Form 3160-4 (September 2001)

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	ETION REPORT AND LOG

FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2004 5. Lease Serial No.

									2025	<del></del>		Jica	rilla Contra	ct 451	
la. Type o	f Well	0	il Well	$\square$	as Well	Dry O	ther		(000)	JUN 23	111	114 9	. If Indian,	Allotte	or Tribe Name
b. Type of Completion: New Well Work Over Deepen Plug Back Diff Resvr.								Jica	Jicarilla Apache Tribe						
0.1									,	7. Unit or CA Agreement Name and No.					
2. Name of Operator										. ~ . ,	1 4 4 1 1				
Black Hills Gas Resources, Inc											. Lease Na		Well No.		
3. Addre								3a. Phone	No. (in	clude area	code)		rilla 451-03		
3200 N. 1s	t PO Box 2	249 Blo	omfiel	d, NM 8	37413			505-634-1	111	2371300	•_		9. API Well No.		
4. Locatio	n of Well (	Report	locatio	on clear	ly and in a	cordance with	r Federal	requirement	s)* `	المراجعة المراجعة		L	39-29267 Field and	Pool. o	r Exploratory
At sur	face 1800	וי דאו	& 745'	FWI (	SWNW) Ui	nit F		- 1°5°	J	// <sup>34</sup>			resto Canyo		• •
	1000	TILL	<b>a</b> 143	1 112 (	3 11 11 11 7 01	iii L		300c					11. Sec., T., R., M., on Block and Survey		
At top prod. interval reported below 1800' FNL & 745' FWL (SWNW) Unit E										or Area Sec. 3, T29N, R03W					
***	- I - I - I - I - I - I - I - I - I - I	OOU EN	II 0. 7.	151 EWI	(CU/NIU/)	Limit E		100			مرابع آماری	12	. County or	Parish	13. State
		500 FN	NL & /4		. (SWNW)			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		<i>\$</i> 14	ود∆		Arriba		NM
14. Date	Spudded			15. Dat	e T.D. Rea	ched		16. Date C		d ☑ Ready t	o Drod	17	. Elevation	s (DF, I	RKB, RT, GL)*
10/23/04				10/26/04	4				<b>વ્ય</b> ે (	1 7 7	2-05	- GL	7145, KB71	158	
	Depth: M	ID			10	Plug Back T.	D.: MD	20		T		e Plug Set			
		VD		<u>88 0</u>	<u>2                                      </u>		TVD	381					TVD		
21. Type E	Electric & C	Other M	<b>fechani</b>	cal Log	s Run (Sub	nit copy of eac	ch)				well c	_			(Submit analysis)
Wah Daga	l Turdination	C	⊷1 Da	na Dual	Space Nue	. 10.00				ł	DST ru		Δ] N° [ Δ] N° [		(Submit report) (Submit copy)
					trings set in				,	Dire	CHOHAI	Survey?	VI NO L	1 1 65	(Заотт сору)
							Sta	ge Cementer	No.	of Sks. &	Slur	ry Vol.	Cement 7	Con*	Amount Pulled
Hole Size	Size/Gr	ade	Wt. (#/	It.)	Top (MD)	Bottom (M	ш)	Depth	Туре	of Cement		BBL)	Coment	ГОР	Amount ranca
12-1/4"	8-5/8	19	24 L	b	0'	0' 267'							surface		
													circ 37	bb	
	ļ					_						to surface			
7-7/8"	5-1/2	<u>" + </u>	15.5 I	.b 0'		3834'			650 sx				surfac		
	+	-+		-									circ 3 bbl		
24. Tubing	Record										l		to surfa	ice	
Size		Set (N	(D) F	acker Depth (MD)		Size	Der	Depth Set (MD) Pack		Depth (MD	<u> </u>	Size Dept		th Set (MD) Packer Depth (MD)	
2-3/8"		3678'	-	uvilor 2	opin (mz)	. 0.20	150	our out (MB)	Tucker	Dopul (MD)	<u>'</u>	Size	Depth 30	i (MD)	Tacker Deptir (IVID)
	ing Interva		-			<u> </u>	26	. Perforation	Record		1	<del></del>	<u> </u>		
	Formatio	n			TOP	Bottom		Perforated	Interval		Size	No. H	loles		Perf. Status
A) Nacimie				3118'		3128'		3118-3128			4		)		Closed
B) Nacimie	nto				2782'	2918'	278	2782-2784, 2788-2790, 2856-28			358, 4		)		Closed
C)				<del> </del>			2866-2868, 291								
D) Nacimie	ento Fracture, Tr		-t C		2688'	2732'		2728-2732, 2	688-2690		4	24	1		Open
	Depth Inter		ni, Cen	Tent Squ	eeze, Etc.	<u>.</u>		Δ	mount a	nd Type of I	Material	<del> </del>			
3118'-3128'				500 gal	HCI.			•	anount a	ild Type of A	VICTOR 100				
2782'-2918'				<del>-</del>		240 LBM Propar	nt			***					
2688'-2732' 4,000 MSCF N2															
1420'-1424/'				160 MS	CF 3										
	ction - Inte		,												
Date First Produced	Test Date	Hours Tested		st oduction	Oil BBL	Gas MCF	Water BBL	Oil Gra Corr. A		Gas Gravity	P	roduction N	lethod ACCE	TENE	FOR RECORD
3/9/05				П		0							o general post		ON HECORD
Choke Size	Tbg. Press.	Csg. Press	24 Ra	Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio		Well State	ıs			11 27	2005
3126	Flgw. SI	FIGSS	"	<u> </u>	BDL	0	DDL	Katio		Zone sou	.comed				
28a. Produ	ction - Inte	rval B			_l	ι υ	L	<u> </u>		Zone squ	ICCZEU	-	PAHWING DV	TONE	OFFICE -
Date First	Test	Hours		st	Oil	Gas	Water	Oil Gra		Gas	P	roduction M	ethod .	_/4	
Produced	Date	Tested	1	oduction	BBL	MCF	BBL	Corr. Al	1	Gravity					
3/9/05 Choke	Tbg. Press.	Çall	24	Hr.	Oil	Gas	Water	Gas: Oil		Well Stat	us				
Size	Flwg. Sl	Press		ate	BBL	MCF	BBL	Ratio				M	WOCD		
		L		Ш_	1					Zone sq	ueezed	808			

