

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

MESA PETROLEUM CO.

3. ADDRESS OF OPERATOR

1660 Lincoln, 2300 Lincoln Center, Denver, Colorado 80264

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

At surface

510' S &amp; 660' W

At proposed prod. zone

SAME

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

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

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest dir. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

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

6857 GL

23. PROPOSED CASING AND CEMENTING PROGRAM

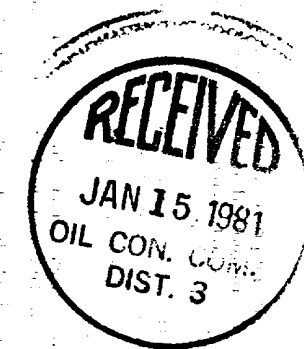
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24	250	250 sks
7 7/8	4 1/2	10.5	5650	950 sks

This casing is to be of administrative

size, 10.5 lb./ft. weight, 100.

(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 Clefander*

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 Bureau Wamsley*  
DISTRICT ENGINEER

NMOCC

*ok 3m*

## OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107  
Revised 10-1-78

STATE OF NEW MEXICO

LAND AND MINERALS DEPARTMENT

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

Lessor MESA PETROLEUM COMPANY			Lease SOUTH BLANCO-FEDERAL 25		Well No. 3
Well Letter X	Section 25	Township 24N	Range 8W	County San Juan	
Actual Footage Location of Well:					
510 feet from the South line and		660 feet from the West line			
Drill Level Elev. 6257	Producing Formation GALLUP	Pool LYBROOK GALLUP	Dedicated Acreage: 40 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 Commission.

Sec.		25	

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

December 11, 1980

Registered Professional Engineer  
and Land Surveyor

*Fred B. Kerr Jr.*

Certificate No. ME-7

3950

FORMATION INFORMATION AND DRILLING PRACTICES

MESA PETROLEUM

SOUTH BLANCO FEDERAL 25 No.3  
510'/S & 660'/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<sub>2</sub>  
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 1/2# 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 csg 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 the well to total depth. Completion will commence immediately and require approximately 20 days.

SURFACE DEVELOPMENT PLAN

MESA PETROLEUM

SOUTH BLANCO FEDERAL 25 No. 3  
510'/S & 660'/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  $\frac{1}{2}$  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 non-burnable 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. Well Site 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 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 gentle southwesterly sloping hill. The area is rugged and covered by native grasses and bushes. There are no occupied dwellings on the location. The surface is federally owned. No artifacts or cultural sites were noticed.

