## N.M.O.C.D. COPY

SUBMIT IN - PLICATE\*

UNITED STATES DEPARTMENT OF THE INTERIOR (Other ins tions on reverse b.de)

Form approved. Budget Bureau No. 42-R1425. 30-005-60749
5. LEASE DESIGNATION AND SERIAL NO.

GEOL	OGICAL	SURVEY

NM-14982 6. IF INDIAN, ALLOTTEE OR TRIBE NAME

APPLICATION	V FOR PERMIT	FO DRILL,	DEEP	EN, OR PLUG B	ACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
1a. TYPE OF WORK  [DR]  b. TYPE OF WELL	ILL 🖾 💍	DEEPEN [		PLUG BA	CK 🗆	7. UNIT AGREEMENT NAME	
OIL C	AS OTHER			RECEIVED		8. FARM OR LEASE NAME STANCEL FEDERAL	
MESA PETROLEU 3. ADDRESS OF OPERATOR	M CO /					9. WELL NO.	
1000 VAUGHN B 4. LOCATION OF WELL (R At surface 1980 FNL	UII DING/MIDLANG eport location clearly and  8 660' FFI	TEXAS 79	9701 Lb any S	O. C. D.		10. FIELD AND POOL, OR WILDCAT  Undesignated ABO  11. SEC., T., R., M., OR BLE.  AND SURVEY OR AREA	
At proposed prod. zon Same	e			ARTESIA, OFFIC	·E	22-5-24	
14. DISTANCE IN MILES		REST TOWN OR POS	T OFFICE	r•		12. COUNTY OR PARISH 13. STATE	
35 miles N/N			1.16 20	), OF ACRES IN LEASE	1 17 10 0	Chaves   N. Mexico	
15. DISTANCE FROM PROPORTION TO NEAREST PROPERTY OR LEASE I (Also to nearest drig	r	0'/660'	10	000	то ті	160	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  32001			i			Rotary	
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL START*	
4014' GR						July 15, 1980	
23.	I	PROPOSED CASIS	NG ANI	CEMENTING PROGRA	M		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	00T	SETTING DEPTH		QUANTITY OF CEMENT	
17-1/2"	13-3/8"	48#		300 '	320_"	C"	
12-1/4"	8-5/8"	24#		1600'	_300_H	ILW/200 "C"	
7-7/8"	4-1/2"	10.5#		4400'	460 H	LW/300 POZ "C"	
drill to 1600 (circulated to BOPs and dril fresh water government) (Ph 9.0-9.5) soda ash to to	' without BOPs o surface) and l 7-7/8" hole t el and soda ash and chemicals f	or wellhead installing o total dep from surfa or corrosid ter log eva	d. A brad oth o ace to on co	fter cementing enhead, will not f 4400'. Drill o 1600' and fre ntrol to 3500'	8-5/8" ipple u ling fl esh wat then m	duce hole to 12-1/4" casing at 1600' p 10" API 3000 psi uid will consist of er with caustic soda and up with starch and y be run to total	
in above space describe zone. If proposal is to preventer program, if an	drill or deepen directions	proposal is to deep illy, give pertinent	pen or p t data c	olug back, give data on pon subsurface locations an	resent prod nd measured	uctive zone and proposed new productive d and true vertical depths. Give blowout	
24.	o Mille					6 30 00	
SIGNED	F. / racous	тіл	rle _R	egulatory Coord	linator	6-30-80	
	ral or State office use)			APPROVAL DATE 7	-14-8	50	
APPROVED BYCONDITIONS OF APPROV		TII	rle <u>.</u>			DATE	

## MEXICO OIL CONSERVATION COMMIS NELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes 6-128 Ettertive 1-, 165

Ronald J. Eidson

Firato: STANCEL FEDERAL Petroleum Co. Mesa AT Shir 5 South 24 East Chaves Н Actual For tae tee trom the North 1980 660 East Froducting Fr Ground Level Flev NE/4 160 UNDESIGNATED AB0 4014 1. Outline the acreage dedicated to the subject well by colored pencil or hachare mark(\$100) the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and rovalty) 3. If more than one lease of different ownership is dedicated to the well, nave the interestation owners been consoli dated by communitization, unitization, force-pooling, etc? If answer is "ves!" type of consolidation \_ If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Lise reverse side this form if necessary.)\_ 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 Commission. CERTIFICATION hereby certify that the information con colored hereig is true and complete MESA NM-14982 R.E.MATHIS Regulatory Coordinator 660 Mesa Petroleum Co hereby certify that the well locat U.S.A PATRICK A ROMERO

