

Permit #: 20014

Date Issued: 6-7-82

County: Atchison

Date Cancelled:

CONFIDENTIAL UNTIL:

Date Plugged: 7-9-82

COMMENTS:

Skipped 2-18-83

OCC FORMS	Date Received
1	
2	
3	6-7-82
3i	
4	6-7-82
4i	
5	
6	
7	7-19-82
8	
11	
12	
Misc. Form 2	

	TYPE	ID #	Date Received
Logs	Gamma Ray Neutron		
Samples	chip core		
	water		
Analyses	core		

Additional Submitted Data: Report

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

APPLICATION TO DRILL DEEPEN PLUG BACK

for an oil well or gas well

NAME OF COMPANY OR OPERATOR BRANDT PRODUCTION COMPANY, INC DATE 6-2-82
1200 Douglas Building Wichita Kansas, 67202
104 South Broadway Address City State

DESCRIPTION OF WELL AND LEASE
Name of lease: Vernon, Well number: 1, Elevation (ground): 1075
WELL LOCATION: 1980 ft. from (M) (S) sec. line 1980 ft. from (E) (W) sec. line
WELL LOCATION: Section 28, Township 64N, Range 38W, County Atchison
Nearest distance from proposed location to property or lease line: 660 feet
Proposed depth: 3190', Drilling contractor name & address: Brandt Drilling Company, Inc., Rotary or Cable Tools: Rotary, Approx. date work will start: July 5, 1982
Number of acres in lease: 160, Number of wells on lease: None, Number of abandoned wells on lease: None
Status of Bond: Single Well Amt. Blanket Bond Amt. \$40,000
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: amt 275', size 8-5/8", wt./ft. 24#, cem. 280 sx.
Approved casing -- To be filled in by State Geologist

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: Earl O. Brandt

Permit Number: #20014
Approval Date: 6/7/82
Approved By: Wallace B. Howe

- Drillers log required
E-logs required if run
Core analysis required if run
Drill stem test info. required if run
Samples required
Samples not required

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Note: This Permit not transferable to any other person or to any other location.
Remit two copies to: Missouri Oil and Gas Council
P.O. Box 250 Rolla, Mo. 65401
One will be returned for driller's signature

JUN 07 1982

WATER SAMPLES REQUIRED @

MO. OIL & GAS COUNCIL
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.

3/12/82

Missouri Oil and Gas Council
WELL LOCATION PLAT

Form OGC-4

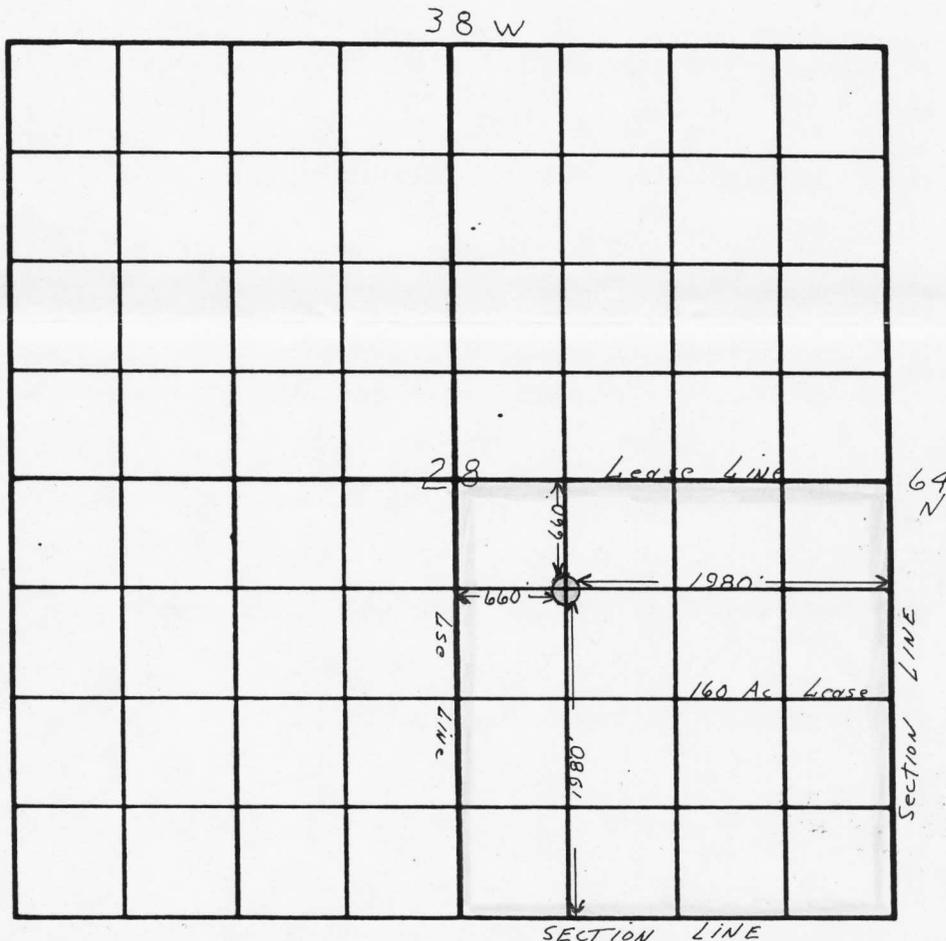
Owner: BRANDT PRODUCTION COMPANY, INC.

