



02577467

FORM 6 Rev. 12/05

State of Colorado Oil and Gas Conservation Commission



1120 Lincoln Street, Suite 801, Denver Colorado 80203 (303) 894-2100 Fax (303) 894-2109

Table with columns DE, ET, OE, ES

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WELL ABANDONMENT REPORT

Submit original plus one copy. This form is to be submitted as an intent whenever a plugging is planned on a borehole. The approved intent shall be valid for twelve months after the approval date after that period a new intent will be required. After the plugging is complete, this form and one copy shall again be submitted as a subsequent report of the work as actually completed.

COGCC Operator Number: 10150
Name of Operator: Black Hills Plateau Production
Address: 1515 Wynkoop St., Suite 500
City: Denver State: CO Zip: 80202
Contact Name & Telephone: Jessica Donahue
No: 120-210-1333 Fax: 303-566-3346
24 hour notice required, contact:
Tel:

API Number: 0507708659
Well Name: Horseshoe Canyon Well Number: 2-16
Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSW Sect. 16 T9S R97W, 6th PM
County: Mesa (077) Federal, Indian or State Lease Number: COC12643
Field Name: Shire Gulch Field Number: 77450
Complete the Attachment Checklist
Wellbore Diagram
Cement Job Summary
Wireline Job Summary

[X] Notice of Intent to Abandon [] Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 39.267997 GPS Data: Longitude: -108.228983
Date of Measurement: 4/30/08 PDOP Reading: 1.7 Instrument Operator's Name: Alan Vrooman
Reason for Abandonment: [] Dry [X] Production Sub-economic [] Mechanical Problems [] Other
Casing to be Pulled: [] Yes [X] No Top of Casing Cement:
Fish in Hole: [] Yes [X] No If yes, explain details below
Wellbore has Uncemented Casing Leaks: [] Yes [X] No If yes, explain details below
Details:

Current and Previously Abandoned Zones

Table with columns: Formation, Perforations - Top, Perforations - Bottom, Date Abandoned, Method of Isolation, Plug Depth

Casing History

Table with columns: String, Size of Hole, Size of Casing, Weight per ft, Setting Depth, Sacks Cement, Cement Bottom, Cement Top

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 3100 with 2 sacks cmt on top. CIBP #2: Depth with sacks cmt on top.
Set 165 sks cmt from 520 ft. to 0 ft. in [X] Casing [] Open Hole [] Annulus
Set 226 sks cmt from ft. to ft. in [X] Casing [] Open Hole [] Annulus
Perforate and squeeze at 2650 ft. with 100 sacks Leave at least 100 ft. in casing
Perforate and squeeze at 1125 ft. with 235 sacks Leave at least 100 ft. in casing
Perforate and squeeze at ft. with sacks Leave at least 100 ft. in casing
Set sacks half in, half out surface casing from ft. to ft.
Set sacks at surface
Cut four feet below ground level, weld on plate Dry-Hole Marker: [X] Yes [] No
Set sacks in rat hole Set sacks in mouse hole

Additional Plugging Information for Subsequent Report Only

Casing Recovered: ft. of in. casing Plugging date:
*Wireline Contractor: *Cementing Contractor:
Type of Cement and Additives Used:
*Attach job summaries.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Jessica Donahue Email: Jessica.Donahue@blackhillscorp.com
Signed: J Donahue Title: Regulatory Technician Date: 11/11/10

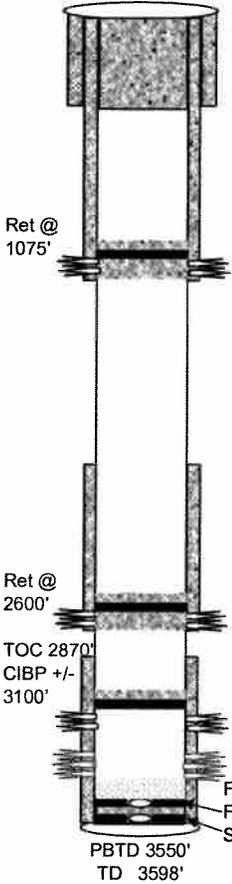
OGCC Approved: [Signature] Title: EIT III Date: DEC 02 2010

CONDITIONS OF APPROVAL, IF ANY:



Black Hills Plateau Production, LLC
A Black Hills Corporation Enterprise

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General Well Info			
Well Name:	HSC #2-16	Field:	Shire Gulch
Diagram Date:	11/8/2010	County:	Mesa
Srf Location:	SWSW 16 9S 97W	State:	Colorado
Lease # _(BLM) :	C-12643	API #:	05-077-08659
GL Elev:	5513'	KB Elev:	5525'
Formation Tops			
Zone	Depth		
Cameo	2654'		
Rollins	2935'		
Cozzette	3151'		
Corcoran	3343'		

- Srf Csg** 8-5/8" 24# ST&C 0-470' (12 1/4" hole)
Cmt 325 sx Class "G" + 2% CaCl2 + 1/4# Flocele (27 bbl to srf)
- Prod Csg** 5-1/2" 15.5# J55 LT&C 0-3596' (7 7/8" hole)
Cmt 40sx (lead) Highfill + 2#/sk Capseal
90sx (tail) 50/50 Poz, Class G + 1/4#/sx Flocele + 10% salt + 2#/sx Capseal
- Prod Tbg** none
- COZZ** Perfs (12/29/92) 3174-3181, 3188-3210 (1spf)
- CRCN** Perfs (12/05/92) 3361-3372, 3379-3381, 3407-3435' (1spf, 41 holes)
Frac (12/6/92) 349,000# 16/30 sand, 70Q N2 foam ATP: 1266psi ATR: 25bpm
4hrs after frac, chg to 32/64 - CP 600psi - came back w/ water & foam

Proposed P&A

- Set CIBP at +/-3100' w/2 sx cmt on top
 - Perf 2650'
 - Set cement retainer 2600'
 - Pump 90sx G cmt below retainer. Sting out. Dump 10 sx G cmt on top of retainer. Reverse circulate clean, if possible.
 - Perforate 4 circulating holes @ 1125'
 - Set cement retainer @ 1075'.
 - Sting in to retainer. Pump +/-225sx cmt below retainer. Sting out.
 - Dump 10sx cmt on top of retainer. Reverse circulate clean. Attempt to circulate cement to surface.
- If successful in circ cmt to srf:
- SOH w/ tbg & stinger to 520' (50' below srf csg shoe). Mix and pump cement to fill 5 1/2" casing. SOH & LD tbg. RD cementers.
 - Dig out wellhead. Cut off 8 5/8" and 5 1/2" csg 4' below ground level. Install dry hole marker as per BLM.
 - Reclaim Location.
- If unsuccessful in circ cmt to srf:
- Perforate 4 circulating holes @ 520'.
 - Circulate down 5 1/2" and up 8 5/8" surface pipe. Establish rate. Circulate G cmt to surface. Do not displace, leave 5 1/2" csg full of cmt.
- If unable to circulate cement to surface, contact BHEP office and COGCC for orders. If allowed, pump cement down csg/csg annulus to top off job.



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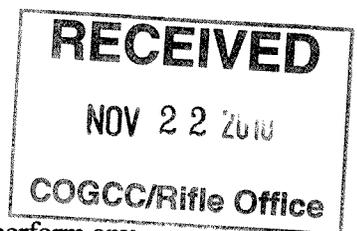
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Horse Shoe Canyon 2-16
SWSW 16 9S 97W
API # 05-077-08659
Mesa County, Colorado
Spud date 11/18/92 Completion Date 12/28/92

GL: 5513' RKB: 5525' PBTD: 3550' (fill 3515' 6/9/05) TD: 3598'

Surface casing: 8-5/8" (12 1/4" hole) 24# @ 470' ST&C, 325 sx "G", TOC surface (27 bbl to srf)
Production casing: 5-1/2" (7 7/8" hole) 15.5# J55 LT&C 3596', 40sx (lead) Highfill + 2#/sk Capseal, 90sx (tail) 50/50 Poz, Class G + 1/4#/sx Flocele + 10% salt + 2#/sx Capseal
Production tubing: NC, 1 jt 2 3/8" tbg, "R" nipple, ? jts 2 3/8" tbg, landed @ 3374' - SN @ 3342' (6/13/05)
Perforations: **Cozette** (12/29/92) 3174-3181, 3188-3210 (1spf)
Corcoran (12/5/92) 3361-3372, 3379-3381, 3407-3435' (1spf, 41 holes)
Packer: None
Rods: None
Production: Commingled - 8-10mcfpd (11/1/06)
0 mcf (Current)
Cum: 715,559mcf
IP: 1.03mmcfpd CP: 300psi, 12/11/92
Cozette perforated only, no treatment