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660

1320



### United States Department of the Interior

RECEIVED

GEOLOGICAL SURVEY

P. O. Drawer U
Artesia, New Mexico 88210

JUL 1 7 1980

O. C. D.
ARTESIA, OFFICE

July 14, 1980

Mesa Petroleum Company 1000 Vaughn Building Midland, Texas 79701

Gentlemen:

MESA PETROLEUM COMPANY
Stancel Federal No. 2
1980 FNL 660 FEL Sec. 22, T.5S, R.24E.
Chaves County Lease No. NM-14982

Above Data Required on Well Sign

Your APPLICATION FOR PERMIT TO DRILL the above-described well to a depth of 4,400 feet to test the Abo formation is hereby approved subject to compliance with the OIL AND GAS OPERATING REGULATIONS (30 CFR 221) and the following conditions:

- 1. Drilling operations authorized are subject to compliance with the GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL LEASES, dated July 1, 1978.
- 2. Prior to commencing construction of road, pad, or other associated developments, operator will provide the dirt contractor with a copy of the SURFACE USE PLAN and this approval including the GENERAL REQUIREMENTS.
- 3. All access roads will be limited to a 12 foot wide driving surface, excluding turnarounds. Surface disturbance associated with road construction will be limited to 20 feet in width.
- 4. Submit a Daily Report of Operations from spud date until the Well Completion Report (form 9-330) is filed. The progress report should be not less than 8" x 5" in size and each page should identify the well.
- 5. All permanent above-ground structures and equipment shall be painted in accordance with the attached Painting Requirements. The color used should simulate Sandstone Brown (Federal Standard No. 595A, color 20318 or 30318).
- 6. Notify the Survey by telephone 24 hours prior to spudding well.

- 7. Cement behind the 13-3/8" casing must be circulated.
- 8. Please have anyone contacting the Survey in regard to this well to identify the well with all of the information required above for the well sign.

Sincerely yours,

(Orig. Sgd.) GEORGE H. STEWART

George H. Stewart Acting District Engineer

# APPLICATION FOR DRILLING MESA PETROLEUM CO STANCEL FEDERAL WELL NO. 2 1980' FNL & 660' FEL, Sec 22, T5S, R24E CHAVES COUNTY, NEW MEXICO

LEASE: NM-14982

In conjunction with Form 9-331 C, Application for Permit to Drill subject well, the following items of pertinent information are submitted in accordance with U.S.G.S. requirements:

- 1. The geologic surface formation is Seven Rivers.
- 2. Estimated tops of geological markers are as follows:

San Andres	644
Glorieta	1484
Tubb	2984
Abo	3624
Hueco	4274

3. The estimated depths at which anticipated water, oil, or gas formations are expected to be encountered:

Water - San Andres at approximately 900' Gas - Abo at approximately 3900'

4. Casing and Blowout Preventer Program

Conductor: 300' of 13-3/8", 48#, H40, ST&C casing cemented with 320 sx Class "C" + 2% CaCl mixed at 14.8 ppg and yielding 1.32 cuft/sx. Cement will be circulated using redimix down the annulus if necessary. Will install flowline, but no BOPs and drill out the cement inside the casing after WOC approximately 8 hours.

Surface: 1600' of 8-5/8", 24#, K55, ST&C casing cemented with 300 sx Howco Light + 1/4# flocele + 2% CaCl mixed at 12.4 ppg and yielding 1.9 cuft/sx. Tail in with 200 sacks Class "C" + 2% CaCl mixed at 14.8 ppg and yielding 1.32 cuft/sx. Cement will be circulated to surface using 1" pipe down the annulus if

