

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

| | | | | | |
|--|----------------|-----------------|---------------|---|--|
| 1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> | | | | 5. LEASE DESIGNATION AND SERIAL NO. SF 079968 | |
| b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> | | | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME | |
| 2. NAME OF OPERATOR MESA PETROLEUM COMPANY | | | | 7. UNIT AGREEMENT NAME | |
| 3. ADDRESS OF OPERATOR 1660 Lincoln, 2800 Lincoln Center, Denver, Colorado 80264 | | | | 8. FARM OR LEASE NAME TWIN MOUNDS FEDERAL 33 | |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1760'N & 1785'E G At proposed prod. zone same | | | | 9. WELL NO. 1 | |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* | | | | 10. FIELD AND POOL, OR WILDCAT BASIN DAKOTA-TWIN MOUNDS PC | |
| 15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) | | | | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC. 33, T30N, R14W | |
| 16. NO. OF ACRES IN LEASE 2523.72 | | | | 12. COUNTY OR PARISH SAN JUAN | |
| 17. NO. OF ACRES ASSIGNED TO THIS WELL 320 | | | | 13. STATE NEW MEXICO | |
| 18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 6150 | | | | 20. ROTARY OR CABLE TOOLS ROTARY | |
| 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5468 GR | | | | 22. APPROX. DATE WORK WILL START* March 15, 1980 | |
| 23. PROPOSED CASING AND CEMENTING PROGRAM | | | | | |
| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT | |
| 12 1/4 | 8 5/8 | 24 | 300 | 200 sk | |
| 7 7/8 | 5 1/2 | 15.5 | 6150 | 675 | |

(SEE ATTACHED NARRATIVE SHEET)

GAS UNDER THIS LEASE IS DEDICATED TO A CONTRACT.

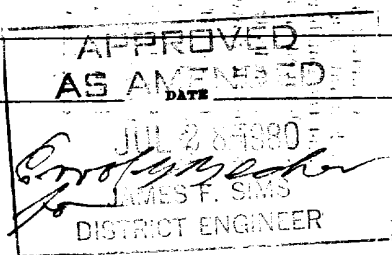
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer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

24. SIGNED John Alexander TITLE AGENT DATE February 19, 1980
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____
CONDITIONS OF APPROVAL, IF ANY:*wh 3 inch*