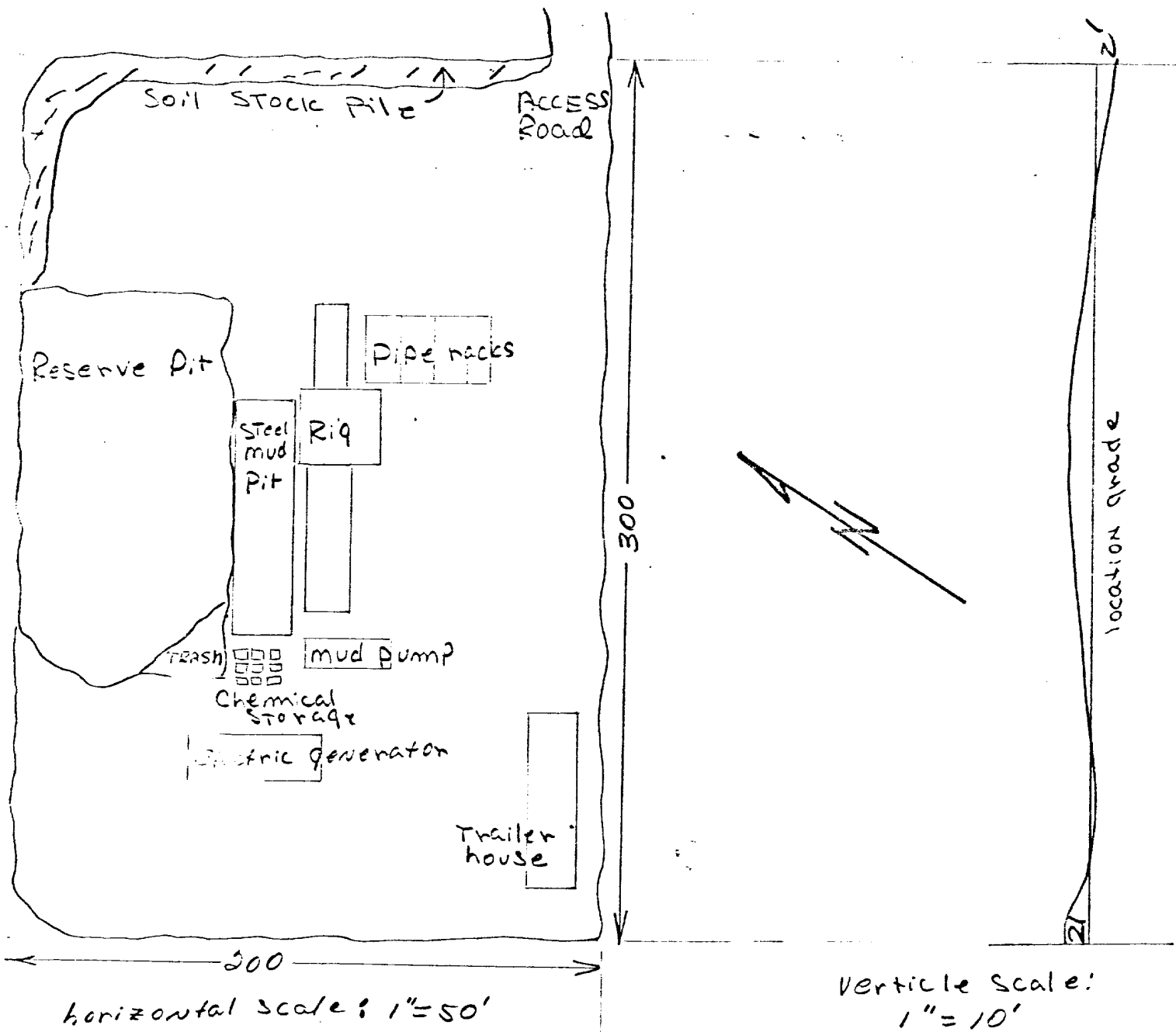
13. JOHN ALEXANDER  
3E Company, Inc.  
P. O. Box 190  
Farmington, NM 87401  
Phone: 505-327-4020

