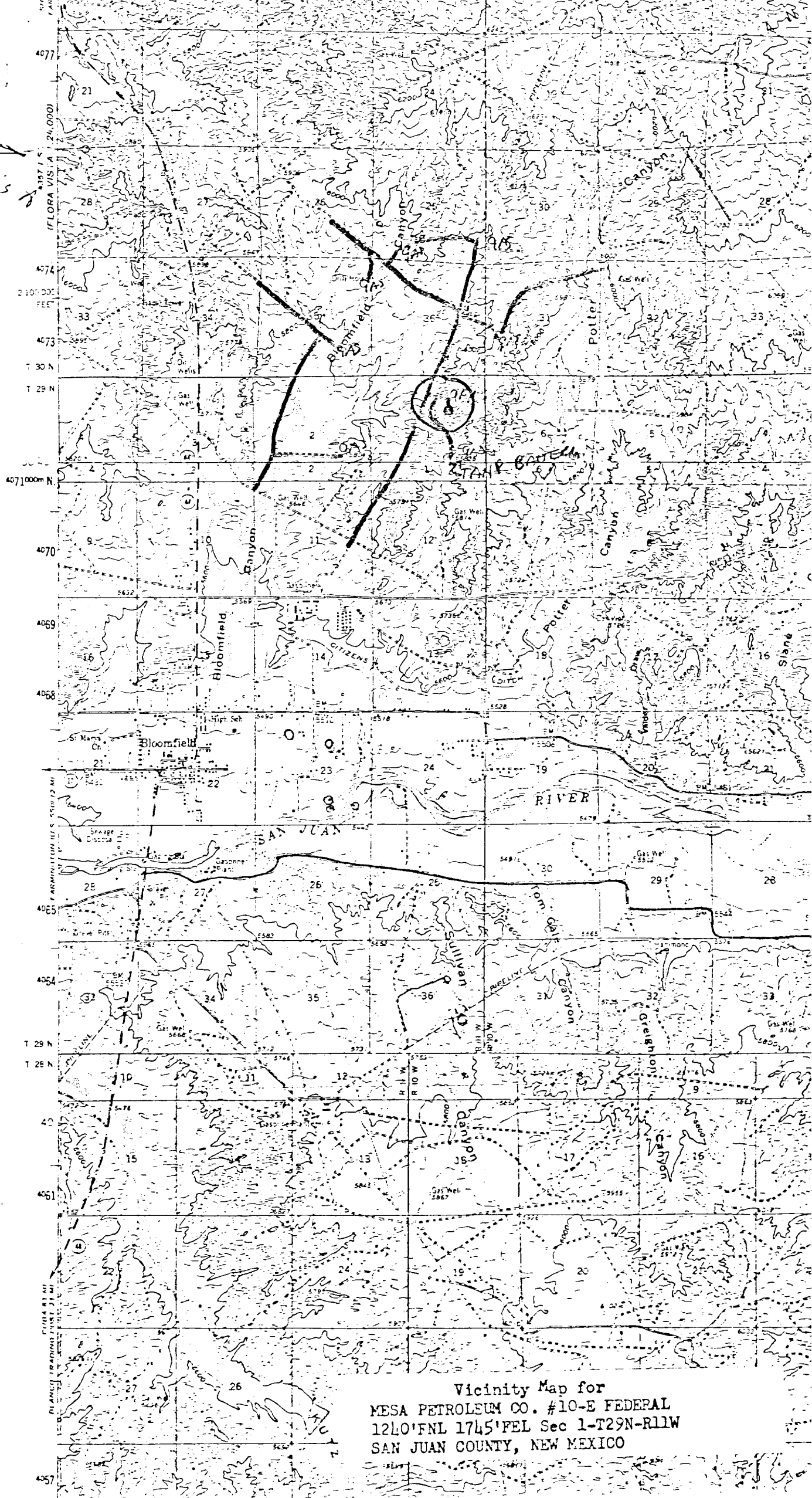
JA:cp



MESA Petroleum Co.
 FEDERAL # 10E
 1240'/N & 1745'/E
 S. 1 - T. 39N - R. 11W
 San Juan Co., N.M.

LOCATION GRADE

Vicinity Map for
 MESA PETROLEUM CO. #10-E FEDERAL
 1240' FNL 1745' FEL Sec 1-T29N-R11W
 SAN JUAN COUNTY, NEW MEXICO



Morris
 2K