## State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez

Governor

David Martin
Cabinet Secretary-Designate

Jami Bailey, Division Director Oil Conservation Division



Brett F. Woods, Ph.D. Deputy Cabinet Secretary

New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-4 or 3160-5 form.

Operator Signature Date: 5/21/13

### Well information:

API WELL#	Well Name	Well #	Operator Name	Туре	Stat	County	Surf_Owner	UL	Sec	Twp	N/S	Rng	W/E
			CONOCOPHILLIPS	G		Rio	F	L	28	24	N	3	W
00-00	UNIT		COMPANY			Arriba							1

Conditions of Approval:

Extend the Mancos plug up to 5220'

JUL 0 9 2013

NMOCD Approved by Signature

Date

Form 3160-5 (August 2007)

## **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

MAY 21 2012

Į٥.	. Lease	Serial	No.	
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SUN	IDRY NOTICES AND REP	ORTS ON WELL STON	Field '	6. If Indian, Allottee or Tribe	Name			
Do not us	e this form for proposals	to drill or to ne-enter a	n IVIAN	l Harmen				
abandoned	well. Use Form 3160-3 (A	APD) for such proposa	ls.					
SI	JBMIT IN TRIPLICATE - Other ins	structions on page 2.		7. If Unit of CA/Agreement, 1	Name and/or No.			
I. Type of Well		Lindrith B Unit						
Oil Well	X Gas Well Other			8. Well Name and No.				
<u> </u>		Lindrith B Unit 2						
2. Name of Operator				9. API Well No.				
- <u></u>	ConocoPhillips Comp				039-22138			
3a. Address		3b. Phone No. (include area co		10. Field and Pool or Exploratory Area				
PO Box 4289, Farmingt	on, NM 87499	(505) 326-9700	)	West Lindrith Gallup Dakota				
4. Location of Well (Footage, Sec., T., F Surface Unit L (N	R.,M., or Survey Description) WSW), 1739' FSL & 861' F	WI Sec 28 T24N R3	evar .	11. Country or Parish, State  Rio Arriba	, New Mexico			
Ouridoc Onic 2 (14	110010, 1100 102 0001 1	10 L, 000. Lo, 12-10, 10	, , ,	i i i i i i i i i i i i i i i i i i i	, INCAN INCAIGO			
12. CHECK	THE APPROPRIATE BOX(ES	) TO INDICATE NATURE	OF NO	TICE, REPORT OR OTH	IER DATA			
TYPE OF SUBMISSION		TYPE	OF AC	TION				
X Notice of Intent	Acidize	Deepen	Р	Production (Start/Resume) Water Shut-Off				
	Alter Casing	Fracture Treat	ΠR	eclamation	Well Integrity			
Subsequent Report	Casing Repair	New Construction	⊢⊓R	ecomplete	Other			
	Change Plans	X Plug and Abandon	=	emporarily Abandon	—			
Final Abandonment Notice	Convert to Injection	Plug Back	==	Vater Disposal	<u></u>			
13. Describe Proposed or Completed Or	<u> </u>		<u> </u>		mate duration thereof			
If the proposal is to deepen direction Attach the bond under which the value following completion of the involve	onally or recomplete horizontally, give work will be performed or provide the wed operations. If the operation results I Abandonment Notices must be filed	e subsurface locations and measur Bond No. on file with BLM/BIA. s in a multiple completion or reco	red and tr Require impletion	ue vertical depths of all pertino d subsequent reports must be f in a new interval, a Form 3160	ent markers and zones. Tiled within 30 days 0-4 must be filed once			
ConocoPhillips reques schematics.	ts permission to P&A the	subject well per the at	ttached	d procedure, current	and proposed wellbore			
					CVD JUN 4'13 IL CONS. DIV. DIST. 3			
		N	-wiort	MOCD 24 hrs o beginning erations				

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Staff Regulatory Technician Dollie L. Busse Date Signature THIS SPACE FOR FEDERAL OR STATE OFFICE USE Approved by MAY 2 3 2013 Original Signed: Stephen Mason Title

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.

Office

entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify

that the applicant holds legal or equitable title to those rights in the subject lease which would

## ConocoPhillips **LINDRITH B UNIT 2**

Expense - P&A

Lat 36° 16' 44.04" N

Long 107° 10' 2.568" W

#### **PROCEDURE**

Note: This project requires a NMOCD C-144 CLEZ Closed-Loop System Permit for the use of a steel tank to handle waste fluids circulated from the well and cement wash up. 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 Type II (Class B) mixed at 15.6 ppg with a 1.18 cf/sk yield.

