

**BLACK HILLS PLATEAU PRODUCTION LLC**

**Walck 23-2**

**NWNW 23 10S 95W**

**API # 05-077-08259**

**Mesa County, Colorado**

**Spud 4/10/80 TD 5/3/80 Completion 6/30/80**

**GL: 7018' RKB: 7028' PBTD: 5419' TD: 5482'**

**Surface casing:** 8-5/8" 24# K55 ST&C @ 292' – 150sx Neat w/ 3% CaCl, circ to srf  
(TOC @ srf)

**Production casing:** 5-1/2" 15.5# K55 R3 ST&C @ 5480' (float@ 5437') – 250sx 50/50 Poz  
w/ 2% KCl, .03% NFL, float failed to hold, had full returns throughout  
**TOC @?'(no CBL or info in Compl Rig Rpt)**

**Perforations:** **Cozzette (6/17/80)** 5209, 5247, 5249, 5257 (1spf)  
**Corcoran (6/17/80)** 5355, 5357, 5363, 5367, 5371, 5387, 5388 (1spf)

- **Acid (6/18/80)** BOTH FORMATIONS – 1000gal 7-1/2% HCl – dropped balls and got good action – 1<sup>st</sup> break 100-800# - 2<sup>nd</sup> break 1700-1200# - 3<sup>rd</sup> break 1350-880# - 4<sup>th</sup> break 3100-1600#

- **Frac (6/21/80)** BOTH FORMATIONS – 80000# 20/40sd, 40T CO2  
CP 320, max 1900, min 1600, avg 25 ISIP 800, 15min 650  
Completed @ 10:30A – open well @ 12:30P – CP 400 TLWTR 1163bbl –  
rec'd 305blw by 7:30P (830bbl TLWTR)

**Production tubing:** 199jts 2-3/8" J55 4.7# tbg, SN, NC – EOT@ 5341.60'KB

**Packer:** None

**Rods:** None

**Production:** Cum: 304.9mcf

IP: 5/1981 5241mcf (~169mcf/d)

10/2006 655 mcf (~21mcf/d)

**History:**

- 6/17/80 CP 0, TP 0
- 6/18/80 CP Vac, TP 0 TLWTR 140bbl – rec'd 30blw
- 6/19/80 CP Vac, TP 0 FL 1200' - rec'd 45blw – RIH w/ tbg to 5050' – swab 16blw (TLWTR 50bbl)
- 6/20/80 CP 180, TP 40, FL 3500 – rec'd 30blw – SI 2hrs 225# on csg, 75# on tbg – well is dry
- 6/22/80 Rec'd 40 blw overnight - well making a show of gas – SI 2hrs (csg built to 100#) – open well @ 10:00A to test tank and well blew down immediately – left well open overnight to test tanks(790bbl TLWTR)
- 6/23/80 CP 0 @ 7A w/ slight blow of gas – land SN w/ NC @ 5397' (special perf tbg collars locted @ 1343, 2350, 3357, 4364')
- 8/22/05 PU 2jts tbg to get below perms (5433')
- 8/23/05 TOH – had drlg mud on tbg collars – MIT – had leak off – will test tomorrow for csg leak

- 8/24/05 Csg leaks found @ 352-430' – got permission from COGCC to braidenhead cmt down 5-1/2" and up 8-5/8" and try to sqz cmt into formation
- 8/25/05 pumped 93sx Portland Type I/II cmt down 5-1/2" and up 8-5/8" – good returns throughout job – cmt to srf
- 8/29/05 Drlg cmt
- 8/30/05 Finish drlg cmt – pressure test to 500psi – held for 15min – RIH w/ RBP ret head (ran to 4610') – swab 42bw
- 8/31/05 Swab 30bw - RIH w/ 2 stds, picked up RBP –pulled 26stds, csg unloading mud/water/gas (est 20bbl) – blew down well – POH, tbg unloading mud/water last 11stds – got out of hole w/RBP
- 9/1/05 RIH w/tbg string: 199jts 2-3/8" J55 4.6# tbg, SN, NC – EOT@ 5343' KB

RU swab, initial fluid level @ 4100'.

Run#	SICP	BBLs	TFR	Remarks
1	50	3	3	Drlg mud/gas
2	90	1	4	Drlg mud/gas
3	125	1	5	Drlg mud/gas
4	150	1 1/2	6 1/2	Drlg mud/gas
5	180	1 1/2	8	Drlg mud/gas
6	220	2 1/2	10 1/2	Drlg mud/wtr/gas, well trying to flow
7	235	2	12 1/2	Gray wtr/gas, well trying to flow
8	250	2	14 1/2	Gray wtr/gas, well trying to flow

- 02/01/07 Well loaded up – 5 swab runs (13bbl)
- 06/13-06/18/07 POH tbg – btm jt had perf wash pit (rplc 1jt) – TIH w/ NC, SN, 199jts 2-3/8" tbg - ld hole w/ 20bbl wtr (tested to 500psi-ok) - 10 swab runs (28bbl) – tbg flwd w/ CP 350psi – CP dropped to 260psi – rec'd 3bbl wtr – LP 280psi (flwg csg to sales because of high LP)

## Objective: Plug and Abandon

### NOTIFY COGCC & BLM (Verbal Approval for P&A procedure is required from the BLM)

Notify landowner 7 days and COGCC and BLM 48 hrs prior to moving in

1. Set and test deadman anchors as necessary.
2. MIRU workover rig. ND WH. NU BOP's.
3. Release Packer, inspect tally and TOH w/tbg.
4. TIH w/RBP. Set @ 5100 and Pressure test csg to 400 psi. Use digital recorder if available.
5. RIH with CBL tool run tool from depth to at least 2000' and find TOC, if TOC is above 5100', then POH and proceed to step 7 if not then step 6.
6. RIH w/ CR set @ 5150, sting in and pump 45 sks of class "C" or type "III" cement. Sting out and dump 2 sks of cement on top. Proceed to step 8
7. RIH w/ WL set CIBP @ 5150, dump 4 sks cmnt on top. Proceed to step 8
8. If TOC from CBL is above 2600', then proceed to step 12, if not step 9.

9. RIH w/ WL and shoot 4 circulating holes @ 2650', POH
10. RIH w/ CR on tbg and set @2600', POH
11. Sting into Retainer and pump 45 sks Class "C" or Type "III" cement below retainer. Sting out and dump 2 sks on top of CR. POH
12. RIH w/ CIBP set @ 2650 and dump 10 sks of cement on top
13. RIH w/ WL and shoot 4 circulating holes @ 1400, POH
14. RIH w/ CR on tbg and set @1350, POH
15. Sting into Retainer and pump 25 sks Class "C" or Type "III" cement below retainer. Sting out and dump 5 sks on top of CR. POH
16. RIH/WL and Shoot 4 circulating holes @ 385'. POH
17. TIH and Mix 345 sks of cement and bring to surface.
18. Dig out wellhead, cut off 8 5/8" Casing and 7" casing 6' below ground level. Install dry hole marker plate as per BLM and COGCC
19. Reclaim location and file necessary sundries.