	Form 3160-5 UNITED STATES (August 2007) DEPARTMENT OF THE INTERIO BUREAU OF LAND MANAGEME				J. Lease Serial No.	FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010			
	SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.				6. If Indian, Allottee of	6. If Indian, Allottee or Tribe Name			
	SUBMIT IN TRIPLICATE - Other instructions on page 2.				7. If Unit of CA/Agree	7. If Unit of CA/Agreement, Name and/or No.			
	1. Type of Well Oil Well X Gas Well Other				8. Well Name and No.	8. Well Name and No. Redfern 4			
	2. Name of Operator				9. API Well No.				
	3a Address 3b Dhone No. (include area and a)				10 Field and Pool or F	30-045-07441	-		
	PO Box 4289, Farmington, NM 87499			326-9700	Basin Dakota				
	4. Location of Well (Footage, Sec., T., F Surface Unit I (NE	L,M., or Survey Description) ESE), 1580' FSL & 1010' FE	L, Sec. 16, T	28N, R11W	11. Country or Parish, San Jua	State n , New Mexico			
	12. CHECK	THE APPROPRIATE BOX(ES)	TO INDICATE	NATURE OF N	NOTICE, REPORT OR	OTHER DATA			
					ACTION	TION			
	X Notice of Intent	Acidize	Deaman		Production (Start/Resume	e) Water Shut-Off			
0		Alter Casing	Fracture Treat		Reclamation	Well Integrity			
4	Subsequent Report	Casing Repair	New Construc	tion	Recomplete	Other			
	Gł	Change Plans	X Plug and Abar	don	Temporarily Abandon				
	Final Abandonment Notice	Convert to Injection	Plug Back		Water Disposal				
	determined that the site is ready for The subject well is part procedure replaces the	The subject well is part of the proposed Mangum SRC 1C P&A program agreed to with the NMOCD. The attached revised procedure replaces the procedure filed with the P&A NOI submitted on 3/31/2016.							
					to beginning	UL CONS. DIV DIST. 3			
	DI MIC ADDROUGH				perations	JUN 01 2016			
	BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND				ATTACHED FO	OR			
	OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS								
	14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)								
	Dollie L. Busse			Title Regulatory Technician					
	Signature Dallie & Busse			Date 5/16/16					
	THIS SPACE FOR FEDERAL OR STATE OFFICE USE								
	Approved by Job Farrye			Title	PE	Date 5/31/16			
	Conditions of approval, if any, are a kached. Approval of this notice does not warrant or certify hat the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.			Office	FFO				
	Title 18 U.S.C. Section 1001 and Title 43 false, fictitious or fraudulent statements of	le 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 se, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.							
	(Instruction on page 2)		INIAIC			10	Ju-		

ConocoPhillips REDFERN 4 Expense - P&A

Lat 36° 39' 33.156" N

Long 108° 0' 11.088" W

PROCEDURE

TOOL WALLS (See all set date should

This project requires the use of an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up.

Prior to commencing abandonment operations, ensure that the bradenhead valve is dug out and properly plumbed to the surface. Record the casing, intermediate and bradenhead pressures with an appropriately ranged gauge. Contact the Engineer if bradenhead pressure is present (per Exhibit "A-3").

1. Hold pre-job safety meeting. Comply with all NMOCD, BLM, and COP safety and environmental regulations. Test rig anchors prior to moving in rig. Before RU, run slickline to remove downhole equipment. If an obstruction is found, set a locking-3-slip-stop in the tubing.

2. MIRU workover rig. Check casing, tubing, and bradenhead pressures and record them in WellView. If there is pressure on the BH, contact the Wells Engineer.

3. Remove existing piping on casing valve. RU blow lines from casing valves and begin blowing down casing pressure. Kill well as necessary. Ensure well is dead or on a vacuum.