- 1. Hold pre-job safety meeting. Comply with all NMOCD, BLM, and COPC safety and environmental regulations. Test rig anchors prior to moving in
- 2. MIRU workover rig. Check casing, tubing, intermediate, and bradenhead pressures and record them in Wellview.
- 3. When an existing primary valve (i.e. casing valve) is to be used, the existing piping should be removed and replaced with the appropriate piping for the intended operation.
- 4. Load the bradenhead and pressure test to 500 psi. Please call engineer with results.
- 5. RU blow lines from casing valves and begin blowing down casing pressure. Kill well with water, if necessary.
- 6. Unseat pump and TOOH with rods.
- 7. ND wellhead, release tubing anchor if needed (February 2013 workover reported that the tubing anchor did not set) and NU BOPE. Pressure test and function test BOP. PU and remove tubing hanger.
- 8. TOOH with 2-3/8" tubing (per pertinent data sheet). Note: Hole in tubing discovered in February 2013. PU mill and bit sub for 4-1/2" 11.6# casing and run to 7133', or as deep as possible. POOH.

Rods:	Yes	Size:	3/4" (1-1/4" sinker	Length:	7377'	
			bars)			
Tubing:	Yes	Size:	2-3/8"	Length:	7407'	
Packer:	No	Size:		Depth:		
Tubing Anchor:	Yes	Size:	4-1/2"	Depth:	6167'	*ANCHOR WAS NEVER SET

- 9. Plug 1 (Dakota Perforations, Dakota Formation Top, and Graneros Formation Top, 7083' 6983', 12 Sacks Class B Cement): PU cement retainer for 4-1/2" 11.6# casing and set at 7083'. Mix 12 sx Class B cement and spot inside the casing above CR to isolate the Dakota perforations, Dakota formation top and the Graneros formation top. POOH.
- 10. Plug 2 (Gallup Formation Top, 6142' 6042', 12 Sacks Class B Cement): PU cement retainer for 4-1/2" 11.6# casing and set at 6142'. Pressure test tubing to 1000 psi. Pressure test casing to 600 psi. If casing does not test, then spot and tag subsequent plugs as necessary. Mix 12 sx Class B cement and spot inside the casing above CR to isolate the Gallup perforations and the Gallup formation top. PUH.
- 11. Plug 3 (Mancos Formation Top, 5467' 5367', 12 Sacks Class B Cement): Mix 12 sx Class B cement and spot a balanced plug inside casing to isolate the Mancos formation top. POOH.

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- 12. Plug 4 (Mesa Verde Formation Top, 4697' 4507', 51 Sacks Class B Cement): Perforate 3 HSC holes at 4607'. PU cement retainer for 4-1/2" 11.6# casing and set at 4557'. Establish injection rate into squeeze holes. Mix 51 sx Class B cement. Squeeze 39 sx into holes and leave 12 sx inside casing to isolate the Mesa Verde formation top. POOH.
- 13. Plug 5 (Intermediate Casing Shoe, 3902' 3802', 52 Sacks Class B Cement): Perforate 3 HSC holes at 3902'. PU cement retainer for 4-1/2" 11.6# casing and set at 3852'. Establish injection rate into squeeze holes. Mix 52 sx Class B cement. Squeeze 40 sx into holes and leave 12 sx inside casing to isolate the Intermediate casing shoe. POOH.
- 14. Important: Load the production-intermediate annulus and pressure test to 500 psi. Please call engineer with results. If annulus tests, proceed with remainder of procedure. If annulus does not test, plan on cutting production casing and modifying the procedure.
- 15. Plug 6 (Pictured Cliffs, Fruitland, and Ojo Alamo Formation Tops, 3030' 2456', 171 Sacks Class B Cement): Perforate 3 HSC holes at 3030', PU cement retainer for 4-1/2" 10.5# casing and set at 2980'. Establish injection rate into squeeze holes, Mix 171 sx Class B cement, Squeeze 123 sx into holes and leave 48 sx inside casing to isolate the Pictured Cliffs, Fruitland, and Ojo Alamo formation tops. POOH.

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  16. Plug 7 (Nacimiento Formation Top, 1371' 1274', 44 Sacks Class B Cement): Perforate 3 HSC holes at 1374'. PU cement retainer for 4-1/2" 10.5# casing and set at 1321. Establish injection rate into squeeze holes. Mix 44 sx Class B cement. Squeeze 32 sx into holes and leave 12 sx inside casing to isolate the Nacimiento formation tops. POOH.
- 17. Plug 8 (Surface Casing Shoe, 520' 420', 44 Sacks Class B Cement): Perforate 3 HSC holes at 520'. PU cement retainer for 4-1/2" 10.5# casing and set at 470'. Establish injection rate into squeeze holes. Mix 44 sx Class B cement. Squeeze 32 sx into HSC holes and leave 12 sx inside casing to isolate the Surface casing shoe. POOH.
- 18. Plug 9 (Surface Plug, 50' Surface, 29 Sacks Class B Cement): Perforate 3 HSC holes at 50'. Establish circulation out the bradenhead with water and circulate BH annulus clean. Mix 29 sx Class B cement and pump down production casing to circulate good cement out production and intermediate casing annulus. Shut in 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. Rig down, move off location, cut off anchors, and restore location.