NMOCC

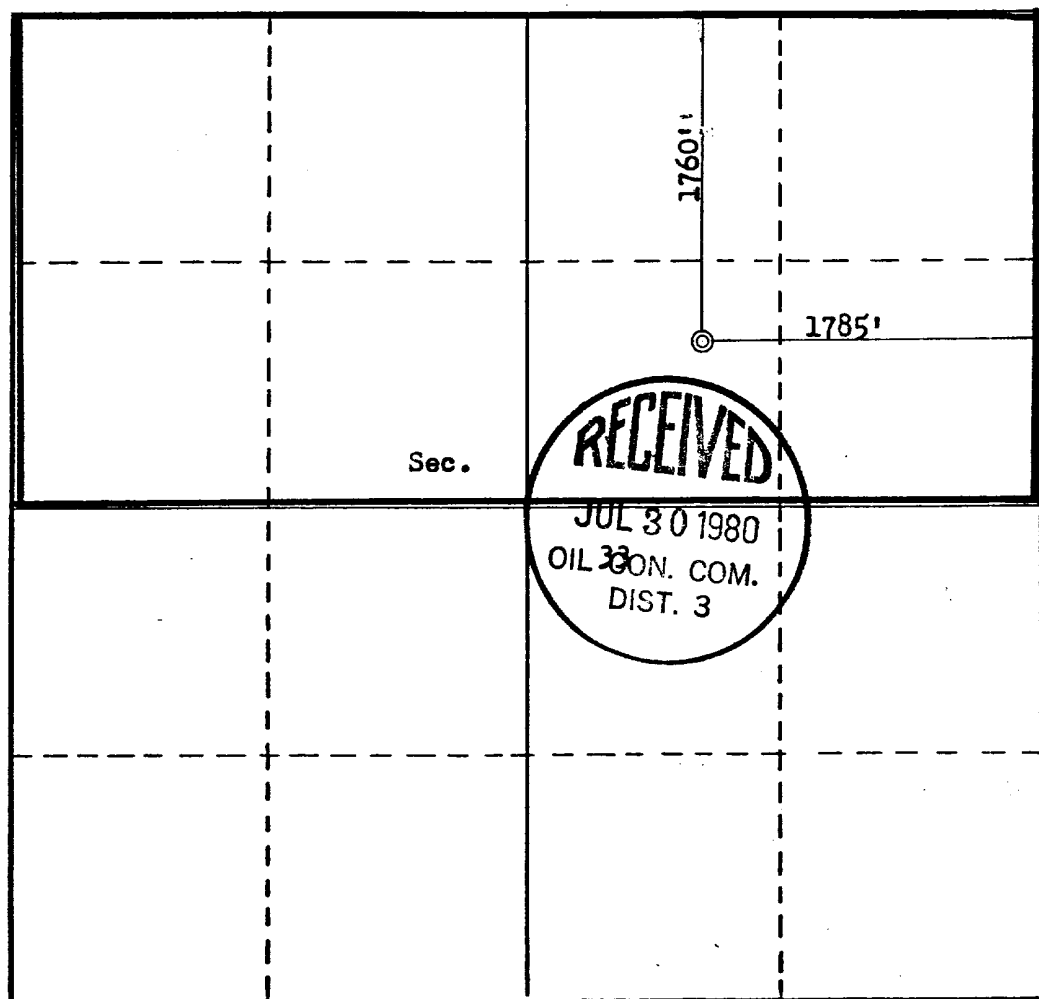


OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-102
Revised 10-1-78

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

| | | | | | |
|---|--------------------------------------|------------------------|--|---------------------------|--|
| Operator MESA PETROLEUM COMPANY | | | Lease TWIN MOUNDS-FEDERAL 33 | | Well No. 1 |
| Unit Letter G | Section 33 | Township 30N | Range 14W | County San Juan | |
| Actual Footage Location of Well: 1760 feet from the North line and 1785 feet from the East line | | | | | |
| Ground Level Elev. 5449 | Producing Formation DAKOTA | | Pool BASIN DAKOTA-TWIN MOUNDS PC | | Dedicated Acreage: 320 Acres |
| <p>1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.</p> <p>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).</p> <p>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?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No If answer is "yes," type of consolidation _____</p> <p>If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____</p> <p>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.</p> | | | | | |



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

Date

February 19, 1980

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

January 25, 1980

Registered Professional Engineer
and/or Land Surveyor

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

Certification No.

3950

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

MESA PETROLEUM COMPANY

FORMATION INFORMATION AND DRILLING PRACTICES

WELL:

Twin Mounds Federal 33 #1

LOCATION:

1760'/N & 1785'/E
Sec.33-T30N-R14W
San Juan Co., NM

LEASE NUMBER:

SF 079968

1. Surface Formation

Kirtland

2. Estimated Formation Tops

| | | | |
|-----------------|------|-----------|------|
| Pictured Cliffs | 1020 | Greenhorn | 5545 |
| Cliff House | 2610 | Dakota | 5645 |
| Point Lookout | 3500 | | |

3. Estimated Depth of Anticipated Water, Oil, Gas or Minerals

| | | |
|----------|------|-----|
| 1020 Gas | 5645 | Gas |
|----------|------|-----|

4. Proposed Casing Program

0-300' 8 5/8", 24#, K-55 ST&C new casing. Cement w/ 200 sks class "B" + 2% CaCl₂

0-6150' 5 1/2", 15.5#, ST&C new casing. Cement 1st stage w/ 325 sks 50-50 Pozmix + 2% gel. Cement 2nd stage 350 sks 50-50 Pozmix + 2% gel. Estimated cement tops 1500'. Stage tool below PC formation.

