

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-039-225-86

5. LEASE DESIGNATION AND SERIAL NO.
NM 23050

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
SOUTH BLANCO FEDERAL 6

9. WELL NO.
4

10. FIELD AND POOL, OR WILDCAT
LYBROOK GALLUP EXT.

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA
6-23N-7W

12. COUNTY OR PARISH
RIO ARRIBA

13. STATE
NEW MEXICO

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

330'/N & 2310'/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 drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

241.26

18. DISTANCE FROM PROPOSED LOCATION*

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

19. PROPOSED DEPTH

5750

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40.21

20. ROTARY OR CABLE TOOLS

ROTARY

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

6958 GL

22. APPROX. DATE WORK WILL START*

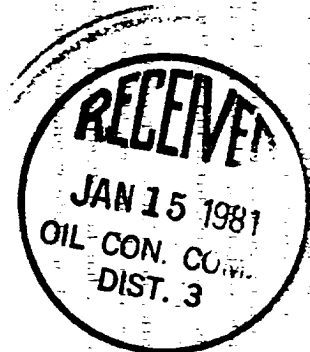
December 20, 1980

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	5750	950 sks
	Directional			

(SEE ATTACHMENTS)

GAS UNDER THIS LEASE IS NOT DEDICATED TO A CONTRACT

DRILLING OPERATIONS AUTHORIZED ARE
SPECIFICALLY LISTED IN THE 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

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 Wansley

Form C-107
Revised 10-1-78

SANTA FE, NEW MEXICO 87501

Operator MESA PETROLEUM COMPANY		Lease SOUTH BLANCO-FEDERAL 6		Well No. 4
Unit Letter C	Section 6	Township 23N	Range 7W	County Rio Arriba
Actual Footage Location of Wells:				
330 feet from the North		Line and	2310 feet from the West	Line
Ground Level Elev: 6958	Producing Formation GALLUP	Pool LYBROOK GALLUP	Dedicated Acreage: 40.21 Acres	

- 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.

2310'

-330'

Sec.

6

RECEIVED
JAN 15 1981
OIL CON. COM.
DIST. 3

Certificado No. 3950

Scale: 1"=1000'

FORMATION INFORMATION AND DRILLING PRACTICES

MESA PETROLEUM

WELL: SOUTH BLANCO FEDERAL 6 #4
LOCATION: 330'/N & 2310'/W
SECTION: 6-23N-7W

RIO ARRIBA CO., N.M.

LEASE NO. NM 23050

1. Surface Formation- Nacimiento
2. Estimated Formation Tops

Pictured Cliffs	2025'
Point Lookout	4425'
Gallup	5400'
3. Estimated Depth of Anticipated Water, Oil, Gas or Minerals

5400' Oil
4. Proposed Casing Program

0-250' 8 5/8", 54# K-55 new casing. Cement to be 250 sks class "B" & 2% CaCl₂

250-5750 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# Gilsomite/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 drill pipe. 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
250-5750	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

