

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, 2800 Lincoln Center, Denver, Colorado 80264

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

At surface 795' S & 715' 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)

16. NO. OF ACRES IN LEASE

600

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

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

19. PROPOSED DEPTH

5700

20. ROTARY OR CABLE TOOLS

ROTARY

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

6841 GL

22. APPROX. DATE WORK WILL START*

December 20, 1980

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	5700	950 sks

(SEE ATTACHMENTS)

GAS UNDER THIS LEASE IS NOT DEDICATED TO A CONTRACT

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO CONDITIONS ATTACHED



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
JOHN ALEXANDER

TITLE AGENT

DATE December 8, 1980

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

James W. Wamby

TITLE

DATE

at 3m

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

No allowance 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.

Scale: 1"=1000'

Certificate No. 3950

FORMATION INFORMATION AND DRILLING PRACTICES

MESA PETROLEUM

WELL: SOUTH BLANCO FEDERAL 23 No. 1
LOCATION: 795'/S & 715'/W
Section 23-T24N-R8W

LEASE NO. NM 20304

1. Surface Formation - Macimiento

2. Estimated Formation Tops

Pictured Cliffs	2000'
Point Lookout	4260'
Gallup	5335'

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

5335 Oil

4. Proposed Casing Program

0-250' 8 5/8", 54# K-55 new casing, cement to be 250 sks class "B" & 2% CaCl₂
250-5700 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#
Gilsonite/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 with blind ram closed. This procedure will be repeated with the pipe rams closed on a joint 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
250-5700	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

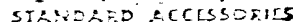
There may be abnormal gas pressure in the Fruitland zone. A rotating head and careful mud control should negate this danger.

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.

(Patented)

PARTS AND DIMENSIONAL ILLUSTRATIONS



- (50) 4 Hand Wrenches
(48) 1 Deep Wrench
(49) 1 Cylinder & Cylinder Head Wrench
(51) 4 Universal Joints

DIMENSIONAL AND ENGINEERING DATA C

No.	Name	Age	A				B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	
			1		2																											
			1	2	1	2																										
1	John Doe	25	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
2	Jane Smith	30	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
3	Robert Johnson	35	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
4	Mary White	40	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
5	William Brown	45	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
6	Elizabeth Black	50	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
7	James Green	55	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
8	Anna Hall	60	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
9	Thomas King	65	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
10	Sarah Lee	70	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

SURFACE DEVELOPMENT PLAN

MESA PETROLEUM

SOUTH BLANCO FEDERAL 23 No. 1

795'/S & 715'/W

23-24N-8W

San Juan Co., N.M.

LEASE NO. NM 20304

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 1 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 topographic map.

5. Location and Type of Water Supply

Water for drilling will be trucked from the Chapman's waterhole, approximately 2 miles 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 burn pit 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. 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 land owner. 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 top soil 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 in a very rugged area with several deep gullies, and very sparse vegetation. There are no occupied dwellings on the location. The surface is federally owned. No artifacts or cultural sites were noticed.

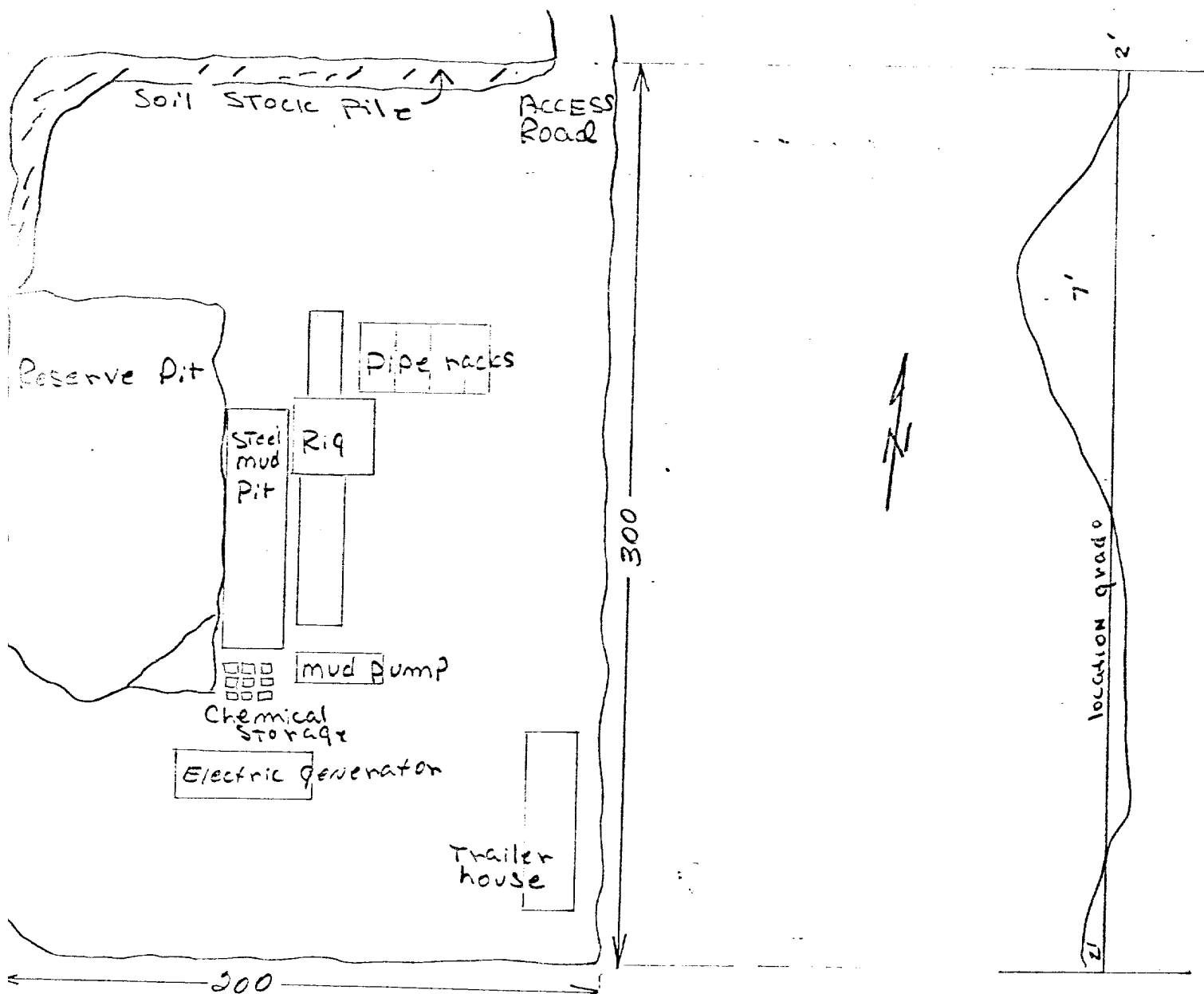
13. JOHN ALEXANDER
3E Company, Inc.
P. O. Box 190
Farmington, NM 87401
Phone: 505-327-4020

