

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL DEEPEN PLUG BACK

NAME OF COMPANY OR OPERATOR MO Geol Survey DATE 1-77
P O Box 250 Rolla Mo
Address City State

DESCRIPTION OF WELL AND LEASE			
Name of lease <u>ERDA TS</u>	Well number <u>NO 10-5</u>	Elevation (ground) <u>868</u>	
WELL LOCATION (give footage from section lines) <u>15</u> ft. from (N)(S) sec. line <u>105</u> ft. from (E)(W) sec. line			
WELL LOCATION Section <u>20</u> Township <u>33N</u> Range <u>33W</u>			County <u>Barton</u>
Nearest distance from proposed location to property or lease line: _____ feet		Distance from proposed location to nearest drilling, completed or applied - for well on the same lease: _____ feet	
Proposed depth: <u>205</u>	Rotary or Cable tools	Approx. date work will start	
Number of acres in lease:		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 _____ Address _____		No. of Wells: producing _____ inactive _____ abandoned _____	
Status of Bond Single Well <input type="checkbox"/> Amt. _____ Blanket Bond <input type="checkbox"/> Amt. _____ <input type="checkbox"/> ON FILE <input type="checkbox"/> ATTACHED			
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.			
Proposed casing program:		Approved casing - To be filled in by State Geologist	
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: 20012
Approval Date: 1-3-77
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.

MISSOURI OIL AND GAS COUNCIL
WELL LOCATION PLAT

Form OGC - 4

Owner: MO Geol. Survey

Lease Name: ERDA TS 10-S County, BARTON

15 feet from (N) (S) line and 105 feet from (E) (W) line of Sec. 20 Twp. 33N Range 33W

X							

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 State of Missouri
E.R.D.A.
 Address Barton County
 City & State Nevada, Missouri

Boring No. S-10 Sheet 1 of 2
 Surface Elevation _____ Offset _____
 Date Started 1/17/77 Completed 1/20/77
 Driller J. Wright Rig CME 750

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

Sec. 20, T. 33N., R. 33W.

DEPTH		METHOD	PENETRATION RECORD		CORE RECOVERY	SAMPLE DESCRIPTION COLOR-MATERIAL-MOISTURE-CLAY CONSISTENCY SAND DENSITY
FROM	TO		POCKET PENETRO-METER	NO. OF BLOWS		
0.0'	5.0'	Air				Clay, red-brown
5.0'	15.0'	Air				Shale, light brown
15.0'	19.0'	Air				Shale, gray, silty
19.0'	20.5'	Air				Coal, shaly
20.5'	24.0'	Air				Underclay, soft
24.0'	34.0'	Air				Shale, medium to dark gray
34.0'	34.5'	Air				Coal, shaly
34.5'	44.0'	Air				Shale, medium, gray, fissile
44.0'	45.0'	Air				Underclay, soft
45.0'	64.0'	Air				Shale, dark gray, fissile
64.0'	65.0'	Air				Coal, shaly
65.0'	68.0'	Air				Underclay, soft, gray
68.0'	71.0'	Air				Sandstone, oil saturated
71.0'	80.0'	Air				Siltstone and sandstone, interbedded, oil saturated
80.0'	120.0'	Air				Shale, dark gray, fissile

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

TEST BORING LOG

Project State of Missouri

Boring No. S-10 Sheet 2 of 2

Surface Elevation _____ Offset _____

Address _____

Date Started _____ Completed _____

City & State _____

Driller _____ Rig _____

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DEPTH		METHOD	PENETRATION RECORD		CORE RECOVERY	SAMPLE DESCRIPTION COLOR-MATERIAL-MOISTURE-CLAY CONSISTENCY SAND DENSITY
FROM	TO		POCKET PENETRO-METER	NO. OF BLOWS		
120.0'	130.0'	Air				Shale, dark gray, carbon fragments
130.0'	149.0'	Air				Shale w/sandstone layers, gray
149.0'	150.0'	Air				Coal
150.0'	152.0'	Air				Underclay, soft
152.0'	162.5'	Air				Shale, medium gray, fissile
162.5'	164.0'	Air				Coal
164.0'	165.0'	Air				Underclay, firm
165.0'	190.0'	Air				Shale, dark gray
190.0'	195.0'	Air				Sandstone, tr. of coal at 193.0'
195.0	205.0'	Air				Shale light gray w/chert fragments
205.0'	Total Depth					

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

FR & COMP

WILDCAT

STATE	MISSOURI	8-5-94	MAP NO.	S-T-R	20-33N-33W	S
OPER	MISSOURI GEOL SURVEY			SPOT	APP NW NW NW	INIT
	P O BOX 250, ROLLA, MO			CO	BARTON	S
WELL	10-S ERDA - TS			ELEV	868 GR	FIN
CONTR	LAYNE WESTERN			15' fml, 105' fwl of Sec		
FIELD	WC					
IP	D & A					
	API 24-011-20012					

SPUD 1-17-77

No Surf Csg, show hvy Oil 70-75 & 155-160

RTD 205, log

D & A COMPLETED 1-20-77

TOPS NOT AVAILABLE

RTD 205 + 663

TD IN CHEROKEE

COMP ISSUED 8-29-77



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