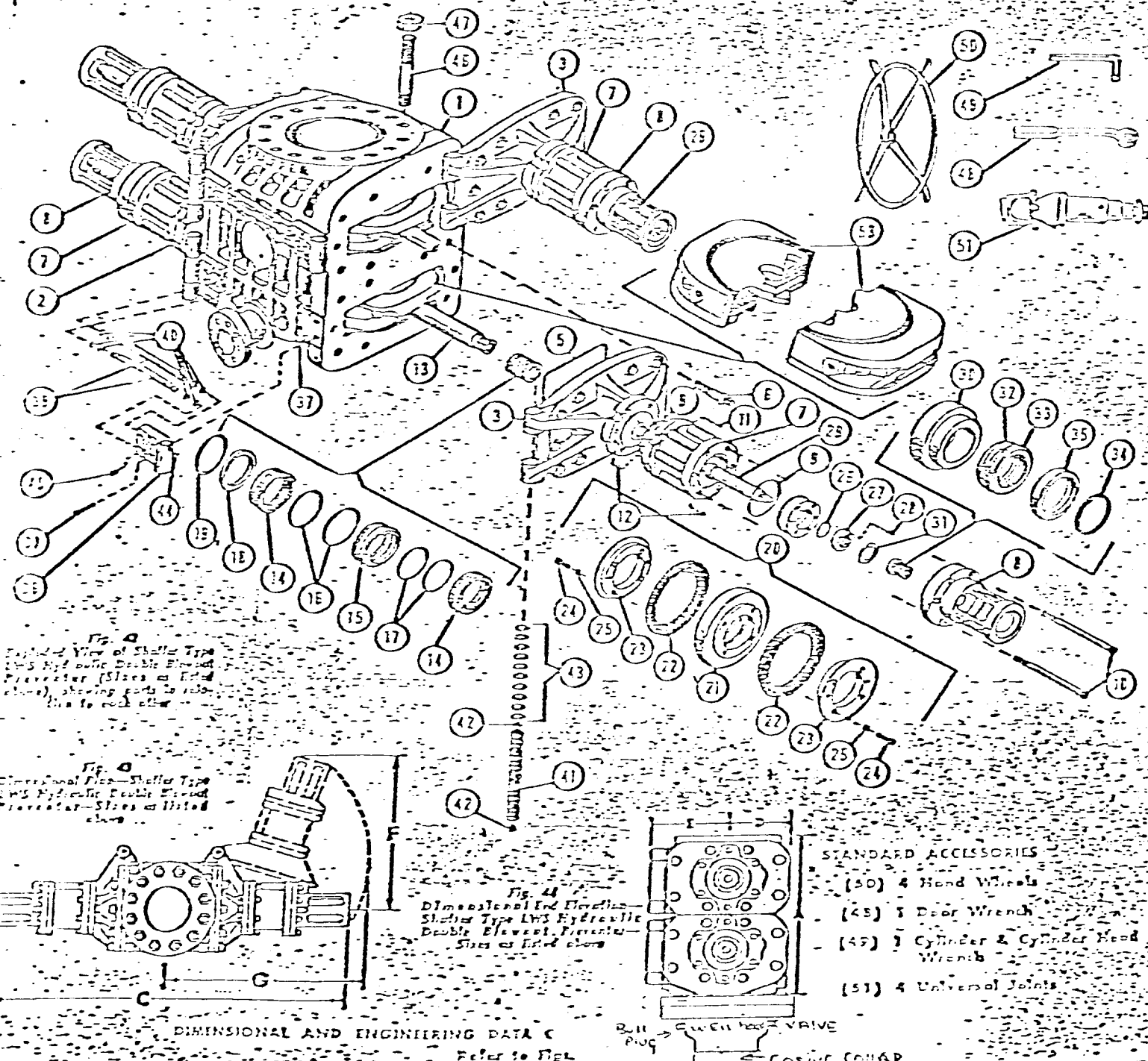
Anticipated starting date is December 20, 1980. Approximately 10 days will be needed to build roads and location, and drill the well to total depth. Completion will commence immediately and require approximately 20 days.

SHAFER HYDRAULIC BLOWOUT PREVENTERS

(Patented)

TYPE LWS PREVENTERS—8", 3000 LB. & 5000 LB.—10", 5000 LB.
12", 3000 LB.—13 1/2", 5000 LB.—16", 3000 LB.

PARTS AND DIMENSIONAL ILLUSTRATIONS



SURFACE DEVELOPMENT PLAN

MESA PETROLEUM

SOUTH BLANCO FEDERAL 6 #4
330'/N & 2310'/W
6-23N-7W

Rio Arriba Co., N.M.

LEASE NO. NM 23050

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. Water bars 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 west. 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 topsoil replaced and will be reseeded when germination of seeds can take place.

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 federally owned. No artifacts or cultural sites were noticed.

