

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY30-045-24783
5. LEASE DESIGNATION AND SERIAL NO.

NM 12233

6. IF INDIAN, ALLIGTEE OR TRIBAL NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

SOUTH BLANCO FEDERAL 25

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

LYBROOK GALLUP EXT

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

25-24N-8W

12. COUNTY OR PARISH

SAN JUAN

13. STATE

NEW MEXICO

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

1660 Lincoln, 2800 Lincoln Center, Denver, Colorado 80264

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

At surface

395' S & 2000' W

At proposed prod. zone SAME

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 drg. unit line, if any)15. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

16. NO. OF ACRES IN LEASE

1080

19. PROPOSED DEPTH

5650

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

ROTARY

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

6873' GL

22. APPROX. DATE WORK WILL START*

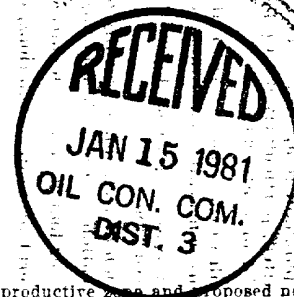
December 20, 1980

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	250	250 sks
7 7/8	4 1/2	10.5	5650	950 sks

(SEE ATTACHMENTS)

GAS UNDER THIS LEASE IS NOT 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 December 5, 1980

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY

for Bruce W. Smith
DIRECTOR OF ENGINEER

NMOCC

ad 3 me

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO

P. O. BOX 2088

Form C-107

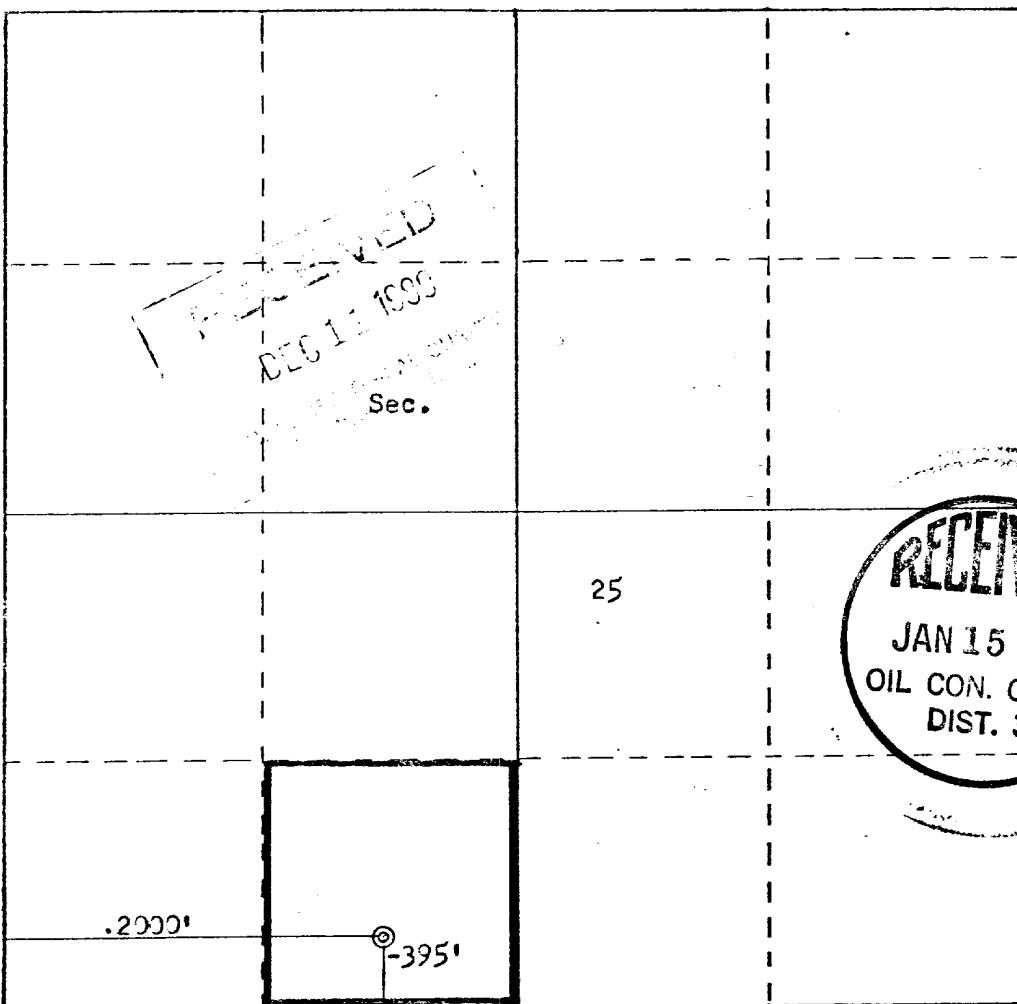
OIL AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

