Gmendel location

Form 9-331 C (May 1963)

SUBMIT IN TRIPLICATE®

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

5. LEASE DESIGNATION AND SERIAL BO. NM 5021 18 5 GEOLOGICAL SURVEY 6. IF INDIAN, ALLOTTER OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK F: 2 Ĕ,÷ 1a. TYPE OF WORK 7. UNIT AGREEMENT NAME PLUG BACK DEEPEN DRILL [X] 16. IOL E b. TYPE OF WELL MULTIPLE X Single Zone S. FARM OR LEASE NAME; WELL X OIL WELL OTHER FEDERAL 2. NAME OF OPERATOR 9. WELL NO. MESA PETROLEUM CO. ∵5Ē -3. ADDRESS OF OPERATOR 10. FIELD AND POOL, OR WILDCAT 1660 Lincoln, 2800 Lincoln Center, Denver, Colorado 80264 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) BASIN DAKOTA 11. SEC., T., R., M., OR BLE. 1700'/N & 1700'/W 5-29N-12W At proposed prod. zone 12. COUNTY OR PARISH | 13. STATE 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE® NEW MEXICO SAN JUAN 17. NO. OF ACRES ASSIGNED TO THIS WELL 15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drig. unit line, if any) 16. NO. OF ACRES IN LEASE 199.88 N E 320.21 20. ROTARY OR CABLE TOOLS. 19. PROPOSED DEPTH 18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. ROTAR¥ * 6500 22. APPROX. DATE WORK WILL START* 21. ELEVATIONS (Show whether DF, RT, GR, etc.) March 3,=1980-56411 PROPOSED CASING AND CEMENTING PROGRAM 23. QUANTITY OF CREEKT Ċ. SETTING DEPTH WEIGHT PER FOOT SIZE OF HOLE RIZE OF CASING 200 Chille 300 24 8 5/8 12 1/4 675 6500 155 5 1/2 7/8 (SEE ATTACHMENTS) Gas under this lease is dedicated to a contract. RECEIVED FEB 20 1980 HNGINEER U. S. GEOLOGICAL SURVEY FARMINGTON, N. M. productive IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present producti ve blowout zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measur preventer program, if ny. 24. 1980 AGENT TITLE SIGNED ce for Federal or State office use) (This st PERMIT NO. TITLE APPROVED BY

oh 5mh

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-107 Revised 10-1-78

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

		All distance	s must be fro	m the cuter	houndertre ef	the Section	<u> </u>	<u> </u>		
Cherator				Lease					Well No.	
MESA PETROL	EUM COMPAN	ΓY	FEDE	RAL				5-E		
Unit Letter Section Township				Range County						
F 5 29N				1	2W	San	n Juan			
Actual Footage Loca										
1700	feet from the	North	line and	1	700 fe	et from the	West		line :	
Ground Level Elev.		g Formation		Pool Ber	Echer Ku			1	ated Acreage:	
5641		iko ta		Basi	n Dakota	,	•	3	20.21/160.49 Acres	
	1 -		1.	11 1.51-	and manail	or hachu	e marks on t	he plat	below.	
 Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 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 that dated by co	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? XX Yes No If answer is "yes," type of consolidation									
this form if	necessary.). Je will be as:	signed to the w	ell until al	l interests	have been	consolid	ated (by con	nmunit	(Use reverse side of ization, unitization, oved by the Commis-	
					7C.CE	177		CER	TIFICATION	
17001		Sec•		<i>u.</i> i i i i i i i i i i i i i i i i i i i	FEB 20 B. GEOLOGICA FARMINGTON,		None JOHN A Position AGENT Company MESA I	ALEXAI		
	 - -		5			MAR 1 OIL COI DIS	shown on notes of not	n this p f octual y superv and co lge and l eyed are profes	AED 4980	
		1080 2310 26	40 200	0 1500	1000	500	3950		TERK.	

2000

1500

MESA PETROLEUM COMPANY

Formation Information and Drilling Practices

WELL:

Federal 5E

LOCATION:

1700'/N & 1700!/W Sec.5-T29N-R12W San Juan Co., NM

> LEASE NUMBER: NM 021118

1. Surface Formation

Nacimiento

2. Estimated Formation Tops

Ojo Alamo	215	Point Lookout	4075		
Pictured Cliffs	1720	Greenhorn	6100		
Cliff House	3260	Dakota	6200		

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

1720	gas	4075	gas
3260	gas	6200	gas

4. Proposed Casing Program

0-300' 8 5/8", 24#, K-55, ST&C new casing. Cement w/ 200 sk. Class "B" + 2% CaCl2

0-6500 5½", 15.5# ST&C new casing. Cement 1st stage w/ 325 sk 50-50 Pozmix + 2% gel. Cement 2nd stage 350 sk 50-50 Pozmix + 2% gel. Estimated cement tops 1500'. Stage tool below PC formation.

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 800 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
0-300	Gel-lime	35-45	8.6-9.0	N/L
300-6500	Low-solids	30-40	8.6-11.5	10

7. Auxiliary Equipment

- a. bit float
- b. stabbing valve to be used in drill pipe when the kelly is not connected
- c. rotating drilling head

8. Logging - Coring - Testing

Logging: Intermediate: IES, FDC/CNL, Caliper, GR

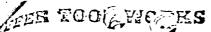
Coring: None planned Testing: None planned

9. Abnormal Temperatures, Pressures, or Potential Hazards

None expected.

