

Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-039-30080
5. Indicate Type of Lease: FEDERAL STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. FEDERAL: MDA 701-98-0013 Tract 4
7. Lease Name or Unit Agreement Name JICARILLA 29-02-09
8. Well Number: #143
9. OGRID Number: 013925
10. Pool name or Wildcat E. Blanco PC & La Jara Canyon Tertiary

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

BLACK HILLS GAS RESOURCES, INC.

3. Address of Operator: c/o Agent, Mike Pippin LLC

3104 N. Sullivan, Farmington, NM 87401 505-327-4573

4. Well Location

Unit Letter O : 500 feet from the South line and 1650 feet from the East line

Section 9 Township 29N Range 2W NMPM Rio Arriba County DIST. 3

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
7365' GL

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____

Pit Liner Thickness: 12 mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐ CHANGE PLANS ☐

PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

OTHER: Administrative Downhole Commingle ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ P AND A ☐

CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Black Hills requests administrative approval to downhole commingle the East Blanco Pictured Cliffs (72400) and La Jara Canyon Tertiary (97036), which are both included in the pre-approved pools established by Division Order R-11363. Both intervals have common ownership and produce essentially dry gas. We have not experienced any significant cross flows between these two intervals, and all the fluids are compatible. Downhole commingling will improve recovery of liquids and gas, eliminate redundant surface equipment, and maximize productivity. Notice has been filed concurrently on form 3160-5 with the BLM.

This well is currently producing from the Pictured Cliffs, which was completed on 7/11/09. Following the recompletion into the Tertiary, Black Hills plans to commingle the two pools and utilize the production before (PC only) with production after recompletion to calculate the pool allocations.

OHc 3313A2

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Mike Pippin TITLE Agent, Petroleum Engineer DATE 1/7/10

Type or print name Mike Pippin E-mail address: mike@pippinllc.com Telephone No.: 505-327-4573

For State Use Only

APPROVED BY: [Signature] TITLE Deputy Oil & Gas Inspector, DATE JAN 13 2010

Conditions of Approval (if any):

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30080	² Pool Code 97036	³ Pool Name La Jara Canyon Tertiary
⁴ Property Code 24247	⁵ Property Name Jicarilla 29-02-09	⁶ Well Number 143
⁷ OGRID No. 013925	⁸ Operator Name Black Hills Gas Resources, Inc.	⁹ Elevation 7365' GL

¹⁰ Surface Location

UL or lot no. O	Section 9	Township 29-N	Range 2-W	Lot Idn	Feet from the 500'	North/South line South	Feet from the 1650'	East/West line East	County Rio Arriba
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres 167 - SE/4	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <u>Mike Pippin</u> Date: <u>1/7/10</u> Mike Pippin Printed Name	
	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Roy A. Rush Date of Survey <u>9/16/06</u> Signature and Seal of Professional Surveyor:	
	8894 Certificate Number	

5347.61' (M)

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Form C-102

Revised October 12, 2005

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2006 OCT 4 AM 10 06 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30080	² Pool Code 72400	³ Property Name JICARILLA 29-02-09	⁴ Well Number 43
⁵ Property Code 24247	⁶ Operator Name BLACK HILLS GAS RESOURCES	⁷ Elevation 7365	
⁸ GRID No. 013925			

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	9	29-N	2-W		500	SOUTH	1650	EAST	RIO ARRIBA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 160 acres - SE/4	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16

		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Kathy L. Schneebeck</i> Signature Date October 3, 2006 Printed Name Kathy L. Schneebeck Permit Agent for Black Hills	
		18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge. Date of Survey Signature and Seal of Professional Surveyor 8894 Certificate Number	

Jicarilla 29-02-09 #143 CURRENT Wellbore Diagram

API # 30-039-30080

SW SE, Sec 09, T29N, R2W Rio Arriba, NM

GL = 7365
KB = 7378

1/7/2010

SURF CASING

13 3/8" 48 # J-55 casing @ 264'
TOC surf.

TOC = 300' CBL 9-17-08

Calc TO 50/50 POZ = 2046'
DV Tool @ 2300'

