

3E COMPANY, INC.

Engineering • Energy • Exploration

P. O. Box 190 — 505/327-4020

FARMINGTON, NEW MEXICO 87401

February 24, 1978

U.S. Department of Interior
Geological Survey
P.O. Box 959
Farmington, NM 87401

Attention: Mr. P. T. McGrath
District Engineer

RE: Development Plan for
Surface Use
Mesa Petroleum Co.
Suter- 2A
790 FSL & 1650 FEL
Sec. 12, T32N, R11W
Blanco Mesa Verde and
Blanco Pictured Cliffs-EXT.
San Juan Co. N.M.

Gentlemen:

Attached is the "Application for Permit to Drill" (form #9-331C) for the subject well. Also enclosed are the following items: surveyor's plat, drill site plat and vicinity map.

The development plan for surface use is as follows:

Points 1, 3, 4, 6, & 9 Vicinity map and drill site plat attached.

Point 2. Water bars will be used on all roads where necessary.

Point 5. Water for drilling will be trucked from the Cedar Hill approximately 10 miles to the south.

Point 7. A waste disposal pit will be provided for the garbage and trash. Location shown on drill site plat. Drilling fluids will be contained in reserve pit until such time as evaporation occurs and then pits will be covered.

Point 8. No camps or airstrip.

- Point 10. Should the well be a commercial producer, it will be equipped to facilitate producing operations with all drilling pits filled, location leveled and well site reseeded in compliance with current Bureau of Land Management seeding requirements. During dry out time required for the reserve pit it will be fenced to eliminate livestock entry.
- Point 11. This location is on a relatively flat plane on the west side of Cox Canyon. Native grasses and cedar trees cover the area. Access will be gained by an existing road approximately 1/2 mile to the northwest.
- Point 12. 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 Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

2-24-78
DATE

John Alexander
John Alexander

Should further information be desired, please advise.

Yours very truly,

John Alexander
John Alexander

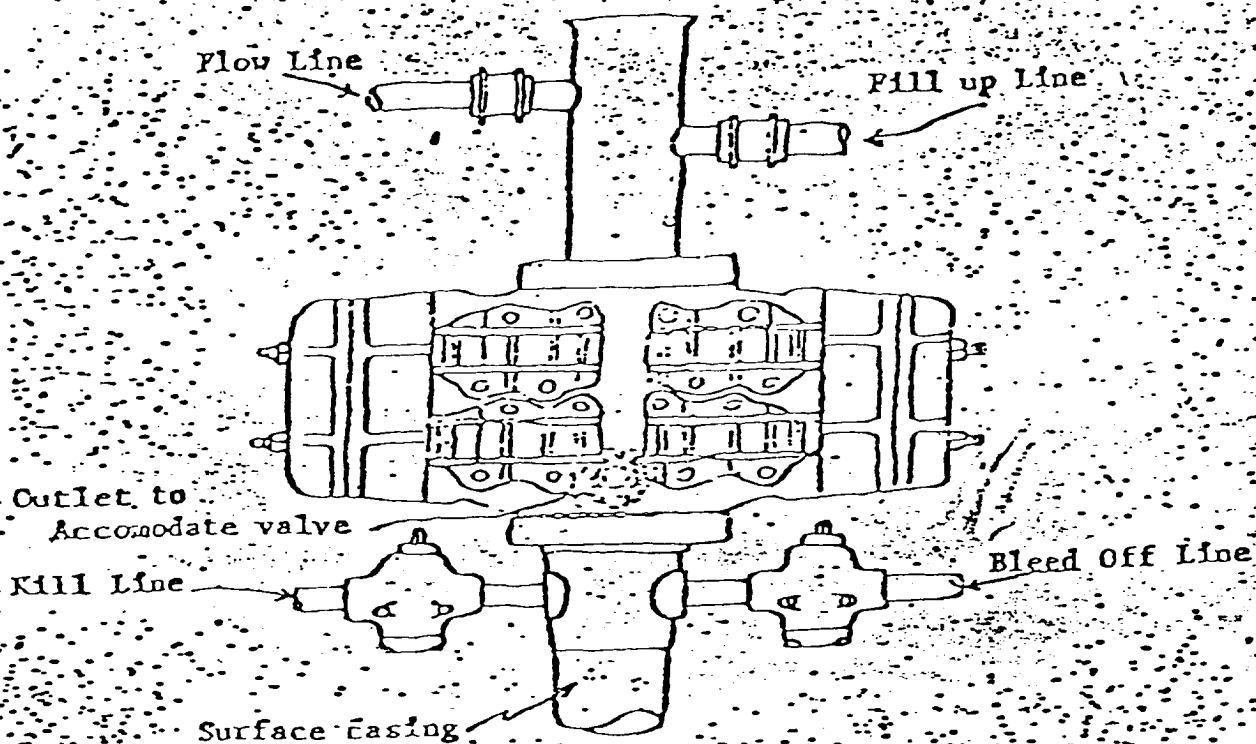
JA:dew

Attachments

Formation Tops
Suter 2A
Sec 12, 32N, 11W
San Juan Co., NM
Elevation: 6422' G.L.

