

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WELL COMPLETION OR RECOMPLETION REPORT AND LOGFORM APPROVED
OMB NO. 1004-0137
Expires: March 31, 2007

5. LEASE DESIGNATION AND SERIAL NO.

Jicarilla Contract 462

RCVD NOV 7 2006
OIL CONS. DIV.

DIST. 3

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other ☐
b. Type of Completion ☒ New Well ☐ Workover ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

6. INDIAN ALLOTTEE OR TRIBE NAME

Jicarilla Apache Tribe

7. UNIT AGREEMENT

2. Name of Operator

Black Hills Gas Resources, Inc.

8. FARM OR LEASE NAME

Jicarilla 462-22 #722

3. Address

P.O. Box 249, Bloomfield, NM 87413

3a. Phone No. (include area code)

505 634-1111

9. API WELL NO.

30-039-298890001

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface

1975' FNL & 2070' FWL, Unit F

At top prod. Interval reported below

1975' FNL & 2070' FWL, Unit F

At total depth

8349'

10. FIELD NAME

WC Basin Mancos

11. SEC. T. R. M. OR BLOCK AND SURVEY
OR AREA

Sec. 22, T30N, R3W

12. COUNTY OR PARISH

Rio Arriba

13. STATE

NM

14. Date Spudded

18-Jul-06

15. Date T.D. Reached

5-Aug-06

16. Date Completed

Ready to Prod.

17. ELEVATIONS (DF, RKB, RT, GR, etc.)*

G.L.=7209', K.B.=7222'

18. Total Depth:

MD

8349'

TVD

8349'

19. Plug back T.D.:

MD

TVD

20. Depth Bridge Plug Set:

MD

TVD

21. Type Electric & other Logs Run (Submit a copy of each)

GAMMA RAY, DENSITY, NEUTRON, INDUCTION, CBL

22. Was well cored?

☒ No☐ Yes (Submit analysis)

Was DST run?

☒ No☐ Yes (Submit report)

Directional Survey?

☐ No☒ 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"	9 5/8", J-55	36#	Surf	333'		165 Type G	195 cu ft	Surf	0
8 3/4"	7", N-80	23#	Surf	3920'		700 Type G Poz	1175 cu ft	Surf	0
6 1/4"	4 1/2", P-110	11.6#	3702'	8349'		430 sx Dk Lite	765 cu ft	3702'	0

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"	7187'	N/A						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. of Holes	Perf. Status
A) Mancos	7272	8142	8042-44, 8060-62, 8076-79, 8134-42.	.34"	22	open
B)			7658-62, 7759-61, 7813-17, 7850-53, 7910-14, 7954-56	.34"	76	open
C)			7272-80, 7410-15, 7452-56, 7471-73, 7511-13, 7566-68	.34"	58	open

26. Perforation Record

27. Acid, Fracture Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
8042-8142	BD w/250 gal 10% Acetic w/ 21 balls, 20000 gal XL gel w/ 4200# 20/40 RC sand, screen out. Re-BD w/ 650 gal 7 1/2% HCl, pressure out, SD, set composite BP @ 8015'
7658-7956	Perforate and BD w/ 6 propellant charges. BD w/ 6 settings PKR/RBP & KCl water. Frac 21300 gal XL gel w/ 3000# 20/40 RC sand, screened out. Set RBP @ 7602'
7272-7568	BD w/ 1000 gal 7 1/2% HCl, 3 settings w/ PKR and RBP & 76 balls. Frac w/ 75000 gal XL gel and 80000# 20/40 RC sand

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
	11/2/2006	8	→		161	1.6			Flowing
Choke Size	Tbg. Press Flwg. SI	Csg. Press.	24 Hr. Rate	Oil Bbl	Gas MCF	Water Bbl	Gas: Oil Ratio	Well Status	
1/2"	62	320	→		482	5		Ready to Produce	

