

Drilling Report Fanshier 20-1 365' FNL 1615'FEL N/2 of the NE/4 Section 20 21s-13w Stafford County, Kansas

Contractor: Southwind Drilling Rig #1

Ground Elevation: 1899'

Kelly Bushing Elevation 1909'

9-8-15 to 9-10-15

File permit with KCC, meet with surface tenant for roads and pits, stake location, perform required pit inspection, build location, run waterline from American Warrior Inc. water well on the Fischer Lease, fill pits, start moving in Southwind Drilling Rig #1.

9-11-15

Finish moving in Southwind Drilling, spud surface, drilling surface.

9-12-15

Run and set 686' new 8 5/8" 23# surface casing, cement report to be attached, WOC, start drilling under surface @ 6:45 p.m.

Note: 7 7/8 bit is new Varel HE-21 IADC 517

9-13-15

8:45 a.m. depth is 1675' and drilling penetration rate to current is 76ft/hr, 8:30 p.m depth is 2312' penetration rate currently 60 ft/hr. Expect mud up @ 2600ft during morning tower.

9-14-15

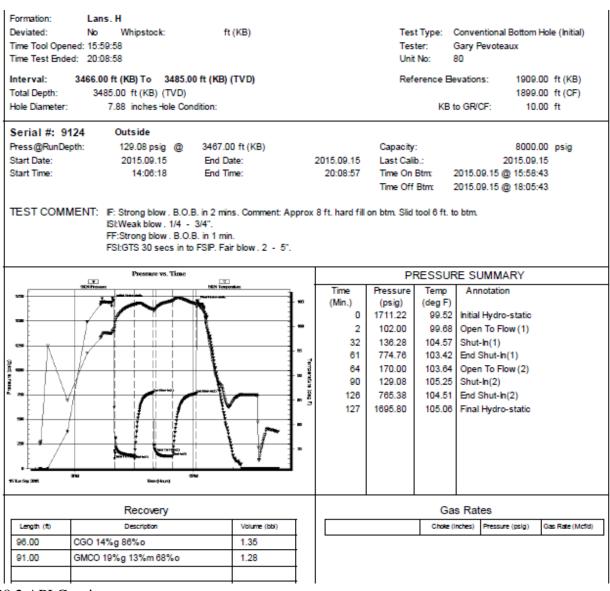
8:47 p.m. depth is 3222' and drilling ahead.

9-15-14

9:00 a.m., circulating samples @3485' Lansing "H", 10:50 a.m, short trip for DST #1 DST #1 3466-3485 LANSING "H" 30-30-30-30

SHOW/ROCK DESCRIPTION: 3485' 30" CFS, LIMESTONE, BROWN TAN, GOOD VUG POROSITY, SOME OOC POR, GOOD SHOW BLK FREE OIL IN SECONDARY POROSITY, CONTINUOUS AND RAPID STREAMING HALO CUT, GOOD ODOR

8:17 p.m., TIH W/Bit after DST #1,



38.2 API Gravity

6:18 a.m., starting out of the hole for DST #2 3485-3546 Kansas City I, J, and K SHOW/Rock Description:

