Form 3160-4 (September 2001)

la. Type of Well

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Oil Well Gas Well Dry

FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2004

6. If Indian, Allottee or Tribe Name

5. Lease Serial No. MDA 701-98-0013

of Operator	r	Other														
								n n	^ m 13.7 m	- n		<u> </u>	_			
Black Hills Gas Resources, Inc								RECEIVED				- 1	8. Lease Name and Well No.			
. Address								3a. Phone No. (include area code)					Jicarilla 29-02-31 No. 14			
50 Indiana Street, Suite 400 Golden, CO 80401 720-210-1308																
Location of Well (Report location clearly and in accordance with Federal requirements)*											10. Field and Pool, or Exploratory					
At surface 430' ENL & 990' EEL (NENE) Unit A											· · ·					
1450	TNLO	6 880 FEL	(IADIAL	e) Olik A									Sec.	T., R	, M.,	on Block and Survey
prod. inter	rval rep	orted belo	w 430'	FNL & 8	80' FEL (NEN	IE) Unit A	١.						or A	rea Se	c. 31, T	29N-R02W
At total depth 430' FNL & 880' FEL (NENE) Unit A												1	Coun	ty or P	arish	13. State NM
4. Date Spudded 15. Date T.D. Reached 1								D&A Ready to Prod.				17.	Eleva	ations	(DF, R	KB, RT, GL)*
		2/12	/05						4/20	<u>05</u>	}	7069	GL,	7081' I	ζB	
T	VD 36					TVD	3595'		20. De	oth Br	idge Pl	ug Set:				
Electric & C	Other M	lechanical	Logs R	un (Subm	it copy of eac	h)								=		Submit analysis)
				=					i							Submit report)
									Di	rection	nai Sur	vey?	NO.	<u> </u>	Yes (Submit copy)
														ent To	t Top* Amount Pu	
8 5/8	8 5/8" 24		0'		281'				200 sx		<u></u>		surface;		$\neg \dagger$	
													ci	rc 16bb	i	
													to	surface	,	
5 1/2	:"	15.5	<u> </u>	0'	3611'		···		600 sx				s	urface;		· <u> </u>
			1							4			Ci	rc 40bb	1	
			<u>i </u>		<u></u> _	L							to	surface	<u>. </u>	
	2	- la i					10.00		5 1 0 0	~			_		(1 m)	In 1 D 4 (4D)
	<u> </u>	AD) Pack	er Dep	th (MD)	Size	Dept	h Set (MD)	Packer	Depth (MI	 	Siz	e	Dep	th Set	(MD)	Packer Depth (MD)
						26	Perforation	Record								
			то	P	Bottom	20.				Size	. 1	No. Ho	les			Perf. Status
Ojo Alamo			3280'			3280-32					2 8			Open		
										4	4 8			Closed		
															سر	GC SA
														_/	(15) E	0000
		nt, Cement	Squeez	e, Etc.				·						1	E. P	
Depth Inter	val													<i>®</i> ,		2005
				12bbls of 3	% acid & 48bbl	s foamed 7.	.5% HCl_Acid,	24bbls fo	amed BJ sar	ndstone	e acid 1:	5-LT& 17			oning	hloride high 350 gal
				160 mls 20/	HCl 79/ HCl	naid/ N/2				-l-1	4- 0	C14	- 5		Pi	-01-8 W
	` _	Ac	dize w/2	30 gais 370	nci, /% nci a	acid W/ NZ,	toamed sandsi	one acid,	ammonium	cnion	de. Cmi	Sqz a w/	12 00	18 (0) 14	Ole C	AST A
ction - Inte	rval A				· · · · · · · · · · · · · · · · · · ·									V. A		2
Test	Hours	Test	ion (Oil 191	Gas	Water	Oil Grav	ity	Gas		Produ	uction M	ethod	4	£ 21	1101 6 9
	l	Fiodic	1		1 "1	BBL	Con. AF	1	Gravity		D.,	sin <i>a</i>	*	•	AC.	1 ULO OP
Tbg. Press.	Csg.	24 Hr.	1	Oil	Gas	Water	Gas: Oil		Well Sta	atus	<u> </u> Fulli	nug				
Figw.	Press	Rate		BBL	MCF	BBL	Ratio						-		AFDI	
	1								Produc	ing				AL	UEY!	ED FOR RECOF
		Test	10	Dil	Gas T	Water	Oil Grav	itv	Gas	-	Produ	ction Me	thod	+		
Date	Tested				MCF	BBL			Gravity		1,1000	CHOII IVIE	ou	1	ΑU	G 1 6 2005
The P	Call		$\perp \perp$	<u> </u>	<u> </u>	337.4			<u> </u>					<u> </u>	HMIN	Ų lun rielu offic
Tbg. Press.	Press	24 Hr. Rate		Dil BBL	Gas MCF	Water BBL	Gas: Oil Ratio		Well St	atus	•			B		de
SI			<u> </u>						-							
	p prod. inte tal depth 4 E Spudded Depth: M T Electric & (Lith Densit g and Line e Size/Gi 8 5/8 5 1/2 g Record Depth Cing Interv. Formatic amo Fracture, T Depth Inter Test Depth Inter Test Test Total 4/11/05 Tbg. Press. Fig.w. Si cition - Inte	on of Well (Report reface 430' FNL & p prod. interval rep tal depth 430' FNI E Spudded Depth: M D T V D 36 Electric & Other M Lith Density, Elec g and Liner Reco e Size/Grade 8 5/8" 5 1/2" g Record Depth Set (N 3581' cing Intervals Formation amo Fracture, Treatment Depth Interval A Test Depth Interval Test Depth Interval Test Date Test Date	on of Well (Report location of race 430' FNL & 880' FEL prod. interval reported below tal depth 430' FNL & 880' FIL produced by tal depth 430' FNL & 880' FIL produced by tal depth 430' FNL & 880' FIL produced by tal depth 430' FNL & 880' FIL produced by tal depth 430' FNL & 880' FIL produced by tal depth 430' FNL & 880' FIL