Form 3160-4 (August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
PLETION OR RECOMPLETION WELL COMPLETION OR RECOMPLETION REPORT AND 2007

FORM APPROVED OMB NO. 1004-0137

O.1.10				<i>-</i> ,
Expires:	Nove	mber	30,	2000

<i>-</i>	Louise Dellat 110.	
	Contract	ACC

										<del></del>			¥			Contra	UL 7UL	<u>′                                    </u>	<u></u>
la. Type of	Well	Oil W	ell	X Gas		Dry	Othe	:T	17	Off. Co	NS. DIV. D	ST.3	6.	IfIn	dian, A	llottee or	Tribe N	ame	
b. Type of C	b. Type of Completion: Work Over Deepen Reg Back Diff. Resvt, Other  New Work Over Deepen Reg Back Diff. Resvt, Other							Resvt 41	Jicarilla Apache Tribe				)						
	•		Other	-				Doopen	<b>—</b> .//	£62/		~~~~/\ _~~~~/\_/	7.	_		Agreeme			
			- Outloi							<u> </u>	<del>27.97.9</del> (	70	4						
2. Name of	•									_			8.	Leas	se Narr	e and Wel	l No.	<u> </u>	
Black Hills Gas Resources, Inc. c/o Mike Pippin LLC (Agent)											Jic	arilla 4	60-21	#1					
3. Address									3a. Pho	ne No. (ir	iclude area	code)	፞	ΔPI	Well I				
	3104 N	Sulliv	an F	armingtor	. NM	87401	1			505-3	327-457	3	1 "	ALI			0500	_	
4. Location				rly and in ac				require	ments) *		<i>721</i> 101		<u> </u>			30-039-			
	مرماد) المال المال	3,		,			0.0007 1007	. 09 01					10	. Fiel	d and	Pool, or Ex	cplorato	ry	
At surface			1	1456' FNL	. & 14	176' FW	VL L	Jnit (F)	) Sec.	. 21, T3	30N, R3	W		Ea	st B	lanco P	icture	ed Cli	iffs
				•									11	11. Sec., T., R., M., or Block and					
At top prod.	interval repo	rted below	1	1398' FNL	VL U	Jnit (F)	) Sec. 21, T30N, R3W			<u></u>	Survey or Area F 21 T30N R3								
										12. County or Parish 13. State					-				
At total dept				1574' FNL			L U	nit (G)				<u>N</u>	<del> </del>			Arriba			NM_
14. Date Sp			1	5. Date T.D.						e Complet D & A	eg <b>X</b> Read	k: to Prod	17	. He		(DF, RKI			
	06/18/9	8			06/2	25/98			ן ש		/30/07	, to 110 <b>0</b> .			726	9' GL &	7281	l' KB	
18. Total D	epth: MI	)	5517	19	. Plug	Back T.D	).: I	MD	5517'			20. Depth	Bridg	e Plus	Set:	MD			
	TV		3792	2'	_			FVD	3792'							TVD			
				gs Run (Subrr	nit copy	of each)					22. Was	well cored?	X	No			_		
Induction	n & Densi	ty/Neut	ron								Was	DST run?	凶	No			•	-	
											Direc	tional Surv	æy?		No	Yes (	(Submit	copy)	
23. Casing	and Liner Re	cord (Rep	ort all .	strings set in	well)														
Hole Size	Size/Grade	W1. (#/	n)						ementer				ol.	Ol. Cement Top*			Amount Pulled		Pulled
		`						Dep				)							
12-1/4"	8-5/8"	25		0'		542'					0, H	<del> </del>		0' - circ		0'			