Kirtland	1485'	(+ 4937)
Fruitland	2632'	(+3790)
Pictured Cliffs		
	3111'	(+3311)
Cliff House	5010'	(+ 1412)
Menefee	5078'	(+ 1344)
Point Lookout		
	5402'	(+ 1020)

A



Blowout preventer is Shaffer double hydraulic equipped with drill pipe rams in the top and blind rams in the bottom.

Blowout preventer closing unit is Koomey 30 gallon accumulator unit.

When choke manifold is used, it will be installed downstream from bleed off valve.

Kill line or bleed off line may be installed at flanged opening in blowout preventer.

Well site Plat

← access road

300'

NORTH ↑

earthen
reserve
Pit

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S
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C
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E
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S

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T
S

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P
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E
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L
-
L

R
-
G

TRASH

200'

Scale 1"=40'

Mesa Petroleum Co.
Suter 2A
Sec. 12, 32N, 11W
San Juan Co. NM.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

SF-078-119

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Suter

9. WELL NO.

2A

10. FIELD AND POOL, OR WILDCAT

Blanco Mesaverde

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

Sec. 12, 32N, 11W

12. COUNTY OR
PARISH

San Juan

13. STATE

NM

1a. TYPE OF WELL:

OIL
WELL ☐GAS
WELL ☒DRY ☐

Other _____

b. TYPE OF COMPLETION:

NEW
WELL ☒WORK
OVER ☐DEEP-
EN ☐PLUG
BACK ☐DIFF.
RESVR. ☐

Other _____

2. NAME OF OPERATOR

Mesa Petroleum Co.

3. ADDRESS OF OPERATOR

P.O. Box 2009, Amarillo, TX 79189

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

At surface 790 FSL 1650 FEL

At top prod. interval reported below

same

At total depth

same

14. PERMIT NO.

DATE ISSUED

4/11/78

15. DATE SPUDDED

5/25/78

16. DATE T.D. REACHED

6/2/78

17. DATE COMPL. (Ready to prod.)

7/18/78

18. ELEVATIONS (DF, REB, RT, GR, ETC.)*

6422' GR

19. ELEV. CASINGHEAD

6423

20. TOTAL DEPTH, MD & TVD

5794' KB

21. PLUG, BACK T.D., MD & TVD

5708'

22. IF MULTIPLE COMPL.,
HOW MANY*

2

23. INTERVALS
DRILLED BY

ROTARY TOOLS

CABLE TOOLS

0-TD

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

Pt. Lookout 5450-5694' Menefee 5160-5316'

Cliffhouse 4714-5090'

25. WAS DIRECTIONAL
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

IES, GR/CNL-FDC

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10 3/4	40.5#	227	13 3/4	125 sxs	none
7	26# 32#	3408	8 3/4	220 sxs	none

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4 1/2	3241	5791	325		2 3/8	5617	3300

31. PERFORATION RECORD (Interval, size and number)

5450-5694	84'	1 HPF	.38" dia.
5160-5316	42'	1 HPF	.38" dia.
4714-5090	64'	1 HPF	.38" dia.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL
5450-5694'	1500 gal 15% 84000 gal gel
5160-5316'	800 gal 15% 42000 gal gel
4714-5090'	1100 gal 15% 48000 gal gel

33.*

PRODUCTION

76000 # sd

DATE FIRST PRODUCTION

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)

WELL STATUS (Producing or
shut-in)

Flowing

Shut-in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
7/26/78	4 hrs.	.75"	→	0	532	0	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
254	530	→	0	3193	0		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

Vented

35. LIST OF ATTACHMENTS

Open Flow Tests

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE Staff Engineer

DATE 8/10/78

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysts, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

18. Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 21 and 27. If this was completed for separate production from more than one interval zone (multiple completion), so state in item 24 show the producing interval, or intervals, top(s), bottom (s) and name(s) (if any) for only the interval reported in item 83. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. (See instruction for items 99 and 94 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
				Ojo Alamo	1770'	
				Kirtland	2050'	
				Fruitland	2724'	
				Pictured Cliff	3126'	
				Cliffhouse	5030'	
				Menefee	5090'	
				Point Lookout	5440'	
				Mancos	5770'	