10. Starting Date

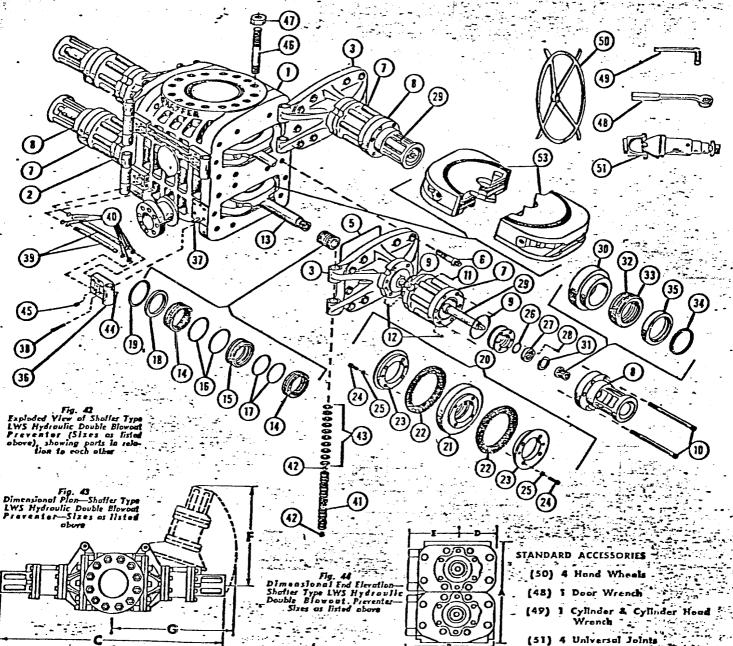
Anticipated starting date is March 1, 1980. Approximately 15 days will be needed to build roads, location and drill to total depth. Completion will commence immediately and require approximately 20 days.



SHAFFER HYDRAULIC BLOWOUT PREVENTERS (Patented)

TYPE LWS PREVENTERS—8", 3000 Lb. & 5000 lb.—10", 5000 Lb. 12", 3000 Lb.—73%", 5000 Lb.—16", 3000 Lb.

PARTS AND DIMENSIONAL ILLUSTRATIONS



DIMENSIONAL AND ENGINEERING DATA ON ABOVE SIZES OF TYPE LWS PREVENTERS
Refer to Figs. 43 and 44

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MESA PETROLEUM COMPANY

Surface Use Plan

WELL:

Federal 5E

LOCATION: 1700'/N & 1700'/W Sec.5-T29N-R12W San Juan Co., NM

LEASE NUMBER:

NM 021118

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 an existing lease road.

2. Planned Access Road

The access road will be approximately 2300 '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 5%. No fences or cattleguards will be crossed.

3. Location of Existing Wells

All wells (water, oil, gas, disposal and drilling) are shown and so labeled on the attached topographic map.

4. Location of Tank Batteries, Prod. Facilities & Prod. Gathering & Service Lines
All production facilities are to be contained within the proposed site. Other
facilities operated by Mesa are shown on the attached topographic map.

5. Location of Water Supply

Water for drilling will be trucked from Aztec, NM, approximately 6 miles southwest of the location. Water is privately owned.

6. Source of Construction Materials

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

7. Methods of Handling Waste Disposal (Refer to attached well site layout)

All burnable material will be burned in the trash pit when conditions permit. All nonburnable material (drilling fluids, cuttings, chemicals, etc.) will be held in the reserve pit and buried when dry. Any oil produced while drilling will be trucked from the location prior to leaving the pit to dry. Pits will be fenced during dryout time, then completely backfilled with dirt prior to preparing the location for production or abandonment. Material that cannot be otherwise safely disposed of will be carried to a sanitary land fill.

8. Ancillary Facilities

No ancillary facilities are planned.

9. Well Site Layout

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

10. Plans for Restoration of Surface

Restoration of well site and access road will begin within 90 days of well completion, weather permitting. Should the well be abandoned, the drilling site will be reshaped to its approximate former contour. The access road will be plowed and leveled. Both site and road will have topsoil replaced and will be reseeded when germination can occur.

Should the well be commercial, that portion of the location not needed for operation will be repaired as above. The portion needed for daily production operations, and the access road, will be maintained in good repair.

In either case, cleanup of the site will include burning any safely burnable material, filling of all pits, carrying away of all nonburnable material and chemicals that cannot be buried. Any oil that has accumulated on the pits will be trucked away.

11. Other Information

This well is located about $1\frac{1}{2}$ miles east of Farmington, NM. The area is rugged and covered with sagebrush, yucca, and Cedar trees. The soil is a sandy clay. Small animals and rodents inhabit the area.

Surface belongs to the Bureau of Land Management. There are no occupied dwellings in the area. No artifacts were noticed.

- 12. John Alexander
 3E Company, Inc.
 P.O. Box 190
 Farmington, NM 87401
 Phone: 505-327-4020
- 13. 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 Co and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

February 19, 1980

DATE

John alexander

JA:cp

