HOBBS OCD

New Mexico Oil Conservation Division, District.

1625 N. French Drive

JUL 1 1 2012

UNITED STATES

Hobbs, NM 88240

FORM APPROVED

OMB No 1004-0137 Expires: October 31, 2014

Form 3160-5 (March 2012)

DEPARTMENT OF THE INTERIOR RECEIVED EAU OF LAND MANAGEMENT

5. Lease Serial No. NMNM82026

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an

6. If Indian, Allottee or Tribe Name

abandoned well.	Use Form 3160-3 (A	APD) for such	proposals.					
SUBMIT IN TRIPLICATE – Other instructions on page 2.				7. If Unit of CA/Ag	7. If Unit of CA/Agreement, Name and/or No			
1 Type of Well Gas Well Other				8. Well Name and N Federal A #2	8. Well Name and No Federal A #2			
2. Name of Operator Ridgeway Arizona Oil Corp.				9 API Well No. 30-041-20112				
			lude area code)					
4 Location of Well (Footage, Sec. T. 660 FSL & 660 FEL Sec. 24, T - 07S, R - 32E		n)		11 County or Parisl Roosevelt	h, State			
12 CHE	CK THE APPROPRIATE B	OX(ES) TO INDICA	TE NATURE OF NO	OTICE, REPORT OR OT	ΓHER DATA			
TYPE OF SUBMISSION		•	TYPE OF A	ACTION				
✓ Notice of Intent	Acidize Alter Casing	Deepen Fracture		Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity			
Subsequent Report	Casing Repair Change Plans	☐ New Cons ✓ Plug and	=	Recomplete Femporarily Abandon	Other			
Final Abandonment Notice	Convert to Injection	Plug Back	: 🗆 v	Water Disposal				
determined that the site is ready for In response to INC 12RH46I Ridgeway Arizona Oil Corp request Ridgeway will contact BL 24 hours	s approval to plug and ab		ording to the attach	ed proposed procedur	e and wellbore diagram. 2012 JUN 29			
		APPRO ENDING	_	MONTH PE				
			<u> </u>	2 2012	PH 2			
14 I hereby certify that the foregoing is	rue and correct Name (Printe	ed/Tvped)						
Jana True		Tit	le Mgr - Regulatory	/				
Signature Ame	1	Dat	te 06/27/2012					
V	THIS SPACE	FOR FEDERA	L OR STATE C	FFICE USE				
Approved by /S/ DAV		SS		BUM ENGINEER	Date JUL 0 2 2012			
Conditions of approval, if any, are attache hat the applicant holds legal or equitable entitle the applicant to conduct operations.	title to those rights in the subjection	ct lease which would	Office	ROSWELL F				
Title 18 U.S.C. Section 1001 and Title 43			knowingly and willful	ly to make to any departm	nent or agency of the United States any false,			

St. Johns Helium/CO2 Project

Plugging Procedure Federal "A" #2 API No. - 30-041-20112

- Prepare location and test anchors
- MIRU plugging rig
- 3. Notify OCD/BLM 24 hours prior to commencement of P & A procedure.
- 4. NDWH/NU BOP
- RIH w-4 ½ CIBP on 2 3/8 WS @ 4075' (+/-) within 100' of top perf 4118'
 - a. Spot 35' of cement on CIBP
 - b. WOC bump plug @ 4040' (+/-)
- Load well with a minimum of 9 lb. mud and conduct MIT to 500 psi., test for leak off.
 - a. Bleed pressure off after MIT.
- MIRU WL and RIH w/perf gun to 3040'
 - perforate @ 2 JSPF a.
 - b. POOH w/WL
 - c. RDWL
- TIH w/WS Squeeze 40 SX cement plug @ 3040' to 2940' (+/-)
 - a. Wait on cement
 - b. Tag plug @ 2940' or above.
- MIRU WL and RIH w/perf gun to 2040'
 - perforate @ 2 JSPF a.
 - POOH w/WL h.
 - RDWL c.
- 10. TIH w/WS Squeeze 40 SX cement plug @ 2040' to 1940'
 - a. Wait on cement
 - b. Tag plug @ 1940' or above
- 11. MIRU WL and RIH w/perf gun to 1900'
 - a. perforate @ 2 JSPF
 - POOH w/WL
 - RDWL
- 12. TIH w/WS Squeeze 60 SX cement plug @ 1040' to 940'
 - a. Wait on cement
 - b. Tag plug @ 940' or above
- 13. MIRU WL and RIH w/perf gun to 400'
 - perforate @ 2 JSPF a.
 - b. 8 5/8 Surface Casing Shoe @ 366'
 - POOH w/WL
 - d. Squeeze 60 SX cement from 400' to 300' (+/-)
- 14. MIRU WL and RIH w/perf gun to 60'
 - perforate @ 2 JSPF
 - POOH w/WL
 - RDWL c.
- 15. TIH w/WS Circulate cement plug from 60' to surface
 - a. Wait on cement
 - b. Cut off well head
- 16. RDMO Plugging Rig
 - a. Install P & A marker plate
 - b. Cut off dead men
 - Remediate Location

