

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL  DEEPEN  PLUG BACK

NAME OF COMPANY OR OPERATOR DNR-GEOL SURVEY DATE SEPT 77  
Box 250 Rolla Mo.  
Address City State

DESCRIPTION OF WELL AND LEASE

Name of lease ERDA TS Well number 31 Elevation (ground) 960

WELL LOCATION (give footage from section lines)  
2596 ft. from (N) sec. line 12 ft. from (E) sec. line

WELL LOCATION Section 3 Township 30 Range 33 County BARTON

Nearest distance from proposed location to property or lease line: NA feet  
Distance from proposed location to nearest drilling, completed or applied - for well on the same lease: NA feet

Proposed depth: 100 Rotary or Cable tools Rotary (Air) Approx. date work will start

Number of acres in lease: NA  
Number of wells on lease, including this well, completed in or drilling to this reservoir: \_\_\_\_\_  
Number of abandoned wells on lease: \_\_\_\_\_

If lease, purchased with one or more wells drilled, from whom purchased: Name NA No. of Wells: producing \_\_\_\_\_  
Address \_\_\_\_\_ inactive \_\_\_\_\_  
abandoned \_\_\_\_\_

Status of Bond NA  ON FILE  ATTACHED  
Single Well  Amt. \_\_\_\_\_ Blanket Bond  Amt. \_\_\_\_\_

Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone) use back of form if needed.  
STRAT TEST

Proposed casing program:				Approved casing - To be filled in by State Geologist			
amt.	size	wt./ft.	cem.	amt.	size	wt./ft.	cem.
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

I, the undersigned, state that I am the \_\_\_\_\_ of the \_\_\_\_\_ (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.  
Signature \_\_\_\_\_

Permit Number: 20023  
Approval Date: SEPT 1977  
Approved By: Wallace B. Hunt

SAMPLES REQUIRED  
 SAMPLES NOT REQUIRED

Note: This Permit not transferable to any other person or to any other location.

WATER SAMPLES REQUIRED @:  
\_\_\_\_\_  
\_\_\_\_\_

Remit two copies to: Missouri Oil and Gas Council  
P.O. Box 250 Rolla, Mo. 65401

One will be returned.  
Approval of this permit by the Oil and Gas Council does not constitute endorsement of the geologic merits of the proposed well nor endorsement of the qualifications of the permittee.

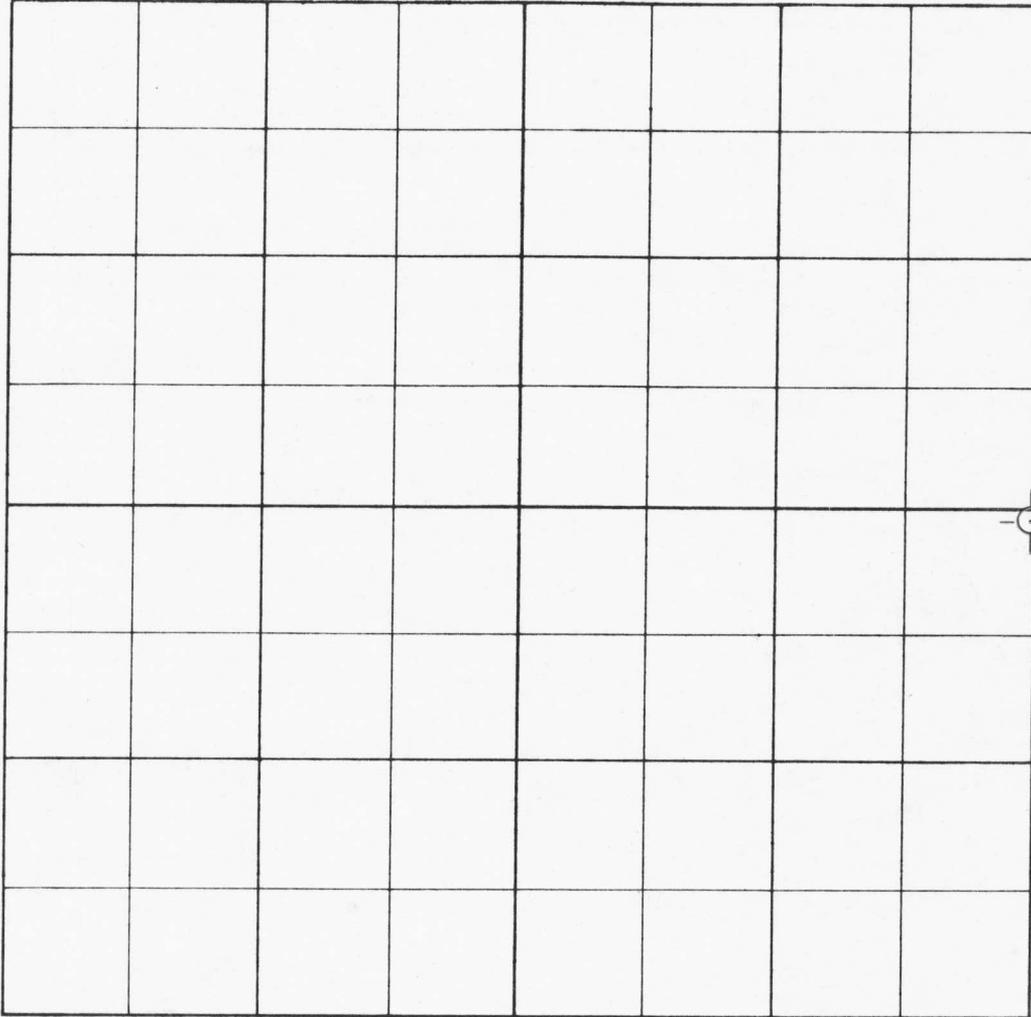
MISSOURI OIL AND GAS COUNCIL  
WELL LOCATION PLAT