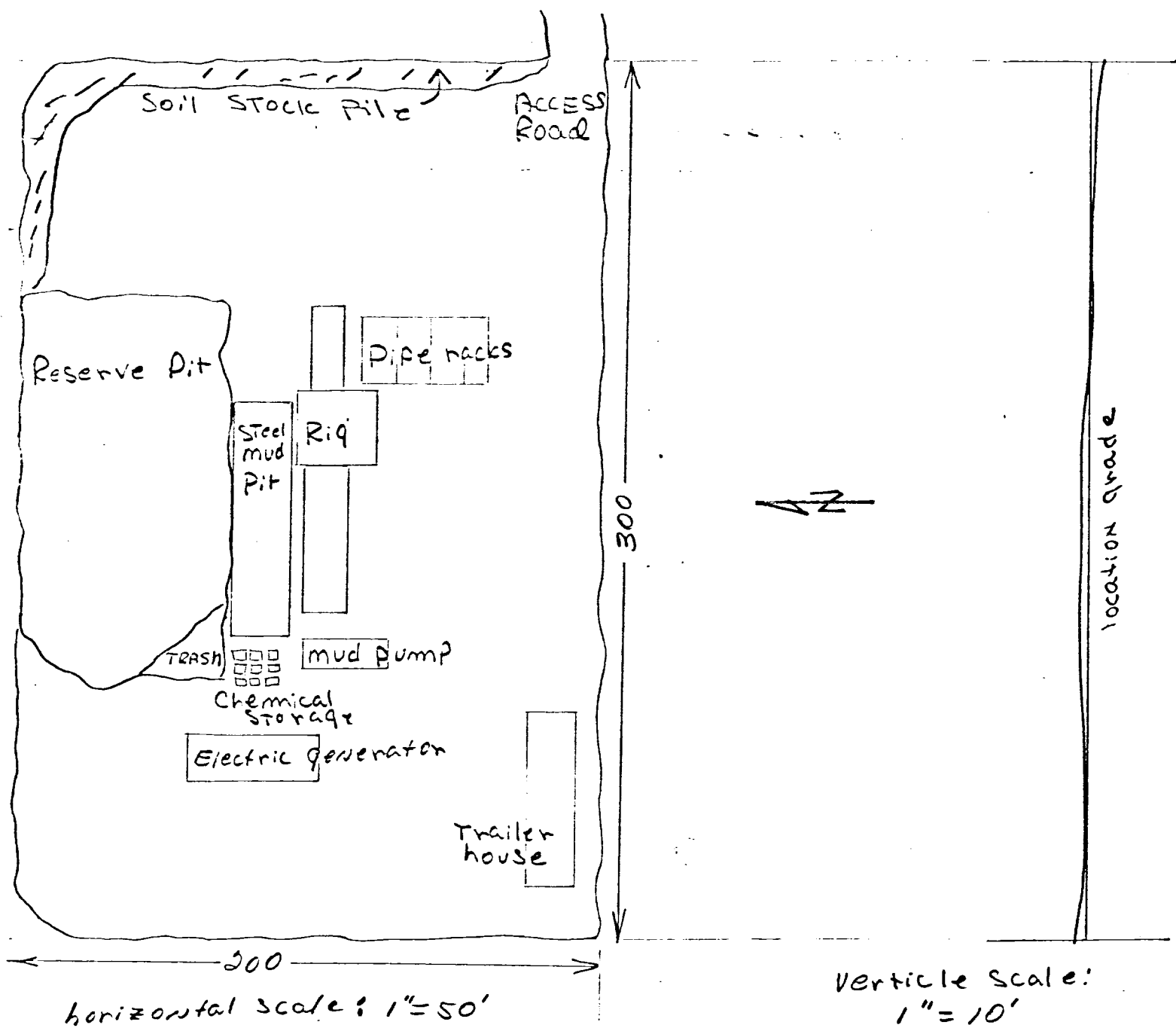
13. John Alexander - 3E Company, Inc.
P.O. Box 190
Farmington, NM 87401
Phone: 505-327-4020

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 6#4
 NW/4 6-23N-7W
 Rio Arriba Co., N.M