Lease Name: VERNON County: ATCHISON

1980 feet from S section line and 1980 feet from E section line of Sec. 28, Twp. 64 N., Range 38W
(N)-(S) (E)-(W)



SCALE
1" = 1000'



REMARKS: _____

#20014

INSTRUCTIONS

On the above plat, show distance of the proposed well from the two nearest section lines, the nearest lease line, and from the nearest well on the same lease completed in or drilling to the same reservoir. Do not confuse survey lines with lease lines. See rule 10 CSR 50-2.030 for survey requirements. Lease lines must be marked.

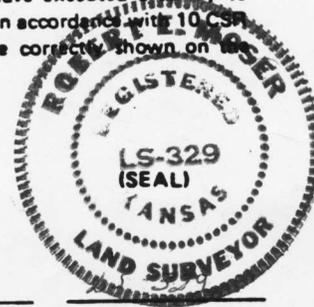
This is to Certify that I have executed a survey to accurately locate oil and gas wells in accordance with 10 CSR 50-2.030 and that the results are correctly shown on above plat.

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Remit two copies to: Missouri Oil and Gas Council
P.O. Box 250, Rolla, MO 65401
One will be returned.

MO. OIL & GAS COUNCIL
R. E. Hoar

Registered Land Surveyor
6-2-82



Number

PLUGGING RECORD

Owner Brandt Production Company, Inc.		Address 1200 Douglas Building 104 S. Broadway Wichita, KS. 67202			
Name of Lease Vernon		Well No. 1	Permit Number (OGC-3 or OGC-3I number) 20014		
Location of Well Gen-NW-SE		Sec-Twp-Rng or Block & Survey 28-64N-38W		County Atchison	
Application to drill this well was filed in name of Brandt Production Company, Inc.		Has this well ever produced oil or gas? No.	Character of well at completion (initial production) Oil (bbls/day)		Dry? Yes
Date Abandoned 7-9-82	Total depth 2360'	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 plugs used. Indicate zones squeeze cemented, giving amount cement.	
Size pipe	Put in well (ft)	Pulled out (ft)	Left in well (ft)	Give depth and method of parting casing (shot, ripped, etc.)	Packers and shoes
8-5/8"	230'	None	230'		
Was well filled with mud-laden fluid? Yes		Indicate deepest formation containing fresh water. Surface Gravels			
NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE					
Name LEASE OWNER: Brandt Oil Company		Address 1200 Douglas Bldg., 104 S. Broadway Wichita, KS. 67202		Direction from this well:	
NOTE: Brandt Oil Company is the "parent company" of Brandt Production Company, Inc.; Brandt Oil Company owns the Vernon Lease and all offsetting oil and gas leases.					
Method of disposal of mud pit contents: Jet off, allow to dry & cover with top soil					
Use reverse side for additional detail. (See Plugging Method on next page)					
File this form in duplicate with NOTE: This form was filed in duplicate on 7-13-82 with the Missouri Oil & Gas Council, P. O. Box 250, Rolla, MO. 65401					
CERTIFICATE: I, the undersigned, state that I am the <u>President</u> of the <u>Brandt Production Company, Inc.</u> (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	<u>Earl O. Brandt</u> Earl O. Brandt

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JUL 19 1982

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

One will be returned.

