(August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR

SEP 08 2016

OMB	No.	1004-	013

BUREAU OF LAND MANAGEMENT Farmington Field

Expires: July 31,2010

SI	JNDRY NOTICES AND	REPORTS ON WELL	sof Land Mar	Jicarilla Cor	ntract 464
Do	not use this form for propos	sals to drill or to re-enter	an	6. If Indian, Allottee,	
aba	ndoned well. Use Form 3160	-3 (APD) for such propos		Jicarilla Apa	
	N TRIPLICATE - Other Inst	tructions on page 2.		7. If Unit or CA. Agre	eement Name and/or No.
1. Type of Well Oil Well Gas Well		8. Well Name and No.			
2. Name of Operator				Jicarilla 464	#8
Black Hills Gas Resource	es, Inc.			9. API Well No.	
3a. Address		3b. Phone No. (include area co	ode)	03-039-2425	3
P.O. Box 249 Bloomfield	, NM 87413	(505) 634-5104		Field and Pool, or	Exploratory Area
4. Location of Well (Footage, Sec., T.,	R., M., or Survey Description)	(C)		East Blanco	Pictured Cliffs
1850' FSL & 1450' FWI	NE/SW Section 29 T30	N R3W (UL: K)	[11. County or Parish,	State
				Rio Arriba (County, New Mexico
12. CHECK APPRO	OPRIATE BOX(S) TO INDIC	CATE NATURE OF NOTI	ICE, REPORT, O	R OTHER DATA	
TYPE OF SUBMISSION		TYP	E OF ACTION		*.
✓ Notice of Intent	Acidize	Deepen	Production (St	art/Resume)	Water Shut-off
Tronce of intent	= =				=
	Altering Casing	Fracture Treat	Reclamation	_	Well Integrity
Subsequent Report	Casing Repair	New Construction	Recomplete	î	Other
_	Change Plans	Plug and abandon	Temporarily Al	pandon	
Final Abandonment Notice	Convert to Injection	Plug back	Water Disposal		
Attach the Bond under which the wo following completion of the involved	ally or recomplete horizontally, give so rk will performed or provide the Bond d operations. If the operation results in andonment Notice shall be filed only a	ubsurface locations and measured No. on file with the BLM/ BIA. It a multiple completion or recomple	and true vertical depth Required subsequent re etion in a new interval,	s of all pertinent marke ports shall be filed with a Form 3160-4 shall be	ers and zones. hin 30 days e filed once
Black Hills Gas Resources in	tends to plug and abando	n Jicarilla 464 #8 per a	attached procee	lure.	0
BHGR will use a close loop s	ystem.				OIL CONS. DIV DIST.
		C!	CE ATTACL	IED EOB	SEP 16 2016
Attachments:					
Procedures		COND	OITIONS OF	APPROVA	L
Current wellbore diagram					
Proposed wellbore diagram Reclamation Plan	BLM'S APPROVAL OR AC ACTION DOES NOT RELI	EVE THE LESSEE AND		Notify NMOCD 2 prior to beginn operations	ning
	OPERATOR FROM OBTAI			-	

H₂S POTENTIAL EXIST

<i>i</i>)		p.
Regulatory Tec	hnician II	3 5 5
- Date Sep	et 7,206	
FOR FEDERAL OR STAT	E OFFICE USE	
Title ?	Date 9/13/16	
	FO //	
r	FOR FEDERAL OR STATE	Regulatory Technician II Date Sept 7 2016 FOR FEDERAL OR STATE OFFICE USE Title RE Date 9/13/16 rant or certify

ON FEDERAL AND INDIAN LANDS

(Instructions on page 2)



PLUG AND ABANDONMENT PROCEDURE

September 1, 2016

Jicarilla 464 #8

East Blanco Pictured Cliffs/Cabresto Canyon; Ojo Alamo Ext. 1850' FSL, 1450' FWL, Section 29, T30N, R3W, Rio Arriba County, NM API 30-039-24253 / Long: / Lat:

- 1. This project will use an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up. 2. Install and test location rig anchors. Comply with all NMOCD, BLM, and Operator safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. Record casing, tubing and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary and at least pump tubing capacity of water down the tubing. ND wellhead and NU BOP. Function test BOP. 3. Rods: Yes____, No_X__, Unknown_ Tubing: Yes X , No , Unknown , Size 2-3/8" , Length 3772' Packer: Yes____, No_X_, Unknown____, Type ___ If this well has rods or a packer, then modify the work sequence in step #2 as appropriate. Round trip 4.5" casing scraper or gauge ring to 3728', or as deep as possible. TIH and set 4.5" CR or CIBP at 3728'. Pressure test tubing to 1000 psi. Attempt to pressure test casing to 800
- 4. Plug #1 (Pictured Cliffs interval, Fruitland, Kirtland and Ojo Alamo tops, 3728' 3206'): psi. Mix 44 sxs Class B cement and spot plug inside the casing above the CR or CIBP to isolate the PC interval and cover the Fruitland, Kirtland and Ojo Alamo tops. TOH with tubing.
- 5. RU A-Plus Wireline and run CBL from top of cement to surface. Note: Plug #2 may change based on CBL results.
- 6. Plug #2 (Nacimiento top, 2102'- 2002'): If CBL indicates no cement across Nacimiento top then perforate at 2102'. TIH. Attempt to establish rate. Mix and pump 51 sxs Class B cement and squeeze 39 outside and 12 inside. TOH and LD tubing. If CBL indicates cement across Nacimiento top then TIH, spot 12 sxs inside casing from 2102' to 2002'. TOH and LD tubing.
- 7. Plug #3 (8-5/8" Surface casing shoe, 190' Surface): Perforate 3 HSC holes at 190'. Establish circulation out 4.5" x 8-5/8" annulus. Mix and pump approximately 55 sxs cement down the 4.5" casing until good cement returns out annuli and bradenhead. Shut in well and WOC.
- 8. ND cementing valves and cut off wellhead. Fill annuli with cement as necessary. Install P&A marker to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. RD, MOL and cut off anchors. Restore location per BLM stipulations

