

Permit #: 20001
County: Cedar
CONFIDENTIAL UNTIL: _____

Date Issued: 6-26
Date Cancelled: _____
Date Plugged: 6-21-26

Final IDmas

COMMENTS:

OGC FORMS	Date Received
1	
2	
3	
3i	6-76
4	
4i	
5	
6	
7	8-4-76
8	
11	
12	
Misc. Form 2	

	TYPE	ID #	Date Received
Logs	test boring		
Samples	chip core		
	water		
Analyses	core		

Additional Submitted Data:

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**MISSOURI OIL AND GAS COUNCIL
PLUGGING RECORD**

Form O&G 7

Owner MO Dept. of Natural Resources		Address Rolla, MO	
Name of Lease	Well No.		

Location of Well Hole No. 3	Sec. Twp. R. or Block & Survey	County Cedar Co.
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Application to drill this well was filed in name of	Has this well ever produced oil or gas NO	Character of well at completion (initial production) Oil (bbls./day) Gas (MCF/day)		Dry?
Date Abandoned 6/21/76	Total depth 132'	Amount well producing prior to abandonment Oil (bbls./day) Gas (MCF/day)		Water (bbls./day)

Name of each formation containing oil or gas. Indicate which formation open to well bore at time of abandonment	Fluid content of each formation	Depth interval of each formation	Size, kind & depth of plug used. Indicate zones grouted (cemented), giving amount cement
Cherokee Group			

Size pipe	Put in well (ft)	Pulled out (ft)	Left in well (ft)	Casing depth and method of parting casing (shot, rapped, etc)	Packers and shoes
	None				

Was well filled with mud-laden fluid? NO	Indicate deepest formation containing fresh water
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NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE

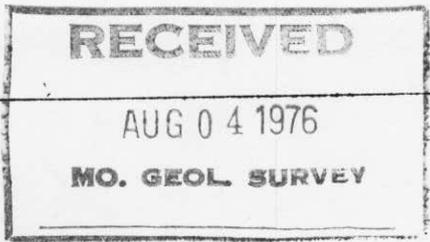
Name	Address	Direction from this well

Method of disposal of mud pit contents **Pumped to waste**

Use reverse side for additional detail **Test hole - cutting backfill to 105'; grout filled to surface - 12 lb. cement per gallon water.**

File this form in duplicate with

CERTIFICATE: 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.



C. P. ...
Signature

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL DEEPEN PLUG BACK

NAME OF COMPANY OR OPERATOR DNR- Geol. Sur. DATE June '76
P.O. Box 250 Rolla MO
Address City State

DESCRIPTION OF WELL AND LEASE			
Name of lease USGS - TS	Well number 3	Elevation (ground) 945	
WELL LOCATION (give footage from section lines) <u>25</u> ft. from (W) (S) sec. line <u>1800</u> ft. from (E) (W) sec. line			
WELL LOCATION Section <u>28</u> Township <u>35N</u> Range <u>28W</u>		County Cedar	
Nearest distance from proposed location to property or lease line: <u>NA</u> feet		Distance from proposed location to nearest drilling, completed or applied - for well on the same lease: <u>NA</u> feet	
Proposed depth: 150	Rotary or Cable tools	Approx. date work will start June 1976	
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 <u>NA</u> 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. <u>None</u>	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: 20001
Approval Date: _____
Approved By: Wallace B. House

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.

FR & COMP **WILDCAT**

STATE	MISSOURI	12-1-100	MAP NO.	S-T-R	28-35N-28W	C
OPER	USGS - DNR			SPOT	APP SE SW SE	INIT
	BOX 250, ROLLA, MISSOURI			CO	CEDAR	C
WELL	3 - CORE TEST			ELEV	945 GR	FIN
CONTR	LAYNE - WESTERN			25'fs1, 1800'fel of Sec		
FIELD	WC					
IP	D & A					
	API 24-039-20001					

SPUD 6-25-76, No surface csg
 Wireline cored from 14.9-132 ft.
 No show of asphalt/hvy oil
 DTD 132, GR & IES Logs
D & A, FIRST REPORTED & COMPLETED 6-26-76

Note: Detailed litho description also available at
 Kansas Geological Society, Wichita, Ks.