History: 10/01 prod @ 1745mcfpm - 12/01 prod @ 3248mcfpm
No info in well file from 1993 to 2005 to explain why the increase
11/04 prod @ 2437mcfpm - 4/05 prod @ 79mcfpm
4/15/05-4/20/05 swabbed a total of 161.75bbl water - Beg FL 3100' End FL 3100'
5/12/05&5/16/05 swabbed w/ 0bbl water - tbg plugged w/ 10' of fill
6/1/05- 6/9/05 cleaned out tbg w/ water & foam - swabbed 43bbl water - total water to date swabbed=161.75bbl - FL still @ 3100'
6/10/05 turned well to sales - put on plunger lift
6/11/05 13mcf on plunger
6/12/05 11mcf on plunger lift
6/13/05 swab 1bbl water & 1bbl water on top of plunger - put to sales
• 10/9/97 SI BHP @ 3360'=323psia, BHT 120°F ???
• 5/16/05 SI BHP @ 3250'=883psia, BHT 118°F ???
5/31/07 perf 3407-3435' and 3361-3372' - shot propellant X-Tend-A-Perf into same footages
6/1/07-6/14/07 swabbed 101 bbls - Beg FL 2500' End FL 3500'
10/30/10 swabbed 6 runs, 1.5 bbls muddy water; encountered obstruction in tbg at 2135'



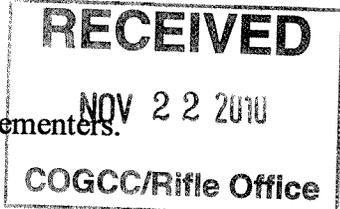
Objective: Perform MIT. Decision has been made to P&A and not to perform any production testing. P&A procedure included.

Notify BLM & COGCC 48 hrs prior to moving in.

1. Set and test deadman anchors as necessary. MIRU workover rig (**Note: TP & CP**). Blow down well. ND WH. NU BOP's.
2. RU for tbg. Tag fill. Tally & TOH w/tbg.
3. If tubing shows to be in bad condition, TIH w/bit and scraper to 33174' (top of COZZ perfs). TOH.
4. TIH w/RBP pkr. Set RBP @ 3100' & test casing plug. Release pkr. Pressure test csg to 400 PSI. Chart test.
5. If well passes MIT, release RBP, TOH or SOH and LD tubing when appropriate.
6. If MIT fails, isolate holes and determine the interval of leaks. Contact BHEP office to discuss options. Contact BLM & COGCC before any formation is P&A'd.

P & A Procedure

1. MIRU WL. RIH and set 5 1/2" CIBP @ +/-3100' (w/in 100' of top Cozzette perf at 3174' and below TOC 2870'.) POH. RIH and dump bail 2 sx cmt on top of plug. POH.
2. RIH and perforate 4 circulating holes @ 2650'. POH
3. RIH and set cement retainer @ 2600'. POH.
4. TIH w/stinger and tbg. RU cementers. Sting in to retainer. Pump 90sx G cmt below retainer. Sting out. Dump 10 sx G cmt on top of retainer. Reverse circulate clean, if possible.
5. TOH w/ tbg & stinger. SOH & LD tbg, when appropriate.
6. RIH and perforate 4 circulating holes @ 1125'. POH.
7. RIH and set cement retainer @ 1075'. POH.
8. TIH w/stinger and tbg. RU cementers. Sting in to retainer. Pump +/-225sx G cmt below retainer. **Attempt to circulate cement to surface.** Sting out. Dump 10 sx G cmt on top of retainer. Reverse circulate clean. **If unable to circulate cement to surface, contact BHEP office and COGCC for orders. If allowed, pump cement down csg/csg annulus to top off job.**
9. SOH w/ tbg & stinger to 520' (50' below srf csg shoe). Mix and pump cement to fill 5 1/2" casing. SOH & LD tbg. RD cementers. **Continue with Step #12.**
10. **If unsuccessful in Step #8,** SOH & LD tbg, when appropriate. RIH and perforate 4 circulating holes @ 520'. POH. RD WL. ND BOPs.
11. RU cementers, circulate down 5 1/2' and up 8 5/8" surface pipe. Establish rate. Circulate



- G cmt to surface. Do not displace, leave 5 1/2" csg full of cmt. RD cementers.
12. WOC. Top off as needed. RDMOSU.
 13. Dig out wellhead. Cut off 8 5/8" and 5 1/2" csg 4' below ground level. Install dry hole marker as per BLM.
 14. Reclaim location. File necessary sundries.

11-8-10