MO. OIL & GAS COUNCIL

3/12/82



BRANDT PRODUCTION COMPANY, INC.
1200 DOUGLAS BUILDING WICHITA, KANSAS 67202

•PHONE (316) 267-4335

July 10, 1982

GEOLOGICAL REPORT
BRANDT PRODUCTION COMPANY, INC.
#1 VERNON
C-NW-SE SECTION 28-64N-38W
ATCHISON COUNTY, MISSOURI

The following is my Geological Report covering the Brandt Production Company, Inc. #1 Vernon located in the C-NW-SE Section 28-64N-38W, Atchison County, Missouri. This rank wildcat test was under Geological supervision from 550 feet to total depth. Samples were examined from 240 feet to total depth. There were no shows recorded; consequently, there were no drill stem tests or cores taken. A set of samples have been placed on file at the Missouri Department of Natural Resources, Rolla, Missouri. A Gamma Ray Neutron Guard/Caliper Log was run from 0 feet to total depth.

OPERATOR:	BRANDT PRODUCTION COMPANY, INC.
CONTRACTOR:	BRANDT DRILLING CO., INC.
LOCATION:	C-NW-SE SECTION 28-64N-38W
ELEVATION:	1047 GR; 1053 KB
DRILLING COMMENCED:	JULY 6, 1982
DRILLING COMPLETED:	JULY 9, 1982
SURFACE CASING:	8-5/8" SET @ 230 FEET WITH 175 SACKS CEMENT
DRILL STEM TESTS:	NONE
ELECTRIAL SURVEYS:	GAMMA-NEUTRON-GUARD/CALIPER
RESULTS:	DRY AND ABANDONED

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Elevation: 1053 KB

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description (See * below)
	0	218	Glacial Drift
	218	295	Lime
	295	333	Shale
	333	404	Lime
Heebner	404	410	Shale Black Carbonaceous
	410	430	Lime
	430	593	Shale & Sandy Shale
Lansing	593	640	Lime, Crystalline
	640	740	Lime & Shale
	740	913	Lime
	913	1062	Lime & Silty Shale
Cherokee	1062	1065	Shale
	1065	1204	Shales, Silty
	1204	1212	Sand
	1212	1293	Shale
	1293	1502	Shale & Silty Shale
	1502	1512	Sand
	1512	1544	Sandy Shale
	1544	1553	Sand
	1553	1716	Shale & Sand
	1716	1729	Sand
	1729	1752	Shale
	1752	1765	Sand
	1765	1788	Shale
	1788	1822	Sand
	1822	1873	Shale
	1873	1919	Sand
	1919	1932	Shale
Mississippian	1932	2134	Dolomite
Kinderhook	2134	2235	Shale, dolomitic
	2235	2360	Dolomite
		2360	Rotary Total Depth
			<u>SURFACE PIPE:</u>
			8-5/8" set at 230' with 175 sacks Cement. Cement Circulated)
			<u>PLUGGING DATA:</u>
			Plug & 10 Sacks Cement @ 230' (Base of Surface Casing) 2 Sacks Cement in Rat Hole Plugged by Brandt Drilling Co., Inc.

*Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

Attach drillers log or other acceptable log of well if available

This Well Completion or Recompletion report and well log shall be filed with the Missouri State Geologist not later than 30 days after project completion.

