Form 3160- 5 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB No. 1004- 0137

Expires: March 31, 2007
5. Lease Serial No.
Contract 457
6. If Indian, Allottee, or Tribe Name
Jicarilla Apache
7. If Unit or CA. Agreement Name and/or No.

	BUREAU OF LAND MAN	VAGEMENT			Expires: March 31, 2007			
CI DI		ODEO ON W.	T T C		5. Lease Serial No.			
	DRY NOTICES AND REPO			Contract 4				
Do not abando	t use this form for proposals to ned well. Use Form 3160-3 (AP	D) for such pro	ner an Dosals III		llottee, or Tribe Name			
	PLICATE - Other Instructions				A. Agreement Name and/or No.			
1. Type of Well	LIGATE - Other manactions		71					
Oil Well Gas Well	Other	NOV 1	3 2007	8. Well Name	and No.			
2. Name of Operator				Jicarilla 45	57-04 #44			
Black Hills Gas Resources		Bureau of Land Farmington		nent				
3a. Address	3b	Phone No. (include		30-039-30	100			
3200 N 1st Street PO Box 24	9 Bloomfield, NM 87413 5	05-634-1111 ex	xt 27		Pool, or Exploratory Area			
4. Location of Well (Footage, Sec., T., I				E. Blanco/.	Pictured Cliffs			
Surface: 775' FSL 545' FEL S	SE/SE Unit P Sec 04 T30N R	3W		11. County or	Parish, State			
Bottom Hole: ±1800' FSL ±50	0' FWL NW/SW Unit L Sec	04 T30N R3W		Rio Arriba	, New Mexico			
CHECK APPROPE	RIATE BOX(S) TO INDICATE	NATURE OF N	OTICE, RE	PORT, OR OTH	ER DATA			
TYPE OF SUBMISSION		TYP	E OF ACTION	ON				
			[]					
√ Notice of Intent	AcidizeDe	eepen	Producti	ion (Start/Resume)	Water Shut-off			
	Altering Casing Fra	acture Treat	Reclama	ation	Well Integrity			
Subsequent Report	Casing Repair Ne	ew Construction	Recomp	lete	Other Changing			
					Bottom Hole			
	Change PlansPh	ug and abandon	Tempora	arily Abandon	Bottom Hole			
Final Abandonment Notice	Convert to Injection Plu	ug back	Water D	isposal	···			
following completion of the involved testing has been completed. Final Abadetermined that the site is ready for fit Black Hills Gas Resource change the well's bottom formations are favorable needed. The surface location of NW/SW Unit L	k will performed or provide the Bond No. operations. If the operation results in a mu andonment Notice shall be filed only after nal inspection.) Ces is submitting an update in hole. Black Hills Gas Rese that we will also complete the well remains the same. I not change from the initial	altiple completion or r all requirements, included drilling plar esources also these formates but the new b	ecompletion in uding reclaman and a rerequest the tions and coottom ho	a new interval, a Form tion, have been completed wised NM States that if tests of the submit coming the will be ±180 arrace Use Plant	a 3160-4 shall be filed once sted, and the operator has see Form C-102, to the tertiary and PC gle applications if so' FSL ±50' FWL RCVD NDV 27'07 DIL CONS. DIV. In will not be updated or DIST. 3			
			Adhere	OITIONS OF to previously is:	F APPROVAL sued stipulations.			
14. I hereby certify that the foregoing is tr Name (Printed/ Typed)	ue and correct.	1						
• • •		Title		Damilatory S	manialist			
Lynn H. Benally		,		Regulatory S	pecialist			
Signature (Aluka)				2007				
	THIS SPACE FOR FED	DERAL OR STA	ATE OFFIC	CE USE				
	ICS		oleum	Eng.	Date 1112112007			
Conditions of approval, if any are attache certify that the applicant holds legal or eq	quitable title to those rights in the subjec	t lease Office	.	٧				
which would entitle the application 18 U.S.C. Section 1001 AND Title				willfully to make an	y 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)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this

form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions

Item 13 - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or

present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well and date well site conditioned for final inspection looking to approval of the abandonment.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as requited by 43 CFR 3162.4-1(c); and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to

appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3 - 2, 3162.3 - 3, 3162.3 - 4.

The Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.) requires us to inform you that:

This information is being collected to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

BLM would like you to know that you do not have to respond to this or any other Federal agency sponsored information collection unless it displays a currently valid OMB control number:

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Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau information Collection Clearance Officer, (WO-630), Mail Stop 401 LS, 1849 C St., N.W., Washington D.C. 20240

F00.611.6111

Petalom Eng.

Troy L Solyes

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DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II 1301 W. Grand Ave., Artesia, N.M. 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

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

☐ AMENDED REPORT

Fee Lease - 3 Copies

1220 South St. Francis Dr., Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT 1 AP) Number ² Pool Code 30-039-30100 72400 East Blanco Pictured Cliffs ⁴ Property Code ⁵Property Name Well Number JICARILLA 457-04 44 25327 7 OGRID No. ⁶Operator Name ^e Elevation BLACK HILLS GAS RESOURCES 013925 7122

¹⁰ Surface Location UL or lot no. Section Township Range Feet from the North/South line Lot Idn Feet from the East/West line County 3-W RIO ARRIBA Р 4 30-N 775 SOUTH 545 **EAST**

¹¹Bottom Hole Location If Different From Surface UL or lot no. Section Township Lot Idn Feet from the North/South line East/West line Range Feet from the County 30-N 3-W 1800 SOUTH WEST RIO ARRIBA 50 12 Dedicated Acres ¹⁸ Joint or Infill 14 Consolidation Code ¹⁵Order No. 320.00

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

LOT 4	LOT 3	LOT 2	CALC'D. CORNE BY SINGLE PRO LOT 1	I I OPERATOR CERTIFICATION
		AT. 36°50'10.6" N (1 IG. 107°08'54.8" W (1	NAD 83)	Signature Office Signature O
	. CORNER 2 1/2" BC. 7 G.L.O. QTR. CORNER FD. 2 1/2" B.C.		545'	Date of Survey Signature and Seal of Professional Surveyor:



Black Hills Gas Resources (BHGR) Jicarilla 457-04 #44

Surface Location: 775' FSL 545' FEL Unit P (SE/SE)
Bottom Hole Location: ±1,800' FSL ±50' FWL Unit L (NW/SW)
Sec.04 T30N R3W

Rio Arriba County, New Mexico Contract 457

DRILLING PROGRAM (Per Rule 320)

This Application for Permit to Drill (APD) was initiated under the NOS process as stated in Onshore Order No. 1 and supporting Bureau of Land Management (BLM) documents. This APD process includes an onsite meeting which was held on February 15, 2006 as determined by Bureau of Land Management (BLM), Bureau of Indian Affairs (BIA) and Jicarilla Oil & Gas Administration (JOGA), and at which time the specific concerns of Black Hills Gas Resources (BHGR) were discussed.

This well was sundry from a vertical well to a horizontal well. This new drilling plan addresses changing the undrilled well bottom hole.

SURFACE FORMATION – San Jose

GROUND ELEVATION - 7,122' 7,112'

ESTIMATED FORMATION TOPS - (mineral-bearing formations)

San Jose	Surface	Sandstone, shales & siltstones
Nacimiento	1990'	Sandstone, shales & siltstones
Ojo Alamo	3110'	Sandstone, shales & siltstones
Kirtland	3375'	Sandstone, shales & siltstones
Fruitland	3700'	Sandstone, shales & siltstones
Pictured Cliffs	4180'	Sandstone, shales & siltstones

TOTAL DEPTH 8024'

Estimated depths of anticipated fresh water, oil, or gas:

Tertiary		
San Jose	surface	Gas
Nacimiento	1990'	Gas
Ojo Alamo	3110'	Gas
Kirtland	3375'	Gas
Fruitland	3700'	Gas
Pictured Cliffs	4180'	Gas

