

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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"/>			7. UNIT AGREEMENT NAME		
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			8. FARM OR LEASE NAME Breech C		
2. NAME OF OPERATOR Caulkins Oil Company			9. WELL NO. 644		
3. ADDRESS OF OPERATOR Post Office Box 780, Farmington, New Mexico			10. FIELD AND POOL, OR WILDCAT South Blanco		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 900 from the North and 1090 from the East At proposed prod. zone Same			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 12 26N 6W		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 35 miles Southeast of Blanco, New Mexico			12. COUNTY OR PARISH Rio Arriba		
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 900			13. STATE New Mex.		
16. NO. OF ACRES IN LEASE 1760			17. NO. OF ACRES ASSIGNED TO THIS WELL 160 ✓		
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 100			20. ROTARY OR CABLE TOOLS Rotary		
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6639 Gr.			22. APPROX. DATE WORK WILL START* Apr. 24, 1978		

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8"	24#	100'	Sufficient to circulate
7 7/8"	4 1/2"	10.5#	3380	425 sacks

Surface formation San Jose. No abnormal pressure or temperature anticipated.

It is proposed to drill well to 3380 using gel based 9# mud. Drill pipe float will be used with float installed at bit. ES Ind. log will be run providing hole conditions permit tools in open hole, if not Neutron log will be run in pipe.

New 4 1/2" 10.5# H-40 casing will be cemented at TD with 325 sacks 50-50 pos followed by 100 sacks Neat cement.

Casing will have rotating scratchers and centralizers through PC zone.

New 1" 10 rd thd. V-55 tubing will be run to top of Pictured Cliffs.

A Shaffer 8" Model LWP, 6000# test, 3000# WP blowout preventor will be in use at all times while drilling below 100'. Blowout preventor will be tested at least once during each day.

Gas is dedicated
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 Richard E. Ingram TITLE Superintendent DATE Oct. 26, 1977
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE 7
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-100
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

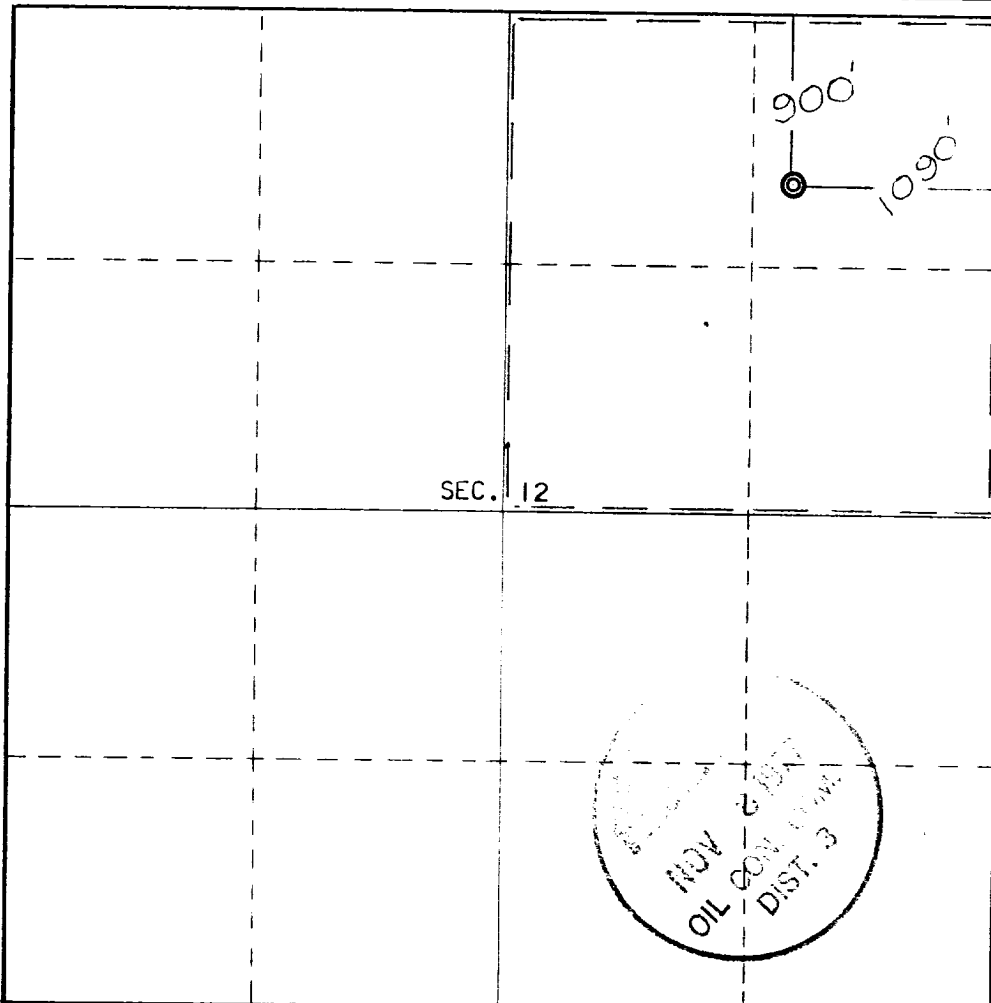
Operator Caulkins Oil Company			Lease NM 03554		Well No. 644
Unit Letter A	Section 12	Township 26 North	Range 6 West	County Rio Arriba	
Actual Footage Location of Well:					
900 feet from the North line and		1090 feet from the East line			
Ground Level Elev. 6689	Producing Formation Pictured Cliffs	Pool South Blanco	Dedicated Acreage: 160 Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.) _____

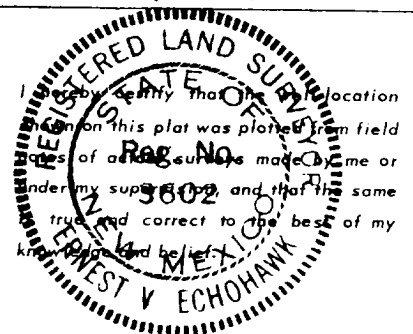
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

Name *Charles E. Echowhawk*
Position **Superintendent**
Company **Caulkins Oil Company**
Date **Oct. 26, 1977**



Date Surveyed **October 18, 1977**
Registered Professional Engineer and of Land Surveyor
E.V. Echowhawk
Certificate No. **3602**
E.V. Echowhawk LS