GR SPL TOPS:
 BLUE JACKET 0.0 + 945.0
 DRYWOOD COAL 25.0 + 920.0
 B/DRYWOOD COAL 27.0 + 918.0
 ROWE COAL 36.0 + 909.0
 B/ROWE COAL 36.2 + 908.8
 WARNER 39.0 + 906.0
 RIVERTON 93.7 + 851.3
 GRAYDON 124.8 + 820.2
 MISS 126.3 + 818.7
 DTD 132.0 + 813.0
 TD IN MISS

COMP ISSUED 12-6-76

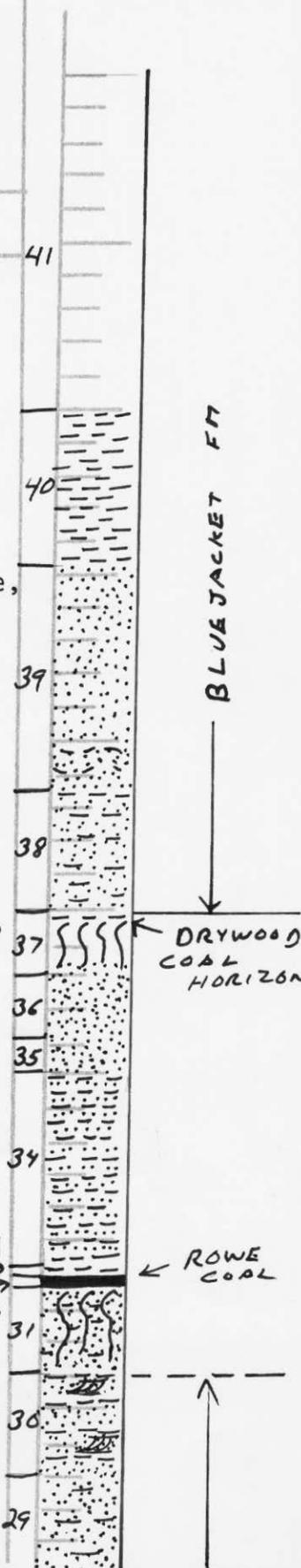
 Petroleum Information Corporation
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Test Hole No. 3 DNR-USGS Test drilling program for asphaltic sandstone
 NX Core, logged by Richard J. Gentile

QUADRANGLE: Eldorado Springs South
 945' elevation top of hole

COUNTY: Cedar

LOCATION: SE1/4, SW1/4, SE1/4		SEC. 28	T. 35N	R. 28W	DATE: 6/25-26/76
<p>LOCATION DESCRIPTION: 25 ft. north of south line sec. 28 and 1800 ft. west of east line. North side of State Hwy. 97, 18ft. off of asphaltic pavement; 600 ft. east from Y in road of Hwy. 97 south and County road BB west. About 6-1/2 miles south of jct. Hwys. 54 and 32 at Eldorado Springs.</p>					
DEPTH		BED NO.	LITHOLOGY		
XXXXXXX	XXX				
0.0	10.0	41	no core, soil and sandy red clay	41	
10.0	14.9	40	no core; cuttings of gray shale too soft to core	40	
14.9	21.4	39	ss., weathered brown, fine grained (1/8 mm.) quartzose, few ironstone concretions and hollow casts to 11 ft. dia.; intercalated with wavy gray micaceous shale laminae in bottom	39	
21.4	25.0	38	ss., med. gray clayey, laminated	38	
25.0	27.0	37	clay, lt. gray, sandy, fossil root impressions in top, laminae of dk. shale at top may represent a coal horizon	37	← DRYWOOD COAL HORIZON
27.0	28.8	36	ss., med. gray, micaceous, fine grained, specks of fossil plant material; appears homogenous with few if any structures	36	
28.8	30.0	35	ss., med. gray, salt and pepper appearance, intercalated with lt. gray ss. laminae; small scale cross-stratification	35	
30.0	35.8	34	ss., med. to lt. gray, intercalated with dk. gray shale laminae; cross-bedded to homogeneous at bottom	34	
35.8	36.0	33	clay, sandy, slickensided, interbedded laminae of coal	33	← ROWE COAL
36.0	36.2	32	coal, pyritized plant bearing concretions to .05 ft. dia.	32	
36.2	39.0	31	ss., fine grained, fossilized roots pyritized in places, clayey	31	
39.0	42.2	30	ss., lt. gray, thin bedded, mica flakes along bedding planes, small scale cross bedding; intercalated with laminae of dk. gray shale	30	



TEST CORE 3 (CONT.)