Revised 10-1-78

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

Owner MESA PETROLEUM COMPANY			Lease SOUTH BLANCO-FEDERAL 25		Well No. 2
Unit Letter N	Section 25	Township 21N	Range 8W	County San Juan	
Actual Footage Location of Well: 395 feet from the South line and 2000 feet from the West line					
Ground Level Elev. 6873	Producing Formation GALLUP	Pool LYBROOK GALLUP	Dedicated Acreage 40 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>					



Scale: 1"=1000'

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

December 5, 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

November 5, 1980

Registered Professional Engineer and Land Surveyor

*Fred B. Kerr, Jr.*Certificate No. **3950****FERR, JR.**

FORMATION INFORMATION AND DRILLING PRACTICES

MESA PETROLEUM

SOUTH BLANCO FEDERAL 25 No.2
395'/S & 2000'/W
25-24N-8W
San Juan Co., N.M.

LEASE NO. NM 12233

1. Surface Formation - NACIMIENTO
2. Estimated Formation Tops

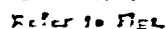
Kirtland	1360	Cliffhouse	3410
Fruitland	1770	Point Lookout	4225
Pictured Cliffs	1900	Gallup	5285
3. Estimated Depth of Anticipated Water, Oil, Gas or Minerals
5285' oil
4. Proposed Casing Program

0-250'	8 5/8" 54# K-55 new casing; cmt to be 250 sks class "B" & 2% CaCl ₂
250-5650	4 1/2", 10.5# K-55 new casing; 1st stage 200 sks Halliburton light followed by 150 sks class "B" w/ 2% gel; 2nd stage 600 sks Halliburton light w/ 6 1/4# Gilsontite/sk. Stage tool to be below Chacra.
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 1000 psi prior to drilling from under surface pipe by pressuring through casing valves w/ blind ram closed. This procedure will be repeated w/ the pipe rams closed on a jt. of drillpipe. Operation of the hydraulic system will be checked daily.
6. Drilling Fluids

Depth	Type	Vis	Weight	Fluid Loss
0-250	gel-lime	35-45	8.6-9.0	N/L
250-5650	low-solids	30-40	8.6-11.5	10
7. Auxiliary Equipment
 - a. bit float
 - b. stabbing valve to be used in drillpipe when kelly is not connected
8. Logging - Coring - Testing Program
 Logging - Open hole: IES, FDC, GR, Caliper
 Testing - None planned
 Coring - None planned
9. Abnormal Temperatures, Pressures or Potential Hazards
There may be abnormal gas pressure in the Fruitland zone. A rotating head and careful mud control should negate this danger.
10. Starting Date
Anticipated starting date is December 20, 1980. Approximately 10 days will be needed to build roads and location and drill well to total depth. Completion will commence immediately and require approximately 20 days.

(Tentative)

PARTS AND DIMENSIONAL ILLUSTRATIONS



Date		Time		Place		Weather		Remarks		Remarks		Remarks		Remarks		Remarks		Remarks		Remarks	
Day	Month	Year	Hour	Minute	Location	Condition	Direction	Force	Observations	Observations	Observations	Observations	Observations	Observations	Observations	Observations	Observations	Observations	Observations	Observations	
1	1	1918	10	15	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
2	2	1918	11	15	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	
3	3	1918	12	15	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	
4	4	1918	13	15	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	
5	5	1918	14	15	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	
6	6	1918	15	15	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	
7	7	1918	16	15	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	
8	8	1918	17	15	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	
9	9	1918	18	15	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	
10	10	1918	19	15	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	
11	11	1918	20	15	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	
12	12	1918	21	15	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	
13	13	1918	22	15	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	
14	14	1918	23	15	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	
15	15	1918	24	15	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	
16	16	1918	25	15	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	
17	17	1918	26	15	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	
18	18	1918	27	15	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	
19	19	1918	28	15	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	

SURFACE DEVELOPMENT PLAN

MESA PETROLEUM

SOUTH BLANCO FEDERAL 25 No. 2
395'/S & 2000'/W
25-24N-8W
San Juan Co., N.M.

