

Sayles #1-13

Operator: Murfin Drilling Company, Inc.
Contractor: Murfin Drilling Company, Inc.
Rig #3

Diamond Prospect #3156

1120 FNL 1320 FEL
Sec. 13-T3S-R27W
Decatur County, Kansas

Contact Person: David Doyel
Phone number: 316-267-3241
Well site Geologist: Terry McLeod

Call Depth: 2500'
Spud: 4:00 p.m. 12/27/04

API # 15-039-20933
Casing: 8 5/8" @ 372'
5 1/2" @ 4033'
Elevation: 2673' GL
2678' KB

TD: 4040'

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DAILY INFORMATION:

12/22/04 Plan on MIRT 12/23/04 and spud 12/27/04.

12/27/04 MIRT.

12/28/04 Depth 372'. Cut 372'. DT: 7 1/2 hrs. (WOC). CT: none. Dev.: 1/2° @ 372'. Spud @ 4:00 p.m. 12/27/04. Ran 8 jts. = 364.85' of 8 5/8" surf. csg. set @ 372', cmt w/270 sx. comm., 3% cc, 2% gel, plug down @ 11:30 p.m. 12/27/04. Circ. 12 bbls. by Allied.

12/29/04 Depth 1730'. Cut 1358'. DT: 3 1/4 hrs. (LC @ 930'). CT: none. Dev.: 1/2° @ 836', 3/4° @ 1730'.

12/30/04 Depth 2815'. Cut 1085'. DT: 1/2 hr. (LC @ 1730'). CT: none. Dev.: none.

12/31/04 Depth 3525'. Cut 710'. DT: none. CT: 3/4 hrs. Dev.: none.

1/1/04 Depth 3635'. Cut 110'. DT: none. CT: 13 1/4 hrs. Dev.: 1/2° @ 3563' **DST #1 3574-3635 (Toronto & LKC A zones):** 30-60-60-90; Rec. 1910' GCO (10% G, 90% O) (1910' TF); HP: 1765-1765; FP: 85/450, 459/768; SIP 923-822. BHT 112°.

1/2/04 Depth 3675'. Cut 40'. DT: none. CT: 22 hrs. Dev.: none. **DST #2 3631-3655 (Pollnow zone):** 30-60-30-90; Rec. 720' CGO (15% G, 85% O), 180' OCM (10% G, 40% O, 50% M), 34° API (900' TF); HP: 1777-1769; FP: 81/251, 279/343; SIP 899-825. BHT 111°.

1/3/05 Depth 3780'. Cut 105'. DT: none. CT: 19 hrs. Dev.: none. **DST #3 3659-3716 (LKC D-G zones):** 30-30-30-90; Rec. 1740' CGO (10% G, 90% O); HP: 1719-1695; FP: 155/470, 472/666; SIP: 1174-1170. BHT 110°. Going in hole for **DST #4 3713-3806 (LKC H-K zones):**

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- 1/4/05 Depth 3970'. Cut 190'. DT: none. CT: 16 hrs. Dev.: none. **DST #4 3713-3806 (LKC H-K zones):** 30-60-30-90; Rec. GTS in 20 min. on final open, 3390' CGO (15% G) 33.5° Grav.; HP: 1719-1728 ; FP: 585/1095, 1091/1164; SIP: 1171-1175. BHT 112°
- 1/5/05 RTD 4040'. Cut 70'. DT: none. CT: 20 ¾ hrs. Dev.: ½° @ 4040'. HC @ 11:15 a.m. 1/4/05. Log Tech logged from 3:15 p.m. to 8:00 p.m. 1/4/05. LTD @ 4042'. In hole BSP & circ. waiting on roads to clear for casing crews & cementers.
- 1/6/05 RTD 4040'. Cut none. DT: none. CT: 24 hrs. OB w/bit @ 8:30 a.m. circ. 2 hrs. & start laying down pipe to run 5 ½" prod. csg.
- 1/7/05 RTD 4040'. CT: 13 ¾ hrs. Ran 96 jts. of 5 ½" prod. csg. set @ 4033'. Cmt. w/175 sx. EA-2 plug down @ 6:15 p.m. 1/6/05 by Swift. Post collar @ 2241'. Rig released @ 8:45 p.m. 1/6/05. **FINAL REPORT.**