HORIZONTAL DRILLING PROGRAM

Kick Off Point is estimated to be \pm 2835' TVD

CASING PROGRAM

Depth	Hole Diameter	Casing Diameter	Casing Weight and Grade	Cement
0' to 250'	12 1/4"	9 5/8"	J-55 36# ST&C	To surface (±175 sxs classB)
0' to 4249'	8 3/4"	7"	J-55 23# ST & C	TD to surface (±630 sxs lite or 65:35 poz and ±270 sxs 50:50 poz)*
4249' to 7911'	6 1/4 "	Open hole***	none	none

- * Actual cement volume to be determined by caliper log.
- ** Cement will be circulated to surface
- *** If hole instability is encountered, a 4 ½", 10.5#, J-55 uncemented liner may be run in the 6 1/4" open hole section

Yields:

Surface:

Standard cement yield = $1.2 \text{ ft}^3/\text{sx}$ (mixed at 15.6 lb/gal)

Production: Lite Standard Cement yield: = 1.59 ft³/sx (mixed at 13.4 lb/gal)

 $50:50 \text{ poz yield} = 1.27 \text{ ft}^3/\text{sx} \text{ (mixed at 14.15 lb/gal)}$

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and protected.

PRESSURE CONTROL

BOPs and choke manifold will be installed and pressure tested before drilling out under surface casing (subsequent pressure test will be performed whenever pressure seals are broken), and then will be checked daily as to mechanical operating conditions. BOP's will be pressure tested at least once every 30 days. Ram type preventors and related pressure control equipment will be pressure tested to 1,000 psi. Annular type preventor will be pressure tested to 50% of the rated working pressure, not to exceed 1,000 psi. All casing strings will be pressure tested to 0.22 psi/ft. or 1,000 psi, whichever is greater, not to exceed 70% of internal yield.

BOP to be either double gate rams or an annular preventor as per Onshore Order No. 2.

Statement on Accumulator System and Location of Hydraulic Controls

The drilling rig has not yet been selected for this well. Selection will take place after approval of this application. Manual and/or hydraulic controls will be in compliance with Onshore Order No. 2 for 2M systems.

A remote accumulator will be used. Pressures, capacities, location of remote hydraulic and manual controls will be identified at the time of the BLM supervised BOP test.

MUD PROGRAM

0' - 250' Fresh water – M.W. 8.5 ppg, Vis 30-33 250' - TD' Clean Faze - Low solids non-dispersed

> M.W. 8.5 - 9.2 ppg Vis -28 - 50 sec W.L. 15cc or less

Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kick" will be available at well site.

AUXILIARY EQUIPMENT

- A) A Kelly cock will be kept in the drill string at all times
- B) Inside BOP or stab-in valve (available on rig floor)
- C) Mud monitoring will be visually observed

LOGGING, CORING, TESTING PROGRAM

A) Logging: DIL-CNL-FDC-GR - TD - BSC (GR to surface)

Sonic (BSC to TD)

B) Coring: None

C) Testing: Possible DST – None anticipated. Drill stem tests may be run on shows of interest

ABNORMAL CONDITIONS

A) Pressures: No abnormal conditions are anticipated

Bottom hole pressure gradient – 0.31 psi/ft

B) Temperatures: No abnormal conditions are anticipated

C) H_2S : See attached H_2S plan in event H_2S is encountered.

D) Estimated bottomhole pressure: 1,147 psi

ANTICIPATED START DATE

November 19, 2007

COMPLETION

The location pad will be of sufficient size to accommodate all completion activities and equipment. A string of 2-3/8" J-55 4.7#/ft tubing will be run for a flowing string. A Sundry Notice will be submitted with a revised completion program if warranted.



