SUBMIT IN TRIPLICATE®

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR

,	<u>ک</u> رید	03	9 -	<u>ت</u>	a	Ξ),	د 'د	/
5.	LEASE	DESIGN	ATION	AND	SER	LAL	30.	

	GEOLO	OGICAL SURVE	Υ		SF-079296, C	
APPLICATION	I FOR PERMIT	TO DRILL, D	EEPEN, OR PLUG	BACK	6. IF INDIAN, ALBET	er or tribe namb E C E.
a. TIPE OF WORK	LL X	DEEPEN [PLUG BA	ACK 🗀	7. UNIT AGREEMENT	HAMP
b. TYPE OF WELL			•	-		
OIL GA	S OTHER		SINGLE X MULT		8. FARM OR LEADER	FAME :
. NAME OF OPERATOR				ن	FEDERAL	
MESA PETROL	EUM CO.			2	9. WRLL RO.	도 보고 : 일본 본 본
. ADDRESS OF OPERATOR			1 00		10. FIRLD AND POOL	OP WILDCAR
1600 Lincol	n, 2800 Lincol	n Center, De	any State requirements.*))264	BASIN DAKOTA	· s -
A + cu = 70.00	'S and 930'/W	u in accordance with	the state of the s	110	11. sec., T., R., M., (R BLK.
_					AND SURVEY OR	AREA
At proposed prod. zone	e SAME				23-26N-6W	į De
4. DISTANCE IN MILES A	AND DIRECTION FROM NE.	AREST TOWN OR POST	OFFICE*	:	12. COUNTY OR PARI	SH 13. STATE
					RIO ARRIBA	NEW MEXICO
5. DISTANCE FROM PROPO LOCATION TO NEAREST	SED*		16. NO. OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL	
PROPERTY OR LEASE L (Also to nearest drig	INE, PT.		1282.68		20 7	<u> </u>
8. DISTANCE FROM PROPO TO NEAREST WELL, DE	OSED LOCATION®		19. PROPOSED DEPTH	20. ROT	ARY OR CABLE TOOLS	
OR APPLIED FOR, ON THE	S LEASE, FT.		7630		ROTARY	WORK WILL START
1. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)			y <u>i</u>	3 44 2 2 1 1	
6709' GL_				- -	<u>December</u>	15, 1979
3.		PROPOSED CASING	G AND CEMENTING PROG	RAM : E		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	OT SETTING DEPTH		QUANTITY OF CE	MENT
12 1/4	8 5/8	24	300	_	200 sk	
7 7/8	5 1/2	15.5 & 17	7630		595	
(SEE ATTACH	this lease is	٨	a contract. EIVE IOV 1 5 1979	en en en general en en todoù le le constant en	NOV 16 OIL COLL	
W ABOVE SPACE DESCRIBE ione. If proposal is to preventer program, if an	drill or deepen direction	r nyonosel is to deem	en or plug back, give data or data on subsurface locations	present pros and measur	ductive sone and project and true vertical d	posed new productive epths. Give blowout
SIGNED JOHN A	Olerando LEXANDER	TIT!	AGENT	· · · · · · · · · · · · · · · · · · ·	DATE NOV	ember 14, 197
(This space for Fede	ral or State office use)			-	<u>.</u>	• :
PERMIT NO.			APPROVAL DATE		•	
					· · · · · · · · · · · · · · · · · · ·	
APPROVED BYCONDITIONS OF APPROV	AL, IF ANT :	TIT:	LE		DATE	

ah Broch

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO **LIVERGY AND MINERALS DEPARTMENT**