		Sayles #1-13 1120 FNL 1320 FEL Sec. 13-T3S-R27W 2678' KB					Kolsky #1-13 SE SW SW Sec. 13-T3S-R27W 2610' KB		
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum	
Anhydrite	2235	+443	flat	2235	+443	Flat	2167	+443	
B/Anhydrite	2267	+411	+1	2267	+411	+1	2200	+410	
Topeka				3410	-732	-6	3336	-726	
Oread	3545	-867	-3				3474	-864	
Heebner	3576	-898	-6	3576	-898	-6	3502	-892	
Toronto	3605	-927	-6	3604	-926	-5	3531	-921	
Lansing	3622	-944	-8	3620	-942	-6	3546	-936	
BKC	3825	-1147	-10	3816	-1138	-1	3747	-1137	
Arbuckle	3991	-1313	-13	3996	-1318	-18	3910	-1300	
RTD	4040			4042			3959	-1349	
LTD							3962	-1300	

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1/04 Figured pipe tally. Ran open hole logs. SD due to icy conditions & csg crew couldn't make it.

1/05 Met Reif Welding on location. Welded on 22 scratchers. Will run csg in AM. SDON.

1/06 MDC Rig #3 TIH w/96 jts new Midwestern Ironworks, 5 1/2", 15.5#, range 3 csg. Tagged bttm @ 4040'. RTD 4040', LTD 4042'. Bttm of shoe @ 4033.58', insert @ 4011.72', port collar @ 2242' w/basket @ 2284'. Circ & rotated f/1 hr w/good circ. RU Swift Services. Pumped 500 gals mud flush w/20 bbl clafix. Pumped 180 sxs STD cmt w/5% cal seal, 10% salt, 1/2% CFR-2, 1/4% D-air, 1/4 lb per sxs of flo seal. Displ w/94 BW. With 75 bbl out began torque. Quit rotation & had good circ throughout. Landed plug @ 6:10 PM 1/6/04 with 1600#. Rlsd back & held. Landed csg in slips. Will cut off in AM. SD.

Insert: 4011.72', shoe jt 21.86'

Port Collar: 2242' w/basket @ 2284'

Centralizers: 4025', 3927', 3842', 3758', 3673', 3588', 3503', 3418', 3337', 3252', 2327'

Scratchers: 3720-30', 3690-3710', 3600-68', 3558-83'

1/12 Installed 2" connections from 8 5/8" to surface. Backfilled cellar & leveled location. RU Log Tech & ran cmt bond log. Found PC @ 2242', insert @ 4000' & TOC @ 2850' w/good bond. RDMO. SDON. Est Cost \$2400.00.

1/14 MIRU MDC #750. MI 2 3/8" tbg & swab tank. SDOWE. Est Cost \$3000.00.

1/17 TIH w/port collar tool & locked into port collar @ 2242'. RU Swift. Press csg to 1100 & held. Opened port collar & got inj rate @ 4 BPM, 300# w/good blow. Pumped 155 sxs CMD cmt 4 BPM @ 500# w/yield of 3.11. Cmt to surface @ 86 bbl, good circ. Finished w/20 sxs 14# cmt, 3 BPM @ 650# w/yield of 1.58. Displ w/6 BW. Closed port collar & press to 1100# & held. Ran 5 jts & circ clean. TOH w/tool & SDON.

1/18 RU csg jars. Ran swab & SD to 3200' FS. RU Log Tech. Perf LKC (H) f/3718-26' w/EHSC gun @ 4 SPF. RD Log Tech. Csg had strong blow f/30 mins, tapering off to light blow. TIH w/pkr & tbg. Set pkr @ 3683'. RU tbg swab & lubricator. Ran swab. FL @ 525' to 1700' FS in 1 hr. Rec 26.68 BTF, 98% oil, 2% mud, .4% wtr. Took gravity on sample, 28.3 @ 60 degrees. SDON. Est Cost \$14,350.00.

