

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Y TO O. C. G. SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)Form approved.
Budget Bureau No. 42-R1425.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. LC 031670A	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR CONTINENTAL OIL CO.			7. UNIT AGREEMENT NAME SEMU	
3. ADDRESS OF OPERATOR P.O. BOX 460 HOBBS, N.M. 88240			8. FARM OR LEASE NAME SEMU PERMIAN	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 2615' FSL 1345' FWL At proposed prod. zone			9. WELL NO. 106	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*			10. FIELD AND POOL, OR WILDCAT Skaggs Grayburg	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any)			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC. 19 T20S R38G	
16. NO. OF ACRES IN LEASE			12. COUNTY OR PARISH	
17. NO. OF ACRES ASSIGNED TO THIS WELL			13. STATE	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.			LEA NM	
19. PROPOSED DEPTH 3950'			20. ROTARY OR CABLE TOOLS RTV	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3536.8' GR			22. APPROX. DATE WORK WILL START* JUNE 15, 1979	

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	10 3/4"	40.5 #	1400'	500 sk circ
9 7/8"	7"	23 #	2600'	375 sk circ
6 1/4"	4 1/2"	10.5 #	3950'	325 sk circ

It is proposed to drill a straight hole to a TD of 3950' and complete as a Skaggs Grayburg oil well.
See Attachment for 10 point well plan.
See attached for 13 point Surface Use Plan.

RECEIVED
APR 17 1979
U. S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

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.

24. SIGNED Bern D. Lee TITLE Administrative Supervisor DATE 4-17-79

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

USGS 6
NMFU 4
FILE
JFB.

*See Instructions On Reverse Side

James J. Lewis
SUPERVISOR

ATTACHMENT TO FORM 9-331 C
APPLICATION FOR PERMIT TO DRILL

Continental Oil Company

SEMU Permian Nos. 105, 106, 107
T20S R38E
Lea County, New Mexico

1. The geologic name of the surface formation is Quaternary Sand.
2. The estimated tops of important geologic markers are shown on the attached Proposed Well Plan.
3. The estimated depths at which anticipated water, oil, gas or other mineral-bearing formations to be encountered are shown on attached Proposed Well Plan.
4. The proposed casing program is as follows:

0-1400' 10 3/4", 40.5#, H-40, ST&C
0-2600' 7", 23#, K-55, ST&C
0-3950' 4 1/2", 10.5#, K-55, ST&C
5. A drawing of an API Series 900 Blowout Preventer Specification is attached. Pipe rams and blinds will be checked to 1,000 PSI for 30 minutes when BOP is installed. BOP will be checked when casing string is set and operated daily for checks.
6. The proposed mud program is as follows:

0-1400' 8.5-9.0 ppg spud mud
1400'-2600' 9.0-9.5 ppg salt water gel
2600'-3950' 10.0-15.5 ppg weighted brine gel
7. The auxiliary equipment to be used is:

(1) kelly cocks
(2) floats at the bit
8. It is proposed to run GR CAL CNL FDC PDC logs at selected intervals, as shown on the attached Proposed Well Plan.
9. No abnormal pressures or temperatures are expected to be encountered in this well.
10. The anticipated starting date for the first well is June 1, 1979, with a duration of approximately 14 days for each well.