Jicarilla 464 #8

Current

East Blanco Pictured Cliffs / Cabresto Canyon; Ojo Alamo Ext.

1850' FSL & 1450' FWL, Section 29, T-30-N, R-3-W, Rio Arriba County, NM

/ Lat: /API 30-039-24253 Today's Date: 9/1/16 Spud: 10/10/88 PC Comp: 11/25/88 OA Comp: 1/28/98 8-5/8" 24#, J-55 Casing set @ 140' Cement with 145 sxs, circulated to surface 12-1/4" Hole Elevation: 7197' GI 7209' KB Casing leaks: 1884', 2225', 2481' Sqz'd with total 129 sxs between 8/26 - 9/8/ 2003 2-3/8" tubing at 3772' (121 jts, 4.7#, J-55 tubing with SN) Nacimiento @ 2052' Before Squeeze CBL TOC @ 3220' (1988) Ojo Alamo @ 3256' Ojo Alamo Perforations: 3256' - 3308' Sqz'd with 200 sxs cmt (2003) Kirtland @ 3488' Fruitland @ 3624' Pictured Cliffs @ 3771' Pictured Cliffs Perforations: 3778' - 4043' 4.5" 10.5#, J-55 Casing @ 4187' Cement with 275 sxs 7-7/8" Hole TOC at 3220' (11/9/88 CBL) 4200' TD

4147' PBTD

Jicarilla 464 #8

Proposed P&A

East Blanco Pictured Cliffs / Cabresto Canyon; Ojo Alamo Ext.

1850' FSL & 1450' FWL, Section 29, T-30-N, R-3-W, Rio Arriba County, NM

/API 30-039-24253 _/ Lat: Today's Date: 9/1/16 Spud: 10/10/88 PC Comp: 11/25/88 OA Comp: 1/28/98 8-5/8" 24#, J-55 Casing set @ 140' Cement with 145 sxs, circulated to surface 12-1/4" Hole Elevation: 7197' GI 7209' KB Perforate @ 190' Plug #3: 190' - 0' Class B cement, 55 sxs Casing leaks: 1884', 2225', 2481' Sqz'd with total 129 sxs between 8/26 - 9/8/ 2003 Plug #2: 2102' - 2002' Nacimiento @ 2052' Class B cement, 51 sxs 39 outside and 12 inside Before Squeeze CBL TOC @ 3220' (1988) Ojo Alamo @ 3256' Ojo Alamo Perforations: 3256' – 3308' Sqz'd with 200 sxs cmt (2003) Kirtland @ 3488' Plug #1: 3728' - 3206' Class B cement, 44 sxs Fruitland @ 3624' Set CR @ 3728' Pictured Cliffs @ 3771' Pictured Cliffs Perforations: 3778' - 4043' 7-7/8" Hole 4.5" 10.5#, J-55 Casing @ 4187' Cement with 275 sxs TOC 3220' (11/9/88 CBL) 4200' TD

4147' PBTD

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT FARMINGTON DISTRICT OFFICE

6251 COLLEGE BLVD. FARMINGTON, NEW MEXICO 87402

Attachment to notice of Intention to Abandon: Re: Permanent Abandonment

Well: Jicarilla 464 #8

CONDITIONS OF APPROVAL

- 1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
- 2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.
- 3. The following modifications to your plugging program are to be made:
 - a) Set plug #2 (2066-1966) inside/outside ft. to cover the Nacmiento top. BLM picks top of Nacimiento at 2016 ft.

 H_2S has not been reported at this location, however, *High to Very High concentrations of H_2S* (135 ppm – 820 ppm GSV) have been reported in wells which produce gas from the San Jose, Nacimiento, and Ojo Alamo fms. within a 1 mile radius of this location. It is imperative that H_2S monitoring equipment and personnel be on location during P&A operations at this well site.

Operator will run a CBL to verify cement top. Submit the electronic copy of the log for verification to the following addresses: tsalyers@blm.gov Brandon.Powell@state.nm.us

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.