

R & J #1-23

Operator: Murfin Drilling Company, Inc.
 Contractor: Murfin Drilling Company, Inc.
 Rig #16

Antigua Prospect #3474

Contact Person: Michel Runnion
 Phone number: 316-267-3241
 Well site Geologist: Paul Gunzelman

335' FNL 1650' FEL
 Sec. 23-T16S-R20W
 Rush County, Kansas

Call Depth: 2770'
 Spud: 6/2/14 @ 8:30AM
 Complete: P&A 6/7/14

API # 15-165-22075
 Casing: 8 5/8" @ 217'

RTD: 3940'

Elevation: 2128' GL
 2133' KB

DAILY INFORMATION:

NOTE: 1' fill when building location. NEW GL 2128'... 2133'KB

- 5/31/14 MIRT Spud 6/2
- 6/1/14 Off
- 6/2/14 Spud Today
- 6/3/14 Depth 1170'. Cut 1170'. DT: 8hrs WOC. CT: None. Dev.: 1/4° @ 218'. Spud @ 8:30AM 6/2/14. Ran 5jts=210.72' of 23# 8 5/8" surf csg, set @ 217'. Quality cmt w/150sxs of Comm 3%CC, 2%Gel. PD @ 1:00PM 6/2. DO @ 9:00PM 6/2. Circ 5BBLs.
- 6/4/14 Depth 2590'. Cut 1420'. DT: None. CT: None. Dev.: None.
- 6/5/14 Depth 3400'. Cut 810'. DT: None. CT: 1hr. Dev.: None.
- 6/6/14 Depth 3815'. Cut 415'. DT: none. CT: 9 hrs. Dev.: none.
- 6/7/14 RTD: 3940'. Cut 125'. DT: None. CT: 20 1/4 hrs. Dev.: 1° @ 3940'. HC @ 11:45AM 6/6/14. Pioneer logged 4:30PM – 9:15PM 6/6. LTD: 3938'. Quality plugged hole (12:00AM – 3:00AM 6/7) as follows using 60/40Poz, 4%Gel, 1/4#Floreal, 50sxs @ 3910', 50sxs @ 1380', 80sxs @ 570', 50sxs @ 240', 20sxs @ 60', 30sxs RH, 20sxs MH. Orders: Eric MacLaren KCC Dodge City. RR @ 7:00AM 6/7/14. FINAL REPORT

MDCI R & J #1-23 335' FNL 1650' FEL Sec. 23-T16S-R20W 2133' KB						Castle Resources Stull #1 560FSL 2210FEL Sec. 14-T16S-R20W 2142' KB		
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	1369	+764	-4	1367	+766	-2	1374	+768
B/Anhydrite	1406	+727	-13	1405	+728	-12	1402	+740
Topeka	3178	-1045	-7	3174	-1041	-2	3180	-1038
Heebner	3452	-1319	-11	3448	-1315	-7	3450	-1308
Toronto	3472	-1339	-11	3468	-1335	-7	3470	-1328
Lansing	3496	-1363	-11	3492	-1359	-7	3494	-1352
Stark	3698	-1565	-10	3703	-1570	-15	3697	-1555
BKC	3750	-1617	-9	3752	-1619	-11	3750	-1608
Arbuckle	3910	-1777	-67	3902	-1769	-59	3852	-1710
RTD	3940						3940	
LTD				3938				