1/19 Pkr @ 3683', perfs @ 3718-26' (H). Ran swab. FL @ 500' FS, 3183 FIH. Made 3 runs. FL @ 1600', rec 10.73 bbls. Start test. 4 pph, rec 16.82 bbls, FL @ 1200', 2480' FIH, 5/10% BS, 2% mud, 97.5% oil. Gravity 32.2 @ 60 degrees. Ran pkr to 3730'. Ran swab. FL @ 600'. RU Swift. Spotted 500 gals 15% MCA acid & 3 BW. Reset pkr @ 3683'. Treated 3718-26' (H) w/500 gals 15% MCA @ 1/4 to 1 BPM on vac. Let sit 45 mins. Ran swab. FL @ 1400'. Swabbed steady for 1 1/2 hrs. FL @ 800', rec 27.26 bbls, TL 26. SD 1/2 hr. Start test. 1st hr 4 pph, rec 15.95 bbls, FL @ 700', GO 2/10% fines, 10% acid wtr, 90% oil. Rlsd pkr to flush annulus. Reset pkr & start test. 2nd hr 4 pph, rec 16.53 bbls, FL @ 700', GO 2/10% fines, 3% wtr, 97% oil. 3rd hr 4 pph, rec 17.40 bbls, FL @ 700', 2/10% fines, 3% wtr, 97% oil. SDON. Est Cost \$17,515.00.

1/20 Pkr @ 3683', perfs 3718-26' (H). Ran swab. FL @ 500' FS, 3183' FIH, 100% oil. RD swab. Rlsd pkr & TOH. TIH w/new MA 2 3/8" x 15' set @ 3772.23', new WB 2" x 1 3/4" x 12' x 15' x 18' THC, stroke thru, MSL=101" w/SS set @ 3757.23', 1 jt tbg, new AC 5 1/2" x 2" x 2.85' set @ 3708.43' w/15,000#, 120 jts. Total tbg 121 jts 2 3/8" OD 8rd (Rodco) = 3736.38'. MI rod trailer w/MDC backhoe due to mud. Ran 2 cup SV, 1 3/4" x 4' plunger & 120 rods. MDC backhoe made tank battery pad. To set tanks 1/24/05. Took 110 BO from swab tank & put in Elvin stock tank. To transfer when tank battery is set. Moved mud off location. Too muddy to make pumping unit pad. SDON. Est Cost \$19,805.00.

1/21 Shot FL, 19 JTF, 590 FTF, 3167 FAP.

1/21 Finished running in rods. 2 cup SV, plunger 4' x 1 3/4", SMP, DV, MSL=101", 8 x 7/8" (new Rodco), 89 x 3/4" (Rodco rods), 52 x 7/8" (new rods), 6' x 7/8" sub, 1 1/4" x 22' PR w/10' liner. POP. Long stroked well 1 time & fluid at surface. RDMO. Est Cost w/o tbg & rods \$20,555.00.

1/24 Don's scraped off mud. Brought in dry dirt & started making pad f/pumping unit. Built pad & spread sand. Ripped location again to further drying. Loaded equipment & SD.

1/25 MDC ROs on location. Set 3" x 12"s & unloaded base. Set base & gearbox & leveled up. Assembled Sentry 160 PU. Hung on & centered over hole. Removed electric motor & installed C-106 motor. Put on belts & tightened down. Tied onto p-pane tank & set. Sanded in unit & moved wgts all the way out to attempt to balance. McDonald Tank on location. Set FG wtr tank & GB. Set (3) 200 bbl stock tanks. Installed catwalk & made up overhead, equalizer & loadout lines. Made up riser & siphon to wtr tank. Webbs put 20 bbl in wtr tank & 100 bbl in GB. SDON.

