

13-000-01W

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JUN 23 2006

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**Montgomery 'B' #1-13**

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

Diamond Prospect #3156  
  
1200 FNL 2260 FWL  
Sec. 13-T3S-R27W  
Decatur County, Kansas

Contact Person: David Doyel  
Phone number: 316-267-3241  
Well site Geologist: Paul Gunzelman

Call Depth: 2900'  
Spud: 4:30 p.m. 3/18/06

API # 15-039-20966  
Casing: 8 5/8" @ 371'  
5 1/2" @ 3877'  
Elevation: 2654' GL  
2659' KB

TD: 3880'

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DAILY INFORMATION:

3/18/06 MIRT.

3/19/06 Depth 390'. Cut 390'. DT: 8 hrs. (WOC). CT: none. Dev.: 1/8° @ 371'. Spud @ 4:30 pm. 3/18/06. Ran 8 jts. = 363.90' of 8 5/8" surf. pipe, set @ 371', cmt. w/225 sx. comm., 3% cc, 2% gel, plug down @ 10:30 p.m., drilled out plug @ 6:30 a.m. 3/19/06, circ. 5 bbls. by Allied.

3/20/06 Depth 1890'. Cut 1500'. DT: 1 hr. (L.C. @ 1300 & 1360'). CT: none. Dev.: 1/2° @ 810'.

3/21/06 Depth 2970'. Cut 1080'. DT: none. CT: none. Dev.: 1/2° @ 2231'.

3/22/06 Depth 3475'. Cut 505'. DT: none. CT: none. Dev.: none. Drilling, Mud Vis:49, Wt: 8.6, WL: 5.2, Chlor: 600 ppm, LCM: 1 1/2#, CMC: \$9102. Call depth 2900' @ 4:52 AM (03/21), Geologist on loc 3144' @ 2:00 PM (3/21).

3/23/06 Depth 3610'. Cut 135'. DT: 3/4 hr (pump). CT: 16 1/2 hrs. Dev.: 1/2° @ 3610'. Circ to cond hole after DST #1, Mud Vis: 52, Wt: 8.7, WL: 4.8, Chlor: 600 ppm, LCM: 1 1/2#, CMC: \$9490. Dev: 1/2° @3610', Strap .58' long. **Toronto**-Ls, wh-crm, frag, ool, rexlzd, occ sec calc, tr v.lt gn & arg, pr intfrag por, tr fr vug por, v.sli odor, spty v.lt yel fluor, sli shw med brn O, spty lt brn stn, r.sat stn, bcm vfxln & dns. **Lans "A"**-Ls, crm vfxln-microxln, foss (fus), tr frac, pr scat vug por, v.sli odor, tr spty lt fluor, no shw O, v.scatt lt brn stn. **DST #1 3550-3610 (Toronto & Lans "A")**, 30-60-60-90, Wk blw incr to 10 inches-IF: Wk blw incr to 6 inches-FF: RECOVERY: 405' CGO (23.5° grav. API), 120' Sli GCMO (15%Gas 30%Mud 55%Oil), HP: 1687-1619, FP: 28-169 & 182-258, SIP: 889-842, BHT: 105° F

Montgomery 'B' #1-13  
Daily drilling report  
Page two

3/24/06 Depth 3685'. Cut 75'. DT: none. CT: 19 3/4 hrs. Dev.: none. Tstng, Mud Vis:51, Wt:8.9, WL:5.2, Chlor:700 ppm, LCM: 1 1/2#, CMC: \$9490. **Lans. "Pollnow"**-Ls, Crm-tn, frag, ool, foss (fus), rexlzd, occ spr calc, sl arg, pr intrfrag por, fr scat vug por, v.sli odor, brt yel spty fluor, gd shw lt brn O, lt brn even sat stn, bcm wl cmt & mott w/lt gn calc sh. **DST #2 3608'-3626' (Lans "Pollnow")**, 30-60-30-60, Wk surf blw died in 14 min.-IF: No blw-FF: RECOVERY: 3' mud w/oil spots, HP: 1705-1650, FP: 12-14 & 15-16, SIP: 25-21, BHT: 102° F. **Lans "D"**-Ls, Crm, frag, ool, sl foss (fus), rexlzd, sl arg, tr lt gn sh inc, pr pp & intrfrag por, v.sli odor, v.lt yel even fluor, tr shw lt brn O, spty brn stn-occ sat stn. **Lans "G"**-Ls, Crm-v.lt gy, frag, ool, foss (fus) wthd, tr sec calc, pr-fr intrfrag por, tr fr foss cast por, fr odor, spty lt yel fluor, fr shw med brn O, spty dk brn stn, tr sat stn. **DST #3 3620'-3685' (Lans "D&G")**, "Mis-run, Pkrs failed" **DST #4 3632'-3685' (Lans D&G)**, Surf blw incr to 2 1/4"-IF, 3/4" blw throughout-FF, RECOVERY: 120' Muddy Wtr, 180' Wtr (Chlor 70,000 ppm, Rw .149 @52° F, HP: 1783-1716 FP: 20-82 & 86-161, SIP: 827-815, BHT: 108° F.