7-7/8"	5-1/2"	15.5		0'		4013					75			0' - circ		ilc	0'		
4-3/4"	2-7/8"	7.9&8.	7#	3717'		5517	<u>'</u>	······································		NONE								0,	
	<u> </u>			<del></del>						<u></u>		·					<u></u>		
24. Tubing												1							~ (A PD)
Size 2-3/8"	Depth Se		Pack	er Depth (MI	<u>"                                     </u>	Size		Depth Se	et (MID)	Packer D	epth (MD)	Si	<del>ze</del>	-	Dep	th Set (MI	"	Packer	Set (MD)
2-3/0	371				<del></del>						<del></del>	<del>                                     </del>					$\dashv$		
35 P12			<u> </u>				-	26 P	C	Description		<u>.                                    </u>							
25. Produci	Formation		1	Тор		Botton	_ +		foration			Size	Т.	No. H	olee	T"	Dorf	Status	
,, p	ictured C	<u> </u>		3784'	_	3876					s 1	0.75"	168			<del>                                     </del>	Open		
7) -	iciai ca C	11113		TVD	_	TVD				-perfed joints 0.75" oles/jt w/tops @			100				JCII		
				140	$\dashv$					5097', 4721'			╅			+			
			$\dashv$	<del></del>	+		<del></del> f			2', 384			╁─╴			<del>                                     </del>			
27. Acid Fi	racture, Trea	tment Cen	ent Sa	neeze Etc	l			7070	, 001	<u> </u>	<u> </u>					<u> </u>	<del></del>		
	Depth Inter		T T	ucceso, Etc.						Amount	and type o	f Material							
М	D3846'-5			Horizonta	I PC	iateral	- No	forma	ation s				ned '	Well	bore	Diagra	m		
																·			
28. Product	ion - Interva	Α																	
Date First	Test	Hours	Test	Oil	Ga		Water		Oil Gravi		Gas		Prod	uction l	Method				
Produced	Date 03/30/07	Tested	Produc	tion BBL	M	CF	BBL		Cott. AP	I	Gravity					Elevi			
Ready Choke		8	2115-	0.1		0	352.600		25 - AND		777 . IV Character		Щ.			Flow	any		
Size	The Press Flwg	Csg. Press.	24 Hr Rate	ીત BBL	Ga M	us CF	Water BBL		Gas . Oil Ratio		Well Status								
	PSI		<u> </u>			0			l						Read	ly			
28a. Produc	ction - Interv	al B	4	<u> </u>					•		-								· · · · · · · · · · · · · · · · · · ·
Date First	Test	Hours	Test	ા	Ga		Water		Oil Grav	ıty:	Gas		Prod	uction l	Method		•		
Produced	Date	Tested	Produc	tion BBL	M	CF	BBL		Соп. АР	Ţ	Gravity		1						
Chaler		C	,				TV	··			337-11 (94-)		1						
Choke Size	Thg Press Flwg.	Csg. Press.	2∔Hr Rate	DBL DBL	G: M	ns CF	Water BBL		Gas : Cul <b>Ratio</b>		Well Status		A	CC	713	DFOR		MD	
	SI		-		<b>)</b> "		ļ						•						
(See instruc	tions and sp	aces for ac	ldition	al data on res	verse si	de)			<del>1</del>		•				ΛPΩ	1 0 20	ากว		
	•													•		· > 4	<b>,</b> 01		