LEASE NO. NM 12233

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 State Hwy. 44 as indicated. The existing roads should bear normal drilling operation traffic, and will not have to be upgraded.

2. Planned Access Road (Shown in Red)

The new access road will be about $\frac{1}{4}$ mile long and 20' wide. No turnouts will be needed. Waterbars will be used to aid drainage and prevent erosion; maximum grade will be about 10%. This road follows an existing trail.

3. Location of Existing Wells

All wells (water, disposal, 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 location site. Other facilities operated by Mesa are shown on the attached topographic map.

5. Location and Type of Water Supply

Water for drilling will be trucked from the Chapman's waterhole approximately 1 mile to the south. Water is privately owned.

6. Source of Construction Materials

Any construction material required for road or location will be excess material accumulated from building of such sites.

7. Methods of Handling Waste Disposal

The location of the reserve and burn pit is shown on the attached drillsite layout. All trash and burnable material will be burned in the burnpit when safety permits. All nonburnable material (drilling fluids, cuttings, chemicals) will be stored in the reserve pit and then buried when they have dried. Any oil produced while drilling will be trucked from the location prior to leaving pit to dry out. Pits will be completely fenced during drying time, then backfilled with dirt prior to preparing the location for production or abandonment.

8. A portable chemical toilet will be supplied for human waste.

9. Ancillary Facilities - No ancillary facilities are planned.

10. Wellsite Layout

The attached layout shows the drilling rig with all associated facilities. Cut and fill required is also indicated.

11. Plans for Restoration of Surface

Restoration of the wellsite and access road will begin within 90 days of well completion, weather permitting, and if required by private landowner. Should the well be abandoned, the drilling site will be reshaped to its approximate former contour. The access road will be plowed up and leveled. Both drillsite and road will have any topsoil replaced, and will be reseeded when germination of seeds can take place. In either case, cleanup of the site will include burning of any safely burnable material, filling of all pits, carrying away of all nonburnable material and any chemicals that cannot be safely buried, and the hauling off of any oil that may have accumulated on the pits while drilling.

12. Other Information

The location lies on a very flat area. The area is covered by native grasses and bushes. There are no occupied dwellings on the location. The surface is privately owned. No artifacts or cultural sites were noticed.