3/25/06 Depth 3770'. Cut 85'. Tstng, Mud Vis:53, Wt:9.0, WL:5.2, Chlor:1400, LCM:1 1/2#, CMC: \$9490. **DST #5 3684-3770 (KC "H-K")**, 30-60-30-60, Wk 3" blw decr to 1"-IF (Slid tool to bttm), No blw-FF, RECOVERY: 65' Mud, HP:1785-1741, FP: 62-64 & 65-66, SIP: 190-127, BHT:104°F. **KC "H"**-Ls, Crm-lt gy, fxln, tr ool, sli foss (fus, bry), rexlzd, pyr, sli arg, tr frac, pr pp & vug por, v.sli odor, lt yel even fluor, v.sli shw med brn O, brn-dk brn spty stn. **KC "J"**-Ls, Crm, fn-vfxln, mott w/v.lt gn sh, occ rexlzd org rem, pr pp por, v.sli odor (crush), r.spty fluor, no shw O, v.lt scat stn. **KC "K"**-Ls, Crm, occ crm-tn, fxln, wthd, r.org rem, tr amor calc, occ v.lt gn-gy & arg, n.v.p, tr med brn edge stn, no shw O.

3/26/06 RTD 3880'. Cut 110'. DT: none. CT: 18 hrs. Dev.: 3/4° @ 3880'. HC @ 3:45 P.M. 3/25/06. Log Tech logged from 7:45 p.m. 3/25/06 to 12:15 a.m. 3/26/06, LTD 3877'. Ran 92 jts. = 3877' of 5 1/2" prod. csg. set @ 3877', cmt. w/150 sx. EA-2, plug down @ 10:30 a.m., port collar @ 2240', 15 sx. in RH, 10 sx. in MH. By Swift.

3/27/06 RTD 3880'. CT: 7 1/2 hrs. Rig released @ 2:30 pm. 3/26/06.

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Montgomery 'B' #1-13 1200 FNL 2260 FWL Sec. 13-T3S-R27W 2659' KB							Sayles #1-13 1120 FNL 1320 FEL Sec. 13-T3S-R27W 2678' KB	
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	2212	+447	+4	2210	+449	+6	2235	+443
B/Anhydrite	2244	+415	+4	2242	+417	+6	2267	+411
Topeka	3386	-727	+5	3380	-721	+11	3410	-732
Oread	3525	-866	+4	3516	-857	+13	3548	-870
Heebner	3551	-892	+7	3546	-887	+11	3576	-898
Toronto	3580	-921	+5	3573	-914	+12	3604	-926
Lansing	3595	-936	+6	3588	-929	+13	3620	-942
BKC				3790	-1131	+7	3816	-1138
Arbuckle							3996	-1318
RTD	3880						4040	
LTD				3877			4042	



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**Montgomery B #1-13**  
**Completion Report**  
**Section 13-3S-27W**  
**Decatur County, KS**

Montgomery B #1-13 (New Well)