produced by tal depth 436' FIL produced by tal depth 430' FNL & 880' FIL produced by tal depth 436' FIL prod	on of Well (Report location clearly of race 430' FNL & 880' FEL (NENE p prod. interval reported below 430' tall depth 430' FNL & 880' FEL (NE p prod. interval reported below 430' tall depth 430' FNL & 880' FEL (NE p prod. interval A	on of Well (Report location clearly and in accordance 430' FNL & 880' FEL (NENE) Unit A p prod. interval reported below 430' FNL & 8 tal depth 430' FNL & 880' FEL (NENE) Unit B tal depth 430' FNL &	on of Well (Report location clearly and in accordance with reface 430' FNL & 880' FEL (NENE) Unit A p prod. interval reported below 430' FNL & 880' FEL (NENE) Unit A tal depth 430' FNL & 880' FEL (NENE) Unit A 2 Spudded	on of Well (Report location clearly and in accordance with Federal in Inface 430' FNL & 880' FEL (NENE) Unit A p prod. interval reported below 430' FNL & 880' FEL (NENE) Unit A tal depth 430' FNL & 880' FEL (NENE) Unit A 2 Spudded	10 10 10 10 10 10 10 10	an Street, Suite 400	na Street, Suite 400 Golden, CO 80401 no f Well (Report location clearly and in accordance with Federal requirements)* rface 430' FNL & 880' FEL (NENE) Unit A p prod. interval reported below 430' FNL & 880' FEL (NENE) Unit A tal depth 430' FNL & 880' FEL (NENE) Unit A 2 Spudded 15. Date T.D. Reached 2/12/05 Depth: MD TVD 3633' 19. Plug Back T.D.: MD TVD 3595' Electric & Other Mechanical Logs Run (Submit copy of each) Lith Density, Electromagnetic, Magnetic Resonance g and Liner Record (Report all strings set in well) E Size/Grade Wt. (#/ft.) Top (MD) 8 5/8' 24 0' 281' Size/Grade Wt. (#/ft.) Top (MD) Bottom (MD) Type of Cement Type of Cement Type of Cementer Type of Cement		an Street, Suite 400 Golden, CO 80401 720-210-1308 an of Well (Report location clearly and in accordance with Federal requirements)* riface 430' FNL & 880' FEL (NENE) Unit A p prod. interval reported below 430' FNL & 880' FEL (NENE) Unit A tal depth 430' FNL & 880' FEL (NENE) Unit A 2 Spudded 15. Date T.D. Reached 2/12/05 Depth MD TVD 3633' 19. Plug Back T.D.: MD TVD 3595' Electric & Other Mechanical Logs Run (Submit copy of each) 22. Was well core: Was DST run? Lith Density, Electromagnetic, Magnetic Resonance Directional SUR g and Liner Record (Report all strings set in well) Size/Grade Wt. (#i/t.) Top (MD) Bottom (MD) Stage Cementer No. of Sks. & Slurry No. of	As Street, Suite 400 Golden, CO 80401 720-210-1308 30-03 30-	10 10 10 10 10 10 10 10	10 10 10 10 10 10 10 10	A Street, Suite 400 Golden, CO 80401 720-210-1308 30-039-239317 10, Field and Pool, on of Well (Report location clearly and in accordance with Federal requirements)* 10, Field and Pool, on of Well (Report location clearly and in accordance with Federal requirements)* 10, Field and Pool, on of Well (Report location clearly and in accordance with Federal requirements)* 11, Sec., T., R., M., or Area Sec. 31, T. 12, County of Parish Rio Arriba 11, Sec., T., R., M., or Area Sec. 31, T. 12, County of Parish Rio Arriba 11, Sec., T., R., M., or Area Sec. 31, T. 12, County of Parish Rio Arriba 11, Sec., T., R., M., or Area Sec. 31, T. 12, County of Parish Rio Arriba 11, Sec., T., R., M., or Area Sec. 31, T. 12, County of Parish Rio Arriba 11, Sec., T., R., M., or Area Sec. 31, T. 12, County of Parish Rio Arriba 11, Sec., T., R., M., or Area Sec. 31, T. 12, County of Parish Rio Arriba 11, Sec., T., R., M., or Area Sec. 31, T. 12, County of Parish Rio Arriba 11, Sec., T., R., M., or Area Sec. 31, T. 12, County of Parish Rio Arriba 11, Sec., T., R., M., or Area Sec. 31, T. 12, County of Parish Rio Arriba 11, Sec., T., R., M., or Area Sec. 31, T. 12, County of Parish Rio Arriba 11, Sec., T., R., M., or Area Sec. 31, T. 12, County of Parish Rio Arriba 11, Sec., T., R., M., or Area Sec. 31, T. 12, County of Parish Rio Arriba 11, Sec., T., R., M., or Area Sec. 31, T. 12, County of Parish Rio Arriba 11, Sec., T., R., M., or Area Sec. 31, T. 12, County of Parish Rio Arriba 11, Sec., T., R., M., or Area Sec. 31, T. 12, County of Parish Rio Arriba 11, Sec., T., R., M., or Area Sec. 31, T. 12, County of Parish Rio Arriba 11, Sec., T., R., M., or Area Sec. 31, T. 12, County of Parish Rio Arriba 11, Sec., T., R., M., or Area Sec. 31, T. 12, County of Parish Rio Arriba 11, Sec., T., R., M., or Arriba 11, Sec., T.