PEB:cab

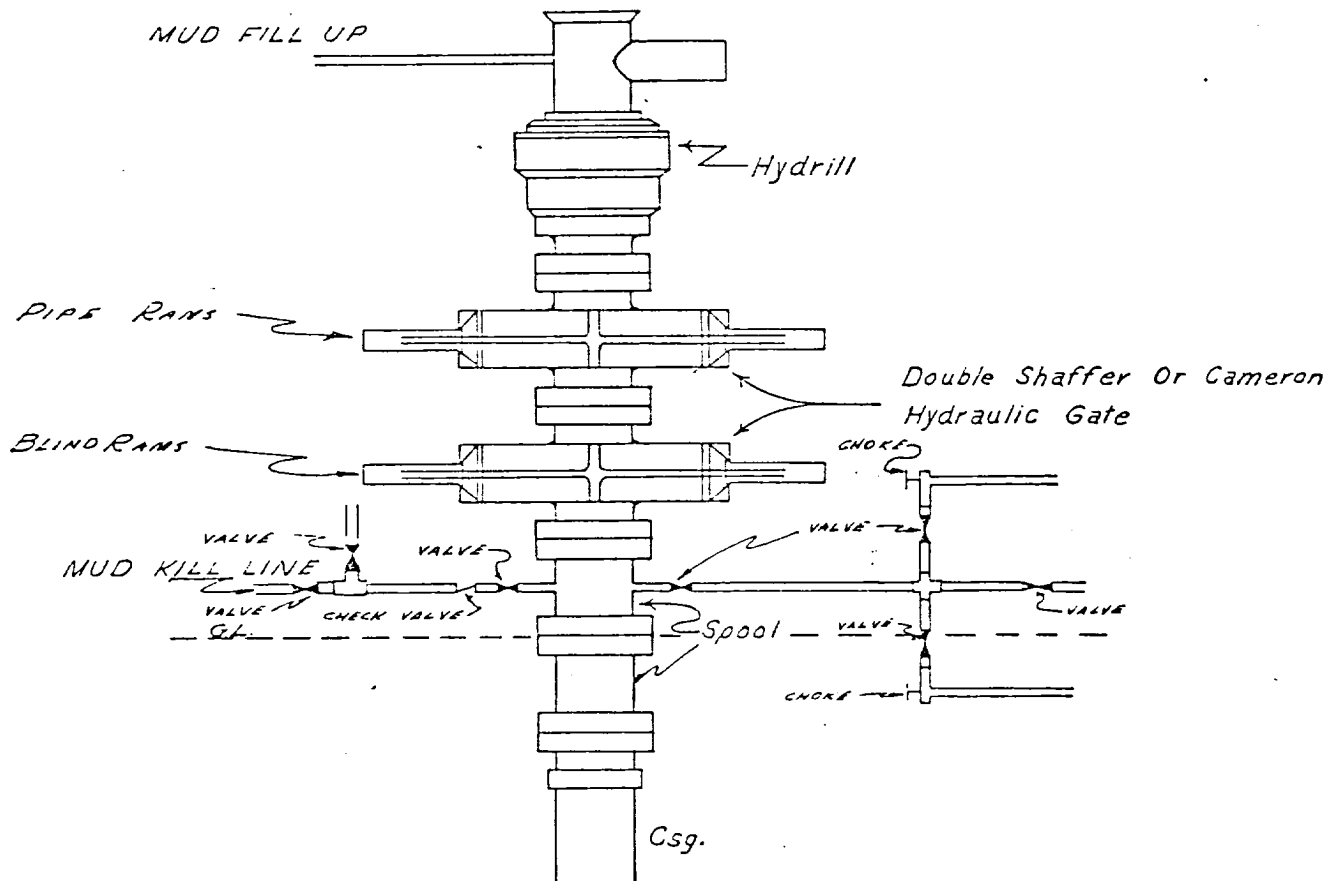
COUNTY. 727

LOCATION: $\frac{2600' \text{ FNL}}{350.19, T20SR385} \frac{450' \text{ FWL}}$

STATE: IM
EST. KB: 3553
EST. GL: 3540

DEPTH	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING		FRACTURE GRADIENT	FORMATION PRESSURE GRADIENT	MUD	
					SIZE	DEPTH			WEIGHT	TYPE
	Plaiocene									
	Water ss.	50-175								
1050										
	Rustler anhy	1360		15"	10 3/4"	14.0'	12.0	Less Than 8.5	8.5 - 9.0	Fresh - wln
	Salado salt	1460								
2000										
			Geolograph Deflection O-TD							
2500										
	Base Salt	2520		9 7/8"	7"	26.00'	15.8	55-9.0	7.0 - 9.5	Salt sat wln
	Yates ss.	2660								
3000										
	Seven Rivers dol.	2910								
3500										
	Queen ss.	3480								
	Penrose ss.	3610								
	Grayburg dol.	3770								
4000										
	TD 3950		GR-CNL-FDC DLL TD -2600'	6 1/4"	4 1/2"	3950'	16.5	15.3	15.5	Salt sat wln 3.00 6.1

CONTINENTAL OIL COMPANY
Blow-out Preventer Specifications



NOTE:

API SERIES 900

Manual and Hydraulic controls with closing unit no less than 75' from well head.
Remote controls on rig floor.