3/25-3/26 Murray Csg crew drifted 5 1/2" csg. MDC Rig #3 ran 92 jts new Midwest Pipeworks csg 5 1/2", 15.5" LT&C Range 3 csg w/guide shoe, flap type insert & Weatherford port collar. Total csg 3876.85'. Tagged @ 3880'. RTD 3880', LTD 3877'. Set csg @ 3877'. Shoe jt 16.70', insert @ 3860', port collar 2240' w/basket @ 2283'. Circ & rotated 1 hr prior to cementing. RU Swift. Pumped 500 gals mud flush, 20 bbls clafix wtr, 150 sxs EA2 cmt w/5% calseal, 10% salt, 1/4#/sxs flo-cel, 3/4% CFR-2 & 1/4% D-air. Quit rotation w/500 gals mud flush. Csg tight. Pumped 91 BW & plug landed @ 1600# & held @ 10:25 AM. Good circ while cementing. Plugged rat & mouse hole w/25 sxs. Packed off csg head. Job completed @ 11 AM.  
 Centralizers: 3870, 3774, 3689, 3604, 3519, 3434, 3348, 3263, 3178, 2325  
 Scratchers: 3609-3624, 3596-3571, 3549-3524

3/27/06 Waiting on completion rig

3/31/06 Don's Electric backhoe brought backside up to surface & level off location.

4/21/06 RU Log Tech. Ran cmt bond log. TD @ 3851'. Port collar @ 2243'. TOC @ 2940' w/good cmt bond. RDP @ 2940'

4/26/06 OP Trucking delivered 148 jts 2 3/8" tbg from Beagley B to Montgomery B #1-13.

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Montgomery B #1-13 Completion Day 1

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5/01/06 MIRU MDC #479. MI MDC swab tank & put in 80 BW. Ran csg swab. SD to 3200'. RU Log Tech. Perforated 3614-17' (Pollnow), 3589-92' (A), 3574-78' (Tor) w/4 SPF w/EHSC. FL stayed @ 3200'. No oil on guns. To run tools in AM. SDON. Est Cost \$6000.

Montgomery B #1-13 Completion Day 2

5/02/06 TIH w/X-Perf RBP, pkr & tbg. Set RBP @ 3632' & pkr @ 3595'. Perfs 3614-17' (Pollnow). Ran swab, 500' FIH w/trace of oil. 2<sup>nd</sup> run dry. Let sit 15 mins, dry. Ran pkr to 3620'. Ran swab. FL @ 3275'. RU Swift. Spot 2 bbls acid. Reset pkr @ 3595'. Treated 3614-17' w/250 gals 15% MCA acid. Hole loaded. Staged for 45 mins. Max press 800# & feeding @ 600# @ 3/10 BPM. With 2 bbls out communicated to 3589-92' (A). Pulled pkr to 3584' & left hanging. Ran swab. SD to 550' FIH. Rec 13.63 bbls w/good show of oil. Set pkr @ 3584'. Testing 3614-17' & 3589-92'. 1<sup>st</sup> hr 6 pph, rec 7.25 bbls, 200' FIH, 1% BS, 2% wtr, 97% oil. 2<sup>nd</sup> hr 5 pph, rec 3.48 bbls, 200' FIT, 1% BS, 4% wtr, 95% oil. 3<sup>rd</sup> hr 4 pph, rec 2.90 bbls, 200' FIT, 1% BS, 2% wtr, 97% oil. SDON. Est Cost \$10,370.

Montgomery B #1-13 Completion Day 3

5/03/06 RBP @ 3632' pkr @ 3584', perfs 3614-17' (Pollnow) & 3589-92' (A) (Communicated). Ran swab. FL @ 2000', 1580' FIT @ 100% oil @ 30 gravity. SD to 150' FIT. Rec 9.57 bbls. Swift chained up to get into location due to mud. Treated 3614-17' & 3589-92' as follows. 750 gals 15% NE/FE acid w/5% miscible solvent, rate 1000# @ 2 1/2 BPM, 6 bbl gelled plug, no salt or TLC-80, 1 bbl acid & communicated to 3574-78' (Tor). Pulled pkr to 3533' & left hanging. Pumped 20 BW down annulus to put acid back into tbg. Set pkr @ 3533'. Treated all 3 zones as follows. 6 bbl gelled plug w/100# salt & 75# TLC 80, 250 gals 15% MCA acid & 1000 gals 15% (same), 6 bbl plug (same), 1000 gals acid (same) & displ w/16 BW. Avg rate @ 2 1/2 to 2 3/4 BPM @ 800-1000#. Had 100# Kick on first plug & 200# kick on 2<sup>nd</sup> plug. TSIP 500#, 40 mins 275#. Flowed back 3 bbls. TL 106 bbls. Start testing. 1<sup>st</sup> hr 6 pph, FL @ 1800', 1730' FIT, rec 29.58 bbls w/show of oil. 2<sup>nd</sup> hr 5 pph, rec 15.08 bbls, 900' FIT, 1% BS, 49% acid wtr, 50% oil. Rlsd pkr & ran down to 3622'. Tag fillup on RBP @ 3632'. Circ down & got onto RBP. Ran swab 4 times to clear out all acid. Rec 14.21 bbls. Reset pkr @ 3533'. Ran swab. Made 1 run & sand line drum air pot broke. SD for repairs. SDON. Est Cost \$22,900.

