Drawer DD thank the main course

UNITED STATES Artesia, NN 88320side DEPARTMENT OF THE INTERIOR

Bu	ин п dget	pproved Bureau	No.	42 ·K	1425	. 1
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OGICAL SURVEY	NM-1

GEOLOGICAL SURV	EY	NM-310633
APPLICATION FOR PERMIT TO DRILL,	DEEPEN, OR PLUG BAC	K 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
DRILL X DEEPEN		
b. Type of Well. off, '''; GAS [X]	SINGLE X MULTIPLE ZONE	8. FARM OR LEASE NAME
Off. WELL WELL X OTHER 2. NAME OF OPERATOR	ZOMB 153	HAYSTACK FEDERAL
MESA PETROLEUM CO.		9. WELL NO.
2 ALBERTS OF OPERATOR		2
1000 VAUGHN BUILDING/MIDLAND, TEXAS	79701-4 RECEIVED	10. FIRED AND POOL, OR WILDCAT UNDESIGNATED ABO
4. LOCATION OF WELL (Report location clearly and in accordance with Alexander 1980' FNL & 990' FWL SW4 NV	SEP 28 1982	11. SEC., T., B., M., OB BLK. AND SURVEY OR AREA
At proposed prod. zone SAME		SEC 31, T6S, R27E
14 BUSTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR PO	ST OFFICE* O. C. D.	12. COUNTY OR PARISH 13. STATE
32 miles Northeast of Roswell, New	Mexico ARIESIA, OFFICE	CHAVES NEW MEXICO
15 DISTANCE FROM PROPOSED* LOCATION TO NEAREST LINE FT 660 1/660 1	16. NO. OF ACRES IN LEASE 17. 958	NO. OF ACRES ASSIGNED TO THIS WELL 160
(Also to nearest drig, unit line, if any is distance from Proposed Location* FO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	19. PROPOSED DEPTH 20). ROTARY OR CABLE TOOLS ROTARY
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3892 GR		22. APPROX. DATE WORK WILL START* SEPTEMBER 1, 1982
23 PROPOSED CAS	ING AND CEMENTING PROGRAM	
WORLD DEN		QUANTITY OF CEMENT
SIZE OF HOLE	.5# 950'	700/300 SURFACE
	.4# 1600'	700/300 TIE BACK
	.5# 5000'	300 COVER ABO
Propose to drill 14 3/4" hole with mud Will cement to surface and test casing 95" and drill on mud or air to approxim been lost and cement with sufficient am reduce hole to 6½" or 6½", test BOP's a conditions are favorable, the 7 5/8" ca 7 7/8" and drilled to total depth. Eit casing depending upon hole size drilled Operator's gas sales are dedicated.	with cementing head to ately 1600' and run 7 tounts to tie-back to 1 nd casing and drill to sing will be or ted to ther 4½" or 5½" asample to TD.	5/8" casing if circulation has 0 3/4" casing. Will then total depth. If hole and the hole will be reduced to production.
	0.5. GEO	LOGICAL STIPMEN

XC: MMS (7), TLS, CEN RCDS, ACCTG, MEC, LAND, ROSWELL, REM, FILE, (PARTNERS 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.

TITLE (Qris. Sgd.) GEORGE H. STEWART	REGULATORY	COORDINATOR	7-30-82
SHONED THE THE PARTY OF THE PAR			
This space for Bederal or State Stilled use)			
CERTIT NO	APPROVAL DATE		
SEP 2 3 1982			DATE
CONDITIONS OF APTROVAL, IF ANY:			
DIGTRICT S DERVISOR			

Revised 13-1-18

6290

SANTA FE, NEW MEXICO 87501 STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT All distances must be from the outer houndaries of the Section Well No. #2 Haystack Federal Mesa Petroleum Co. County Town +) ily Chaves Section 27 East nit Letter 6 South 31 Ε clus! l'ostuge Location of Well; 990 West fret from the Dedicated Acreage: North feet from the 1980 160 NW/4Acres Producing Fermotion UNDESGINATED round Leve! Elev. 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lense is dedicated to the well, outline each and identify the ownership thereof (both as to working 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? Il answer is "yes," type of consolidation Hanswer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of ☐ No No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division. CERTIFICATION I hereby certify that the information contoined herein is true and complete to the best of my knowledge and belief. MESA ETAL Mylladon Name M. P. HOUSTON Position NM-310633 OPERATIONS MANAGER MESA PETROLEUM CO. 990' JULY 30, 1982 U. S. A. I hereby certify that the well location shown on this plut was platted from field Sec.31, T.6 S., R.27 E., N.M.P.M. notes of octual surveys mode by me or under my supervision, and that the same Is true and correct to the less of my knowledge and belief. Date Surveyed July 13, 1982 Registered Prolessional Engineer Jaques, P.E.& L.S.

