



Black Hills Plateau Production, LLC

A Black Hills Corporation Enterprise

Winter Flats 10-43-99

NESE 10 9S 99W

API # 05-077-09440

Mesa County, Colorado

Spud 9/30/08 TD 10/11/08 Completion 11/06/08

GL: 6150' RKB: 6167' PBTD: 7174' (FC) TD: 7230'

Conductor pipe: 16" 40'

Surface casing: 51 jts 9-5/8", 36#/ft K-55 LT&C csg, land @ 2370.00', float collar @ 2319', w/1 1/2" 2.76# parasite string, air collar (1.4') at 2132', 14 3/4" hole
Lead cmt 743 sx 12.3 ppg Versacem cmt (yield 2.38cf/sk) gal water/sk 13.75, **Tail cmt** 322 sx 12.8 ppg Versacem cmt (yield 2.11 cf/sk) gal water/sk 11.75, bump plug ? psi, 84 bbls cmt returns to surface

Production casing: 166 jts 5-1/2" 17#/ft N-80 LT&C csg, land shoe @ 7189', FC @ 7174', 7 7/8" hole, Stage collar @ 2843', Packer top @ 2847', bottom @ 2861'
1st Stage – 30 bbls Superflush 101, Lead cmt 150 sx 11.4 ppg (yield 2.43 cf/sk) Extendacem System Cmt w/gel, gilsonite, walnut shells, phenol seal, steel seal, poly-e-flake. Tail cmt 270 sx 12.4 ppg (yield 1.99 cf/sk), bumped plug, float held. Used air to relieve hydrostatic. Displaced w/2% kcl water, **Pressure up – set packer.** Dropped opening bomb to open DV tool
2nd Stage – 20 bbls Superflush 101, 410 sx 12.3# (yield 2.38 cf/sk) Versacem System Cmt, bump plug, held. Pressure up to close tool. 16 bbl cmt to surface. Set slips w/90,000#.

Perforations: 10/30/2008 Dakota Perf 6882-85', 6893-95', 6926-31'. 3 SPF, 23 GR Charges, 120 deg. phasing, 10' total 30 holes. No change in FL, slight blow @ surface.
11/06/2008 Frac Dakota, BJ. 500 gal. 7.5% HCL, 101806# 20/40, 5800# 100 Mesh. N2 65Q 1219600 scf X-Link Lightning 2000. ATP: 3511 psi, ATR: 13.7 BPM. ISDP 3296 psi, 5min: 3000 psi, 10min: 2824 psi.
11/13/08 Flow Back BLW 862, BLR 286, BLWTR 576

Production tubing: 11/18/08 221 jts 2 3/8", L-80, 4.7#, 8rd, eue tbg, "F" nipple -1.81" I.D., 1jt tbg, NC EOT:6879, fill at 7053'.

Packer: None

Rods: None

Production: April 2012 450 mcf
DOFS- November 15, 2008
IP- Producing ~600MCFD
Gas Analysis-11/20/2008; CO2 2.14%, N2 7.09%.

Objective: Re-complete to Mancos. Production test Mancos. Commingle Mancos and Dakota.

Prep to Frac: Design method for water delivery and water storage. Both trucked and pumped may be necessary. Dig, double line, fence and net pit to be used for frac AND flowback water. Fill frac pit and set and fill a sufficient number of frac tanks by frac pit for one frac stage. Ex: 20-500 bbl tks (or equivalent) for 10,000 bbl stage. Obtain water sample for frac company.

NOTIFY BLM 48HRS PRIOR TO MOVING IN.

1. Set & test deadman anchors as necessary. Sell casing gas if possible.
2. MIRU completion rig. Blow down well. ND WH. NU BOP's.
3. RU for tbg. Tag for fill. Previous tag 7053'. Tally and TOH w/tubing. TIH w/csg scraper to +/-6500'. SOH and LD tbg.
4. MIRU WL truck. RIH and set composite plug at +/-6400'. CCL at 6384' & 6422'. Dump bail 2 sx sand on top of plug. POH. Note fluid level.
5. ND Bop's. Load casing with 2% kcl friction reduced water. Install 10k frac tree with csg head isolation tool. (casing head is 5k) Pressure test tree, csg and plug to 6500 psi.
6. RIH and perforate Mancos with 3 1/8" expendable HSC mid-range slick csg gun, 3 intervals – 6185-6187', 6210-6214', 6235-6241' (gross interval from 6160-6260', 100') with 3 – guns (2'-12 holes, 4'-24 holes, 6'-36 holes), 6 jspf, 60 deg phsg, .37" ehd, 21 gm charges, 42.9" penetration, 72 holes. RD WL. RDMOSU.
(Frac design tbd) Note Prep to Frac above before proceeding.
7. MIRU frac company, WL company and flowback company. Frac Stage #1. Combination flow thru frac plug and perf method will be utilized. Correlate to RMWS CBL log dated 10/29/2008.
8. Continue with Stage #2. Set CFP at 6000'. CCL at 5963'+ & 6009'. Perforate 3 intervals – 5855-5857', 5880-5884', 5905-5911' (gross interval 5830-5930', 100'.) POH. Drop ball to seat in plug as soon as WL is RD off WH. Frac Stage #2.
9. Continue with Stage #3. Set CFP at 5480'. CCL at 5464'+ & 5507'. Perforate 3 intervals – 5325-5327', 5350-5354', 5375-5381' (gross interval 5300-5400', 100'.) POH. Drop ball to seat in plug as soon as WL is RD off WH. Frac Stage #3.
10. RD frac company and WL company.
11. Flow well back on appropriate choke sizes. Limit rate to 50-75 bph and/or minimize sand flowback. Record pressures, choke sizes, rates, volumes, etc.
12. If well continues to flow, turn thru production facilities for gas sales.
13. When determined, MIRUSU. ND frac tree. NU Bop's. PU and SIH w/tbg. Clean out sand and drill out plugs to +/-6350'. DO NOT drill out plug above Dakota. TOH.
14. TIH w/production tbg string. Run BHA and EOT as required to run future production log.
(Wireline re-entry guide on bottom and EOT 100' above top perforation ~5200'.) Land tbg. ND Bop's. NU WH. Set up WH w/full opening valve on top.

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15. Swab/flow test well. Record pressures, choke sizes, rates, volumes, etc. Contact BHEP office. RDMOSU. Turn well over to production. Production test well as per BLM requirements.
16. After stable flow, RU SLB WL. Run production log across Mancos intervals to determine contribution to total well flow from each interval and fluid type contribution from each interval . RD WL.
17. Obtain permission to commingle Mancos and Dakota downhole.

Commingle

18. MIRU completion rig. Blow down well. ND WH. NU BOP's.
19. TOH w/tbg.
20. TIH w/bit and tbg. Drill out sand and composite plug at +/-6400'. Clean out to PBTD. TOH.
21. TIH w/production tbg string and land EOT at +/-6880'. ND Bop's. NU WH.
22. Swab well in as needed.
23. RDMOSU. Turn well over to production.

4/2012