Montgomery B #1-13 Completion Day 4

5/04/06 Repaired rig @ 10:15 AM. RBP @ 3632', pkr @ 3533', perfs 3614-17' (Pollnow), 3589-92' (A), 3574-78' (Tor) (All Communicated). Ran swab. FL @ 1350', 2180' FIT w/600' oil on top = 27% oil. TL on acid job 53.06', 109 bbls swab back, 44.67 = -64.33 short of TL. Start test. 1<sup>st</sup> hr 6 pph, rec 20.30 bbls, 675' FIT, 5/10% fines, 39% acid wtr, 60% oil. 2<sup>nd</sup> hr 6 pph, rec 12.10 bbls, 450' FIT, 2/10% BS, 30% wtr, 70% oil. 3<sup>rd</sup> hr 4 pph, rec 5.80 bbls, 375' FIT, 2/10% BS, 35% wtr, 65% oil. Ran down & got onto RBP, reset RBP @ 3103'. TOC @ 2940'. Pkr hanging @ 3070'. Ran swab, FL @ 2100'. SD to 2800'. TOH w/tbg & pkr. To cmt port collar in AM. SDON. Est Cost \$23,600.



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Montgomery B #1-13 Completion Day 5

300  
 5X

5/05/06 TIH w/X-Pert port collar tool & tbg. Port collar @ 2234'. Found PC. Ran tbg to 2494'. RU Swift. Loaded hole w/fresh wtr. Press csg to 1250# & held. Spot 1 sxs sand. Let sit 30 mins. Came up & opened port collar. Rate 3 BPM @ 400# w/slight blow on 8 5/8" (both sides open). Pumped 275 sxs SMD cmt w/1/4#/sxs flocel @ 11.2# & 25 sxs @ 15#. No blow on 8 5/8" or circ during job. Shut PC. Press to 1250# & held. Ran tbg to 2494' & circ clean. TOH w/tbg. Filled csg w/fresh wtr. To run temp survey in AM. Witnessed by Roger Moses w/KCC. SDON. Est Cost \$36,000.

Montgomery B #1-13 Completion Day 6

5/06/06 RU Perf Tech. Ran temp survey. Found TOC @ 910' = cmt came up 1325'. Good cmt from 910 to PC @ 2234'. To call KCC 5/8/06. SDOWE. Est Cost \$38,000.

Montgomery B #1-13 Completion Day 7

500

5/08/06 Called KCC in Hays, approved to perforate @ 800'. RU Perf Tech. Found csg collar @ 800'. Perforated @ 795' @ 1' w/4 SPE. TIH w/pkr. Set pkr @ 821'. RU Swift. Tested csg to 1000# & held. Reset pkr @ 696'. Press annulus to 500#, held & SI. Opened 8 5/8". Pumped 5 BW & gained circ. Pumped 70 sxs SMD cmt with 1/4#/sxs flocel & 2% CC @ 11.2# & 20 sxs (same) @ 14.5#. Circ cmt to surface. Witnessed & approved by Darrel Dipman w/KCC. SI 8 5/8". Pumped cmt out of tbg. SI @ 200#. Let sit 1 hr. Pumping into @ 250#. Let sit 1 hr, holding 500#. Let sit 30 mins, 300#. Rlsd & dead. Rlsd pkr & circ hole clean. Reset pkr & press to 500# & SI. TOC @ 740', 60' cmt in csg. SDON. Est Cost \$45,697.

