SUBMIT IN TRIPLICATE. (Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

(May 1963)	IINI	TED STATES	5	(Ot	her instruct reverse sid		20 0-	56 75	-95 27		
	DEPARTMEN		5. LBASE DESIGNATION AND SERIAL NO.								
	GEOL		SF-079185	NM-0355	(3						
A DDL ICATION	Y FOR PERMIT			N OR P	LUG B	ACK	6. IF INDIAN, ALL	OTTER OR TRIBE			
	Y FOR PERIMIT	TO DRILL, I	<u> </u>								
. TYPE OF WORK DRI	ILL 🖾	DEEPEN		PL	UG BAC	K 🗆	7. UNIT AGREEM	INT NAME			
TYPE OF WELL	<u> </u>		BIN	IGLE TO	MULTIPI	<u>.</u> - □ =	S. FARM OR LEAS	E NAME.			
WELL W	ELL X OTHER		201	de X	ZONE		FEDERAL				
MESA PETR	OT FIRM CO						9. WELL NO.				
ADDRESS OF OPERATOR	OLEUM CO.		2	13E =	- }						
1600 timesin	4 2	10. FIELD AND P	OOL, OR WILDCA	LT							
LOCATION OF WELL (R	eport location clearly a	nd in accordance wi	th any St	ate requirem	ents.*)	*	BASIN DA				
At surface 180	0'/S & 850'/E				_	~ ÷	11. BEC., T., R., M AND SURVEY	OR AREA			
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DISTANCE IN MILES	AND DIRECTION FROM NI	CAREST TOWN OR POS	ST OFFICE	,=				4	MEXIC		
	Anna		16. NO	OF ACRES IN	LEASE	17. NO.	OF ACRES ASSIGNED		יייעדי		
DISTANCE FROM PROP LOCATION TO NEARES PROPERTY OR LEASE	T					20 2	-320				
(Also to nearest dr)	g. unit line, if any)			240 OPOSED DEPTH	[20. ROT.	ANY OR CABLE TOOL	B - 2 - 17			
DISTANCE FROM PROT TO NEAREST WELL, I OR APPLIED FOR, ON TE	ORILLING, COMPLETED,		7619	5		ROTA	ARY 🖟 🐧				
	nether DF, RT, GR, etc.)		<u> </u>			<u> </u>	22. APPROX. DATE WORK WILL START*				
6710 GL						* =	December	15 1979			
OTTO GE		PROPOSED CASI	ING AND	CEMENTIN	G PROGRA	M = 10					
	SIZE OF CASING	WEIGHT PER	FOOT	SETTING	DEPTH	T 3	QUANTITY OF	CEMENT			
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1). S. GEOLOGICAL SURVEY											
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ABOVE SPACE DESCRIPTION OF ABOVE SPACE DESCRIPTION OF ABOVE SPACE DESCRIPTION OF ABOVE ABO	BE PROPOSED PROGRAM: o drill or deepen directi	onally, give pertine	nt data	on subsurface	locations a	nd measu	red and true vertice	il depths. Giv	e blowo		
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PERMIT NO.				APPROVAL DA	тв						
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APPROVED BY TITLE CONDITIONS OF APPROVAL, IF ANY:											

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OIL CONSERVATION DIVISION

STATE OF NEW MEXICO LINERGY AND MINERALS DEPARTMENT

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

Form C-102 Revised 10-1-78

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Operator			Lease			Well No.
MESA PETRO	LEUN COMPANY		FEDERAL			13-E
Unit Letter	Section	Township	Romge	County		-
I	21	26N	6W	Rio	Arriba	
Actual Footage Loc	ation of Well:					_
1800	feet from the	South line o	nd 850	feet from the	East	line
Ground Level Elev.	Producing For	rmation	Pool		Ded	licated Acreage:
6710	Dakot	2	Basin Da	cota		320 — Acres
	1 1.	ited to the subject	well by colored =	ancil or hachure	marks on the n	lat below.
2. If more the interest ar	an one lease is nd royalty). an one lease of d	dedicated to the v	vell, outline each	and identify the	ownership there	of (both as to working owners been consoli-
If answer this form in No allowal forced-poo	No If a is "no," list the f necessary.)	owners and tract d	e of consolidation escriptions which all interests have	have actually be	ited (by commun	l. (Use reverse side of nitization, unitization, proved by the Commis-
sion.					. 1	
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	 	2:		8501	shown on this notes of acts under my sup is true and knowledge and Date Surveyed November Registered Pro- and/or Land Sy	tify that the well location is plat was plotted from field was plotted from field was surveys made by me or ervision, and that the same correct to the best of my displayed by the survey of the surve
<u> </u>						(Pr. 1/3)
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MESA PETROLEUM COMPANY