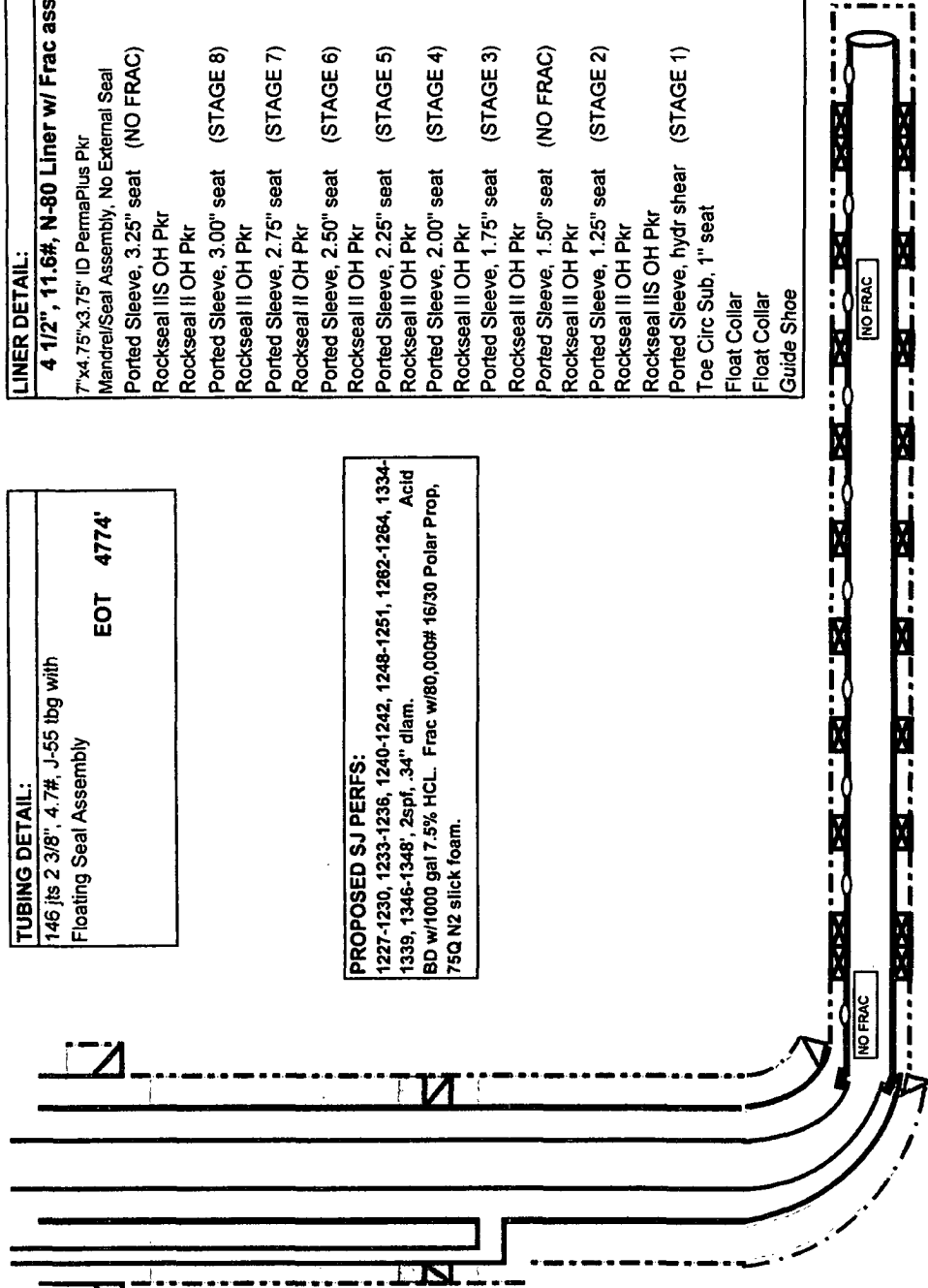
TOC = 2385' CBL 9-17-08

PROD CASING

7", 23#, J-55 casing @ 4868',
DV tool @ 2300'. 1.9" parasite
string from surf to 2564'. Incln.
@ shoe = 86 deg Cmt'd Stg1
w/400 sx 50/50/3 POZ & Stg 2
w/ 660 3% Econolite + 100 sx
50/50/3 POZ. Circ some chem
wash but no cement after 1st
Stg, circ 40 bbl to surf from
Stg2.

TUBING DETAIL:	
146 jts 2 3/8", 4.7#, J-55 tbg with Floating Seal Assembly	EOT 4774'

PROPOSED SJ PERFS:
1227-1230, 1233-1236, 1240-1242, 1248-1251, 1282-1284, 1334-
1339, 1346-1348', 2spf, 34" diam. Acid
BD w/1000 gal 7.5% HCL. Frac w/80,000# 16/30 Polar Prop,
75Q N2 slick foam.



6 1/8" hole

7" Csg @ 4868'

9509 TD

LINER DETAIL:	
4 1/2", 11.6#, N-80 Liner w/ Frac assembly:	
7"x4.75"x3.75" ID PermaPlus Pkr	4758
Mandrel/Seal Assembly, No External Seal	
Ported Sleeve, 3.25" seat (NO FRAC)	4992
Rockseal IIS OH Pkr	5166
Rockseal II OH Pkr	5182
Ported Sleeve, 3.00" seat (STAGE 8)	5442
Rockseal II OH Pkr	5737
Ported Sleeve, 2.75" seat (STAGE 7)	5993
Rockseal II OH Pkr	6289
Ported Sleeve, 2.50" seat (STAGE 6)	6544
Rockseal II OH Pkr	6837
Ported Sleeve, 2.25" seat (STAGE 5)	7097
Rockseal II OH Pkr	7391
Ported Sleeve, 2.00" seat (STAGE 4)	7648
Rockseal II OH Pkr	7946
Ported Sleeve, 1.75" seat (STAGE 3)	8206
Rockseal II OH Pkr	8462
Ported Sleeve, 1.50" seat (NO FRAC)	8639
Rockseal II OH Pkr	8772
Ported Sleeve, 1.25" seat (STAGE 2)	8947
Rockseal II OH Pkr	9122
Rockseal IIS OH Pkr	9136
Ported Sleeve, hydr shear (STAGE 1)	9312
Toe Circ Sub, 1" seat	9483
Float Collar	9486
Float Collar	9494
Guide Shoe	9496