4. ND wellhead and NU BOPE. Pressure and function test BOP to 250 psi low and 1000 psi over SICP high to a maximum of 2000 psi held and charted for 10 minutes per COP Well Control Manual. PU and remove tubing hanger.

5. TOOH with tubing (pe	perunent data sneet).				
Tubing size:	2-3/8" 4.7# J-55 EUE	Set Depth:	6,062'	KB:	10'

6. PU 4-3/4" bit and watermelon mill and round trip as deep as possible above top perforation at 6013'.

7. PU 5-1/2" CR on tubing, and set at 5,982'. Pressure test tubing to 1000 psi. Sting out of CR. Load hole, and pressure test casing to 800 psi. If casing does not test, spot or tag subsequent plugs as appropriate. POOH with tubing.

8. RU wireline and run CBL with 500 psi on casing from CR at 5,982' to surface to identify TOC. Adjust plugs as necessary for new TOC. Email log copy to Wells Engineer, Troy Salyers (BLM) at tsalyers@blm.gov, and Brandon Powell (NMOCD) at brandon.powell@state.nm.us upon completion of logging operations.

All cement volumes use 100% excess outside pipe and 50' excess inside pipe. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be ASTM Class B mixed at 15.6 ppg with a 1.18 cf/sk yield.

9. Plug 1 - Dakota Perforations and Graneros Formation Top, 5882' - 5982', 17 Sacks Class B Cement

Mix 17 sx Class B cement and spot a balanced plug inside the casing to cover the Dakota Perforations and Graneros Formation top. PUH.

10. Roll the hole with water and ensure that the wellbore is in a stabilized condition with no flow of gas and/or water before spotting the next plug. If flow occurs, the fluid weight must be increased until a stabilized condition is established (per Exhibit "A-3").

11. Plug 2 - Gallup Formation Top, 5101' - 5201', 17 Sacks Class B Cement

Mix 17 sx Class B cement and spot a balanced plug inside the casing to cover the Gallup Formation top. PUH.

12. Plug 3 - Mancos Formation Top, 4224' - 4324', 17 Sacks Class B Cement

Mix 17 sx Class B cement and spot a balanced plug inside the casing to cover the Mancos Formation top. PUH.

13. Plug 4 - Mesa Verde Formation Top, 3090' - 3190', 66 Sacks Class B Cement

Contact Wells Engineer and review the CBL on the 5-1/2" CSG and pick a depth to cut and pull the 5-1/2" CSG. Estimate cutting/pulling the 5-1/2" CSG at 4,136', RIH with 6-3/4" Bit to top of 5-1/2" CSG. RU wireline and run CBL with 500 psi on casing from the 5-1/2" CSG to pto surface to identify TOC on the 7-5/8" CSG. Pressure test casing to 800 psi. If casing does not test, spot or tag subsequent plugs as appropriate. RIH and perforate 3 squeeze holes at 3,190'. Establish injection rate into squeeze holes. RIH with a 7-5/8" CR and set at 3,140'. Mix 66 sx Class B cement. Squeeze 32 sx outside the casing, leaving 34 sx inside the casing to cover the Mesa Verde Formation top. POOH.

14. Plug 5 - Pictured Cliffs Formation Top, 1532' - 1632', 34 Sacks Class B Cement

Mix 34 sx Class B cement and spot a balanced plug inside the casing to cover the Pictured Cliffs Formation top. PUH.

15. Plug 6 - Fruitland Formation Top, 1051' - 1151', 34 Sacks Class B Cement

Mix 34 sx Class B cement and spot a balanced plug inside the casing to cover the Fruitland Formation top. PUH.

16. Cease operations for 30 minutes allowing the bradenhead to be observed for pressure build. Record pressures with crystal gauge for accuracy. If pressures are observed, notify Wells Engineer and Production Engineering for path-forward discussion with NMOCD (per Exhibit "A-3").