13. JOHN ALEXANDER
3E Company, Inc.
P. O. Box 190
Farmington, NM 87401
Phone: 505-327-4020

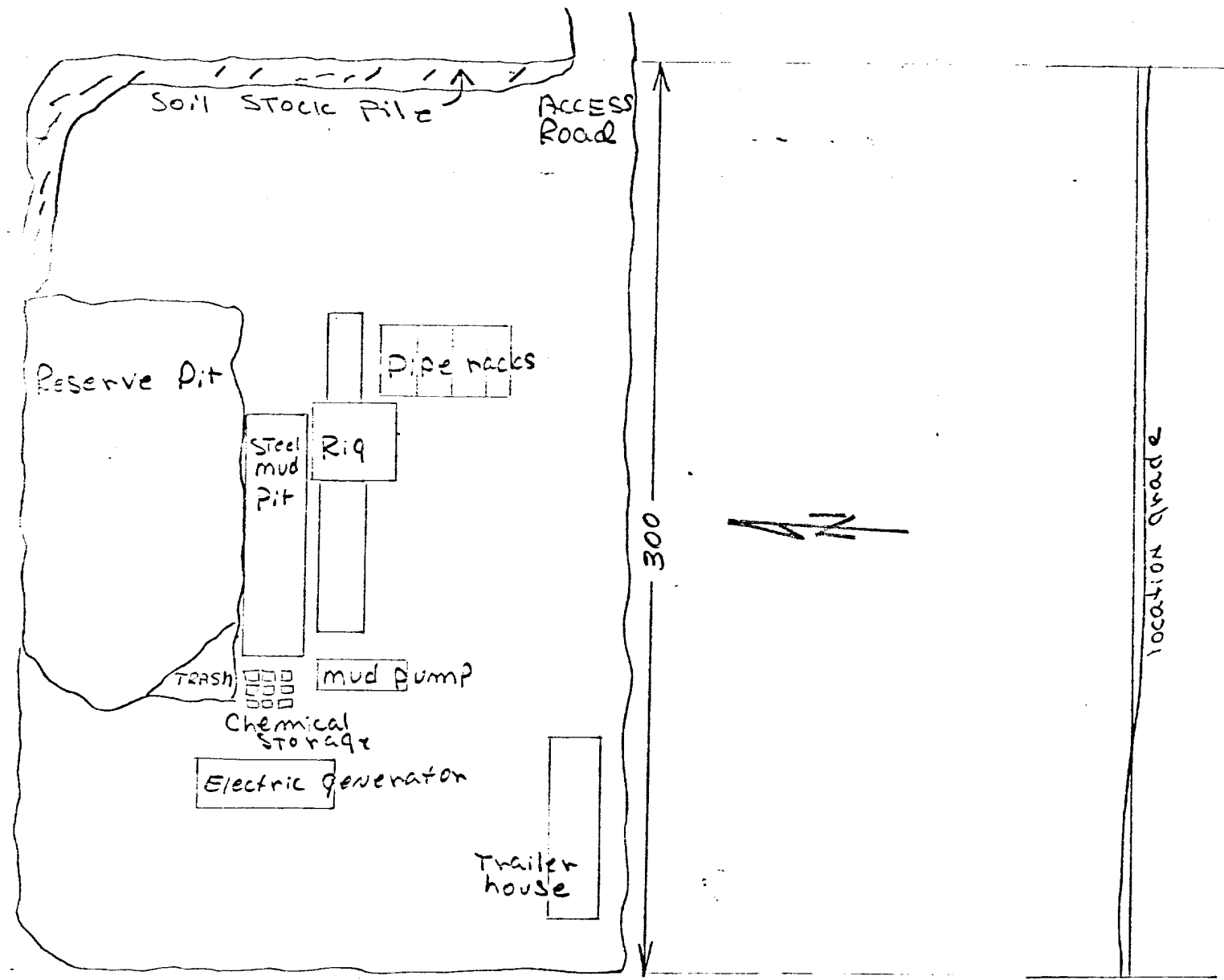
14. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and that the work associated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