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 8, 1980


JOHN ALEXANDER

JA:cp

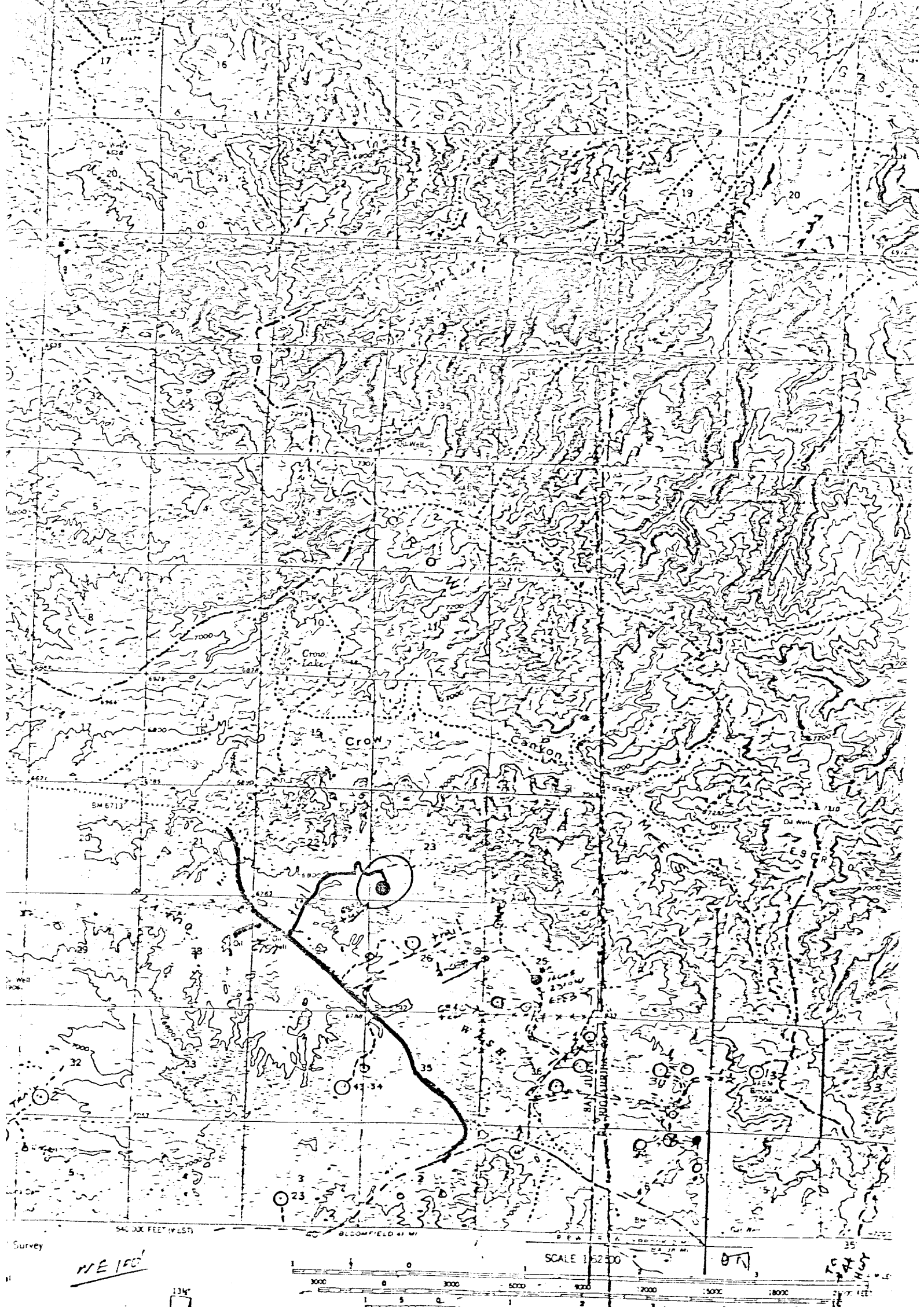


horizontal scale: 1"=50'

Vertical scale:
1"=10'

MESA Petroleum CO.
South Blanco Federal 23 NO. 1
SW/4 23-24N-8W
San Juan Co., N.M.

location grade



Vicinity Map for
MESA PETROLEUM COMPANY #1 SOUTH BLANCO-FEDERAL 23
795' PSL 715' FWL Sec. 23-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
INGTON 25, D.C.