

Dubois and Johnson

Consulting Geologists

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GEOLOGIC REPORT

Billy Oil Inc.

#2 Fitzgerald

100'N SW NW SW 31-8S-22E

Leavenworth County, Kansas

Daily Progress:

10/26 Moved on, rigged up, set 40' of 7" surface casing, shut down for weekend
10/28 Drilled out beneath surface casing 9:00 a.m., Bit trip 914'
10/29 940' drilling, Bit trip 1454'
10/30 TD 1510' 3:00 a.m., set 1490' of 4 1/2" production casing

Service Companies:

Contractor: J-J Drilling Inc.

Cementing: Consolidated Oil well Services

Formations (sample):

	Billy Oil #2 Fitzgerald 100'N SW NW SW 31-8S-22E <u>1080 GL</u>	Structural Relation to Billy #1 Fitzgerald SW SW NW <u>31-8S-22E</u>	S&V #2 Goetz SE SE SE <u>30-8S-22E</u>
Heebner	42 (+1038)		
Lansing	339 (+741)	+6	-8
Base Kansas City	658 (+422)	+8	+1
Cherokee	901 (+179)	+8	+8
Coal Marker	1279 (-199)	+2	-6
Lower Cherokee SS	1307 (-227)	-9	+20
Lower McLouth	1404 (-324)	-4	abs
Upper Burgess	1417 (-337)	+7	+11
Lower Burgess	1446 (-366)	-5	-6
Mississippi St. Louis	1454 (-374)	flat	-3
Spergen	1474 (-394)	-4	-9
RTD	1510 (-430)		

Hydrocarbon Shows (Sample):

- 1307-1314 Lower Cherokee Sandstone (Billy Zone)
Sandstone, white, fine grained, subrounded, well sorted, mostly fair porosity, shaley at top, very slight show of heavy oil, no odor, no fluorescence, fair cut. Non-commercial.
- 1404-1412 Lower McLouth Sandstone
Sandstone, light gray with spotty stain, fine grained, subangular, well sorted, quartzose, cherty, fair porosity, some tightly cemented, scum of oil. Non-commercial.
- 1417-1430 Upper Burgess Sandstone
Sandstone, light brown, fine to medium grained, subangular, moderately sorted, quartzose, cherty, good porosity, show of free gassy oil, good odor, tarry at base. Likely commercial gas zone.
- 1446-1453 Lower Burgess Sandstone
Sandstone, white, fine to medium grained, subrounded, moderately sorted, tight with some fair porosity, good odor, show of tarry oil. May be commercially productive.

Summary:

Production casing was set to further test oil and gas shows in the Burgess sandstones. Recommended initial perforation interval is 1446 to 1451 sample depths. The Upper Burgess should remain behind pipe initially while the Lower Burgess is tested through casing. Eventually, the Upper Burgess should be opened up from 1317 to 1326 sample depths as this is the most economic looking zone encountered in the captioned well.

Respectfully submitted,

Daniel T. Johnson

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