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 |
| 300-6150 | Low-solids | 30-40 | 8.6-11.5 | 10 |

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

Coring: None planned

Testing: None planned

9. Abnormal Temperatures, Pressures, or Potential Hazards

None expected.

10. Starting Date

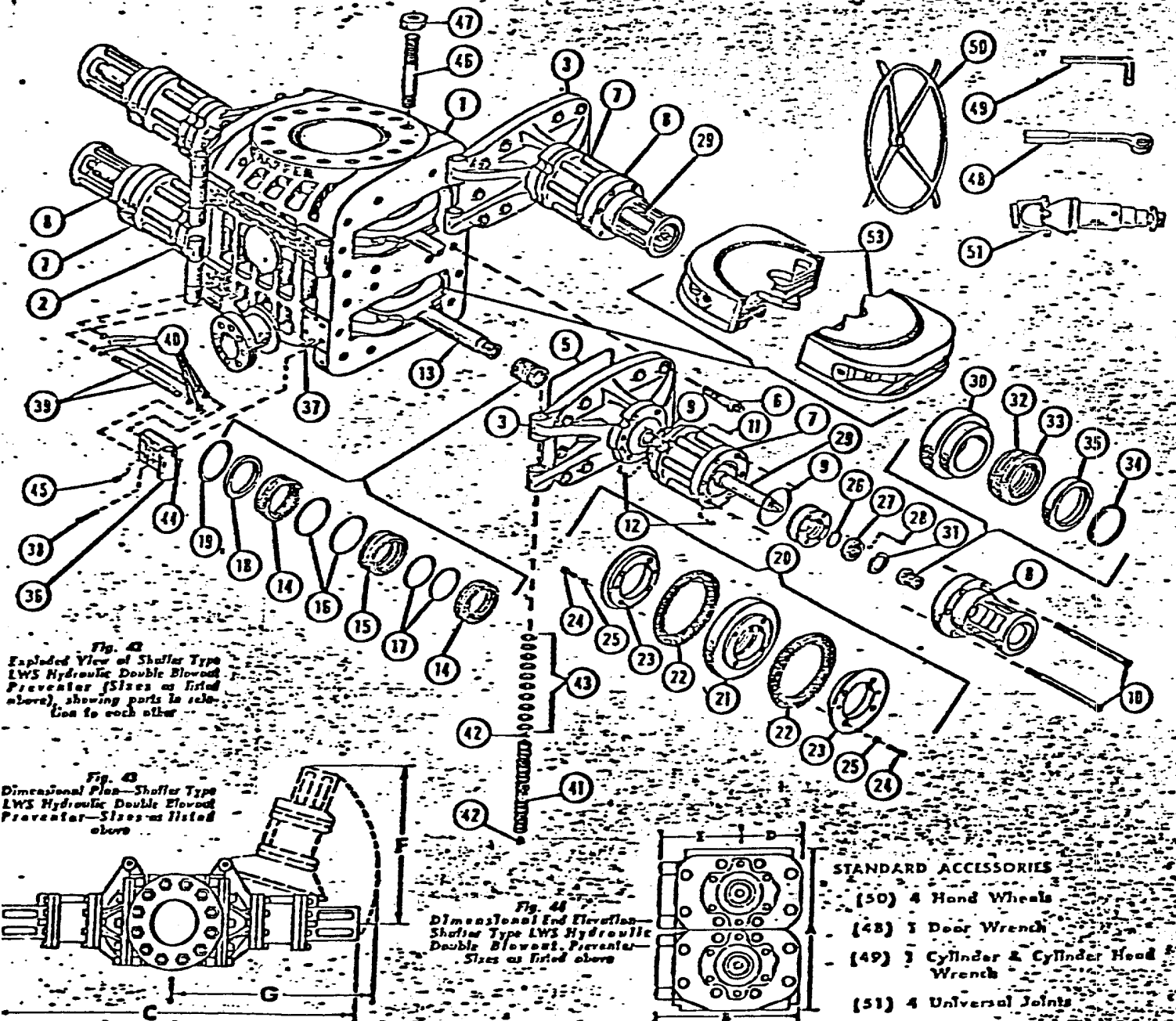
Anticipated starting date is March 15, 1980. Approximately 15 days will be needed to build roads, location and drill to total depth. Completion will commence immediately and require approximately 20 days.