Date Front   Set   Flower   Trees	28b. Produc	ction - Inter	val C										
Solution   Proving   Pro					Oil				Gas	Production Method			
Size   The Part   Content   Production   P			į	Production	Į.		BBL	Corr. API	Gravity	L.			
Size   Size   Prior   Size   BBL   MCF   BBL   Rate   Production   Production   Production   Production   Date				24 Hr.			Water	Gas: Oil					
28c. Production   Test   Tes		Flwg.							wen status				
Due First   Test   Hour   Test   Te		<u> </u> "			<u> </u>				Producing				
Produced   Date   Tends   Production   BBL   MCF   BBL   Corr. API   Gravity			,	Treet	Lou	10	I Water	Tono :	7.	In the Mark			
Size   Fing   Final				Production	BBL					Production Method			
Size   Fing   Final													
29. Disposition of Gas (Sold used for Tuel, vented, etc.)  30. Summary of Porous Zones (Include Aquifers):  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.  Formation Top Bottom Descriptions, Contents, etc. Name Top Meas. Depth Name (National Tennarks)  San Jose Surface Nacimiento 2145  OJO ALAMO 3218  KIRILAND 3436  FRUITLAND COAL 3580  PICTURED CLIFFS 3681'  3681'  32. Additional remarks (include plugging procedure):  Perforation Record Continued  Oo Alamo Top 12227 Bott 1424 Perf Intervalis: 3220'-328', 60-62 Size: 4 No. Holes: 40 Perf Status: Open San Jose Top: 1427 Bott 1424 Perf Intervalis: 1420'-1424 Size: 4 No. Holes: 16 Perf Status: Open And, Fracture Treatment, Cement Squeeze, Etc.  160 MSCF N2  30. Circle enclosed attachments:  1 Electrical/Mechanical Logs (I full set rec(d.) 2 Geologic Report 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) Agaths Shell  Title Administrative Technician						Gas MCF			Well Status				
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 shul-in pressures and recoveries.  Formation  Top  Bottom  Descriptions, Contents, etc.  Name  Top  Meas. Depth  SAN JOSE  NACIMIENTO  2145'  QIO ALAMO  3218'  KIRTLAND  3436'  FRUITLAND COAL  3580'  PICTURED CLIFFS  3681'  3681'  32. Additional remarks (include plugging procedure)  Perforation Record Continued  QIO Alamo Top: 3220' Botti 3262' Perf Intervals: 1420'-1424' Size: 4 No. Holes: 40 Perf Status: Open  San Jose Top: 1420' Botti 1424' Perf Intervals: 1420'-1424' Size: 4 No. Holes: 16 Perf Status: Open  Acid, Fracture Treatment, Cement Squeeze, Etc.  120'-1424' 160 MSCF N2  33. Circle enclosed attachments:  1 Electrical/Mechanical Logs (I fall set req'd.)  5 Sundry Notice for plugging and cement verification  6 Core Analysis  7 Other:  Title Administrative Technician  Title Administrative Technician													
Show all important zones of pocosity 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.  Formation Top Bottom Descriptions, Contents, etc. Name Top Meas. Depth SAN JOSE Nurface NACIMIENTO 2145 OJO ALAMO 3218' (SIRTLAND 3436' FRUITLAND 3436' FRUITLAND 3436' FRUITLAND 3436' FRUITLAND 3436' FRUITLAND COAL 3580' PICTURED CLIFFS 3681'  32. Additional remarks (include plugging procedure):  Perforation Record Continued OJO Alamo Top 3220' Bott: 3262' Perf Intervals: 3220'-328', 60-62 Size: 4 No. Holes: 40 Perf Status: Open San Jose Top: 1420' Bott: 1424' Perf Intervals: 1420'-1424' Size: 4 No. Holes: 16 Perf Status: Open Acid, Fracture Treatment, Cement Squeeze, Etc. 1420'-1424' Size: 14 No. Holes: 16 Perf Status: Open San Jose Top: 1420' Bott: 1424' Perf Intervals: 1 Electrical/Mechanical Logs (1 full set reg/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) Agatha Snell Title Administrative Technician	29. Disposi	tion of Gas	(Sold use	d for fuel,	rented, etc.	)		<u> </u>	<u></u>				