P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-102 Revised 10-1-78

		All distant	es muol he fro	m the cuter ho	underies of	the Section	·	
Operator				Lease				Well No.
MESA PETRO	LEUM COMP	ANY		FEDERA	<u>. </u>			12-1
Unit Letter	Section	Township		Range	71	County		
L	23	26N	·	6W		Rio	Arriba	·
Actual Footage Loc	ation of Well:	_						
1620	feet from the	South	line and	930	fee	t from the	West	line
Ground Level Elev.	ŧ	g Formation		Pool				Dedicated Acreage:
6709	Da	kota	· 	Basin 1	Dakota			320 - Acres
1. Outline the	e acreage de	dicated to the	subject we	ell by colored	d pencil o	r hachure	marks on t	he plat below.
interest an	d royalty).							thereof (both as to working
	ommunitizatio	on, unitization. If answer is "	, force-pooli	ng. etc?		nave the	interests o	all owners been consoli-
···	٠٠		,, - , 					
If answer i	s "no," list	the owners an	d tract desc	riptions whic	h have ac	tually be	en consolid	ated. (Use reverse side of
	necessary.).			•		•		
No allowab forced-pool sion.	le will be ass ing, or otherw	signed to the w vise) or until a	vell until all non-standar	interests ha d unit, elimin	ve been o	onsolidat h interest	ed (by con s, has beer	nmunitization, unitization, approved by the Commis-
				1				CERTIFICATION
1	i			į		ĺ		CERTIFICATION
i	i			1]		
	i			I		1	•	certify that the information con- rein is true and complete to the
	` ¦⊙			1			ľ	y knowledge and belief.
	i			i			[[]"	$\wedge \wedge \wedge \wedge$
	i			j 1			Bow	ntlevance
L	+	L		 ! :			1/(cambe	7
	1 — -	_		-1				EXANDER (
	1	ŀ		!			Position	
1	1	l		} 1			AGENT	
	j i			! !			Company	TROI FINA
	İ	ı		i i			MESA PE	INOFFOM
I	i	Sec.		1				r 14,1979
I	1	260.		!			INO A EULDE	1 17, 1717
	1			. 1	7 × 5			
	1		23	/ 1			I hereby	certify that the well location
	1	ı		-/ i			shown on	this plat was plotted from field
I	1	1		, i			notes of	actual surveys made by me or
930'	į L				y (1944)		1	supervision, and that the same
930· • • •	. [•		· ·	and correct to the best of my
	l .				W IS IT	7/ 1	knowledg	e and belief.
H+	-+			4 n=		,		
	ı			NOV 1 5 1	nere na ₹ ₹ €. 0.70			
	!	1		NOV 1 5 19	3/9		Date Surve	yed NANO CV
.0891	l	I	٠ ۾	0001001			Novemb	
76	1 		. %	GEOLOGICAL	Sunv.		and/or fair	Backs of
							Certificat	NOTHED B. KER.
0 330 660 4	0 1320 1650	1980 2310 264	10 2000	1500	1000 84	00 0	3950	ASO B. KERN.

MESA PETROLEUM COMPANY

Formation Information and Drilling Practices

WELL:

Federal 12E

LOCATION:

1620'/S & 930'/W Sec. 23-26N-6W Rio Arriba Co., NM

LEASE NUMBER:

SF-079296 SF-079295

E | V E | NOV 1 5 1979

", GEOLOGICAL SURVE"

1. Surface Formation

Nacimiento

2. Estimated Formation Tops

Ojo Alamo	2334	Point Lookout	5227
Pictured Cliffs	2997	Greenhorn	7172
Cliff House	4678	Dako ta	7382

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

7382 Gas

4. Proposed Casing Program

0-300' 10 3/4", 40.5# K-55 ST&C new casing. Cement w/ 300 sk. class "B" + 2% CaCl₂

0-7630' $5\frac{1}{2}$ ", 15.5# & 17# casing, new ST&C. Cement 1st stage w/ 325 sk 50-50 Pozmix + 2% gel. Cement 2nd stage w/ 170 sk 65-35 Pozmix + 12% gel followed by 100 sk 50-50 Pozmix + 2% gel. Estimated cement top 2300'

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	Туре	Vis	Weight	Fluid Loss
0-300	Gel-lime	35-45	8.6-9.0	N/L
0-7630	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: FDC, GR-Induction, Caliper