SHAFFER HYDRAULIC BLOWOUT PREVENTERS

(Patented)

TYPE LWS PREVENTERS—8", 3000 lb. & 5000 lb.—10", 5000 lb.
12", 3000 lb.—13 3/4", 5000 lb.—16", 3000 lb.

PARTS AND DIMENSIONAL ILLUSTRATIONS



DIMENSIONAL AND ENGINEERING DATA ON ABOVE SIZES OF TYPE LWS PREVENTERS

Refer to Figs. 43 and 44

| Nom. Size | Nom. Weight Lbs. | Nom. Pressure Psi | Nom. Temp. F. | Nom. Size | Approx. Weight Lbs. | | A | | | | B | C | D | E | F | G | Nom. Weight Lbs. | Nom. Temp. F. | Nom. Size | U.S. Gals. Flg. To Cons. Rms. | U.S. Gals. Flg. To Oper. Rms. | | |
|-----------|------------------|-------------------|---------------|-----------|---------------------|--------|----------------|-----------------|-------|--------|----------------|----------------|-------------------|-------------------|--------------|--------------|------------------|---------------|-----------|-------------------------------|-------------------------------|----------------|-----------------|
| | | | | | Flange | | | | Width | Length | Center To Foot | Center To Year | D. Of Flange Face | D. Of Flange Rims | Gauging Rigs | Opening Size | | | | | | | |
| | | | | | Stalled Flange | | Safe | | | | | | | | | | | | | | | Double | |
| | | | | | Safe | Double | Stalled Flange | Polished Flange | | | | | | | | | | | | | | Stalled Flange | Polished Flange |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.50 | 2.50 | 2.50 | 4.15 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | | |
| 3.00 | 2.00 | 8" | 8" | 2.5 | | | | | | | | | | | | | | | | | | | |

MESA PETROLEUM COMPANY

Surface Use Plan

WELL:-

Twin Mounds Federal 33 No.1

LOCATION:

1760'/N and 1785'/E
Sec.33-T30N-R14W
San Juan Co., NM

LEASE NUMBER:

SF 079968

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 3700' long and 20' wide. No turnouts will be needed. Water bars will be used to aid drainage and prevent erosion. Maximum grade will be about 5%. No fences or cattleguards will be crossed.

3. Location of Existing Wells

All wells (water, oil, gas, disposal, drilling) are shown and so labeled on the attached 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 Aztec, NM, approximately 6 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 be otherwise 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, cleanup 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 in Coolidge Arroyo. The area is rugged and covered with sagebrush and native grasses. 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.