Montgomery B #1-13 Completion Day 8

5/09/06 Approx 10# on tbg. TOH w/tbg & pkr. RU Golden B mud pump & power swivel. TIH w/new 4 7/8" bit #C208205, (3) 3 1/2" drill collars & tbg. Tagged cmt @ 770'. Perf holes @ 795'. Circ hole. Press to 350# & held. Drilled cmt to 815' & fell free. Ran bit to 846'. Circ hole clean. Press to 350# & held. TOH w/tbg, DC & bit. TIH w/ret head & tbg. Tag @ 3091'. RBP @ 3103'. Circ down onto RBP & circ hole clean. Ran swab. SD to 2800'. TOH w/tbg & RBP. SDON. Est Cost \$49,567

Montgomery B #1-13 Completion Day 9

5/10/06 Ran in tbg for production. RU swab bar. Ran in w/swab bar. fld @ 1350' FS. Swab down 31.32 bbl, fld @ 2450' FS on last run of swab down. Start test. 1<sup>st</sup> hr 5 pph, rec 14.5 bbls, 5% oil, 95% wtr, 1/10% fines, fld @ 2800' FS on last run. 2<sup>nd</sup> hr 5 pph, rec 10.44 bbls, 5% oil, 95% wtr, 1/10% fines, fld @ 2900' FS on last run. Lay out swab bar. RO for tbg. Set tbg anchor. Land tbg. RO for rods. RIH w/pump & rods. Spaced out well. Long stroked well. Blowing good. Clamp off. SDON. Est Cost \$51,467.

5/11/06 RDMO MDC #479.

5/12/06 K&B Oilfield made TB & PU pad. Set cattle guard by well & built fence to cattle guard. Made right of way in pasture draw for LL. To ditch LL 5/15/06.

5/15/06 KB Oilfield ditched & layed 1250' 2" PVC LL & backfilled. Hooked up well head connections. Set 15' cattle guard @ county road for TB. Build fence. To set PU in AM.

5/16/06 Total Lease Services assembled & set 114 PU. To set tank battery 5/18/06. Prairie Land Electric to finish overhead power lines 5/23/06.

5/18/06 Hess Services set new 12' x 10' FGSWT, 10' x 15' FGGB, (2) 12' x 10' WSST. Hooked up all connections & catwalk. Put 20 bbl SW in SWT & 60 BW in GB. KB Oilfield spread sand on tank battery pad, finished setting cattle guard & putting up rest of fence.

5/24/06 Prairie Land Electric started on overhead power line. To complete in AM. K&B Oilfield to ditch underground & POP 5/25/06.

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11



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**Completion Report**  
**Section 13-3S-27W**  
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5/25/06 Prairie Land Electric finished overhead power line. KB Oilfield installed riser & disconnect @ meter pole. Ditched 400' underground to well & backfilled. Set 15 Hp motor & control panel. Webbs loaded hole w/5 BW = approx FL @ 1290'. POP @ 10.03 x 1 1/2" x 64" = 168.00 TF @ 100% PE. Amps 20 wtr & 19 rods.

5/26/06 79.02 BO, 82.26 BW, NPF, 98% PE, build 4' oil in GB & 1.67 BOIS.

5/27/06 55.35 BO, 33.53 BW, PF, 54% PE, 55.11 BOIS

5/28/06 30.20 BO, 44.17 BW, PF, 45% PE, 33.40 BOIS

5/29/06 27.87 BO, 35.48 BW, PF, 35% PE, 18.36 BOIS

5/30/06 21.71 BOIS

5/31/06 24.71 BO, 38.64 BW, PF, 38% PE, 21.71 BOIS.

6/01/06 Coming into stock @ 1.4% BS&W. To set chemical pump in AM. KB Oilfield on location. Built firewall around TB & overflow pit behind TB. Built fence around TB. Changed out sheave from 3Cx7" to 3Cx6", now running 8.8 SPM.

6/06/06 17.28 BO, 40.32 BW, PF, 40% PE, 16.70 BOIS

6/07/06 16.70 BO, 40.89 BW, PF, 40% PE, 15.03 BOIS

6/14/06 GB has 3 small cracks, Hess Services will be out to inspect & repair leaks in AM.

6/15/06 Hess Services on location to check leaks in GB. Webbs pulled 80 bbl off GB. Hess repaired 3 holes, FG repair cured for 4 hrs before returning to production. POP.

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