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

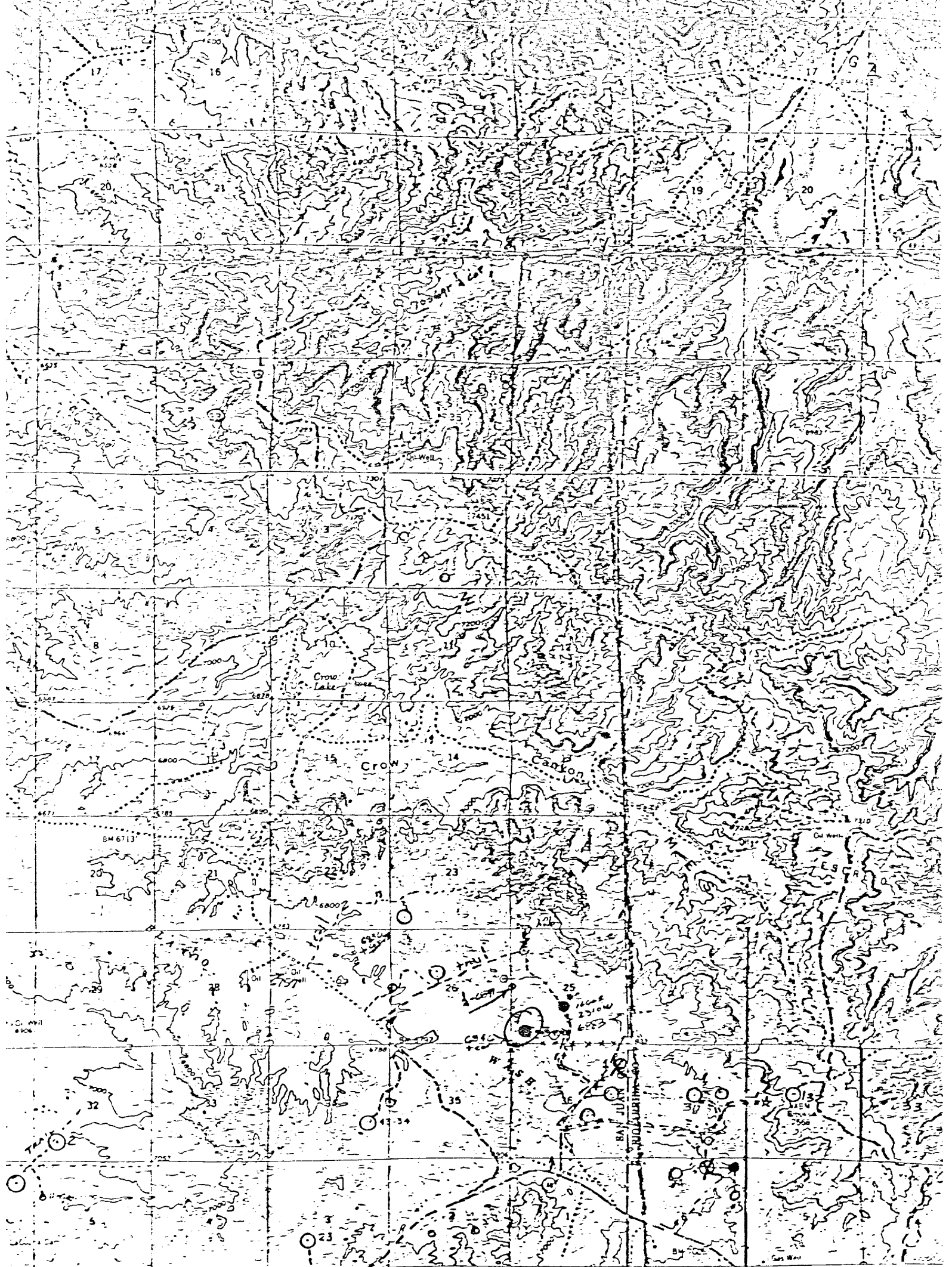
  
JOHN ALEXANDER

JA:cp

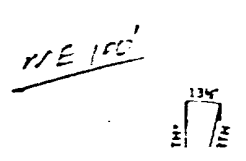


MESA Petroleum CO.  
 South Blanco Federal 25#3  
 SW/4 25-24N-8W  
 SAN JUAN CO., N.M





Local Survey  
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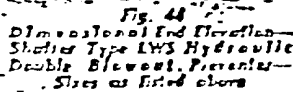


Vicinity Map for  
 MESA PETROLEUM COMPANY #3 SOUTH BLANCO-FEDERAL 25  
 510'FSL 660'FWL Sec. 25-T24N-R8W  
 SAN JUAN COUNTY, NEW MEXICO

• producing well w/tanks  
 x drilling well

A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

## PARTS AND DIMENSIONAL ILLUSTRATIONS



(51) 4 Universal Joints

A hand-drawn diagram of a well head valve assembly. It shows a vertical pipe with a valve in the middle. To the left of the valve, there is a label 'Bull Plug' with an arrow pointing to the pipe. Above the valve, there is a label 'Well head VALVE'. Below the valve, there is a label 'CASING COLLAR' with an arrow pointing to the pipe.

[illegible]