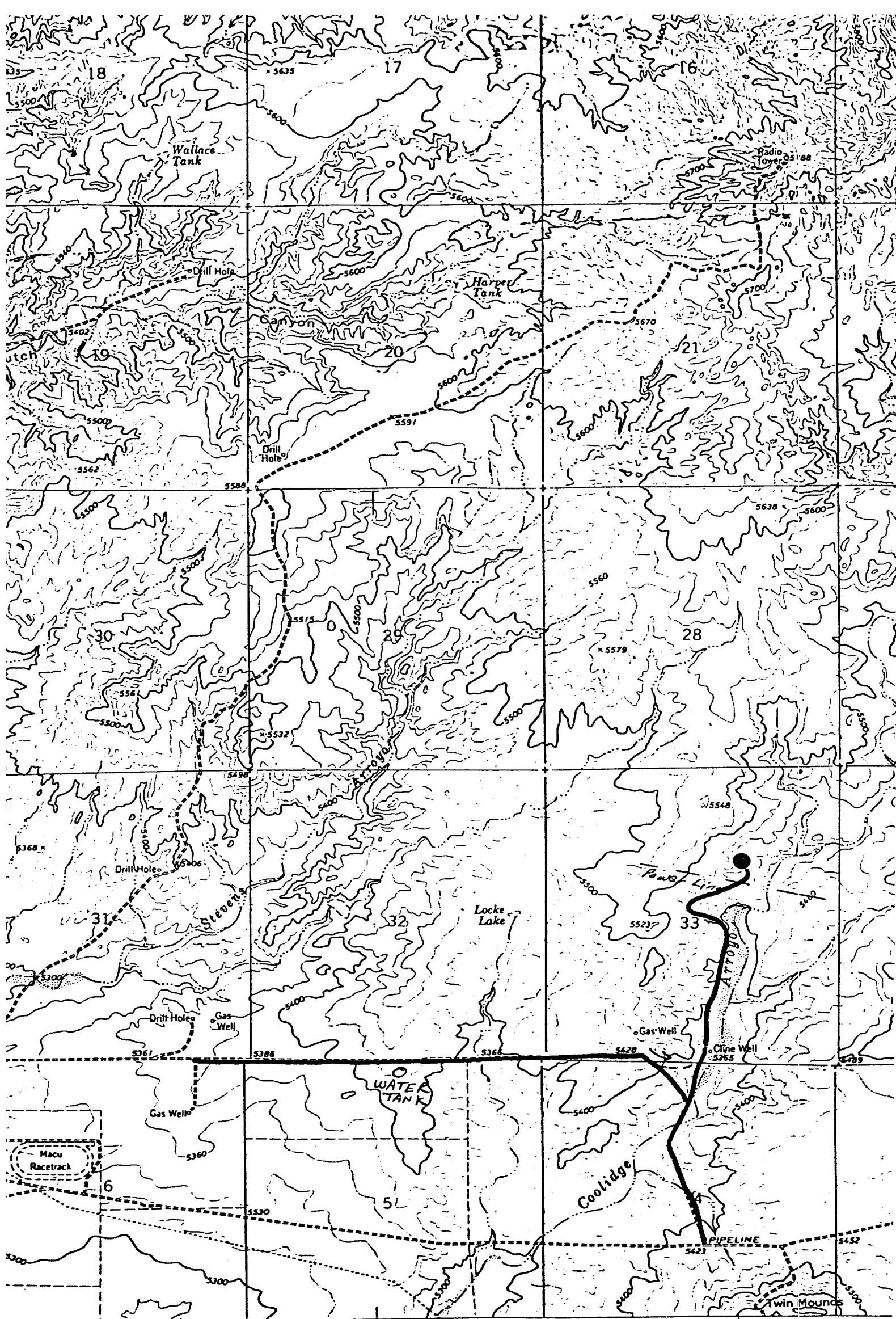
12. John Alexander
3E Company, Inc.
P.O. Box 190
Farmington, NM 87401
Phone: 505-327-4020

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.

2-19-80
DATE


JOHN ALEXANDER

JA:cp



ical Survey
in

Vicinity Map for
MESA PETROLEUM COMPANY #1 TWIN MOUNDS-FEDERAL 33
1760'FNL 1785'FEL Sec 33-T3ON-R14W
SAN JUAN COUNTY, NEW MEXICO

24000

4000 5000 6000

CONTOUR INTERVAL 20 FEET
 DATUM IS MEAN SEA LEVEL

1° 37' 29 MILS 14° 249 MILS

wpst zone