42.2 50.0 29
 50.0 60.0 28
 60.0 69.0 27
 69.0 71.3 26
 71.3 73.0 25
 73.0 79.0 24
 79.0 79.6 23
 79.6 80.0 22
 80.0 82.0 21
 82.0 86.0 20
 86.0 90.0 19
 90.0 91.7 18
 91.7 91.9 17
 91.9 92.2 16
 92.2 93.7 15
 93.7 94.1 14
 94.1 95.2 13

ss., thick even beds to cross stratified; fine grained (1/8 mm. dia.); few dk. gray shale laminae, micaceous; 2 or 3 distorted, discontinuous coal laminae 1 ft. from bottom represents transported wood

same as overlying unit but with .2 ft. zone of discontinuous randomly oriented coal pieces at 54.0 to 54.2 ft.; (a breccia with clasts of coal); .2 ft. zone of inclined dk. gray shale lenses from 56.2 to 56.4 ft.

ss., fine grained, quartzose, micaceous, thick bedded, lenses of dk. gray shale every several inches in section

ss., fine grained, cross-stratified; small irregular shaped light gray blotches cemented with CaCO₃

ss., lt. gray, cross bedded, interbedded with med. gray shale

ss., fine grained, massive appearance

ss., with discontinuous randomly oriented coal laminae

shale, med. gray

ss., lt. gray, cross-bedded to convolute bedded; interbedded with med. gray shale

shale, very sandy, med. gray; few lt. gray convoluted fine grained ss. lenses

shale, med. gray, very sandy

ss., clayey, med. gray, fine grained to coarse

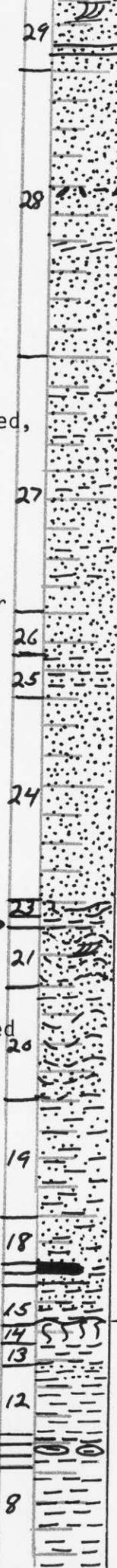
coal, lenticular, pyrite

ss., lt. gray, med. grained, interbedded with med. gray fine grained ss.; lenses of pyritized coal and plant fragments throughout interval; sharp contact with underlying unit

ss., lt. gray, ripple marked and dk. gray shale interlaminated in top half; grading into predominantly dk. shale at bottom (black and white photo taken at 93.0)

clay, lt. gray, fossil roots, sharp wavy contact with overlying unit (a scour surface)

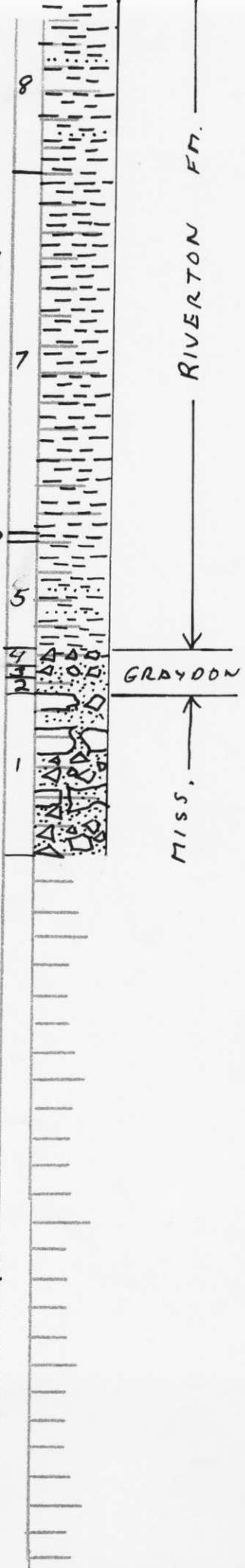
clay, lt. gray



WARNER FT

TEST CORE 3 (CONT.)