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
			→						
Choke Size	Tbg. Press Flwg. SI	Csg. Press.	24 Hr. Rate	Oil Bbl	Gas MCF	Water Bbl	Gas: Oil Ratio	Well Status	
			→						

ACCEPTED FOR RECORD

NOV 04 2006

FARMINGTON FIELD OFFICE
BY TL Salvers

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
Choke Size	Tbg. Press Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil Bbl	Gas MCF	Water Bbl	Gas: Oil Ratio	Well Status	

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
Choke Size	Tbg. Press Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil Bbl	Gas MCF	Water Bbl	Gas: Oil Ratio	Well Status	

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

Vent

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:
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Formation	Top	Bottom	Descriptions Contents, Etc.	Name	Top
					Measured Depth
Mancos	6558	8299		San Jose	0
				Nacimiento	2075
				Ojo Alamo	3191
				Kirtland	3421
				Fruitland	3601
				Pictured Cliffs	3699
				Lewis	3922
				Cliffhouse	5687
				Menefec	5909
				Point Lookout	6043
				Mancos ✓	6558
				Dakota	8299

32. Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

<input type="checkbox"/> Electrical/ Mechanical Logs (1 full set required)	<input type="checkbox"/> Geologic Report	<input type="checkbox"/> DST Report	<input checked="" type="checkbox"/> Directional Survey
<input type="checkbox"/> Sundry Notice for plugging and cement verification	<input type="checkbox"/> Core Analysis	<input checked="" type="checkbox"/> Other:	Wellbore Diagram

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) **Loren Diede**

Title **Consultant (Agent)**

Signature



Date

11-02-06

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.

11/2/2006

Black Hills Gas Resources, Inc.

Jicarilla 462-22 #722

Current Wellbore Diagram

API # 30-039-29889

UNIT F SE NW, Sec 22, T30N, R03W Rio Arriba, NM

Spud Date 7-18-2006

Elev. GL= 7209'

Elev. KB= 7222'

SURF CSG

9 5/8" 36# J-55
@333' KB, 165 sx
cmt, TOC: 7 bbl circ

Intermediate Casing

7" 23# N-80 set at
3920'. Cmt w/400sx,
lead + 300 sx tail,
TOC circ 10 bbl to
surf.

Production Liner

4 1/2" 11.6# P-110
From 3702' to 8349"
KB; cmt w/ 430 sx lite-
weight, Circulate 7
bbls cement off the
liner top.

227 jts 2 3/8" tubing
1.78" R nipple
Mule shoe collar

EOT +/-

7187

Gallup/Upper Mancos perms: **10-13-06**; 7272-7280, 7410-7415, 7452-7456, 7471-7473, 7511-7513, 7566-7568. 58 holes, BD **10-20-06** w/ 1000 gl HCl, balls w/ Pkr/RBP. Frac w/ Borate XL, no CO₂, 80000# sand.F.G = .74 ISIP 2800. Test 350 mcf/d, trace water Ran multiple treacer log.

Mancos/Gallup perms: **9-27-06**; 7658-7662, 7759-7761, 7813-7817, 7850-7853, 7910-7914, 7954-7956, 79 holes, BD w/ X-Tend-A-Perf. Not much fluid entry, BD **10-02-06** ISIP (2600-3500) w/ 2% KCl water, Good breaks. Frac **10-05-06** XL gel 6-8% CO₂, screen out on 1/4# sand. Traced, Ran multiple tracer log. Test 20-30 mcf/d.

Greenhorn/Mancos perms: **9-13-06**; 8042-8044, 8060-8062, 8076-8079, 8134-8142. 22 holes, BD **9-15-06** balloffw/250 gl Acetic acid(2 settings) ISIP 3400.. Frac. **9-20-06**, Pump XL gel w/ 20% CO₂, screen out w/ 4200# sand. Traced, ran single GR tracer log. BD **9-24-06** w/ HCl, Pkr RBP. Press higher than before. Test 20-30 mcf/d. Set Composite BP

PBTD=8286'

TD = 8349'