1724-B Townhurst Dr, Houston, Tx 77043 (713) 827-8302 www.nevisenergy.com Job Number: 71xxx

Company: Black Hills Gas Resources

Lease/Well: Jicarilla 457-04 #144 Location: Rio Arriba Co., NM

Rig Name: Patterson 744

RKB: 13'

G.L. or M.S.L.: 7112'

State/Country: NM/USA

Declination:

Grld: □

File name: Z:\BLACKH~1\NEWWEL~1\457-04~1\45704#44.SVY

Date/Time: 08-Nov-07 / 13:58

Curve Name: Jic 457-04 #144 plan 11-08-07

Jic 457-04 #144 plan 11-08-07

WINSERVE PROPOSAL REPORT Minimum Curvature Method Vertical Section Plane 282.54

Vertical Section Plane 282.34

Vertical Section Referenced to Wellhead

Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	C L O Distance FT	S U R E Direction Deg	Dogleg Severity Deg/100
KOP-> 283	35 TVD Be	gin Build @ 7	'.00 % 100', 28	32.54° Azi					
2835.00	.00	282.54	2835.00	.00	.00	.00	.00	.00	.00
2865.00	2.10	282.54	2864.99	.55	.12	54	.55	282.54	7.00
2895.00	4.20	282.54	2894.95	2.20	.48	-2.15	2.20	282.54	7.00
2925.00	6.30	282.54	2924.82	4.95	1.07	-4.83	4.95	282.54	7.00
2955.00	8.40	282.54	2954.57	8.78	1.91	-8.58	8.78	282.54	7.00
2985.00	10.51	282.54	2984.16	13.71	2.98	-13.39	13.71	282.54	7.00
3015.00	12.61	282.54	3013.55	19.72	4.28	-19.25	19.72	282.54	7.00
3045.00	14.71	282.54	3042.70	26.80	5.82	-26.16	26.80	282.54	7.00
3075.00	16.81	282.54	3071.57	34.95	7.59	-34.12	34.95	282.54	7.00
3105.00	18.91	282.54	3100.13	44.15	9.59	-43.10	44.15	282.54	7.00
3135.00	21.01	282.54	3128.32	54.39	11.81	-53.09	54.39	282.54	7.00
3165.00	23.11	282.54	3156.12	65.66	14.26	-64.09	65.66	282.54	7.00
3195.00	25.21	282.54	3183.49	77.94	16.92	-76.08	77.94	282.54	7.00
3225.00	27.31	282.54	3210.40	91.21	19.81	-89.03	91.21	282.54	7.00
3255.00	29.41	282.54	3236.79	105.46	22.90	-102.95	105.46	282.54	7.00
3285.00	31.52	282.54	3262.65	120.67	26.20	-117.79	120.67	282.54	7.00
3315.00	33.62	282.54	3287.93	136.82	29.71	-133.55	136.82	282.54	7.00
3345.00	35.72	282.54	3312.60	153.88	33.42	-150.21	153.88	282.54	7.00
3375.00	37.82	282.54	3336.63	171.84	37.32	-167.74	171.84	282.54	7.00
3405.00	39.92	282.54	3359.99	190.66	41.40	-186.11	190.66	282.54	7.00
3435.00	42.02	282.54	3382.64	210.33	45.67	-205.31	210.33	282.54	7.00
3465.00	44.12	282.54	3404.56	230.82	50.12	-225.31	230.82	282.54	7.00
3495.00	46.22	282.54	3425.70	252.09	54.74	-246.08	252.09	282.54	7.00