luction - Inter	m1C											
	vaiC											
Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method		•		
The Press	Csg	24 Hr	Oil	Gas	Water	Gas · Oil	Well Status					
Flwg.	Press.	Rate	BBL	MCF	BBL	Ratio						
luction - Inter	val D		.1	.1								
		Test	loii	Gas	Water	Oil Gravity	Gas Gravity	Production Method				
Date	Tested	Production	BBL	MCF	BBL	Corr. API						
Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status					
1	Sold, used fo	or fuel, vente	ed, etc.)	<u> </u>	<u> </u>							
	- 7 /T1-	J . A		٠.			12: 2					
all important	zones of porc	sity and con	tents thereo				31.70112110	i (Sog) Markots				
mation	Тор	Bottom	ļ	Descr	iptions, Content	ts, etc.		Name		Meas. Depth		
d Cliffs	3784'	3876'	GAS				Nacimient Ojo Alam Kirtland Fruitland	0	TVD Surface 2076' 3268' 3492' 3685' 3784' 3876'	MD 2076' 3268' 3492' 3685' 3784'		
e enclosed attrectrical/Mech	achments: anical Logs ( for plugging a	PC Hori	d.)	2.	. Geologic Rep . Core Analysis	ort 3, D:	ST Report her:	4. Directional Survey	I Wellbore	Diagra		
(please print	" ——	Mike Pi	ppin	505-327-4	573	Title _	Petroleur	n Engineer (Agen	t)			
		~ //////										
	Tog. Press. Flwg. SI uction - Inter Test Date  Tog. Press. Flwg. SI sition of Gas nary of Porou all important including dep xxxeries.  Transition d Cliffs  tional remark. ARILLA 46 by certify that	Tbg Press. Flwg. SI  uction - Interval D  Test Hours Date Tested  Tbg Press. Si  sition of Gas (Sold, used for any of Porous Zones (Including depth interval test coveries.  Top  d Cliffs 3784'  tional remarks (include plus ARILLA 460-21 #1	Tog. Press. Flwg. SI  Luction - Interval D  Test Date  Tog. Press.  Cog. Flwg.	Tog. Press. Flwg. Flwg. Flwg. Flwg. Flwg. Floress. Sl  uction - Interval D  Test Date Tested Production BBL  Tog. Press. Sl  Tog. Press. Sl  Tog. Press. Csg. Flwg. Press. Sl  Tog. Press. Sl  Tog. Press. Csg. Flwg. Press. Sl  sition of Gas (Sold, used for fuel, vented, etc.)  mary of Porous Zones (Include Aquifers): all important zones of porosity and contents thereo including depth interval tested, cushion used, time to excoveries.  Tog. Bottom  Top Bottom Cliffs  3784' 3876' GAS  Tog. Press.  Tog. Press. Rate BBL  Sl  BBL  Tog. Cil  BBL  Gal  BBL  Tog. Cil  BBL  Coli  BBL  Tog. Cil  BBL  Tog. Cil  BBL  Sl  BBL  Sl	Date Tested Production BBL MCF  Tbg. Press. Csg. Press. Rate BBL MCF  SI Unction - Interval D  Test Hours Test Dil Gas Production BBL MCF  Test Hours Test Dil Gas Production BBL MCF  Tbg. Press. Csg. 24 Hr. Dil Gas Production BBL MCF  Tbg. Press. Csg. Rate BBL MCF  Si Date Press. Rate BBL MCF  Si Date Press. Rate BBL MCF  sistion of Gas (Sold, used for fuel, vented, etc.)  mary of Porous Zones (Include Aquifers):  all important zones of porosity and contents thereof: Cored interincluding depth interval tested, cushion used, time tool open, flow zoveries.  Tmation Top Bottom Descr  d Cliffs 3784 3876 GAS  ARILLA 460-21 #1 PC Horizontal Lateral  et enclosed attachments: etcrical/Mcchanical Logs (I full set req'd.) 2.  indry Notice for plugging and cement verification 5.  by certify that the foregoing and attached information is complete	Tog. Press.  Csg. 24 Hr. Oil Gas Water BBL uction - Interval D  Test BBL MCF BBL  Test BBL MCF BBL  Test BBL MCF BBL  Test Date Tested Production BBL MCF BBL  Tog. Press.  Csg. 24 Hr. Oil Gas Water BBL  Tog. Press.  Csg. 24 Hr. Oil Gas Water BBL  Tog. Press.  Rate BBL MCF BBL  Tog. Press.  Tog. Press.  Rate BBL MCF BBL  Tog. Press.  Rate BBL MCF BBL  Tog. Press.  Tog. Press.  Rate BBL MCF BBL  Tog. Press.  Tog. Press.  Rate BBL MCF BBL  Tog. Press.  Rate BBL MCF BBL  Tog. Press.  Rate BBL MCF BBL  Tog. Press.  Tog. Press.  Rate BBL MCF BBL  MCF BBL  Tog. Press.  Rate BBL MCF BBL  Tog. Press.  Rate BBL MCF BBL  Tog. Press.  Rate BBL MCF BBL  Tog. Press.  Rate BBL MCF BBL  Tog. Press.  Rate BBL MCF BBL  Tog. Press.  Rate BBL MCF BBL  Tog. Press.  Rate BBL MCF BBL  Tog. Press.  Rate BBL MCF  BBL MCF  BBL MCF  BBL  Tog. Press.  Rate BBL  Tog.	Tig. Press.  Cag. 24 Hr. Rate BBL. Gas Water Gas Oil Ratio Date Tested Freduction BBL. Grawing MCF BBL. Ratio State Correction. Interval D  Test Hours Date Tested Freduction BBL. Gas Water Gas Oil Gravity Date Tested Freduction BBL. Gas Water Gas Oil Gravity Tig. Press. Rate BBL. Gas Water Gas Oil Gravity State BBL. Gas Water Gas Oil Filey Press. Rate BBL. MCF BBL. Ratio Station of Gas (Sold, used for fuel, vented, etc.)  Tarry of Porous Zones (Include Aquifers):  all important zones of porosity and contents thereof: Cored intervals and all drill-stem including depth interval tested, cushion used, time tool open, flowing and shut-in pressures coveries.  Transition Top Bottom Descriptions, Contents, etc.  dd Cliffs 3784' 3876' GAS  Window in 5-1/2" csg of contents thereof Cored intervals and all drill-stem including depth interval tested, cushion used, time tool open, flowing and shut-in pressures coveries.  Transition Top Bottom Descriptions, Contents, etc.  Transition	Date   Tested   Treduction   BBI.   MCF   BBL   Corr. API	Tisk Press.   Cisk   Press.   Rate   State   State	Date   Tested   Production   BBI.   MCF   BBI.   Corr. API		

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.