Form OGC - 4

Owner: DNR - GEOL SURVEY

Lease Name: ERDA TS NO. 31 County, BARTON

2596 feet from (N) - (S) line and 12 feet from (E) - (W) line of Sec. 3 Twp. 30 Range 33



SCALE  
1" = 1000'

REMARKS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

INSTRUCTIONS

On the above plat, show distance of the proposed well from the two nearest lease and section lines, and from the nearest well on the same lease completed in or drilling to the same reservoir. If the location requested is not in conformance with the applicable well-spacing rules, show all off-setting wells to the proposed well. Do not confuse survey lines with lease lines. See rule 7 - 3 (b) for survey requirements.

(SEAL)

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One will be returned.

\_\_\_\_\_  
Registered Land Surveyor

## TEST BORING LOG

 Project E.R.D.A.

 Boring No. 31 Sheet 1 of 2
Sec. 3, T. 30N., R. 33W.

 Surface Elevation 960' Offset \_\_\_\_\_

 Address 20 Miles N.E. of Joplin

 Date Started 8/24/77 Completed 8/24/77

City &amp; State \_\_\_\_\_

 Driller D. Dickerson Rig 54

Abbreviations:

A.O. - Auger Only	R.B. - Rock Bit	C.W. - Core Water
H.A. - Hollow Auger	S.S. - Split Spoon	C.A. - Core Air
W.B. - Wash Bore	S.T. - Shelby Tube	F.B. - Finger Bit

DEPTH		METHOD	PENETRATION RECORD		CORE RECOVERY	SAMPLE DESCRIPTION <small>COLOR-MATERIAL-MOISTURE-CLAY-CONSISTENCY SAND DENSITY</small>
FROM	TO		POCKET PENETRO-METER	NO. OF BLOWS		
0.0'	0.5'	AH				Light brown tr. of gray silty clay
0.5'	10.0'	AH				Light brown sandstone
10.0'	15.0'	AH				Gray sandstone
15.0'	20.0'	AH				Gray sandstone and gray shale
20.0'	25.0'	AH				Gray sandstone
25.0'	30.0'	AH				Same
30.0'	35.0'	AH				Gray siltstone
35.0'	40.0'	AH				Black shale at 36' & gray sandstone
40.0'	45.0'	AH				Black shale, gray sandstone & gray clay
45.0'	50.0'	AH				Black shale
50.0'	55.0'	AH				Same
55.0'	60.0'	AH				Dark gray shale & gray sandstone
60.0'	65.0'	AH				Gray sandstone
65.0'	70.0'	AH				Same
70.0'	75.0'	AH				Gray sandstone & dark gray shale
75.0'	80.0'	AH				Dark gray shale & siltstone

REMARKS: (Casing, Water Loss, Etc.)	Water Level	Time	Date	
_____	_____	_____	_____	(Completion)



# WILDCAT

FR & COMP  
STATE MISSOURI 10-3-79 MAP NO. \_\_\_\_\_ S-T-R 3-30N-33W S

OPER DNR GEOLOGICAL SURVEY SPOT APP E/2 E/2 E/2 INIT

WELL BOX 250, ROLLA, MO CO BARTON S

CONTR 31 ERDA - TS ELEV 960 GR FIN

FIELD LA YNE-WESTERN 2596' fs1, 12' fe1, Sec

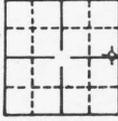
IP D&A

API 24-011-20023

SPUD 8-24-77, no surf csg

RTD 100, log

D&A FIRST REPORTED AND COMPLETED 8-24-77



TOPS NOT AVAILABLE  
RTD 100 + 860  
TD IN PENN  
COMP ISSUED 10-17-77