17. Plug 7 - Kirtland and Ojo Formation Tops, 301' - 590', 170 Sacks Class B Cement RIH and perforate 3 squeeze holes at 590'. Establish injection rate into squeeze holes. RIH with a 7-5/8" CR and set at 540'. Mix 170 sx Class B cement. Squeeze 93 sx outside the casing, leaving 77 sx inside the casing to cover the Kirtland and Ojo Formation tops. POOH.

18. Plug 8 - Surface Plug , 0' - 222', 133 Sacks Class B Cement

RU WL and perforate 4 big hole charge (if available) squeeze holes at 222'. TOOH and RD wireline. Observe well for 30 minutes per BLM regulations. RU pump, close blind rams and establish circulation out bradenhead with water. Circulate BH clean. TIH with 7-5/8" CR and set at 172'. Mix 71 sx Class B cement and squeeze until good cement returns to surface out BH valve. Shut BH valve and squeeze to max 200 psi. Sting out of CR and reverse circulate cement out of tubing. TOOH and LD stinger. TIH with open ended tubing to 172'. Mix 62 sx Class B cement and pump inside plug. TOOH and LD Tubing. SI well and WOC.

19. Nipple down BOP and cut off casing below the casing flange. Install P&A marker with cement to comply with regulations. RDMO.

Conoco	Phillips	REDF	ERN #4			
District	Field Name	APLIUWI	County		State/Provinc	e
ORTH Driginal Soud Date	DK Surface Legal Location	3004507441 East/West Distance (ft)	SAN JUAN East/West Reference	North/South Distance	NEW MEXIC	O iouth Reference
7/10/1958	016-028N-011W-I	1,010.0	FEL	1.5	80.00 FSL	
		Vertical - Original Hol	a 3/9/2016 9-13-08 ∆M		_	
		Vertical schematic (actual)	e, 3/3/2010 3. 15.00 /44		MD (ftKB)	Formation Top
and the second designed				and the second	9.8	
1; Surface; 10 3/4 in	n; 10.192 in; 10.0 ftKB;		Surface Casing Cement; 10.0-171 7/10/1958: Cemented w/150 sxs r	ent; 10.0-171.7; w/150 sxs reg	171.6	
	1/1./ 1065		TOC to surface using	TOC to surface using 75% eff. calc.		
					350.1	OJO ALAMO
					540.0	KIRTLAND
					780.8	FARMINGTON
		-			881.9	
					1,100.1	FRUITLAND
			Intermediate Casing	Cement 882.0-	1,582.0	PICTURED CLI.
			1,707.0; 7/26/1958; 2nd	d stage cemented	1,707.0	
			eff. calc.		2,138.1	CLARERA LAV.
Tubing; 2 3/8 in; 4.6	0 lb/ft; J-55; 10.0 ftKB; 6 051 0 ftKB				3,140.1	CLIFF HOUSE
	0,001,01440				3,259.8	MENEFEE
		160			3,349.1	
				Cement; 3,349.0- st stage cemented 348.98 using 75%	3,930.1	POINT LOOKO.
			Intermediate Casing (4,148,3	
2; Intermediate1;	ntermediate1; 7 5/8 in; 6.969 in; 10.0 ftKB; 4,173.0 ftKB		4,173.0; 7/26/1958; 1si w/200 sxs. TOC @ 33 eff. calc.		4,172.9	
					4,174.9	
					4,273.9	MANCOS
					5,150.9	GALLUP
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			*******	5,561.0	SANASTEE
					5,919.9	GREENHORN
					5,982.0	GRANEROS S.
		TTY ITT			6,013.1	
Graneros: 6.01	3.0-6.029.0: 8/19/1958				6,023.0	DAKOTA
					6,028.9	
					6,045.9	
Seating Nipple; 2	3/8 in; 4.60 lb/ft; J-55;				6,061.0	
Dakota: 6.04	51.0 ftKB: 6.062.0 ftKB 6.0-6.110.0: 4/23/1974				6,062.0	
					6,097.1	
Upper Dakota: 6.09	7.0-6.134.0: 8/19/1958				6,109.9	
				_	6,133.9	
Cement Ret	ainer: 6.140.0-6.146.0	1 11	Cement Sources C 11	530.51950	6,140.1	
to entern (tot			4/5/1974; 25 sxs pum	ped, est. that 14 cu	6,146.0	
Lower Dakota: 6 153	3.0-6.196.0: 8/19/1958		Cement Plug: 6,146.0	-6,196.0; 4/5/1974;1	6,152.9	
	ALL STORES OF AN LONG		Estimated 6 cu. ft. left	in casing from 25	6,195.9	1.1.1
2: Descharting	E 1/2 los 4 050 los 40 0		Production Casino Co	ement; 4,1462-	6,232.0	MORRISON
s; Production1;	ftKB; 6,266.0 ftKB		6,266.0; 8/16/1958; Ce	mented w/150 sxs.	6,266.1	
			[100 tg/4140.24 USING	acco canto	6,270.0	
		5000000000000	Display Cement Fill; E	,208.0-8,275.0	6.274.9	

