

DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2004

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other b. Type of Completion: <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input checked="" type="checkbox"/> Diff. Resvr. Other _____						5. Lease Serial No. Jicarilla Contract 464			
2. Name of Operator Black Hills Gas Resources, Inc						6. If Indian, Allottee or Tribe Name Jicarilla Apache Tribe			
3. Address 350 Indiana Street, Suite 400 Golden, CO 80401				3a. Phone No. (include area code) 720-210-1308		7. Unit or CA Agreement Name and No.			
4. Location of Well (Report location clearly and in accordance with Federal requirements) At surface 660' FNL & 1050' FWL (NENW) Unit C At top prod. interval reported below 660' FNL & 1050' FWL (NENW) Unit C At total depth 660' FNL & 1050' FWL (NENW) Unit C						8. Lease Name and Well No. Jicarilla 464-31 No. 11 9. API Well No. 30-039-27731			
14. Date Spudded 6/13/2004						15. Date T.D. Reached 6/17/2004			
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 4/24/05						10. Field and Pool, or Exploratory Cabresto Canyon, Tertiary 11. Sec., T., R., M., on Block and Survey or Area Sec. 31, T30N-R03W 12. County or Parish Rio Arriba 13. State NM			
18. Total Depth: MD 3885' TVD						19. Plug Back T.D.: MD 3838' TVD			
20. Depth Bridge Plug Set: MD TVD						17. Elevations (DF, RKB, RT, GL)* 7151' KB, 7150' DF, 7138' GL			
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) SDL/DSN, HRI, BCS						22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit copy)			
23. Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12 1/4"	8 5/8"	24	0'	278'		175 & B		surface;	
								circ 10bbl	
								to surface	
7 7/8"	5 1/2"	15.5	0'	3883'		920		surface;	
								circ 37bbl	
								to surface	
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2 3/8"	3799'	3727'							
25. Producing Intervals									
Formation	TOP	Bottom	Perforated Interval	Size	No. Holes	Perf. Status			
A) Ojo Alamo	3292	3340	3292-3300, 3304-12, 28-30, 38-40	2	40	Open			
B)			2934-36, 51-53, 56-58, 62-64, 80-82,						
C)			86-88, 92-94, 98-3000, 22-24, 26-28,	2	44	3053-3055; Closed			
D)			2278-80, 86-88, 2389-91, 96-98,	2	40	2577-2579, 2784-2788; Closed			
27. Acid, Fracture, Treatment, Cement Squeeze, Etc.									
Depth Interval	Amount and Type of Material								
3292-3340	Acidize w/500gals 3%HCl.								
3292-3330	Frac af: 2.0#, 4.0#, 6.0# OF 20/40 BRADY SAND 6.0#, 8.0# OF 20/40 SUPER L C SAND. TOTAL SAND PUMPED = 75000#. 394,759 SCFM N2.								
2934-3055	Acidw/800gals 3%HCl. 50Qual N2 FM/AQUA SAFE X-15 TTL OF 56394# 20/40 BRADY&20/40 SUPER MESH LC SAND.TTL OF 293,195 SCFN2.								
2278-2788	Acidize w/700gals 3%HCl. 50 QUAL FOAM AQUA SAFE X - 15 AF: PUMP46,260# 20/40 BRADY AND 14,960# SUPER LC. PUMP212,198sef N2.								
28. Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
	11/11/04	24	<input type="checkbox"/>		25	50			Flowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
			<input type="checkbox"/>					Waiting On Pipeline	
28a. Production - Interval B									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			<input type="checkbox"/>						
Choke Size	Tbg. Press. Flwg. SI	Call Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
			<input type="checkbox"/>						

(See instructions and spaces for additional data on next page)

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## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			<input type="checkbox"/>						
Choke Size	Tbg Press Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
			<input type="checkbox"/>						

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			<input type="checkbox"/>						
Choke Size	Tbg Press Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
			<input type="checkbox"/>						

## 29. Disposition of Gas (Sold used for fuel, vented, etc.)

Sold

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				San Jose	surface
				Nacimiento	2141'
				Ojo Alamo	3289'
				Kirtland	3519'
				Fruitland	3694'
				Pictured Cliffs	3819'

## 32. Additional remarks (include plugging procedure):

2278'-2398': cmt squeezed: pumped 100 sx class B cmt w/cfi-71 fluid loss additive. est TOC 2236'.

2577'-2788': cmt squeezed: pumped 50 sx class B w/2% halad 344 fluid loss additive. TOC 2546'.

2934'-3055': cmt squeezed: pumped 115 sx class G cmt w/3% uniflac-s fluid loss additive. est TOC 2810'.

## 33. Circle enclosed attachments:

- ① Electrical/Mechanical Logs (1 full set req'd.)    2 Geologic Report    3 DST Report    4 Directional Survey  
 5 Sundry Notice for plugging and cement verification    6 Core Analysis    7 Other: \_\_\_\_\_

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Allison Newcomb

Title Engineering Technician

Signature

Allison Newcomb

Date 2/7/2005

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212 make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false fictitious or fraudulent statements or representations as to any matter within its jurisdiction.