### SUBMIT IN TRIPLICATE\*

Form approved. Budget Bureau No. 42-R1425.

30-039-22519 5. LEASE DESIGNATION AND SEBIAL NO.

(Other instructions on reverse side)

UNITED STATES
DEPARTMENT OF THE INTERIOR

	GEOLO	GICAL SURVEY			NM 33005			
APPLICATION	FOR PERMIT	TO DRILL, DE	EPEN, OR PLUG I	BACK_	6. IF INDIAN, ALLOTT	EE OR TRIBE NAME		
a. TYPE OF WORK			PLUG BA		7. UNIT AGREEMENT	NAME		
	LL 🗵	DEEPEN	FLUG BA	:				
OIL X GA			SINGLE MULTII	PLE	8. FARM OR LEASE N	AME		
NAME OF OPERATOR	CLL OTHER			*	SOUTH BLANC	0 31		
MESA PETROLEU	IM CO.				9. WELL NO.			
ADDRESS OF OPERATOR	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				- 1	<u> </u>		
1660 Lincoln	2800 Lincoln	Center, Denve	er, Colorado 8020 ny State requirements.*)	64	10. FIELD AND POOL,	OR WILDCAT		
LOCATION OF WELL (Re	port location clearly and	d in accordance with a	ny State requirements.*)		LYBROOK GAL			
At surrace	2290'/N &	2290'/E			11. SEC., T., R., M., O AND SURVEY OR			
At proposed prod. zon	e				24 2/N 7717	:		
		TOTAL MOUNT ON BOOK O	DELOR*		31-24N-7W 12. COUNTY OR PARIS	SH 13. STATE		
. DISTANCE IN MILES A	ND DIRECTION FROM NEA	REST TOWN OR POST O	LLICE.		RIO ARRIBA	NEW MEXICO		
PROPERTY OF THE PARTY OF THE PA	ern#	1 16	3. NO. OF ACRES IN LEASE	17. No. 0	OF ACRES ASSIGNED	THE THEATON		
5. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE L	ı		160	то т	HIS WELL 40	7		
(Also to nearest drlg	. unit line, if any)		9. PROPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS			
S. DISTANCE FROM PROP TO NEAREST WELL, DI	RILLING, COMPLETED,	1;			ROTARY			
OR APPLIED FOR, ON THE			5900	<u> </u>		WORK WILL START*		
	mer Dr. 161, GR, ecc.)			-	October 15,	1980		
6980 GL 3.		DAUDING GARDON	AND CEMENTING PROGR		10000001 13,	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
·-		PROPOSED CASING	AND CEMENTING PROGR		<u> </u>	· · · · · · · · · · · · · · · · · · ·		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT			QUANTITY OF CEN			
12 1/4	8 5/8	24	250	250 sks CIRCULATE				
7 7/8	4 1/2 :	10.5	5900		950 sks			
	drill or deepen direction	APPRO AS AMEN  OCT 1 4  JAMES F.  DISTRICT ENG	VED NDED 1980	OIL CO	I 5 1980 N. COM. ST. 3  ductive zone and proped and true vertical de	posed new productive		
signed ONHN A (This space for Feder	LEXANDER ral or State office use)	nder TITLE	AGENT		DATE Sept	tember 15, 19		
PERMIT NO.			APPROVAL DATE 1 9.1.	· k - 1 8	V (211)			
			· ·	~~~				
APPROVED BY		TITLE	<u> </u>	Fu, 1	DATE			
CONDITIONS OF APPROV	AL, IF ANY:			MEGLOGICA MINGEON,				
			l					

## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO

### P. O. BOX 2088 NERGY NO MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501

Form C-107 Revised 10-1-78

Louis de la constant		XII GITTALLE IN GOT 14	from the cuter hound		····	1			
Operator MESA PETE	DLEUM COMPANY		Lease MESA_SOUT	TH BLANCE FE	<del>2224</del> 7, 27	Well No.			
Unit Letter	Section Section	Township	Range	County					
G	31	2hn ·	7W	1	Arriba				
Actual Footage Loc		orth line or	ad 2290		East				
Ground Level Elev:	Producing For		Pool	feet from the		line cted Acreage:			
6980	GALI		LYBROOK GALL	LUP	40	Астев			
2. If more th		ted to the subject			_	at below.			
dated by c Yes  If answer this form i	No If an is "no," list the f necessary.)	nswer is "yes;" typ	oling. etc? e of consolidation _ escriptions which h	ave actually be	en consolidated.	(Use reverse side of			
						tization, unitization, coved by the Commis-			
					CE	RTIFICATION			
	i		1			that the information con-			
	1	22901	i i i		l ^	s true and complete to the wedge and belief.			
			<u> </u>		JOHN ALEXA	NDER			
	1				Agent				
	ł			an and a supplemental and	Company MESA PETRO				
		•	2290'		September	10, 1980			
				ALL		y that the well location			
				OCT 15	shown on this p	lat was plotted from field surveys made by me or			
	! !		1 <b>1</b>	OIL CON. CO	is true and co	vision, and that the same			
			REFEIV	ED	knowledge and	THE LETTER OF THE PARTY OF THE			
	! !		SEP 1 7 1	(0)	Date Surveyed  August 27	1980			
		A companied to	U. S. CPOLOCICAL FARYMETON,	SURMIN N. Bil		sional Engineer			
	Scal	e: 1"=1000"			Certificate No.				

### FORMATION INFORMATION AND DRILLING PRACTICES

### MESA PETROLEUM

WELL: South Blanco 31 No.1 LOCATION: 2290'/N & 2290'/E Section 31-24N-7W
Rio Arriba Co., N.M.

LEASE NO. NM 33005

# 1. Surface Formation Nacimiento

### 2. Estimated Formation Tops

Kirtland	1560 <b>'</b>	Point Lookout	4420°
Fruitland	2000'	Mancos	4675 <b>'</b>
Cliffhouse	3620 <b>'</b>	Gallup	5460 <b>1</b>

### 3. Estimated Depth of Anticipated Water, Oil, Gas or Minerals - 5460' oil

### 4. Proposed Casing Program

0 <b>-</b> 250 <b>'</b>	8 5/8", 54 $\#$ , K-55 new casing. Cement to be 250 sks class "B" & 2% CaCl2
250 <b>-</b> 5900 <b>'</b>	4 1/2", 10.5# K-55 new casing. First stage 200 sks Halliburton light followed by 150 sks class "B" w/ 2% gel. 2nd stage 600 sks Halliburton light w/ $6\frac{1}{4}$ # Gilsonite/sk. Stg tool to be

### 5. Pressure Control Equipment - Blowout Preventer

below Chacra.

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 drillpipe. 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 <b>-</b> 5900	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 and 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

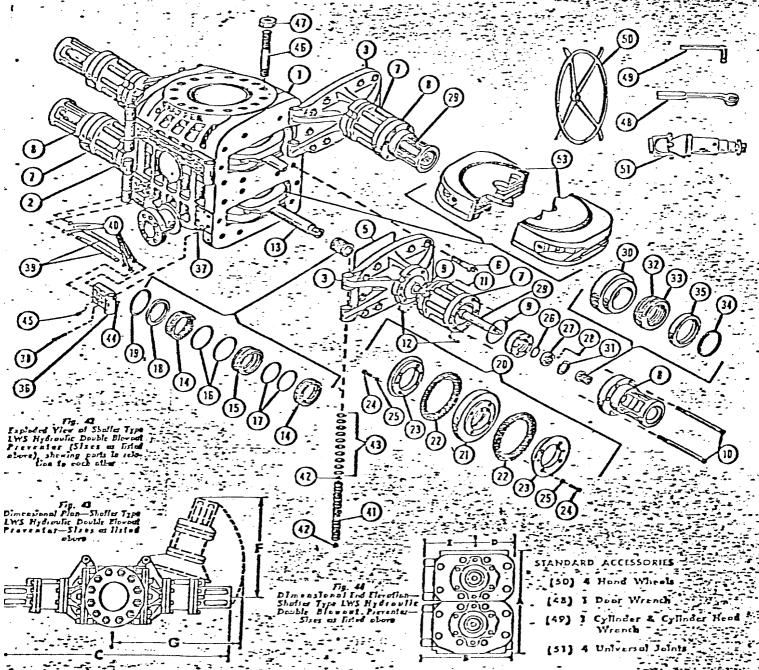
Anticipated starting date is October 15, 1980. Approximately 10 days will be needed to build roads and location and drill the well to total depth. Completion will commence immediately and require approximately 20 days.