ConocoP	hillips	Schematic - Pr REDFERN	oposed #4		
District	Field Name	API/UWI 3004507441	County SAN IIIAN	State/Pr	ovince
Driginal Spud Date 7/10/1958	Surf Loc 016-028N-011W-I	East/West Distance (ft) East/ 1,010.00 FEL	West Reference N/S Dist (	n) Nor 1,580.00 FSI	th/South Reference
	Ve	rtical - Original Hole, 1/1	/2020 7:30:00 AM		
	Ve	ertical schematic (actual)		MD (ftKB)	Formation Top
1; Surface; 10 3 10.0 ft	/4 in; 10.192 in; KB; 171.7 ftKB	P S 77	ug #8; 10.0-222.0; 1/1/2020 unface Casing Cament; 10.0-171. 10/1958; Camented w150 sxs re	7: g. TOC 173.9	
Cement Retain	PERFS; 222.0;		surface using 75% eff. calc. ug #8; 10.0-222.0; 1/1/2020; Mbr lass B omt and agr until good omt	71 sx returns ts0.0	
Cement Retain	1/1/2020		surface out BH valve. Mix 62 ax nt and pump inside plug ug #7: 301.0-590.0; 1/1/2020	540.0	OJO ALAMO KIRTLAND
SQUEEZE	PERFS; 590.0; 1/1/2020		ass B ont. Sqz 95 sx outside the aving 77 sx inside the csg to cove rtland and Ojo tops	csg, sr the 559.9	FARMINGTON
			ug #5; 1,051.0-1,151.0; 1/1/2020 : Class B cmt and spot a balanced side the csg to cover the Fruitland	1; Mix 34 1 plug 1 too	FRUITLAND
			ug #5: 1,532.0-1,632.0: 1/1/2020 : Cass B omt and spot a balance: side the cag to cover the PC too termediate Casing Cement: 882.0	t,631.9	PICTURED C.
Cement Re	tainer, 3, 140.0-		707.0: 7/20/1958: 2nd stage cem 200 sxs, TOC @ 2524.96 using 7 lb. ug #4: 3.090.0-3.190.0: 1/1/2020	ented 5% eff. 3.089.9	CLARERA LA
SQUEEZE P	3,142.0 ERFS; 3,190.0; 1/1/2020		ug #4: 3.090.0-3.190.0: 1/1/2020 Class B cmt, sqz 32 sx outside th aving 34 sx inside the csg to cove	: Moc 65 a csg. r the 3,259.8	MENEFEE
				3,530.1	POINT LOOK.
2; Intermediate1; in; 10.0 ftKi	; 7 5/8 in; 6.969 B; 4,173.0 ftKB		termadists Cssing Cement; 3,349 173.0; 7/26/1958; 1st stage ceme 200 axs. TOC @ 3348.98 using 7 lo.	1.0- 4,171.9 5% eff. 4,174.9	
			ug #3; 4,224.0-4,324.0; 1/1/2020 Class B omt and spot a balanced side the csg to cover the Mancos	: Mix: 17 4,273.9 I plug too 5,101.0	MANCOS
			ug #2; 5,101.0-5,201.0; 1/1/2020 Class B omt and spot s balanced side the osg to opver the Galuo to	: Mix 17 I plug 5.201.1	GALLUP
Cement Re	tainer, 5,982.0- 5,984.0		ug #1: 5,882.0-5,982.0: 1/1/2020 Class B cmt and spot a balanced side the csg to cover the DK perfs	: Mix 17 5.982.0	GREENHORN GRANEROS
Dakota; 6	8/19/1958		angros lop	6,013.1	DAKOTA
Upper Dakota; 6	4/23/19/4 5,097.0-6,134.0; 8/19/1958		mani Causawa- 5 453 5 5 105 A	6,097.1	
Cement Re Lower Dakota: 6	6,146.0 6,153.0-6,196.0;		5/1974; 25 axs pumped, est. that went into formation. Iment Plug: 6,146.0-6,196.0; 4/5/	14 cu. 6,146.0	
3: Production1: 5	8/19/1958	C	Einsted 6 cu. ft. left in casing from ass A cumped. oduction Casing Cement: 4,146.2 265.0; 8/15/1958: Cemented w/1	6,255.1 50 535	MORRISON
4,136.0 ftKI	B; 6,266.0 ftKB		DC @ 4145.24 using 75% eff. calc splay Cament Filt, 5,255.0-5,275.0 15/1958	6,270.0	1

