

Form 3160-4 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FEB 26 2013

FORM APPROVED OMB NO. 1004-0137 Expires: July 31,2010

Farmington Field Offi 5 Lease Serial No.

	V	VELL CO	MPLETION OR	RECOMPLE	ETION R	EPORT	T AND LO	G au of L	and Mana	igement Jic 458	3			
1a. Type of Well Oil Well Gas Well Dry Other b. Type of Completion: New Well Work Over Deepen Pug Back Diff. Resvr., Other Amendment											6. If Indian, Allottee or Tribe Name Jicarilla Appache Tribe 7. Unit or CA Agreement Name and No.			
2 Name of C	<u></u>									0.1	4 W	7-11 NT-		
2. Name of Operator Black Hills Gas Resources, Inc.										I	8. Lease Name and Well No. Jicarilla 458-8 #6			
3. Address 3a. Phone No. (include area code)										1	9. AFI Well No.			
			omfield, NM 874 learly and in accordance		quirements		5) 634-51	<u>U4</u>			30-039-25757 10. Field and Pool or Exploratory			
	` .		Ť		· · · · · · · · · · · · · · · · · · ·	,				East B	lanco	Pictured Cliffs		
At surface	1050' F	'NL & 1'	700' FWL UL: (C			•			11. Sec., T., Surveyor	Area]		
At top pro	d. interval rep	orted below								Sec. 8		R3W		
At total de	•						I			Rio A		NM		
14. Date Spudded 15. Date T.D. Reached 02/25/98							16. Date Con			17. Elevations (DF, RKB, RT, GL) 7178' GL				
18. Total Dep	oth:	MD 640 0)'	19. Plug Back T.D.: MD 5900' TVD				20. Depth B		MD 5900'				
21. Type Ele	ctric & Other		Logs Run (Submit cop	y of each)		112		22. Was wel	l cored?	No Yes (St	bmit anl	lysis)		
Induc	ction, SDI	L-DSN,	Гетр Survey					Was DS Direction			o			
23. Casing ar	nd Liner Reco	лd (Report d	all strings set in well)	1										
Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Co		No. of Type of		Slurry Vol. (B	BL) Cement To	p*	Amount Pulled		
12-1/4"	8-5/8"	24#	0'	504'				"B"		0' Cir		0		
7-7/8"	5-1/2"	17#	0'	6400'	569	97'	Stage1 - 1	70sx POZ		5697' Circ thr		0		
					<u> </u>		Stg2 - 145	Oor DOZ		tool, 40sx to 380' Temp S				
	l	 					Sig2 - 143	OUSX PUL				FB 92 113		
												ING DIII		
24. Tubing R	ecord	L	· · · · · · · · · · · · · · · · · · ·	l	<u> </u>							er o		
Size	Depth Se	et (MD)	Pacher Depth (MD)	Size	Depth Set (MD) Pach		Pacher De	epth (MD) Size		Depth Set (MD) T	Pacher Depth (MD)		
2-3/8"	374	181	3708'	4-1/2"			<u> </u>							
25. Producing			T	l n	26. Perfora			T 6:	N. 11.1		D£	C+-+		
A 10	Formation	6 6-	Top	Bottom		forated Int		 		No. Holes Perf. Status 90 2 SPF				
A P	ictured Cli	iis	3766'	3858'	3766'-74, 3776 3694'-98, 3809			0.34" 9		+	23	orr		
C					3823'-30, 3843'-51									
D														
27. Acid,Frac	cture, Treatme	ent, Cement	Squeez, etc.											
	Depth Interval			Amount and Type of Material										
	3766' - 3851	l'	BD w/ 500 gal acetic acid & 135 Pert Balls.											
	Fraced w/ 141,000# 20/40 sand in foam on 5/								10am on 5/2/U	10				
28. Production			I 	loa	lc	Inv	Oil Gravity	Ic	Production Met	had				
Date First Produce	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Corr. API	Gas Gravity	Production Med	nod				
Ready	05-09-06	5	→		365	ŀ			Flowing					
Choke	Tbg. Press.	Csg.	24 HR.	Oil	Gas	Water	Gas/Oil	Well Status						
Size 3/8"	Flwg. 500 SI	Press	Rate	BBL	MCF 1,750	BBL	Ratio	Shut-in						
	l	<u> </u>		L	1,/30	L		Janut-III						
28a. Producti Date First	on - Interval . Test Date	Hours	Test	Oil	Gas	Water	Oil Gravity	Gas	Production Met	hod				
Produce	. voi Date	Tested			MCF	BBL	Corr. API	Gravity						
		<u> </u>	ightharpoonup		<u>L</u>	L	<u> </u>			Alaka Pir	PAC	MRECORD		
Choke	Tbg. Press.	Csg.	24 HR.	Oil	Gas	Water	Gas/Oil	Well Status	- li	0 000				
	Flwg. SI	Press	Rate	BBL	MCF	BBL	Ratio			FES	26	2013		
	۱۳۰	I		I	ı	1	1	I			_ ~			

*(See instructions and spaces for additional data on page 2)

NMOCDA

FARMARGTON FIELD OFFICE

28a. Product	ion - Interval	c									
Date First Produce	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method		
Choke Size	Tbg. Press. Flwg. SI	Csg. Press	24 HR. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	L		
28a. Product	ion - Interval	d				1		1			
Date First Produce	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method		
Choke Size	Tbg. Press. Flwg. SI	Csg. Press	24 HR. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	<u> </u>		
29. Dispositi Vent	on of Gas (So	lid, used fo	r fuel, vented, etc.)		!		·	<u>.</u>			
Show all in	nportant zones	of porosity	de Aquifers): y and contents thereo ion used, time tool o					31. Formati	on (Log) Markers		
Formation		Top	Bottom		Descriptions, Contaents, etc.				Name		
Ojo A	Jose Alamo ed Cliffs	158 319 376	6' 3430'		G	Gas Gas Gas			San Jose Nacimiento Ojo Alamo Kirtland Fruitland Pictured Cliffs Lewis Mesa Verde	Meas. Depth 0' 2020' 3196' 3430' 3663' 3766' 3858' 5747'	
2. Addition	al remarks (in	clude plugs	ging procedure):					<u> </u>		1	
Jicarilla	458-8 #6 P	PC					·				
	Electri Sundry	cal/Mechai Notice for	tached by placing a calculation of the control of t	req'd) nt verification	☐ Geo	logic Repo e Analysis		DST Re	eport Directional Surve	ry	
эч. і петеру (and attached inform Daniel Manu		е ани соггест			ory Techi			
Name (please print) Signature Minus Manuel Manus					_	Title		02/26/13			

(Form 3160-4, page 2)

(Continued on page 3)