95.2	97.7	12	shale, med. gray at top to black at bottom; few lenses of lt. gray siltstone
97.7	98.0	11	shale, black
98.0	98.15	10	clay, concretionary, with cone-in cone structure, calcareous; high S.G.
98.15	98.3	9	shale, black, high S.G.
98.3	108.0	8	shale, black; 2 or 3 zones to .1 ft. thick of small siderite concretions in top half, a few thin lt. gray siltstone lenses, some pyrite
108.0	120.7	7	shale, black, a few thin lt. gray horizontal ss. laminae and pods; small nodules of pyrite; vertical joint filling of calcite at 115.0 ft. (The fracturing in angular fragments of this shale makes drilling difficult.)
120.7	120.9	6	shale, dk. gray with lt. gray patches; resembles a bioturbite
120.9	124.8	5	shale, dk. gray grading into black shale at bottom; horizontally inclined lt. gray laminae and pods of fine grained ss.
124.8	125.1	4	breccia; chert fragments to .05 ft. dia. with dk. gray clay matrix
125.1	125.6	3	breccia, mostly large .2 ft. angular fragments of bluish-white chert with ss. matrix
125.6	126.3	2	ss., poorly sorted; rounded clear quartz grains and angular pieces of chert to coarse sand size; non calc.
126.3	132.0	1	breccia, chert beds to .5 ft. thick; solution pockets filled with poorly sorted ss. of fine to coarse size range, clayey, some pseudo oolites of clay to sand grain size; also pyrite concretions to sand grain size



0.0 to 25.0 FT. Bluejacket

25.0 to 39.0 Rowe-Drywood Fms.; Rowe coal 36.0 to 36.2 ft., Drywood coal horizon AT 25.0 FT.

39.0 to 93.7 Warner Fm.

93.7 to 124.8 Riverton Fm.
124.8 to 126.3 GRAYDON FM.

125.1 to 132.0 This interval represents chert rubble with ss. matrix underlain by bedded chert with ss. filling solution cavities probably where ls. was dissolved out. The top of the Mississippian is placed at 126.3 ft. or at top of the bedded chert.

No asphalt or heavy oil observed.

T. D. 132.0 ft.



TEST BORING LOG

Project State of Missouri

Boring No. 3 Sheet 1 of 1

Surface Elevation _____ Offset _____

Address _____

Date Started 6-25-76 Completed 6-29-76

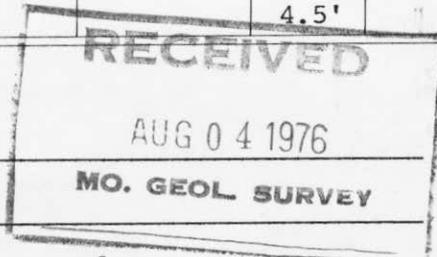
City & State Nevada, Missouri

Driller J. Haas Rig A.T.V.

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 COLOR-MATERIAL-MOISTURE-CLAY CONSISTENCY SAND DENSITY
FROM	TO		POCKET PENETRO-METER	NO. OF BLOWS		
0.0'	9.0'	WB				Yellow-brown and red-brown silty sandy clay, moist, stiff
9.0'	14.3'	WB				Gray weathered shale, moist, medium
14.3'	15.0'	WB				Red-brown weathered sandstone, moist, hard
15.0'	20.0'	CW1			5.0'	Red-brown weathered sandstone, poorly cemented, moist, hard
20.0'	30.0'	CW2			10.0'	Gray weathered sandy shale, thin bedded, moist, hard
30.0'	40.0'	CW3			10.0'	Gray sandstone, fine grained, poorly cemented, w/coal seam, hard
40.0'	50.0'	CW4			10.0'	Gray sandstone, fine grained, poorly cemented, w/coal seam, moist, hard
50.0'	60.0'	CW5			10.0'	Same
60.0'	70.0'	CW6			10.0'	Same
70.0'	80.0'	CW7			10.0'	Same
80.0'	90.0'	CW8			10.0'	Dark gray weathered shale, thin bedded, w/sandstone seam, moist, hard
90.0'	100.0'	CW9			10.0'	Same
100.0'	110.0'	CW10			10.0'	Same
110.0'	120.0'	CW11			10.0'	Same
120.0'	127.5'	CW12			7.5'	Same
127.5'	132.0'	CW13			4.5'	limestone w/chert seams, hard

REMARKS: 132.0' Total Depth (Casing, Water Loss, Etc.)



Water Level _____ Time _____ Date _____ (Completion)