

15-151-21084-00-05

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SPINES EXPLORATION

#1 WBT FARMS

NE NE NE, 29-28s-15w

PRAIT COUNTY, KANSAS

RECEIVED  
STATE CORPORATION COMMISSION

JUN 29 1983

CONSERVATION DIVISION  
Wichita, Kansas

WELL HISTORY

Operator Spines Exploration  
Well #1 WBT Farms  
Location NE NE NE, 29-28s-15w  
Contractor D.R. Lauck Rig 1  
Tool Pusher Doyle Folkerts  
Geologist Robert W. Smith  
Elevation GL 2064 KB 2069  
Spud 20 Feb 82  
Surface Casing 428' of 8 5/8"  
Commenced 20 Feb 82  
Bit Size 7 7/8  
Completed 1 March 82  
RTD/LTD 4750/4748  
Mud Davis Mud and Chemical  
Gas Detector Davis Mud and Chemical  
Testing Western Testing  
Logging Dresser Atlas  
Samples KGS Well Sample Library  
Status Ran 4750' of 4 1/2"

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CHRONOLOGICAL HISTORY

19 Feb 82		MORT
20	0-1075	Spud, Set Surface, WOC, Commence
21	1075-2345	Bit Trip @ 2013, Survey 3/4
22	2345-3030	
23	3030-3600	
24	3600-4180	
25	4180-4495	Short Trip for DST #1
26	4495-4530	Clear tight spots, condition hole, strap 1.24' long to board, Survey 3/4, DST #1
27	4530-4615	DST #2
28	4615-4689	Finish DST #2, condition hole, start DST #3
1 Mar 82	4689-4750 (TD)	Finish DST #3, condition hole, Start Log
2		Finish Log, run 4750' of 4 1/2"

BIT RECORD

7 7/8	Reed	Y-11J	430-2013
7 7/8	Reed	HS 51J	2013-TD

FORMATION TOPS

	E-Log	Samples
Heebner	3938(-1869)	3941(-1872)
Brown Limestone	4088(-2019)	4094(-2025)
Lansing	4111(-2042)	4112(-2043)
B/KC	4463(-2394)	4473(-2404)
Marmaton	4483(-2414)	4489(-2420)
Cherokee	4579(-2510)	4581(-2512)
Cherokee Sand	4583(-2514)	4584(-2515)
Mississippi	4599(-2530)	4599(-2530)
Kinderhook	4661(-2593)	4665(-2597)
Kinderhook Sand	4664(-2596)	4666(-2598)
Viola	4700(-2631)	4721(-2652)
TD	4748	4750

DST RESULTS

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- #1 KC/Marmaton, 4426-4495, 45-90-30-60  
IHP 2639 FHP 2566 BHT 127  
IFP 71-71 Weak blow (1") slowly decreased to 1/4"  
ISIP Not valid - picked tool up too high shutting in.  
FFP 97-217? No blow, flushed tool, still no blow - may have picked tool up too high again, as there was a short 5 inch blow following flush which died immediately when weight on tool was increased.  
FSIP 301 ?  
Recovery: 280' drilling mud  
Note: This test yielded only one chart due to failure of top clock.
- #2 Mississippi, 4588-4615, 27-120-20-120  
IHP 2526 FHP 2326 BHT 133  
IFP 807-1042 Gas to surface in 3 minutes, gauged 310,000 CF/day  
at 5 minutes, 78,100 CF/day  
at 10 minutes, 47,700 CF/day  
at 20 minutes. Flowed oil in 23 minutes - 40 gravity.  
ISIP 1581  
FFP 1082-1199 Flowed oil in 11 minutes  
FSIP 1581  
Recovery: 3830' gassy oil, 200' muddy water with 61,000 ppm chlorides  
Note: Test was set on slips till daylight.
- #3 Mississippi/Kinderhook, 4647-4689, 30-60-60-120  
IHP 2397 FHP 2318 BHT 128  
IFP 45-45 Weak blow decreased to 1/2"  
ISIP 1151  
FFP 56-67 Weak blow (1/2") decreased to 1/4"  
FSIP 1185  
Recovery: 30' slightly oil cut mud (2% oil)  
90' oil specked mud (less than 1% oil)

GEOLOGICAL COMMENTS

During drilling operations the following shows were noted:

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- @4460' (approx) Near the base of the Kansas City which in the samples is a cream to tan, microcrystalline to finely crystalline, cherty limestone with some poor intercrystalline and caustic porosity, some stain and gilsonite. There was a fair show of free oil with fair odor and fair fluorescence. (See results DST #1)
- @ 4480' (approx) In the Marmaton which in the samples is a cream to brown, fossiliferous/oolitic, microcrystalline to finely crystalline limestone with some poor interoolitic and intercrystalline porosity. There was a fair show of free oil with a faint odor. (See results DST #1)
- @ 4525' (approx) In the Marmaton which at this point in the section is indicated by the samples to be a cream to tan, brown, microcrystalline to finely crystalline, fossiliferous, soft to medium hard limestone, chalky in part with much dark interbedded material, a trace of poor to fair pin point porosity and some gilsonite. There was no odor or fluorescence but a very poor show of free oil was observed in one rock from the 4530' 60 minute circulation sample. This show was accompanied by a 6 unit gas kick with a 3 unit recycle. (Zone not tested)
- @ 4600' (approx) In the Mississippi, which in the samples is a white, varicolored, mostly fresh but some tripolitic chert with much stain and Gilsonite and poor to good solution and tripolitic porosity. There was a fair to good show of free oil with a few gas bubbles and a 4 unit gas kick with a 2 unit recycle. (See results DST #2)
- @ 4650' (approx) Also in the Mississippi which in the samples is a mostly white, fresh chert with Gilsonite, some stain and fair to good solution (vuggy) porosity. There was a possible fair to good show of free oil. (See results DST #3)
- @ 4665' (approx) In the Kinderhook which in the samples is a tan, gray, green, very fine to fine grained, subangular to subrounded, moderately well sorted, soft to medium hard sandstone, poorly to fairly well cemented with a non-calcareous cement, much Gilsonite and poor intergranular porosity. There was a fair show of free oil with good fluorescence and a few gas bubbles. (See results DST #3)

Following Log Evaluation and because of positive results from DST #2 it is recommended that pipe be set through the Mississippi for commercial oil production. It is further recommended that the Kinderhook and possibly the Marmaton formations be considered for additional testing for possible commercial potential before abandoning this well.

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Respectfully submitted

A handwritten signature in black ink, appearing to read 'RWS', with a large, stylized flourish extending to the right.

Robert W. Smith  
Geologist