### Exhibit "A-3"

To Final Agreement - Withdrawal of Notice of Violation (3-15-02) dated May 4, 2016 from ConocoPhillips Company to NMOCD

### **Updated Abandonment Procedures**

The following procedural changes will be required for the P&A Program:

- 1) Prior to commencing abandonment operations, ensure that the bradenhead valve is dug out and property plumbed to the surface. Record the casing, intermediate and bradenhead pressures with an appropriately ranged gauge. Contact the Engineer if bradenhead pressure is present. After the last set of completion perforations are abandoned with cement, roll the hole with water and ensure that the wellbore is in a stabilized condition with no flow of gas and/or water before spotting the next plug. If flow occurs, the fluid weight must be increased until a stabilized condition is established.
- Following the plug over the Fruitland Formation Top, and prior to the plug over the Kirtland and Ojo Alamo Tops.
  - Operations will cease for 30 minutes allowing the Bradenhead to be observed for pressure build.
  - b. Pressures will be recorded with a crystal gauge for accuracy.
  - c. If pressures are observed, notify Wells Engineer and Production Engineering for path-forward discussion with NMOCD.
- 3) Within 24 hours of the abandonment and after two weeks, BLM will check for the presence of gas at the base of the dry hole marker and at the weep hole. Note ambient weather conditions when recording the results. If gas is detected, contact the Engineer.
- 4) If a Cathodic Protection well is on the well pad, check for the presence of gas at the vent cap. If gas is present, record results in AFMSS and contact the Engineer.

Note: when checking any sample point for the presence of gas, please be prepared for the possibility of anomalous pressure and the H2S gas.

# 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: Redfern 4

# 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 #1 (5963-5863) ft. to cover the Dakota Perforations and Graneros Formation top. BLM picks top of perforations at 6013 ft.
- b) Set plug #3 (4304-4204) ft. to cover the Mancos Formation top. BLM picks top of Mancos at 4254 ft.
- c) Set plug #4 (3150-3050) ft. inside/outside to cover the Mesa Verde Formation top. BLM picks top of Cliff House at 3100 ft.
- d) Set plug #6 (1331-1231) ft. to cover the Fruitland Formation top. BLM picks top of Fruitland at 1281 ft.

# Operator will run CBL from CR @ 5,963 ft. to surface to identify TOC.

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.