Produ	ction - Inte	rval C								· .			
First iced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method				
e .	Tbg Press Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status					
Produ	tion - Inte	rval D			<u>-l</u>	<u> </u>		1		,			
First iced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method				
•	The Press Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status					
isposi	tion of Ga	s (Sold use	d for fuel, v	ented, etc.)):.								
Show tests, i	all import	ant zones o	nclude Aqu of porosity a al tested, cu	and conten	ts thereof: C	ored interval	ls and all drill-stem and shut-in pressures	31. Formation	on (Log) Markers				
Forma	tion	Тор	Bottom		Descri	ptions, Conte	ents, etc.		Name	Top Meas. Depth			
									San Jose Nacimiento Ojo Alamo	surface 2000' 2900'			
									Kirtland Fruitland Coal Pictured Cliffs	3310' 3403' 3447'			
									Lewis	3580′			
						•							
1/2"	k 12' RWA	C pump,	plugging pro 142 3/4" rod Sub, SN, 11	s, 22' polis	hed rod. ' tbg, 4' 2 3/8	" sub.							
				-				-					
) Ele	ctrical/Med	,	gs (1 full se			eologic Repo ore Analysis	ort 3 DST Re 7 Other: _	port 4 D	irectional Survey				
7	0 V(2) (1)	nat the fore		tached info	ormation is co	omplete and o	correct as determined Title Engineerin		ble records (see attached instr	uctions)*			
ignati	ire <u> </u>	الار	30n J	1 <u>De</u>	wc	mk	Date 8/9/2005						
18 U. any f	S.C. Séctionals de la constant de la	on 1001 and ous or frauc	1 Title 43 U Iulent staten	S.C. Secti nents or rep	on 1212 mal presentations	ce it a crime as to any ma	for any person know tter within its jurisdic	ingly and willf	ully to make to any departme	nt or agency of the United			
	33.75	. Saib					* * * * *	. ——	(Fo	orm 3160-4 (9/01), Page 2)			