	NH OIL	CUND. COMILLOUT	-	-		SF/ Jules		
Form 9-331 C (May 1963)	Dra Art ia UNITH	SUBMIT IN T. (Other instru reverse s	ctions on	Form approved. Budget Bureau No. 42-R1425. BC-CO5-6/674				
	DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY				5. LEASE DESIGNATION AND SEBIAL NO. NM-33944			
APPLICATION	FOR PERMIT TO	O DRILL, DEEPE	N, OR PLUG E	BACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME		
1a. TYPE OF WORK DRI b. TYPE OF WELL	LL 🖪	DEEPEN	PLUG BA		7. UNIT AGREEMENT NA	ME		
	S OTHER	SI: ZQ	NGLE TH MULTH		S. FARM OR LEASE NAM	E		
2. NAME OF OPERATOR					SHELLY FEI	DERAL		
MESA PETROI	LEUM CO.√		JUN 231	982	9. WELL NO.	· ·		
3. ADDRESS OF OPERATOR			0.0.0		1			
1000 VAUGHI	N BUILDING/MIDLA	ND, TEXAS 7970	01-4493 O. C. D	•	10. FIELD AND POOL, OF	R WILDCAT		
4. LOCATION OF WELL (Re	port location clearly and i	n accordance with any S	tate requirements. OFF	CE 🖌	UNDESIGNAT	CED ABO		
	' FSL & 990' FWL			1.1	11. SEC., T., B., M., OR B AND SURVEY OR AR	LK. EA		
At proposed prod. zone	SAME			M.M.	SEC 24, TS			
14. DISTANCE IN MILES A	ND DIRECTION FROM NEARI	ST TOWN OR POST OFFICE	•		12. COUNTY OR PARISH	13. STATE		
10 miles No	ortheast of Rosw	ell, New Mexico	C		CHAVES	NEW MEXICO		
15. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE L		16. NO	. OF ACRES IN LEASE		HACRES ASSIGNED HIS WELL			
(Also to nearest drig, unit line, if any)			800 OPOSED DEPTH					
18. DISTANCE FROM PROPOSED LUCATION* TO NEAREST WELL, ORILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. N/A			4100 '	ROTARY				
21. ELEVATIONS (Show whe	1171	·i	4100		22. APPBOX. DATE WO	RE WILL START*		
3569'					JULY 18,	1982		
23.	PI	ROPOSED CASING AND	CEMENTING PROGR	AM		e - 1.		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT SETTING DEPTH			QUANTITY OF CEMENT			
14 3/4"	10 3/4"	40.5#	950'	700	700/300 SURFACE			
9 1/2"	7 5/8"	26.4#	1600'	700	700/300 TIE BACK			
6 or 7 7/8"	4 1/2"	10.5#	4100'	300	300 COVER ALL PAY			

Propose to drill 14 3/4" hole with mud or air to approximately 950' and run 10 3/4" casing. Will cement to surface and test casing with cementing head to 600 psi. Will reduce hole to 9<sup>1</sup>/<sub>2</sub>" and drill on mud or air to approximately 1600' and run 7 5/8" casing if circulation has been lost and cement with sufficient amounts to tie-back to 10 3/4" casing. Will then reduce hole to  $6\frac{1}{2}$ " or  $6\frac{1}{2}$ ", test BOP's and casing and drill to total depth. If hole conditions are favorable, the 7 5/8" casing will be omitted and the hole will be reduced to 7 7/8" and drilled to total depth. Either  $4\frac{1}{2}$ " or  $5\frac{1}{2}$ " casing will be run as production casing depending upon hole sized drilled to TD.

Operator's gas sales are dedicated.

Restrict NV Bould

XC: MMS (7), TLS, CEN RCDS, ACCTG, MEC, LAND, ROSWELL, REM, FILE, (PARTNERS IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED RIPMAN	TITLE _	REGULATORY COORD	INATOR	6-9-82
(This space for Federal D) State office re) Otig. Sgd.) GEORUE H. STEWAR	j.	APPROVAL DATE	7	
APPROVED BY JUN 2 1 1982 CONDITIONS OF APPROVAL, IF ANY :	TITLE _			DATE
JAMES A. CILLHAM DISTRICT SUPERVISOR				

STATE OF NEW MEXICO	
ENERGY AND MINERALS DEPARTMENT	

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## OIL COMPANY AND P. O. BOX 2008

SANTA FE, NEW MEXICO 8756.

Form E-102 Revised 10-1-78

	•	All distances mu	at he from the c	outer houndaries el	the Section			
			Leose				Well No.	1
Uperolog Mesa Pe	etroleum Co			Shelly_Fed				
Unit Letter Sect		Townshilp	na	nq #	County	Charros		
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Actual Fustage Location	of Well:					Host	line	
	t from the SOU		e and 991	) - Ire	at from the	West	Dedicated Acreoge	:
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3. If more than on dated by commu	unitization, un	ferent ownershi itization, force- wer is "yes," t	роопп <u>Б</u> . с.с.		have the	interests of	all owners beer	n consoli-
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## APPLICATION FOR PERMIT TO DRILL

MESA PETROLEUM CO. SHELLY FEDERAL #1 660' FSL & 990' FWL, SEC 24, T9S, R24E CHAVES COUNTY, NEW MEXICO

## LEASE NO. NM-33944

In conjunction with Form 9331-C, Application For Permit to Drill subject well, the following additional information is provided:

1. Applicable portions of the <u>GENERAL REQUIREMENTS FOR OIL AND GAS</u> <u>OPERATIONS ON FEDERAL LEASES</u>, Roswell District, Geological Survey of September 1, 1980 will be adhered to.

2. Geological markers are estimated as follows: SEVEN RIVERS Surface SAN ANDRES 354' GLORIETA 1314' TUBB 2814' ABO 3504'

3. Hydrocarbon bearing strata may occur in the Abo formation(s). No fresh water is expected to be encountered below 950'

4. The Casing and Blowout Preventer Program will be determined by hole conditions as encountered. See Exhibit VI. Anticipate drilling with mud, air or foam using ram type preventer and rotating head for well control. The 10 3/4" casing will be set at approximately 950' to protect any fresh water zones and cemented to the surface. The 7 5/8" casing will be set at approximately 1600' if water zones have been encountered or omitted if not and ram type preventers installed. Sufficient amounts and kinds of cement would be used to ensure any water, gas, or oil zones encountered are isolated and shut off down to the casing point if run. The 4 1/2" production casing will be set at total depth or shallower depending upon the depth of the deepest commercial hydrocarbon bearing strata encountered.

5. No drill stem test or coring program is planned. The logging program may consist of a GR-CNL from surface total depth and FDC from casing point to total depth.

6. Anticipated drilling time is ten days with completion operations to follow as soon as a completion unit is available.





6-8" Watered & Compacted Caliche ON PAD & ROAD IF NEEDED