	•	
Co. Rep	0	•
Well Name	Federal "A"	Well No. 2
Field	Chaveroo	
County	Roosevelt	
State	NM	
Date	1/0/1900	
Date Comp		
KB	0.00	

						Y	
Description	O.D.	Grade	Weight	Depth	Cmt Sx	тос	
Surface Csg	8 5/8	0	24	366	250	Surface	
Inter Csg	0	0	0	0	0	0	
Prod Csg	4 1/2	0	9 1/2	4430	150	Unknowi	
Liner O.D	0	0	0	0	0	0	

	 		للحص			
		Fallons Ameliosis				
	1 1	Failure Analysis	Perf @ 60' Sqz to			
İ	11	Lease Federal "A" Well # 2 Field Chaveroo	Surface			
		Well Test Data BOPD BWPD MCF			11	
		Unit Name & Size Perforations				
		TBG Data Pump Size	-	ļ	1 1	
		Strokes Per. Min. Stroke Length Seat Nipple			11	
!		Tension	-		11	
		Predicitive Load Actual Load		Ì		
] [LIST DATES, REASON FOR FAILURES & MEASURES TAKEN TP PREVENT SAID	_			
		FAILURES & NON FAILURE PULLS.	366' 			2
21			Perf @ 400' Sqz 60 SX			
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	} .	`				
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			Perf @ 1040' Sqz 40 SX		[
			Sqz 40 SX	Towns of the second		
						
				N. A.		
			Perf @ 2040'			
			Sqz 40 SX			
			_		l	
		LIST ANY RECOMMENDATIONS TO PREVENT FUTURE FAILURES OR ANY				
i		COMMENTS ON WELL CONDITIONS THAT WILL CONTRIBUTE TO FAILURES.	_			
)			_		1	
l			_			
			_	radorio era		
			 Perf @ 3040'			
			Sqz 40 SX			
				•		
		•		,		
	Perfo	orations				
ļ			••			
1						
]	4118	-4357 - 1 SPF				
			35' Cmt. Plug	14 (A)	4040'	
	РВТ	D @ 4385 ETD @ 0	Cibp @ 4075'	Branches A. Mark C. St. C.	10-10	
7						4118
	 TD @	9 4410			!	