1 500

3000

IOFD

APPLICATION FOR PERMIT TO DRILL

MESA PETROLEUM CO.
HAYSTACK FEDERAL #2
1980' FNL & 990' FWL, SEC 31, T6S, R27E
CHAVES COUNTY, NEW MEXICO

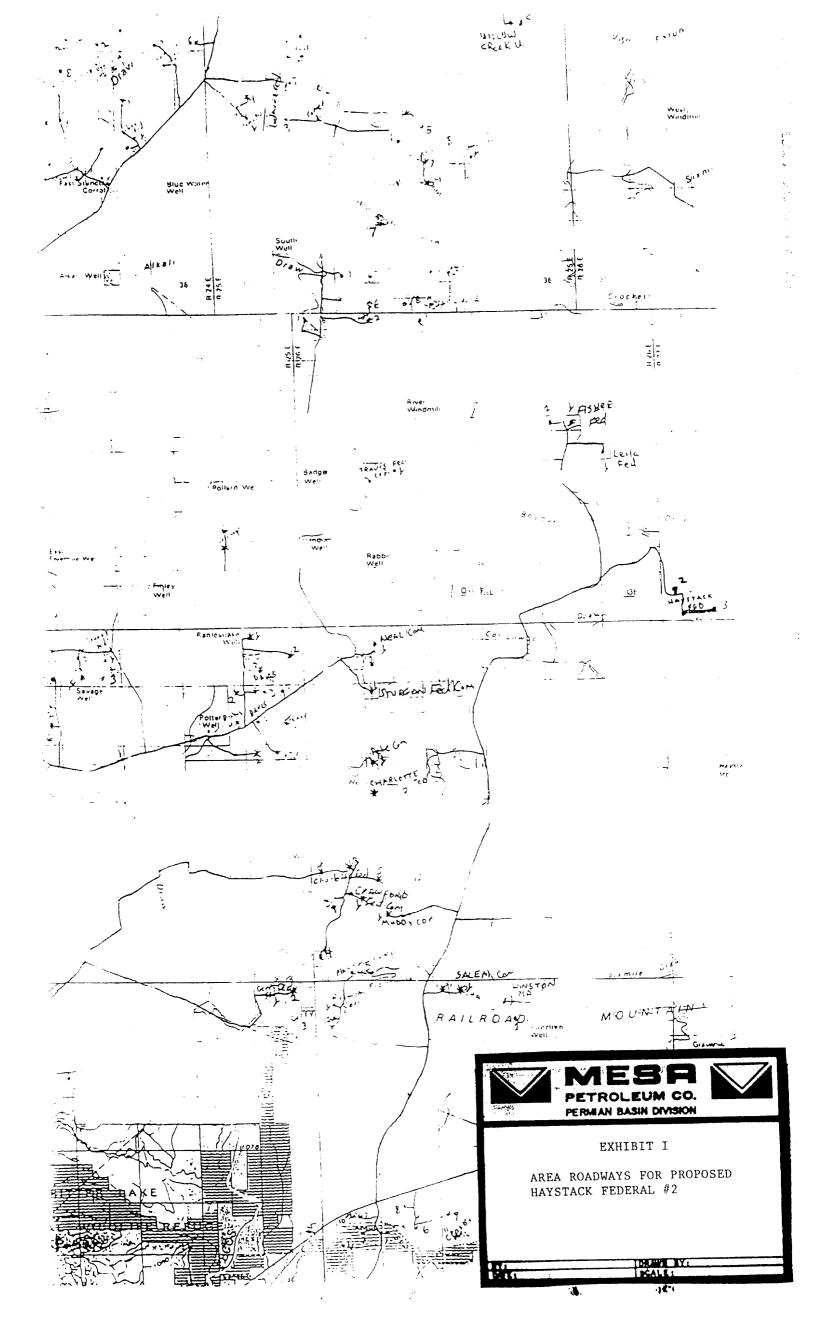
LEASE NO. NM-310633

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

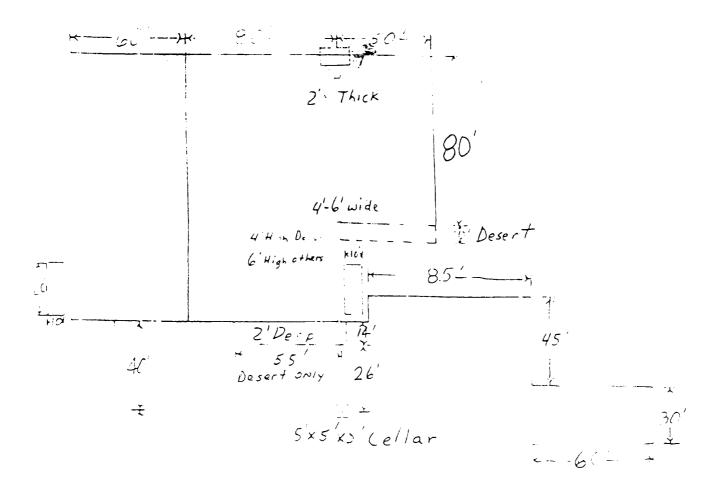
- 1. Applicable portions of the GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL LEASES, Roswell District, Geological Survey of September 1, 1980 will be adhered to.
- Geological markers are estimated as follows:

SEVEN RIVERS	Surface
SAN ANDRES	1056
GLORIETA	2132
TUBB	3692
ABO	4350

- 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.



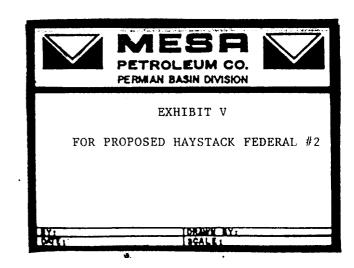




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6-8" Workled & Compacted Caliche

ON PAD & ROAD IF NEEDED



3,000 PSI WORKING PRESSURE 1 100 AL 100 L Fill Corportion Joh Zalle Jaol Sae Detail of A Flow Line and Chake Assembly N()||-Minimum desembly for 5,000 PSI working measure. The hollow and adddle meanters may be conserved. Oppending on Floody, ' 11's 2 or 4° Valv• HYDRIL not installed on shallow low pressure wells RVM rabe maby the Vbl Ton X 3000 bgt mer work is to myelo KILL, CHOKE, AND FILL COMBECTIONS 3,000 PSI WORKING PRESSURE Boyums & dge of December A THER STATE OF THE PETROLEUM CO PEANIAN LAJIN DIVINO. MESH

Blow-out Preventers hydrit and choke manifold are all 900 Series

BLOW-OUT PREVENTER HOOK UP