Measured	Incl	Drift	True	Vertical			CLO	SURE	Dogleg
Depth	Angle	Direction	Vertical	Section	N-S	E-W	Distance	Direction	Severity
<u> </u>	Deg	Deg	Depth	FT	FT	FT	FT	Deg	Deg/100
3525.00	48.32	282.54	3446.06	274.13	59.53	-267.59	274.13	282.54	7.00
3555.00	50.42	282.54	3465.59	296.90	64.47	-289.81	296.90	282.54	7.00
3585.00	52.53	282.54	3484.27	320.37	69.57	-312.72	320.37	282.54	7.00
3615.00	54.63	282.54	3502.09	344.50	74.81	-336.28	344.50	282.54	7.00
3645.00	56.73	282.54	3519.00	369.28	80.19	-360.47	369.28	282.54	7.00
00.0.00	••••		00.0.00	000.20	00.10	000.11	000.20		
3675.00	58.83	282.54	3535.00	394.66	85.70	-385.24	394.66	282.54	7.00
3705.00	60.93	282.54	3550.05	420.61	91.34	-410.57	420.61	282.54	7.00
3735.00	63.03	282.54	3564.14	447.09	97.09	-436.42	447.09	282.54	7.00
3765.00	65.13	282.54	3577.26	474.07	102.95	-462.76	474.07	282.54	7.00
3795.00	67.23	282.54	3589.37	501.51	108.91	-489.54	501.51	282.54	7.00
3825.00	69.33	282.54	3600.47	529.38	114.96	-516.75	529.38	282.54	7.00
3855.00	71.43	282.54	3610.54	557.64	121.09	-544.33	557.64	282.54	7.00
3885.00	73.54	282.54	3619.57	586.25	127.31	-572.26	586.25	282.54	7.00
3915.00	75.64	282.54	3627.54	615.17	133.59	-600.49	615.17	282.54	7.00
3945.00	77.74	282.54	3634.45	644.36	139.93	-628.98	644.36	282.54	7.00
3975.00	79.84	282.54	3640.28	673.78	146.32	-657.70	673.78	282.54	7.00
4005.00	81.94	282.54	3645.03	703.40	152.75	-686.62	703.40	282.54	7.00
4035.00	84.04	282.54	3648.69	733.18	159.21	-715.68	733.18	282.54	7.00
Hold @ 85				700.10	100.21	7 10.00	7 00.10	<u> </u>	
4048.70	85.00	282.54	3650.00	746.81	162.17	-728.99	746.81	282.54	7.00
4148.70	85.00	282.54	3658.72	846.43	183.81	-826.23	846.43	282.54	.00
5' into PC		202.54	3036.72	040.43	100.01	-020.23	040.43	202.54	.00
		000 54	2007.40	0.40.05	005.44	222.4	0.40.05	222 5 4	
4248.70	85.00	282.54	3667.43	946.05	205.44	-923.47	946.05	282.54	.00
4348.70	85.00	282.54	3676.15	1045.67	227.07	-1020.72	1045.67	282.54	.00
Begin Buil	d @ 2.97%	100 Ft							
4448.70	85.00	282.54	3684.86	1145.29	248.71	-1117.96	1145.29	282.54	.00
4478.70	85.89	282.54	3687.25	1175.19	255.20	-1147.15	1175.19	282.54	2.97
4508.70	86.78	282.54	3689.16	1205.13	261.70	-1176.37	1205.13	282.54	2.97
4538.70	87.67	282.54	3690.62	1235.10	268.21	-1205.62	1235.10	282.54	2.97
4568.70	88.56	282.54	3691.60	1265.08	274.72	-1234.89	1265.08	282.54	2.97
4598.70	89.45	282.54	3692.12	1295.07	281.23	-1264.17	1295.07	282.54	2.97
target / Ho	ld @ 90.12	°, 282.54° A	zm						
4621.30	90.12	282.54	3692.21	1317.68	286.14	-1286.24	1317.68	282.54	2.97
4621.33	90.12	282.54	3692.21	1317.71	286.15	-1286.26	1317.71	282.54	.93
4721.33	90.12	282.54	3692.00	1417.71	307.86	-1383.88	1417.71	282.54	.00
4821.33	90.12	282.54	3691.79	1517.71	329.58	-1481.49	1517.71	282.54	.00
4921.33	90.12	282.54	3691.58	1617.71	351.29	-1579.10	1617.71	282.54	.00