U. O. STOLOGICAL CLUIVE FARMENCION (K. II.

# 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



DIMINSIONAL AND ENGINEERING DATA ON ABOVE SIZES OF TIPE LWS PRIVENTIES

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### SURFACE DEVELOPMENT PLAN

MESA PETROLEUM

SOUTH BLANCO 31 #1

2290'/N & 2290'/E Rio Arriba Co., N.M.

LEASE NO. NM 33005

### 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 3/4 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 topo map.

# 4. Location of Tank Batteries, Prod. Facilities & Prod. Gathering & Service Lines All production facilities are to be contained within the proposed location site.

### 5. Location and Type of Water Supply

Mesa operates no other facilities in the area.

Water for drilling will be trucked from the Chapman's waterhole approximately 2 miles to the south. 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 top soil replaced, and be reseeded when germination of seeds can take place.

In either case, cleanup of the site will include burning of any safely burnable material, filling of all pits, carrying away of all nonburnable material and any

chemicals that cannot be safely buried, and the hauling off of any oil that may have accumulated on the pits while drilling.

### 12. Other Information

The location lies on a flat area. The area is rugged and 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.

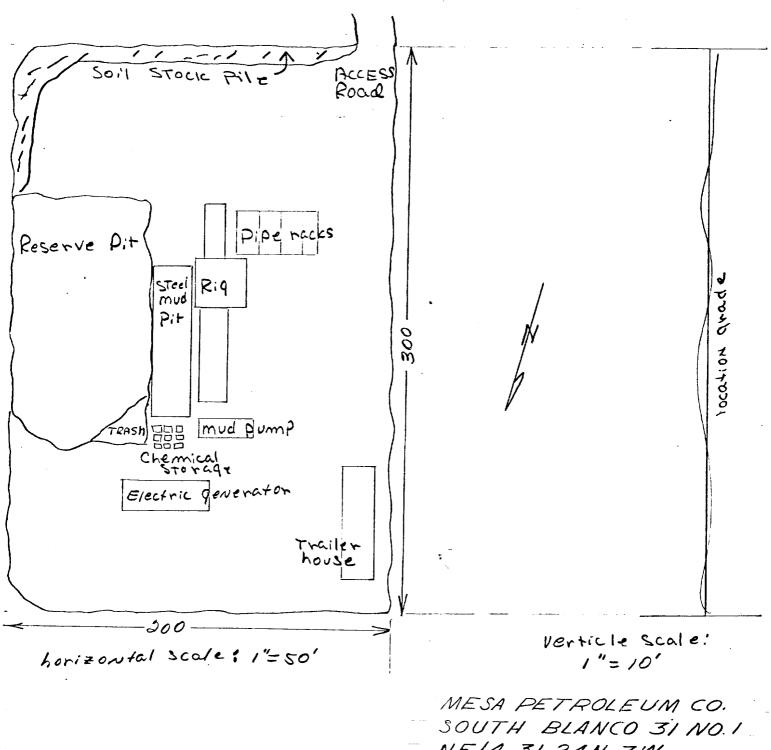
13. JOHN ALEXANDER - 3E Company, Inc.
P.O. Box 190
Farmington, NM 87401
Phone: 505-327-4020

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.

September 15, 1980

OHN ALEXANDER

JA:cp



NE/4 31.24N.7W RIO ARRIBA CO., N.M.

location drace