DUE TO SUBSTRUCTURE CLEARANCE,
HYDRILL MAY OR MAY NOT BE USED.

NE MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

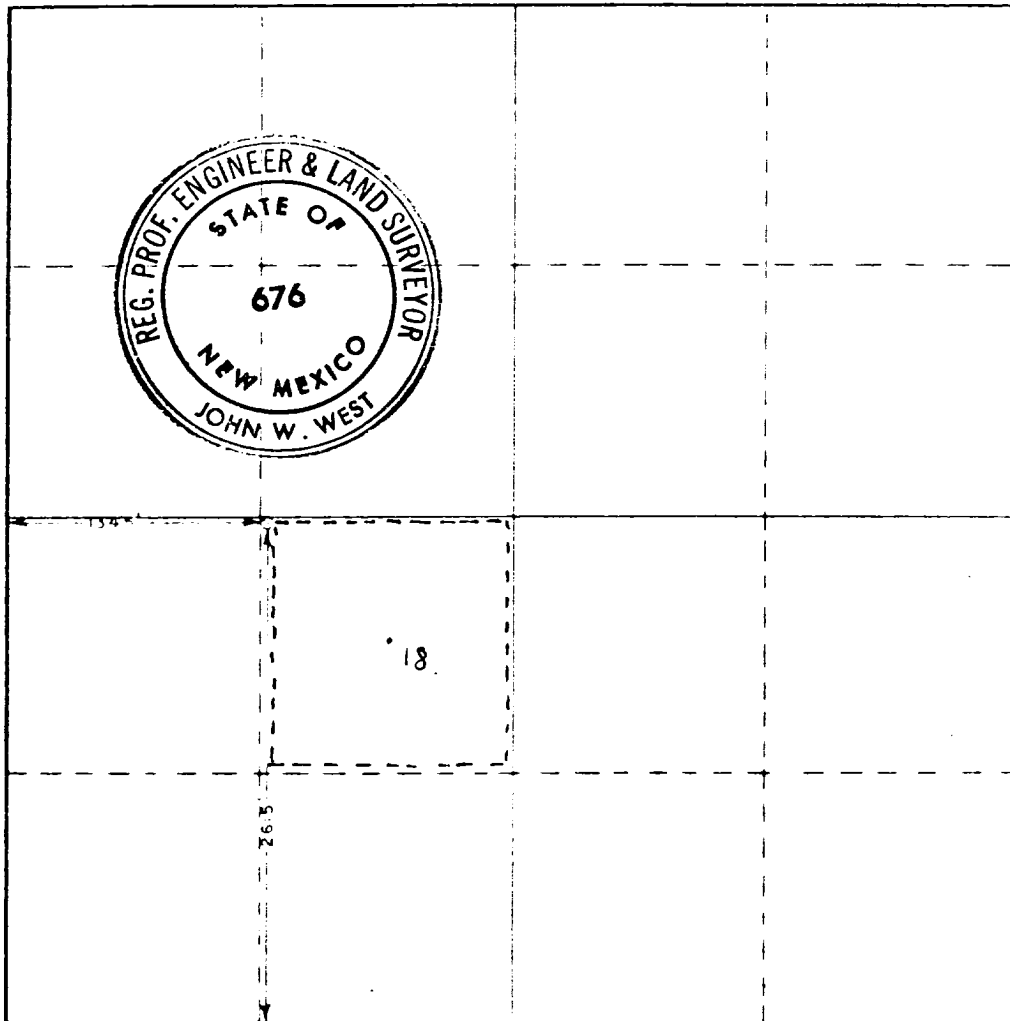
Operator Continental Oil Co.		Lease SEMU Permian		Well No. 106
Section K	Section 19	Township 20 South	Range 38 East	County Lea
Actual Footage Location of Well: 2615 feet from the South line and 1345 feet from the West line				
Ground Level Elev. 3536.8	Producing Formation Grayburg	Foot Shaggs	Dedicated Acreage: 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on 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 royalty).
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?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated (Use reverse side of 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

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name
Ben H. Lee
Position
Administrative Supervisor
Company
Continental Oil Co.
Date
4-17-79

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
January 12, 1979
Registered Professional Engineer
and/or Land Surveyor

John W. West
Certificate No. **John W. West 676**
Ronald J. Erdman 3239

