

State of Colorado  
Oil and Gas Conservation Commission

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



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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: <u>10150</u> Name of Operator: <u>Black Hills Plateau Production</u> Address: <u>1515 Wynkoop St., Suite 500</u> City: <u>Denver</u> State: <u>CO</u> Zip: <u>80202</u>		Contact Name & Telephone <u>Jessica Donahue</u> No: <u>720-210-1333</u> Fax: <u>303-566-3346</u>	<b>24 hour notice required, contact:</b>  Tel: _____																		
API Number <u>0507708659</u> Well Name: <u>Horseshoe Canyon</u> Well Number: <u>2-16</u> Location (QtrQtr, Sec, Twp, Rng, Meridian): <u>SWSW Sect. 16 T9S R97W, 6th PM</u> County: <u>Mesa (077)</u> Federal, Indian or State Lease Number: <u>COC12643</u> Field Name: <u>Shire Gulch</u> Field Number: <u>77450</u>		<b>Complete the Attachment Checklist</b> <table border="1"><tr><td>Wellbore Diagram</td><td>Oper</td><td>OGCC</td></tr><tr><td>Cement Job Summary</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Wireline Job Summary</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td> </td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td> </td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td> </td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr></table>		Wellbore Diagram	Oper	OGCC	Cement Job Summary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wireline Job Summary	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
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	<input type="checkbox"/>	<input type="checkbox"/>																			

☒ **Notice of Intent to Abandon**      ☐ **Subsequent Report of Abandonment**

*Only Complete the Following Background Information for Intent to Abandon*

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

**Current and Previously Abandoned Zones**

Formation	Perforations - Top	Perforations - Bottom	Date Abandoned	Method of Isolation (None, Squeezed, BP, Cement, etc.)	Plug Depth
Cozzette	3174	3210			
Corcoran	3361	3435			

**Casing History**

String	Size of Hole	Size of Casing	Weight per ft	Setting Depth	Sacks Cement	Cement Bottom	Cement Top
Surface	12 1/4"	8 5/8"	24#	470'	325	470'	0'
Prod	7 7/8"	5 1/2"	15.5#	3598'	130	3598'	2870'

**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. NOTE: Two (2) sacks cement required on all CIBPs.

Set <u>90</u> <u>165</u> sks cmt from <u>520</u> ft. to <u>0</u> ft. in	<input checked="" type="checkbox"/> Casing	<input type="checkbox"/> Open Hole	<input type="checkbox"/> Annulus
Set <u>226</u> sks cmt from _____ ft. to _____ ft. in	<input checked="" type="checkbox"/> Casing	<input type="checkbox"/> Open Hole	<input type="checkbox"/> Annulus
Set _____ sks cmt from _____ ft. to _____ ft. in	<input type="checkbox"/> Casing	<input type="checkbox"/> Open Hole	<input type="checkbox"/> Annulus
Set _____ sks cmt from _____ ft. to _____ ft. in	<input type="checkbox"/> Casing	<input type="checkbox"/> Open Hole	<input type="checkbox"/> Annulus
Set _____ sks cmt from _____ ft. to _____ ft. in	<input type="checkbox"/> Casing	<input type="checkbox"/> Open Hole	<input type="checkbox"/> 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  
Set \_\_\_\_\_ sacks in rat hole      Dry-Hole Marker: ☒ Yes ☐ No  
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: Keith Kij Title: EIT III Date: DEC 02 2010  
CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_

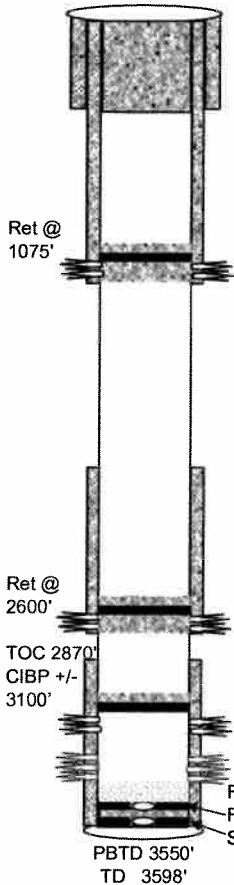


**Black Hills Plateau Production, LLC**  
A Black Hills Corporation Enterprise

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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 # <sub>(BLM)</sub> :	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% CaCl<sub>2</sub> + 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 N<sub>2</sub> 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.

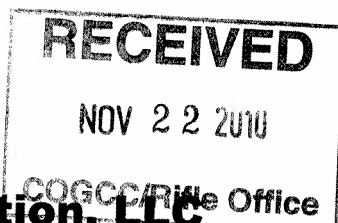
If unsuccessful in circ cmt to srf:

- 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.



# Black Hills Plateau Production, LLC

A Black Hills Corporation Enterprise

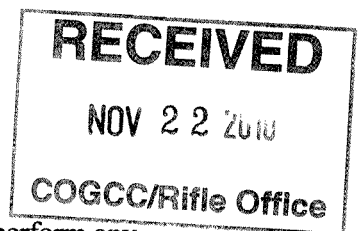


Horse Shoe Canyon 2-16  
SWSW 16 9S 97W  
API # 05-077-08659  
Mesa County, Colorado  
Spud date 11/18/92 Completion Date 12/28/92

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:** TOC @ 2870' by CBL NC, 1 jt 2 3/8" tbg, "R" nipple, ? jts 2 3/8" tbg, landed @ 3374' – SN @ 3342' (6/13/05)  
**Perforations:** Cozzette (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 mcfpd (Current)  
Cum: 715,559mcf  
IP: 1.03mmcfpd CP: 300psi, 12/11/92  
Cozzette 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 13mcfpd on plunger  
6/12/05 11mcfpd 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

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- 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

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