	TY NAME	COMPANY E_Federal "A" WELL #2	_	•	CIRCLE:	CAPITIZEI) / EXPENSED
BILLING CATEGORY CATEGORY DESCRIPTION			VENDOR	PROPOSED QUANTITY		_ ESTIMATED AMOUNT	COMMENTS .
WORKOV Cap	ERS & P	& A'S (600-EXPENSED, 800-CAPITALIZED)					
6.01		SURVEY & PERMIT	т —	Τ	1	Τ	
6.02		DAMAGES	 			<u> </u>	
6 03	8.03	ROAD & LOCATION	Hobbs An	chor/MWI		7,500	Test anchors/Remediate Location
6 04	8.04	RIG MOVE					
6.05		DRLG-FOOTAGE					
6 06		DRLG-DAYWORK .					
6 07		CEMENT/HARDWARE					
6.08		CHEMICAL CORING/CORE ANALYSIS	<u> </u>	ļ			
6.10		TUBING TESTING	 	 			
6.11		DRILLING FLUID					
6.12		WATER	 				
6.13		BITS & REAMERS	 				
6.14		GEOLOGICAL & EXPENSES					
6.15	8.15	ENGINEERING/WELL SUPERVISION					
6.16	8.16	MUD LOGGING					
6.17		LOGGING & PERFORATING					
6.18		EQUIPMENT RENTAL					
6.19		TRUCKING	MWI				Haul WS/Tbg/Rods to/from Loc
6 20		LABOR	MWI			4,000	Clean Location
6.21		LEGAL OVERHEAD					
6.23		INSURANCE & BONDS		,			
6.24		CASING CREWS					
6 25		PLUGGING & ABANDONMENT	Sunset			37,000	Plugging Unit
6.26		SWABBING UNIT COSTS					
6.28	8 28	FUEL					
6.29	8.29	PULLING UNIT					
6.30		MOBILIZATION					
6 32		ELECTRICAL-MATERIAL/LABOR	Tessco			1,500	Disconnect any electrical on Location
6.33		LIQUID CO2					
6.34		PROPANE & STORAGE CONSULTING					
6.50		ALLOCATED COSTS (NOT USED ON AFE'S	<u> </u>				
6.70		MISCELLANEOUS COSTS: (DETAIL BELOW					
			ŕ –	i			
		MATERIALS (600-EXPENSED; 800-CAPITA	LIZED)				
6.61		PRODUCTION CASING					
6.63		FLOWLINE WELLHEAD EQUIPMENT					· · · · · · · · · · · · · · · · · · ·
6 64		TUBING					
6.65		DOWNHOLE PUMP					·····
6.65		RODS			*****		
6.66	8.66	PUMPING UNITS					
6.67		TANKS					
6 68		SEPARATORS & HEATER/TREATER					
6.69		ENGINES & POWER EQUIPMENT VALVES & FITTINGS					
6.74		INSTALL COSTS-EQUIPMENT					
6 73		MISCELLANEOUS TANGIBLE	<u> </u>				
L		EQUIPMENT COSTS TOTAL				52,500	
AFE TOTAL52,500					52,500		
		IZE PROJECTED BENEFIT (i.e. increased pro as per BLM Roswell	oduction, o	cost saving	s, etc.)		

BUREAU OF LAND MANAGEMENT

Roswell Field Office 2909 West Second Street Roswell, New Mexico 88201 (575) 627-0272

Permanent Abandonment of Federal Wells Conditions of Approval

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

- 1. Plugging operations shall commence within ninety (90) days from the approval date of this Notice of Intent to Abandon. If you are unable to plug the well by the 90th day provide the BLM Roswell Field Office (RFO), prior to the 90th day, with the reason for not meeting the deadline and a date when the BLM Roswell Field Office can expect the well to be plugged. Failure to do so will result in enforcement action. Unless the well has been properly plugged, the rig shall not be removed from over the hole without prior approval.
- 2. <u>Notification:</u> Contact the BLM Roswell Field Office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, during office hours or after office hours call (575) 627-0205. Engineer on call during office hours phone (575) 627-0275 or phone (after hours) call (575) 626-5749.
- 3. <u>Blowout Preventers</u>: A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The minimum BOP requirement is a 2M system for a well not deeper than 9090 feet; a 3M system for a well not deeper than 13636 feet; and a 5M system for a well not deeper than 22727 feet.
- 4. <u>Mud Requirement:</u> Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at a rate of 25 sacks (50 pounds each) of gel per 100 barrels of water. Minimum nine (9) pounds per gallon.
- 5. <u>Cement Requirement:</u> Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. In lieu of a cement plug in cased hole, a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 50 feet of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient.

Unless otherwise specified in the approved procedure, the cement plug shall consist of either class "C" for up to 7500 feet of depth, mixed at 14.8 lbs./gal with 6.3 gallons of fresh water per sack or class "H" for deeper than 7500 feet plugs, mixed at 16.4 lbs./gal with 4.3 gallons of fresh water per sack.

- 6. Monument: Upon abandonment of the well, all casing shall be cut-off at the base of the cellar or 3-feet below final restored ground level (whichever is deeper). The well bore shall then be covered with a metal plate at least ¼ inch thick and welded in place. The following information shall be permanently inscribed on the dry hole marker: Well name and number, the name of the operator, the lease serial number, the surveyed location (the quarter-quarter section, township and range or other authorized survey designation acceptable to the authorized officer; such as metes and bounds).
- 7. Timing Limitation Lease Stipulation / Condition of Approval For Lesser Prairie-Chicken: Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1 through June 15 annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D seismic operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise.
- 8. <u>Subsequent Plugging Reporting:</u> Within 30 days after plugging work is completed, file one original and five copies of the Subsequent Report of Abandonment, Form 3160-5 to the BLM Roswell Field Office. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date well was plugged.**

Following the submittal and approval of the Subsequent Report of Abandonment, a Notice of Intent for Final Abandonment with the proposed surface restoration procedure must be submitted for approval.