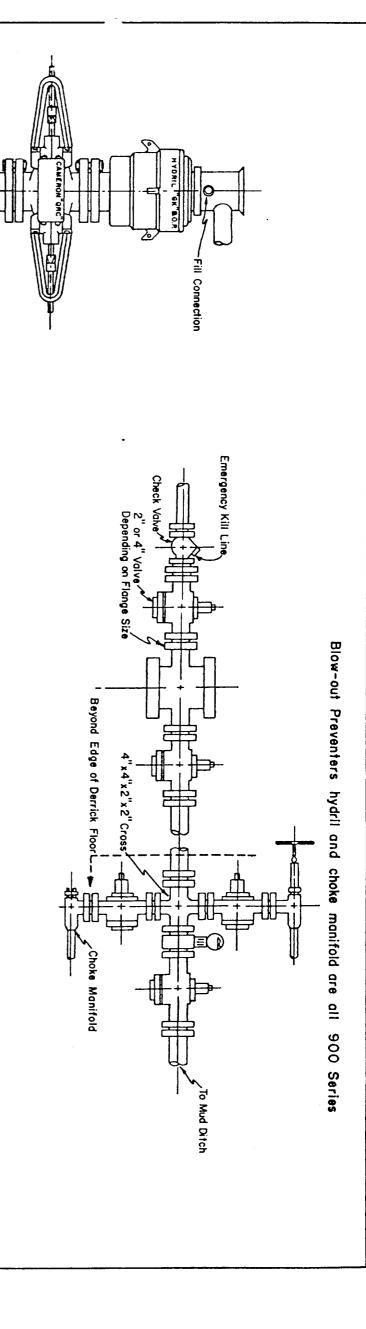
necessary. If lost circulation has been encountered while drilling the ll" hole, the cement job will be preceded with 200 sx thickset cement mixed at 14.8 ppg and yielding 1.32 cuft/sx. Will install 8-5/8" SOW x 10" API 3000 psi casinghead with 2" API 2500 psi ball valve. Nipple up 10" API 3000 psi WP double BOP with pipe rams (bottom) and blind rams to drill 7-7/8" hole to total depth.

Production: 4400' of 4-1/2", 10.5#, K55, ST&C casing cemented with 460 sx Howco Light + 1/4# flocele + 10# salt mixed at 12.7 ppg and yielding 1.87 cuft/sx. Tailed in with 300 sx 50/50 POZ + 2% gel + 8# salt + 3/10% CFR-2 mixed at 14.1 ppg and yielding 1.30 cuft/sx or volume sufficient to raise top of cement to surface or base of surface casing. Choke, kill, and fill lines are indicated on Exhibit I. BOPs will be tested prior to drilling below the 8-5/8" casing. A full opening safety valve, to fit the drill string in use, will be kept on the rig floor at all times. The kelly cock, safety valve, choke and kill lines will be tested at the same time that BOPs tests are run. Operational opening and closing checks on all BOPs will be run on each trip, with daily operational check of pipe rams.

#### 5. Circulating medium and control equipment

- O'-1600' Use fresh water spud mud with fresh water gel and soda ash or lime. Treat with lost circulation material as hole conditions dictate. If total loss of circulation occurs, mix 2 or 3 viscous slugs with LCM and attempt to regain circulation. If unsuccessful, consider drilling without returns to casing point and spot 150 + bbls viscous slug treated with LCM on bottom to run pipe.
- 1600'-3000' Drill out 8-5/8" casing with fresh water circulating reserve pit. Add caustic soda for pH 9.0 9.5 and chemicals for corrosion control. Mix paper as needed to control seepage or to sweep the hole.
- 3000'-4400' Maintain mud weight less than 10 ppg with additions of fresh water while keeping chloride-ion concentration of 40,000 50,000 + ppm and KCL 3.0%. At 3500 mud up with starch and soda ash to control API water loss to 20 25 cc to TD. Sea Mud or Salt Water Gel will be added to sweep hole or to raise viscosity of system sufficiently to clean hole to run logs and casing.

- 6. There is no coring program or drill stem tests planned for this well. The logging program may consist of a gamma ray log from total depth to surface, compensated neutron-density-caliper log and dual laterolog-micro spherically focused log run from 1600' to total depth.
- 7. Maximum anticipated bottom hole pressure is 1500 psi at 4400' based upon bottom hole pressure on other area wells. Mud weight required to offset this pressure is 9.0 ppg. It is probable that leaching of expected salt stringers could increase the mud weight to 10.0 10.2 ppg. Bottom hole temperature should not exceed 120°F. No sour gas is expected.
- 8. Anticipated spud date is July 15, 1980 , with completion of drilling operations expected by July 30, 1980 . Completion operations (perforations and stimulation) will follow successful drilling operations as soon as a completion unit is available.