Formation Information and Drilling Practices

WELL:

Federal 13E

LOCATION:

1800'/S & 850'/E

Sec.21-26N-6W

Rio Arriba Co., NM

LEASE NUMBER:

SF-079185 NM-03553



1. Surface Formation

Nacimento

2. Estimated Formation Tops

Ojo Alamo	2356	Point Lookout	5216
Pictured Cliffs	3006	Greenhorn	7166
Cliff House	4678	Dakota	7367

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

7367 Gas

4. Proposed Casing Program

0-300' 10 3/4", 40.5#, K-55 ST&C new casing. Cement w/ 200 sk. class "B" + 2% CaCl₂

0-7615' $5\frac{1}{2}$ ", 15.5# & 17# ST&C new casing. Cement 1st stage w/ 325 sk. 50-50 Pozmix w/ 2% gel and 2nd stage w/ 170 sk 45-35 Pozmix w/ 12% gel followed by 100 sk 50-50 Pozmix with 2% gel. Estimated 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
300-76151	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: GR-Induction, FDC, Caliper

Coring: None planned Testing: None planned

9. Abnormal Temperatures, Pressures or Potential Hazards

None expected.

10. Starting Date

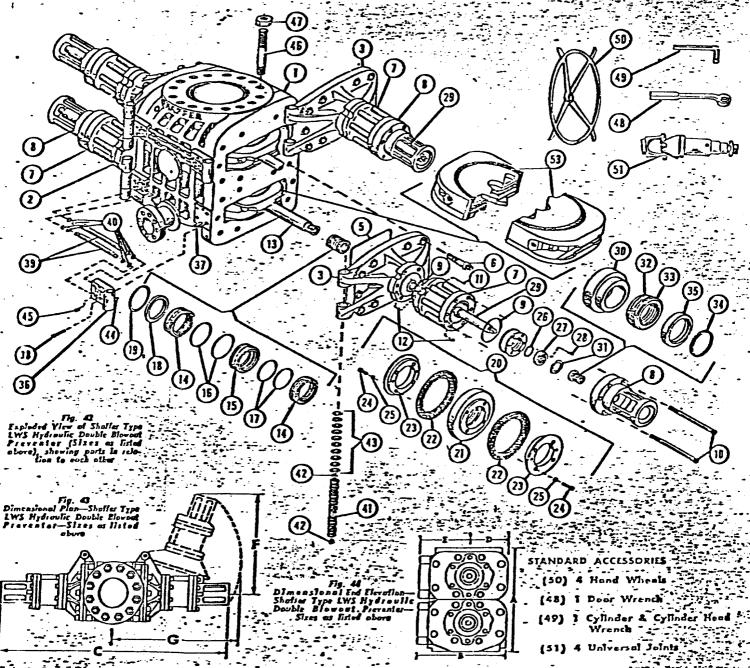
Anticipated starting date is December 15, 1979. Approximately 15 days will be needed to build roads, location and drill to total depth. Completion will commence immediately and require approximately 20 days.



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

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MESA PETROLEUM COMPANY

Formation Information and Drilling Practices

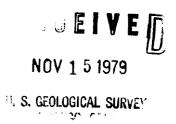
WELL:

Federal 13-E

LOCATION:
1800'/S & 850'/E
21-T26N-R6W
Rio Arriba Co., NM

LEASE NUMBER:

SF-079185 NM-03553



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 800' long and 20' wide. No turnouts will be needed. Water bars will be used to aid drainage and prevent erosion. Max. 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 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 the 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 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 wellsite 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 2 miles north 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 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.

11-15 - 79 DATE John alexander

JA:cp



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Soil Stock Pile Acces	
Reserve Pit Pipe racks Steel Riq Pit	300 -
Chemical Storage Electric generator Trailer house	1000 + 10M
horizontal scale: 1=50'	verticle Scale: 1"=10'
	MESA PETROLEUM CO. FEDERAL 13E
location grade	SE14 21-26N-6WE
	NOV 1 5 1979

S. GEOLOGICAL SURVEY