December 5, 1980



JOHN ALEXANDER

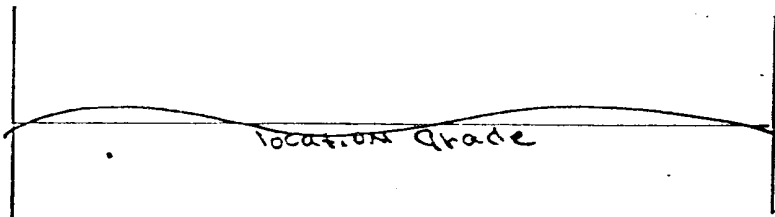
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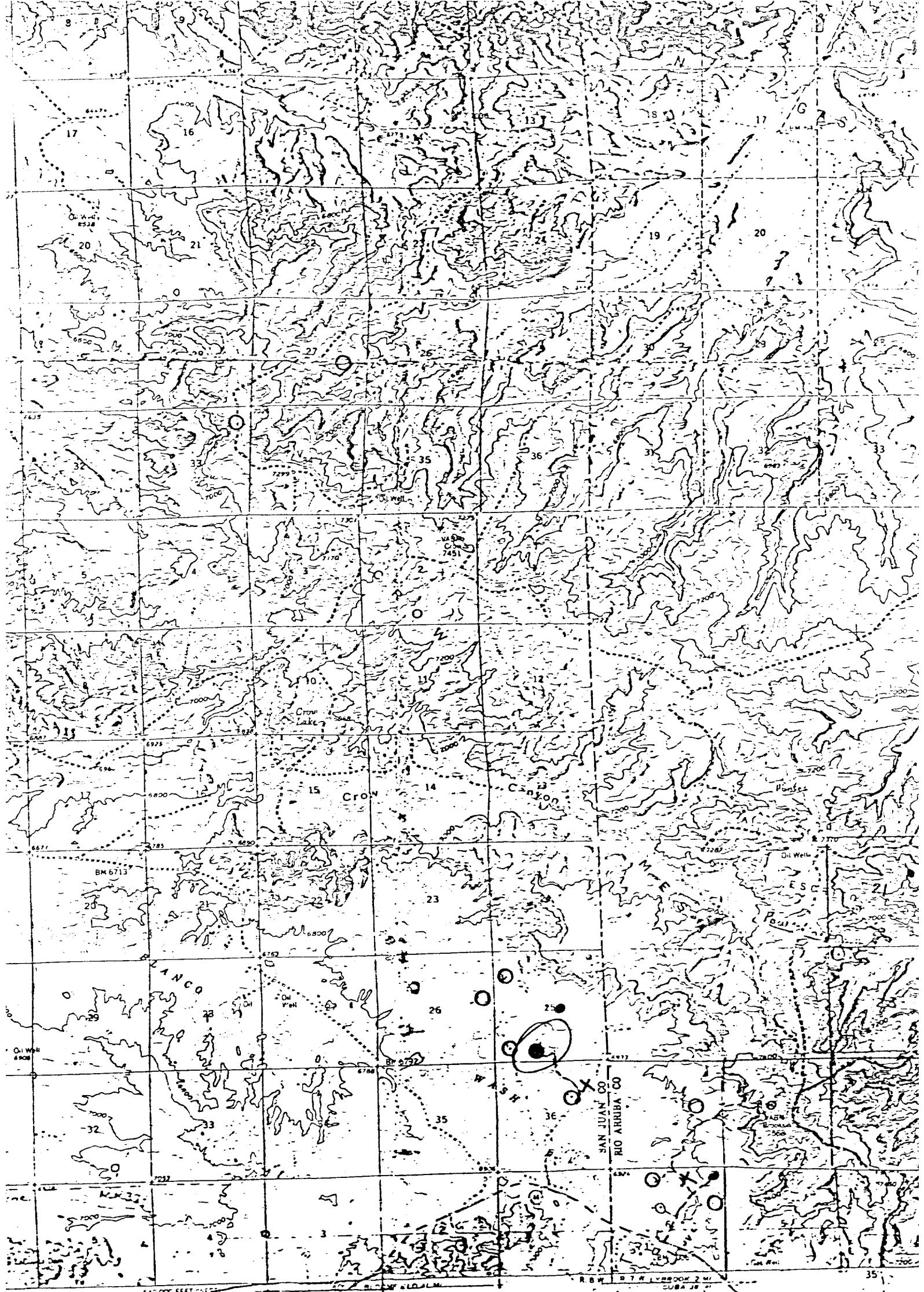


horizontal scale: 1" = 50'

vertical scale:
1" = 10'

MESA Petroleum CO.
South BLANCO Federal 25 #2
SW/4 25-24N-8W
SAN JUAN CO., N.M.





logical Survey

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TRUE NORTH

APPROXIMATE MEAN
DECLINATION, 1959

Vicinity Map for
MESA PETROLEUM CO. #2 SOUTH BLANCO-FEDERAL 25
395' FSL 2000' FWL Sec. 25-T24N-R8W
SAN JUAN COUNTY, NEW MEXICO

● producing well w/ pump
and tanks

X Drilling Well

THIS MAP COMES WITH NATIONAL MAPS AND MAPS OF THE UNITED STATES
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D.C.
A FOLDER DESIGNING, ORIGINATING, MARKING AND PRINTING IS AVAILABLE ON

SCALE 1:62,500

19000 18000 17000 16000 15000 14000 13000 12000 11000 10000 9000 8000 7000 6000 5000 4000 3000 2000 1000 0

5 METERS

1 MILE