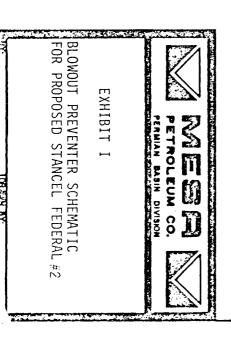
3,000 PSI WORKING PRESSURE KILL, CHOKE, AND FILL CONNECTIONS

DETAIL OF 4" FLOW LINE CHOKE ASSEMBLY or 3,000 PSI working pressure will consist of three prevent

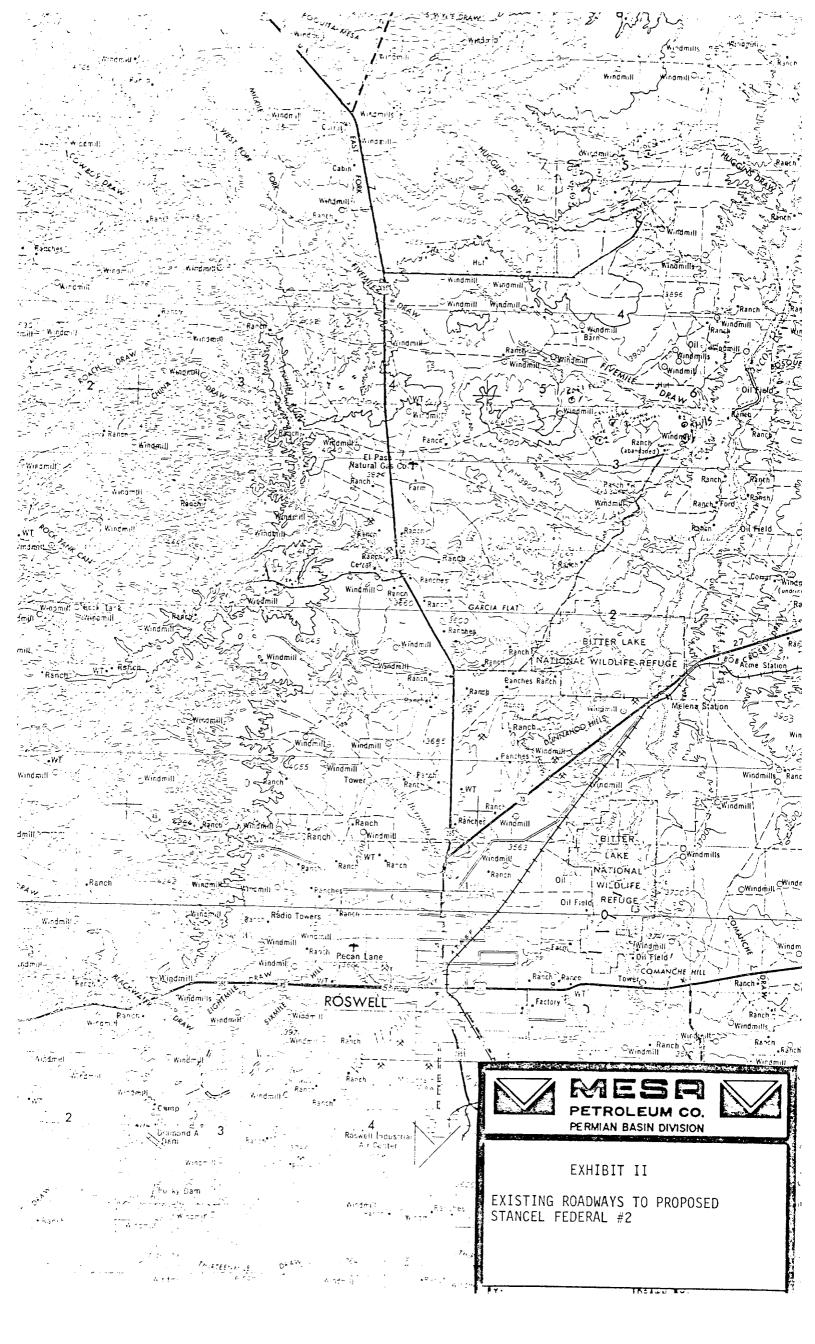
Top Cellar Wall

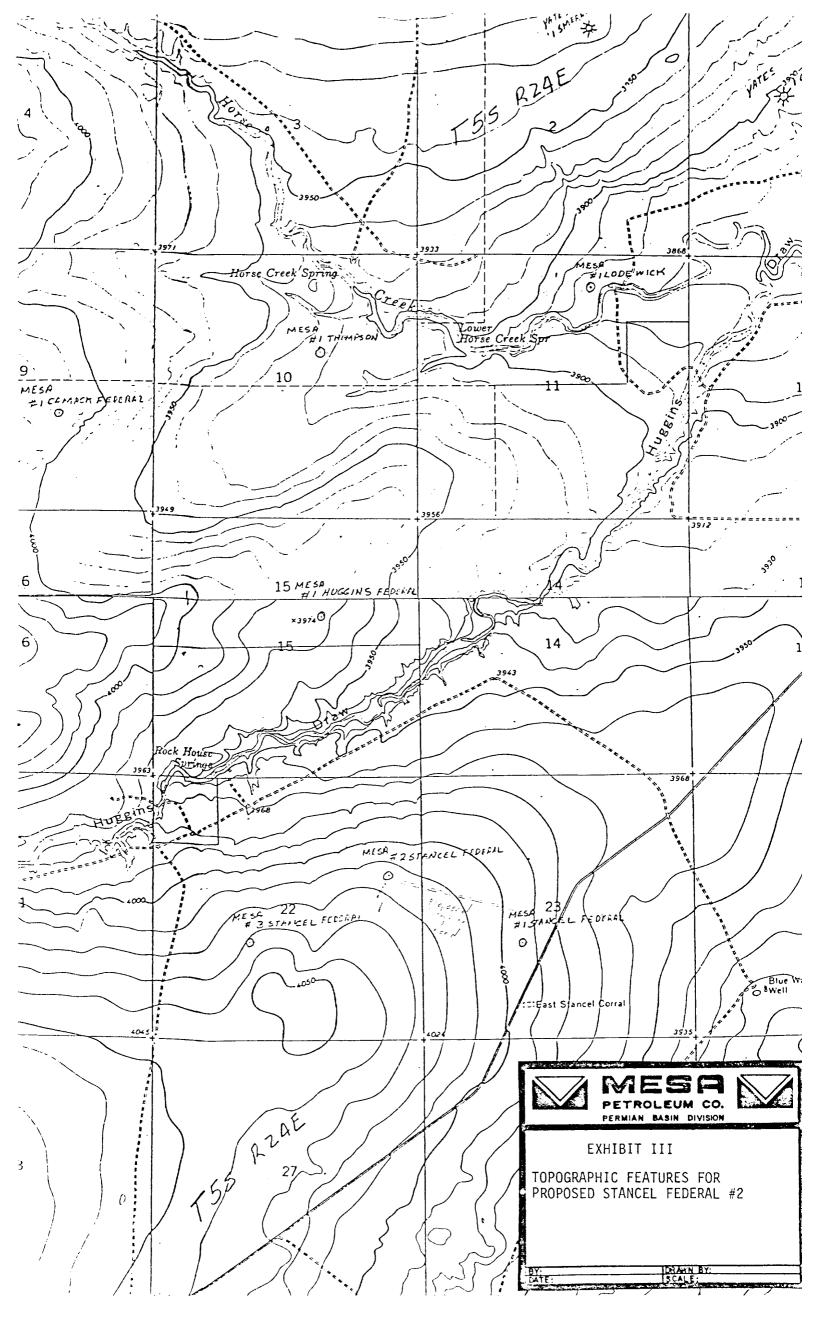
See Detail of 4"Flow Line and Choke Assembly

Minimum assembly for 3,000 PSI working pressure will consist of three preventers. The bottom and middle preventers may be Cameron.



3,000 PSI WORKING PRESSURE BLOW-OUT PREVENTER HOOK-UP





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