Show all important zones of pocosity 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.  Formation Top Bottom Descriptions, Contents, etc. Name Top Meas. Depth SAN JOSE Nurface NACIMIENTO 2145 OJO ALAMO 3218' (SIRTLAND 3436' FRUITLAND 3436' FRUITLAND 3436' FRUITLAND 3436' FRUITLAND 3436' FRUITLAND COAL 3580' PICTURED CLIFFS 3681'  32. Additional remarks (include plugging procedure):  Perforation Record Continued OJO Alamo Top 3220' Bott: 3262' Perf Intervals: 3220'-328', 60-62 Size: 4 No. Holes: 40 Perf Status: Open San Jose Top: 1420' Bott: 1424' Perf Intervals: 1420'-1424' Size: 4 No. Holes: 16 Perf Status: Open Acid, Fracture Treatment, Cement Squeeze, Etc. 1420'-1424' Size: 14 No. Holes: 16 Perf Status: Open San Jose Top: 1420' Bott: 1424' Perf Intervals: 1 Electrical/Mechanical Logs (1 full set reg/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) Agatha Snell Title Administrative Technician													
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Formation Top Bottom Descriptions, Contents, etc. Name Top  Meas. Depth  SAN JOSE Surface NACIMIENTO 2145 OJO ALAMO 3218 KIRTLAND 3436 FRUITLAND COAL 3580 FRUITLAND COAL 3580 FRUITLAND COAL 3580 PICTURED CLIFFS 3681  32. Additional remarks (include plugging procedure): Perforation Record Continued OJO Alam Top 2320 Bott 3262 Perf Intervals: 3220-328, 60-62 Size: 4 No. Holes: 40 Perf Status: Open San Jose Top: 1420 Bott: 1424 Perf Intervals: 1420-1424 Size: 4 No. Holes: 16 Perf Status: Open Acid, Fracture Treatment, Cement Squeeze, Etc. 1420-1424 I 60 MSCF N2  33. Circle enclosed attachments: 1 Electrical/Mechanical Logs (1 full set reg'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) Agatha Snet1  Title Administrative Technician	Show	all import	ant zones o	of porosity	and conten	ts thereof: C	ored interva	ils and all drill-stem					
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SAN JOSE NACIMIENTO 2145 OJO ALAMO 3218 KIRTLAND 3436' FRUITLAND COAL 3580' PICTURED CLIFFS 3681'  3681'  3681'  37. Additional remarks (include plugging procedure): Perforation Record Continued OJO Alamo Top: 3220' Bott: 362' Perf Intervals: 3220'-328', 60-62' Size: 4 No. Holes: 40 Perf Status: Open San Jose Top: 1420' Bott: 1242' Perf Intervals: 1420'-1424' Size: 4 No. Holes: 16 Perf Status: Open Acid, Fracture Treatment, Cement Squeeze, Etc.  38. 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) Agada Snell Title Administrative Technician	Forma	ation	Top	Bottom	Descriptions, Contents, etc.					Name			
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	34. I hereb	y certify th	at the fore	going and a	ttached infe	ormation is c	omplete and	correct as determined	l from all avail	able records (see attached instr	ructions)*		
Signature Ugatha Spell Date 6/21/05	Name	(please pri	nt) Agatha	Snell				Title Administr	ative Techniciar	1			
	Signat	ure	Ma.	ma:	<u>Spel</u>	<u>l                                    </u>		Date 6/21/05					

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.