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Form 3160-5
(April 2004)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side.

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator
Black Hills Gas Resources3a. Address **3200 N 1st Street PO Box 249 Bloomfield, NM 87413**
3b. Phone No. (include area code) **505-634-1111 ext 27**4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2.105' FNL & 660' FEL SE/NE (Unit H) Sec. 9, T29N, R2W5. Lease Serial No.
MDA 701-098-00013, Tract 46. If Indian, Allottee, or Tribe Name
Jicarilla Apache Tribe

7. If Unit or CA, Agreement Name and/or No.

8. Well Name and No.

Jicarilla 29-02-09 #4 249. API Well No.
30-039-3007710. Field and Pool, or Exploratory Area
La Jara Canyon Tertiary11. County or Parish, State
Rio Arriba, New Mexico

CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment Notice

TYPE OF ACTION

☐ Acidize☐ Altering Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☒ Fracture Treat☐ New Construction☐ Plug and abandon☐ Plug back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-off☐ Well Integrity☒ Other **Same Zone****Payadd**

13. Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Black Hills Gas Resources would like to initiate a same zone workover as follows: MIRU workover rig. TOH with tbg. Perf additional San Jose at about 1227-1229, 1233-1236, and 1445-1448' with 4spf, 32 holes total. Est BHP 150 psi. Break down new perfs with about 400 gal 7 1/2% HCL. Break down and ball off San Jose perfs 1227-1464' with about 2000 gal 7 1/2% HCL. Frac San Jose perfs 1227-1464' with about 84,000# 16/30 brown sand and 36,000# 16/30 PolarProp in 75Q N2 slick foam. Land 2 3/8" production tbg at about 1410'. Release workover rig

RCVD NOV 16 '09
OIL CONS. DIV.
DIST. 3

14. I hereby certify that the foregoing is true and correct.

Name (Printed/ Typed)

Daniel ManusTitle **Regulatory Technician**

Signature

Date

November 12, 2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

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 any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

NMOC16

Jicarilla 29-02-09 #24
Proposed Wellbore Diagram

API #30-039-30077

SE NE Sec 9, T29N, R02W Rio Arriba, NM

11/4/2009

Elev. GL= 7460'

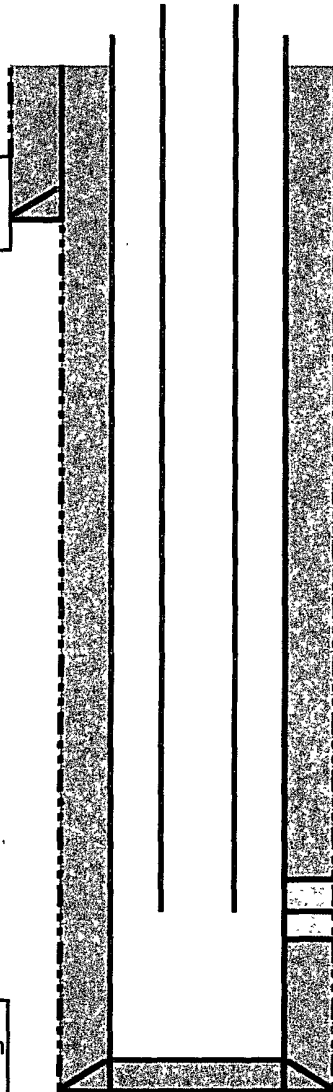
Elev. KB= 7465'

SURF CSG

7" 23# J-55 @ 271'
cmt 250 sx. TOC at
surface

PROD CSG

4 1/2" 11.6# J55
@1715' KB; cmt with
125 sx 65/35 poz +
75 sx 50/50/ poz.
Circ 17 bbls to pit



PUMP UNIT

None

PROD TBG DETAIL:

KB CORR

TBG Hanger

45 JTS 2 3/8 TBG

2 3/8 STD SN

Total EOT

1400' +/-

Proposed Frac: 85,000# 16/30 sand, 35,000# 16/30
PolarProp, 70Q N2 foam frac

Proposed San Jose Perfs: 1227-1229, 1233-1236,
1445-1448'.

San Jose perfs: 12-30-08; 1262-1268', 1278-1280',
1288-1292', 1297-1301', 1313-1317', 1359-1363',
1384-1386', 1420-1428', 1461-1464'. BD HCl.

PBTD = 1676'

TD = 1715'

Jicarilla 29-02-09 #24**Current Wellbore Diagram**

API #30-039-30077

SE NE Sec 9, T29N, R02W Rio Arriba, NM

11/4/2009

Elev. GL= 7460'

Elev. KB= 7465 '

SURF CSG

7" 23# J-55 @ 271'
cmt 250 sx. TOC at
surface

PUMP UNIT

None

PROD TBG DETAIL:

KB CORR	5.00
TBG Hanger	0.57
45 JTS 2 3/8 TBG	1405.53
2 3/8 STD SN	1.1
Total EOT	1412'

PROD CSG

4 1/2" 11.6# J55
@1715' KB; cmt with
125 sx 65/35 poz +
75 sx 50/50/ poz.
Circ 17 bbls to pit

San Jose perfs: 12-30-08; 1262-1268', 1278-1280',
1288-1292', 1297-1301', 1313-1317', 1359-1363',
1384-1386', 1420-1428', 1461-1464'. BD HCI.

PBTD = 1676'
TD = 1715'



COMPACT TRIPLE COMBO QUICKLOOK LOG

COMPANY **BLACK HILLS GAS RESOURCES**
WELL **JICARILLA 29-02-09 #24**
FIELD **LA JARA CANYON TERTIARY**
PROVINCE/COUNTY **RIO ARriba**
COUNTRY/STATE **U.S.A./NEW MEXICO**
LOCATION **2105' FNL & 660' FEL**

SEC 9 TWP 29N RGE 2W Other Services

API Number 30-039-30077
Permit Number

Permanent Datum G.L., Elevation 7460 feet
Log Measured From G.L. above Permanent Datum
Drilling Measured From G.L.

Elevations: feet
KB 7465.00
DF 7464.00
GL 7460.00

Date	10-DEC-2008
Run Number	ONE
Depth Driller	1715.00 feet
Depth Logger	1710.00 feet
First Reading	1707.00 feet
Last Reading	50.00 feet
Casing Driller	271.00 feet
Casing Logger	269.00 feet
Bit Size	6.25 inches
Hole Fluid Type	GEL CHEM
Density / Viscosity	8.70 lb/USg 45.00 CP
PH / Fluid Loss	10.00 11.00 ml/30Min
Sample Source	FLOWLINE
Rm @ Measured Temp	3.78 @ 37.0 ohm-m
Rmf @ Measured Temp	3.02 @ 37.0 ohm-m
Rmc @ Measured Temp	4.54 @ 37.0 ohm-m
Source Rmf / Rmc	CALC CALC
Rm @ BHT	1.84 @ 78.0 ohm-m
Time Since Circulation	6 HOURS
Max Recorded Temp	78.00 deg F
Equipment Name	COMPACT
Equipment / Base	13087 FARM
Recorded By	A. BEHRENS
Witnessed By	G. DAVIS
Last Title	Last Line Last Line

5 INCH MAIN LOG

Depth Based Data - Maximum Sampling Increment 10.0cm

Filename: C:\DOCUMENT~1\davis\LOCALS~1\Temp\Weatherford Pre...Uicarilla-29-02-15 #24_002.dta

System Versions: Logged with 8.04.0166 Plotted with 8.01.0201

Plotted on 11-DEC-2008 00:46

Recorded on 10-DEC-2008 12:17