"I" Zone- LS, WHT, FRI, FAIR SHOW FREE OIL IN INT GRAN POR, MILKY STRAW CUT, OIL IS DK BRN, F-VF XLN, GOOD ODOR

"J" ZONE- LS, WHT, VFN-FN XLN, OCCASIONAL MED XLN POR, RARE SHOW FREE OIL, STREAMING MILKY CUT, SLT ODOR

"K" ZONE- LS, WHT, LT BRN, FN-XLN POR, RARE VUG POR, POOR SHOW FREE OIL IN POROSITY, FAINT ODOR

TIMES 30-30-30-30 API GRAVITY 28.7

Formation: Deviated: Fime Tool Oper Fime Test Ende		ft (KB)			Tes	ter:		ntional Bottom Hol evoteaux	ie (Reset)
nterval:	3485.00 ft (KB) To 3546.00 ft (F	(B) (TVD)			Refe	erence B	evation	s: 1909.00	ft (KB)
Total Depth:	3546.00 ft (KB) (TVD)							1899.00	
Hole Diameter:	7.88 inches Hole Condition	Poor				KB	to GR/C	XF: 10.00	ft
Serial #: 91	24 Outside								
Press@RunDe	pth: 95.34 psig @ 348	6.00 ft (KB)			Capacity	:		8000.00	psig
Start Date:	2015.09.16 En	d Date:		2015.09.16	Last Cali	b.:		2015.09.16	
Start Time:	07:57:58 En	d Time:		13:26:07	Time On	Btm:	2015.0	9.16 @ 09:21:38	
					Time Off	Btm:	2015.0	9.16 @ 11:25:23	
201 COMIN	MENT: IF:Strong blow, B.O.B. in 3 IStNo blow, FF:Srong blow, B.O.B. in 4 FSt:Weak blow, 1/2 - 1 1/	secs.							
Pressure vs. Time				PRESSURE SUMMARY					
E	TO Power 90	Torqueles.	1	Time	Pressure	Temp	Ann	otation	
578			ion .	(Min.)	(psig)	(deg F)			
-	ا اسماسرا			0 2	1718.20 37.10		1	Hydro-static	
E		* 1		32	68.42	100.38		To Flow (1)	
C16	/ 1	/\ 1 '	6	61	431.52		1	Shut-In(1)	
E	//	. ! 1 1.	· Tang	62	73.64			To Flow (2)	
-	// 1		ž	91	95.34		Shut-		
789		\ <u> </u> 1.	reture (depth	122	439.80	104.93	End 9	Shut-In(2)	
- [/	/ !!!!!	1 1.	ĕ	124	1636.41	105.54	Final	Hydro-static	
20 20 200	To-park								
Recovery			Gas Rates						
Length (ft)	Description	Volume (bbl)				Choke (Inches)	Pressure (psig) Ga	s Rate (Mcfld)
0.00	410 ft. of GIP	0.00						•	
440.00	GOCM 34\$g 28%o 38%m	1.54							
110.00	000m 514g 20/60 30/6m								

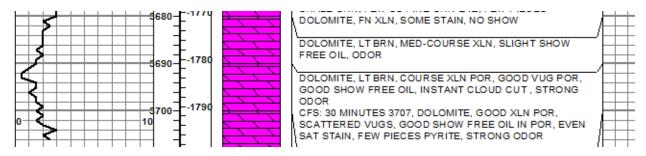
8:55 P.M, DEPTH IS 3657' AND DRILLING

9-17-15

8:00 a.m. RTD 3775' and logging, Pioneer Wireline running DUCP/DIL/MICRO stack. Will run production casing for Arbuckle completion.

Arbuckle:

Show/Rock Description:



Logs show 30% SW @ 3692' 2nd Break @ 3700' 49% SW with shale cap above and tight rocks below calculating interval.

	Structural Position Chart						
Fanshier 20-1 N/	2 NE/4 Section 20 21s-13w, Stafford County	, KS KB=1909'					
Final	ELOG						
Formation	American Warrior Bird-Krampe 1-20	Pet. Inc. Koopman #1	Fanshier 20-1	Position R1	Position R2		
Heebner	3224 -1315	3216 -1312	3221 -1312	3+	Even		
Toronto	3244 -1335	3236 -1332	3239 -1330	5+	2+		
Douglas	3257 -1348	3250 -1346	3254 -1345	3+	1+		
Brown Lime	3346 -1437	3339 -1435	3342 -1433	4+	2+		
Lansing "A"	3360 -1451	3350 -1446	3352 -1443	8+	3+		
Lansing "H"	3482 -1573	3474 -1570	3476 -1567	6+	3+		
BKC	3581 -1672	3576 -1672	3579 -1670	2+	2+		
Viola	3602 -1693	3595 -1691	3599 -1690	3+	1+		
Simpson	3641 -1732	3622 -1718	3629 -1720	12+	-2		
Arbuckle #1	3691 -1782	3673 -1769	3682 -1773	9+	-4		
Arbuckle #2	3709 -1800	Not Penetrated	3700 -1791	9+	Not Pen		