

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.

Contract 458

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other New Bottom Hole Completion

JAN 21 2011

6. If Indian, Allottee or Tribe Name

Jicarilla Apache Tribe

7. Unit or CA Agreement Name and No.

2. Name of Operator

Black Hills Gas Resources

3. Address

3200 N 1st / P.O. Box 249 Bloomfield, NM 87413

3a. Phone No. (include area code)

(505) 634-1111

8. Lease Name and Well No.

Jicarilla 458-5 #22

9. AFI Well No.

30-039-29314

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

At surface 2230' FNL & 2175' FWL Unit F

At top prod. interval reported below

At total depth 2239' FNL & 1571' FWL Unit F

10. Field and Pool or Exploratory
Basin Mancos11. Sec., T., R., M., on Block and
Surveyor Area
Sec. 5 T30N R3W12. County or Parish
Rio Arriba13. State
NM14. Date Spudded - 3-10-00
Sidetrack 10/31/1015. Date T.D. Reached
Sidetrack 11/12/1016. Date Completed
☐ D&A ☒ Ready to Prod. 1/5/1117. Elevations (DF, RKB, RT, GL)
7271' GL 7284' RKB18. Total Depth: MD 8570
TVD 850019. Plug Back T.D.: MD 8523
TVD 845320. Depth Bridge Plug Set: MD 8523
TVD 8453

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

Spectral Density / Neutron / Resistivity; Cmt Evaluation log

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	0	301		165, G	39	0' - Circ	0
8 - 3/4"	7, L80, J55	23	0	4025		710, POZ	202	330' - CBL	0
6 - 1/8"	4-1/2, P-110	11.6	0	8560	6871	210, POZ	48	4180 - CBL	0
						380, POZ, G	94	4180 - CBL	0

24. Tubing Record

Size	Depth Set (MD)	Pacher Depth (MD)	Size	Depth Set (MD)	Pacher Depth (MD)	Size	Depth Set (MD)	Pacher Depth (MD)
2 - 3/8	7474							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A Basin Mancos	6891	8570	7555.5 - 7709	.34	45	Open
B			7744 - 7799	.34	24	Open
C			7833.5 - 7970.5	.34	45	Open
D			See Line 32 - Additional Remarks for additional Perfs.			

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

Depth Interval	Amount and Type of Material
7555.5 - 7709	48 bbls 15% HCL, 7500# 100m wht sd, 459,200# 40/70 AZ brn sd, 16,386 bbls slick water
7744 - 7799	48 bbls 15% HCL, 7500# 100m wht sd, 42,200# 40/70 AZ brn sd, 3082 bbls slick water
7833.5 - 7970.5	48 bbls 15% HCL, 7500# 100m wht sd, 411,900# 40/70 AZ brn sd, 13,895 bbls slick water
See Line 32 - Additional Remarks for additional Depth interval and Amount and Type of Material	

28. Production - Interval A

Date First Produce	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
1/5/11	1/5/11	6	→	0	440	66	NA	.58	Flowing
Choke Size	Tbg. Press. Flwg. NA	Csg. Press flwg 1750	24 HR. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
16/64	SI		→	0	1760	264	NA	Flowing to sales	

RCVD JAN 25 '11
OIL CONS. DIV.

DIST. 3

28a. Production - Interval B

Date First Produce	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

JAN 24 2011

FARMINGTON FIELD OFFICE

*(See instructions and spaces for additional data on page 2)

CONFIDENTIAL

28a. Production - Interval C

Date First Produce	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	
			➔						

28a. Production - Interval d

Date First Produce	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 (Solid, 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
Mancos	6891	8570	Gas	San Jose	13
				Nacimiento	2287
				Ojo Alamo	3346
				Kirtland	3537
				Fruitland	3769
				Pictured Cliffs	3924
				Lewis	4030
				Cliffhouse	5947
				Menefee	6185
				Point Lookout	6638
				Mancos	6891

32. Additional remarks (include plugging procedure):

Continuing from 26. Perforation Records

Perforated Interval	Size	No. Holes	Perf. Status
8002 - 8079	.34	30	Open
8405 - 8451	.34	24	Open

Continuing from 27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth	Amount of Material
8002 - 8079	48 bbls 15% HCL, 7500# 100m wht sd, 254,800# 40/70 AZ brn sd, 8917 bbls slick water
8405 - 8451	48 bbls 15% HCL, 7500# 100m wht sd, 144,250# 40/70 AZ brn sd, 5472 bbls slick water

JICARILLA 458-5 #22 BASIN MANCOS GAS WELL

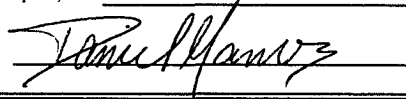
33. Indicate which items have been attached by placing a check in the appropriate boxes:

<input type="checkbox"/> Electrical/Mechanical Logs (1 full set req'd)	<input type="checkbox"/> Geologic Report	<input type="checkbox"/> DST Report	<input type="checkbox"/> Directional Survey
<input type="checkbox"/> Sundry Notice for plugging and cement verification	<input type="checkbox"/> Core Analysis	<input type="checkbox"/> 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) **Daniel Manos**Title **Regulatory Technician**

Signature



Date

January 21, 2011

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.

(Continued on page 3)

(Form 3160-4, page 2)