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ELECTRIC LOG TOPS

Deer Creek	257 (+796)
Tecumseh	275 (+778)
Queen Hill	348 (+705)
Heebner.	404 (+649)
Lansing.	593 (+460)
Base Kansas City	913 (+140)
Cherokee Shale	1062 (-9)
Cherokee Sand.	1204-12 (-151)
Cherokee Sand.	1293-1350 (-240)
Cherokee Sand.	1502-12 (-449)
Cherokee Sand.	1644-53 (-591)
Cherokee Sand.	1716-29 (-663)
Cherokee Sand.	1752-65 (-699)
Cherokee Sand.	1788-1822 (-735)
Cherokee Sand.	1873-1919 (-820)
Mississippian.	1952 (-899)
Kinderhook Shale	2134 (-1081)
Hunton	2235 (-1182)
Log Total Depth.	2355 (-1302)
Rotary Total Depth	2360 (-1307)

Zones of Interest:

The Cherokee Section consisted of a series of well developed lenticular sands of varying thickness, ranging from 9 to 34 feet. There were 8 individual sand bodies comprising a total of 190 feet of sand. The following is a brief description of these Sands:

- 1204-1212 Sand, light gray, very fine to nearly silty, poorly sorted, poor porosity. No Show.
- 1293-1350 Sand, gray, fine to medium, very friable, fair porosity. No Show.
- 1502-1512 Sand, Gray, fine friable shaley, poor porosity. No Show.
- 1644-1653 Streaks of white, fine to very fine friable frosted subangular glassy sand, fair porosity. No Show.
- 1716-1729 Sand and Quartzite, white, clean, frosted, very coarse, rounded to subangular, mostly unconsolidated, very friable. Few clusters seem to have silica cementation.

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- 1788-1822 Sand, white, clear subangular, friable, bearing some black shale inclusions, becoming mostly unconsolidated and more coarse near base. Good porosity. No Show.
- 1873-1919 Quartsitic Sand, fine to very coarse, clear, frosted subangular, subrounded, mostly unconsolidated, fair to good, apparent porosity. No Show.
- Mississippian 1952 (-899)
- 1952-1971 White to gray, coarse fossil mottled limey dolomite and some reddish tan, finely sucrosic dolomite, traces of white and tan chert, poor porosity. Two (2) feet of gray and white mottled chert at top.
- 2081-2134 Alternating beds of tan sucrosic and occasionally fine crystalline dolomite and varying shales. Poor sucrosic porosity.
- Hunton 2235 (-1182)
- 2238-2263 Dolomite, buff to tan to salmon colored, mostly chalky, marly, few pieces fine to medium crystalline, poor porosity. No Show.
- 2304-2355 Dolomite, buff to tan, mealy to granular and tan to dark brown, very fine crystalline, dense, very poor porosity. No Show.

SUMMARY:

The captioned test was high on the younger beds. The Heebner shale was 12 feet high with respect to the #1 Salmon, approximately 3 miles to the west. The Douglas shale interval thickened, as well as the Lansing Kansas City and, by the time the Base of the Kansas City was reached, the #1 Vernon was only 2 feet high. The Cherokee Section developed approximately 6 feet thicker, although the total sand development was approximately one-half of that developed on the #1 Salmon, located in Section 28-64N-39W.

SUMMARY (Continued):

The top of the Mississippian was encountered at 1952 (-899), approximately 18 feet low to the #1 Salmon. The top of the Hunton is somewhat questionable on this well. A white to salmon-colored chalky, marly to slightly crystalline dolomite was encountered at 2233 (-1182). Lithologically, this appears to resemble the Devonian portion of the Hunton. However, it does not fit the regional iso-pach for the Hunton. If the Hunton is indeed called at this point, the Kinderhook thickness is 101 feet. This is in contrast to a Kinderhook thickness of 197 feet encountered in the #1 Salmon located in the approximate center of the SW-NE of Section 24-64N-39W, only 3 miles to the northwest, and a thickness of 249 feet in the vicinity of the Corning Field area in Section 21-63N-40W. The other alternative is that this could represent the equivalent of the Snider Creek Section; however, it does not appear to fit the lithologic description. The Hunton pick is questionable and is subject to further verification.

Porosity was not well-developed in the upper portion of the Hunton. There were no shows encountered. The election was made to abandon the test at 2360 feet. The hole was plugged according to the requirements of the State of Missouri Oil & Gas Council on July 9, 1982.

Respectfully submitted,


Earl O. Brandt
Registered Petroleum Geologist

EOB:vfy

Set a plug - 10sx at base of surface
casing. Casing set in Penn. through Glacial D.F.

suggested by Don Miller

Bruce Metzger