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1/26 Don's Electric on location. Stripped out @ wellhead to build & hook up steel riser f/LL. Ditched, glued & put in 1100' 2" PVC LL. Tied in @ steel riser & GB. Backfilled ditch & tie in holes. Put together siphon line to wrt tank. D&M filled propane tank & put on reg. POP @ 2:00 PM. Unit running @ 7.11 SPM, 74" stroke. Dug overflow pit @ battery & built ¼ of firewall. Too muddy to finish. SDON.

1/27 162.43 BO, 10.36 BW, NPF, 92% PE, 126 BOIS. 20 JTF, 621 FTF, 3136 FAP.

1/28 164.16 BO, 8.64 BW, NPF, 92% PE, 126.08 BOIS, 20 hr gauge. 24 JTF, 745 FTF, 3012 FAP.

1/29 158.51 BO, 25.80 BW, NPF, 93% PE, 133.60 BOIS.

1/30 127.01 BO, 54.43 BW, NPF, 92% PE, 111.82 BOIS.

1/31 116.06 BO, 62.49 BW, NPF, 90% PE. 30 JTF, 932 FTF, 2825 FAP.

2/1 108.92 BO, 69.63 BW, NPF, 90% PE, 96.86 BOIS, circ 1 hr. Coming into stock @ 2%. Champion to check out.

2/2 94.36 BO, 83.92 BW, NPF, 90% PE, 106.88 BOIS. 40 JTF, 1242 FTF, 2515 FAP. Hooked up chemical pump & start injecting 3 qts X-273 & PM-2020 down LL. Measured from tank battery to Elvin TB for SWL 6400'. To get estimated cost to put in 2" poly pipe.

2/3 No report

2/5 70.40 BOIS, 75 BW.

2/6 68.48 BOIS, 80 BW.

2/10 68.15 BO, 94.12 BW, NPF, 82% PE, 70.14 BOIS.

2/11 66.53 BO, 95.74 BW, NPF, 82% PE, 65.13 BOIS.

2/12 63.36 BO, 95.04 BW, NPF, 80% PE, 63.46 BOIS.

2/13 58.40 BO, 91.35 BW, NPF, 76% PE, 55.11 BOIS.

2/14 54.72 BO, 89.28 BW, NPF, 73% PE, 61.79 BOIS.

2/15 56.16 BO, 87.84 BW, NPF, 73% PE, 51.77 BOIS.

2/16 52.53 BO, 85.70 BW, NPF, 70% PE, 53.44 BOIS.

2/17 53.91 BO, 84.32 BW, NPF, 70% PE, 51.77 BOIS.

2/18 50.34 BO, 82.13 BW, NPF, 67% PE, 51.77 BOIS. 74 JTF, 2298 FTF, 1459 FAP.

2/19 47.69 BO, 84.78 BW, NPF, 67% PE, 58.45 BOIS.

2/20 49.01 BO, 83.46 BW, NPF, 67% PE, 53.44 BOIS.

2/21 47.36 BO, 87.98 BW, NPF, 68% PE, 50.10 BOIS. Don's smoothed out deep ruts in driveway. Repacked & dressed up west drive. SD.

2/22 46.36 BO, 86.11 BW, NPF, 67% PE, 48.43 BOIS.

2/23 49.01 BO, 83.46 BW, NPF, 67% PE, 51.77 BOIS. 81 JTF, 2515 FTF, 1242 FAP.

2/24 46.36 BO, 86.11 BW, NPF, 67% PE, 47.59 BOIS.

2/25 87 JTF, 2701 FTF, 1056 FAP, NPF.

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Sayles #1-13
Completion Report
Section 13-3S-27W
Decatur County, KS

2/26 47.69 BO, 84.78 BW, NPF, 67% PE, 46.76 BOIS.

2/27 50.08 BO, 85.27 BW, NPF, 68% PE, 50.10 BOIS.

2/28 49.01 BO, 83.46 BW, NPF, 67% PE, 51.77 BOIS.

3/1 48.72 BO, 86.63 BW, NPF, 68% PE, 55.11 BOIS. 88 JTF, 2732 FTF, 1025 FAP, NPF.

3/2 51.14 BO, 87.09 BW, NPF, 70% PE, 50.10 BOIS.

FINAL REPORT

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