E004 00	00.40	000 54	0004.07	4947.74	070.04	4070 70	4745	000 7 4	•
5021.33	90.12	282.54	3691.37	1717.71	373.01	-1676.72	1717.71	282.54	.00
5121.33	90.12	282.54	3691.16	1817.71	394.72	-1774.33	1817.71	282.54	.00
5221.33	90.12	282.54	3690.95	1917.71	416.44	-1871.94	1917.71	282.54	.00
5321.33	90.12	282.54	3690.73	2017.70	438.15	-1969.56	2017.70	282.54	.00
5421.33	90.12	282.54	3690.52	2117.70	459.87	-2067.17	2117.70	282.54	.00
5521.33	90.12	282.54	3690.31	2217.70	481.59	-2164.78	2217.70	282.54	.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	CLO Distance FT	S U R E Direction Deg	Dogleg Severity Deg/100
5621.33	90.12	282.54	3690.10	2317.70	503.30	-2262.40	2317.70	282.54	.00
5721.33	90.12	282.54	3689.89	2417.70	525.02	-2360.01	2417.70	282.54	.00
5821.33	90.12	282.54	3689.68	2517.70	546.73	-2457.62	2517.70	282.54	.00
5921.33	90.12	282.54	3689.47	2617.70	568.45	-2555.24	2617.70	282.54	.00
6021.33	90.12	282.54	3689.26	2717.70	590.16	-2652.85	2717.70	282.54	.00
0000			0000.20						
6121.33	90.12	282.54	3689.05	2817.70	611.88	-2750.46	2817.70	282.54	.00
6221.33	90.12	282.54	3688.84	2917.70	633.59	-2848.08	2917.70	282.54	.00
6321.33	90.12	282.54	3688.63	3017.70	655.31	-2945.69	3017.70	282.54	.00
6421.33	90.12	282.54	3688.42	3117.70	677.03	-3043.31	3117.70	282.54	.00
6521.33	90.12	282.54	3688.21	3217.70	698.74	-3140.92	3217.70	282.54	.00
6621.33	90.12	282.54	3688.00	3317.70	720.46	-3238.53	3317.70	282.54	.00
6721.33	90.12	282.54	3687.79	3417.70	742.17	-3336.15	3417.70	282.54	.00
6821.33	90.12	282.54	3687.58	3517.70	763.89	-3433.76	3517.70	282.54	.00
6921.33	90.12	282.54	3687.37	3617.70	785.60	-3531.37	3617.70	282.54	.00
7021.33	90.12	282.54	3687.16	3717.70	807.32	-3628.99	3717.70	282.54	.00
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7121.33	90.12	282.54	3686.95	3817.70	829.03	-3726.60	3817.70	282.54	.00
7221.33	90.12	282.54	3686.74	3917.70	850.75	-3824.21	3917.70	282.54	.00
7321.33	90.12	282.54	3686.53	4017.70	872.46	-3921.83	4017.70	282.54	.00
7421.33	90.12	282.54	3686.31	4117.70	894.18	-4019.44	4117.70	282.54	.00
7521.33	90.12	282.54	3686.10	4217.70	915.90	-4117.05	4217.70	282.54	.00
7621.33	90.12	282.54	3685.89	4317.70	937.61	-4214.67	4317.70	282.54	.00
7721.33	90.12	282.54	3685.68	4417.70	959.33	-4312.28	4417.70	282.54	.00
7821.33	90.12	282.54	3685.47	4517.70	981.04	-4409.89	4517.70	282.54	.00
7921.33	90.12	282.54	3685.26	4617.70	1002.76	-4507.51	4617.70	282.54	.00
8021.33	90.12	282.54	3685.05	4717.70	1024.47	-4605.12	4717.70	282.54	.00
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Proposed	End of Lat	eral	<u> </u>						
8023.76	90.12	282.54	3685.05	4720.13	1025.00	-4607.49	4720.13	282.54	.01

Job Number: 71xxx Company: Black Hills Gas Resources Lease/Well: Jicarilla 457-04 #144