Coring: None planned Testing: None planned

NOV 1 5 1979

TO CETTLOGICAL SURVEY

9. Abnormal temperatures, pressures or potential hazards: None expected.

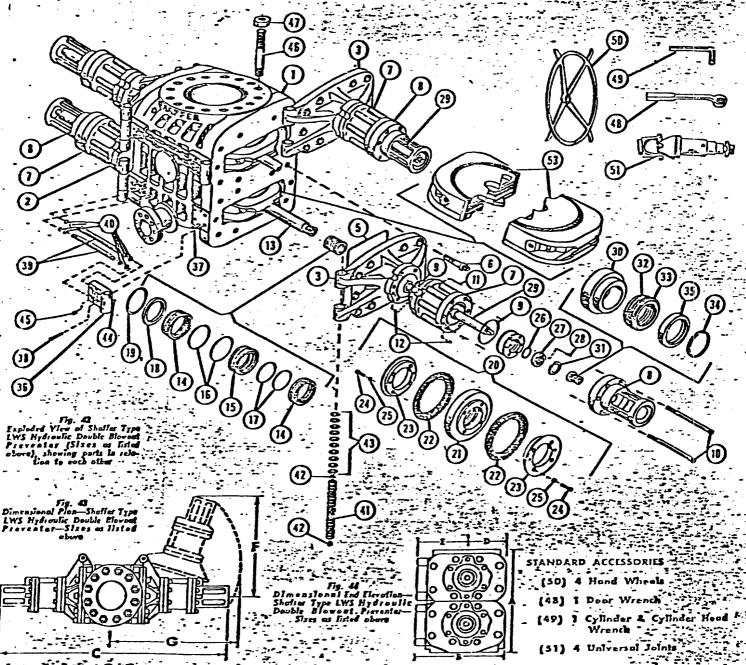
10. Starting Date

Anticipated starting date is December 15, 1979. 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

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

	_						-															
		•			.:::	i	T-A	· .	•	A.	•	3	C	D	E	7	6	1:2.	ا تتريتن	3.		
Ĭ.	_	Nag.					. 1	Approx Works		Hare				1	1		1-	D	3.		ELS.	TLE .
	٠. ا	Fire	Tes	~	3.2	Sindle	l Flants	5.	Se ·	D.	14.	::			١	O	0,-			neil Te	Tiel.	
•	- 1	2.0.5	Porch		7.4		<u> </u>	51.22.4		51-28-2		~>		T.	Te	Quele	Chees.		و ت م	Ch-HI	0,000	
	-	74	7**	2-0	5-4	Sugle	D-132	Plante	Thefe	Looke	Theje	M.50	Leagil	Front	Z-ser	Z-ma	F. + == 5	7.560	Z. Se	Xem)	X ag	
-	11	3,7700		5	1.1	:-	2,930		*	3. X.	4135"	25%	7575	2136"	2455	72"	41"	5.5 to 1	1.17 to 1	2.73	23	
3	- 1		16.000		23.00	5.000	7,000	2436	2136	34.74.	\$ 5.5°	31X.	30××	1114	3674.	# .	48"	55 to 1 25 to 1	127 10 1	2.73 2.25	23	
2.5		3,000		::X	3636	1.50	330 9300			344	4735	2136		"אננו	1111	म् व	H.	532 to 1	127 60 1	125	23	
j	-	3 1000		11:50	1245		2.200	24.76	3536	₩. I	4118	27.75	EX.	11.7.	16.X.	7		1261		25	33 -	

MESA PETROLEUM COMPANY

Surface Use Plan

WELL:

Federal 12E

LOCATION:

1620'/S & 930'/W

23-26N-6W

Rio Arriba Co., NM

LEASE NUMBER:

SF-079296

SF-079295



S. GEOLOGICAL SURVEY

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 300' 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 & 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 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 Ice Canyon waterhole, approximately 7 miles south 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 otherwise be safely disposed of will be carried to a sanitary landfill.

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 operation, 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 3 miles northeast of Gas Company of New Mexico, Dogie Station. 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.

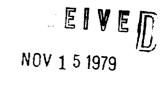
- 12. John Alexander
 3E Company, Inc.
 P.O. Box 190
 Farmington, NM 87401
 Phone: 505-327-4020
- 13. I hereby certify that I or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements 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.

11-15-79

John ALEXANDER

JOHN ALEXANDER

JA:cp



S. GEOLOGICAL SURVEY