Current Schematic - Version 3												
CONOCOPHILIPS Well Name: LINDRITH B UNIT #2												
AF1/UVII 30039221	   38	Surface Legal Location NMPM-24N-03VV-28-L	Field Name		* -	Lice use h	lo.	State/Prouted NEVV MEX		Vertice	ngeration Type	Edit
Ground Eleis		Original KB/RT Eleuation (f) 7,013.00		KII-Grou		12.00		KII-Carlig Flange Dis			iblig Haiger Distaice (f) 7,013.00	
		Well	Config	Verti	cal - C	Original	Hole 4/	8/2013 2:49:5	52 PM			
ftKB	-										Era Final	ŀ
(MD) 10			~	Scne	matic -	Actual	· Dollahad	Rod, 22.0ft			Frm Final	
·			1111221	}			Pony Roc	s 2'-6'-8', 16:0f				<b>.</b>
12								Casing Cement, 1 d with 500 sx Cla		979,		·
29			1919	Ш		107	Circulate	d to surface.				
470	·						SURFAC ftKB, 470	E CASING, 13 3/ I fikB	3in, 12.715in, 12	₹ -		
1,321		., ,				1	<del>-</del>				NACIMIENTO, 1	,321 —
2,506			—a			<b> </b> -					- OJO ALAMO, 2	^~~ II
2,980	Tubing, 2	3/8in, 4.70lbs/ft, J-55,				ļ,		od, 7,125.0ft ate Casing Ceme	nd 12 2 852	_	PICTURED CLI	
3,334		12 flKB, 6,131 flKB					- 1MM980	, Cemented with	650 sx Howco	Lite,	HUERFANIT BENTONITE, 3	·
3,830			/3			·		d with 100 sx Cla d to surface.	ass B cement.		CHACRA, 3,8	
3,852						··/·	INTERME	DIATE CASINO, 6	3 5/8in, 7.921in,	12		ľ
4,557					ع ا	J.	ftKB, 3,8	52 HKH .			CLIFF HOUSE,	4 557
111								· · · · · · · · · · · · · · · · · ·			MENEFEE, 4,	617
5,091	Marker .lt 2	3/8in, 4.70lbs/ft, J-55,					•				- POINT LOOKOUT	, 5,091
5,417	e	131 ftkB 6,133 ftkB									MANCOS, 5	417
6,133		3/8in, 4.70lbs/ft, J-55, 5,133 ftKB, 6,164 ftKB	<u> </u>					•			GALLUP. 6.1	62
6,164	Anchor/c	atcher, 3 1/2in, 6,164 - ftKB, 6,167 ftKB	-		40.		٠					
6,192	-	IIKD, 0,107 IIKD	R.	411	1		PERF - C	ALLUP, 6,192-6	416, 1/23/2012	1		
6,361			[	<b>#</b>	<b>探·</b>		PERF - C	ALLUP, 6,360-6	361,12 <i>/</i> 22 <i>/</i> 201	1]		
7,066		3/8in, 4.70lbs/ft, J-55, 3,167 ftKB, 7,361 ftKB		#11	114	" ~~~	ممتم			· ·	GREENHORN,	7,066
7,133											GRANEROS, 7	120
7,143	<u> </u>				1	1			.,		——DAKOTA, 7,	137
7 173				71	TATE			•	-			
-	F-Nippi	e, 2 3/8in, 7,361 ftKB,	N T	4	1		∸Sinker B	ar, 200.0ft				
7,259	SAND SCRE	7,362 ftKB EN, 2 3/8in, 4.70lbs/ft,		<b>4</b>	14.	<b></b>		AKOTA, 7,133-7	,540, 2 <i>n</i> 4 <i>n</i> 980	j		·.
7,349	J-55, 7	7,362 ftKB, 7,371 ftKB \\	]		11	<u> </u>		oupling, 0.4ft				
7,354		oing Pup Joint, 2 3/8in   \\ -55, 7,371 ftKB, 7,372 \\	Æ	AH.	114			ony Rod, 8.0ft				
7,362		n, 2 3/8in, J-55, 7,372	<u></u>		14	∥ ;		rt Pump, 14.0ft				· · · [
7,370	<u> </u>	ftKB, 7,396 ftKB \	- 1		1	# <del></del> /		chor/Dip Tube, 1. PLUG, 7,485-7,5		<u>.</u> .		
7 376		oing Pup Joint, 2 3/8in, \ -55, 7,396 ftKB, 7,406 \	-			<u>  </u> -/		Squeeze, 7,536- ed lower Dakota				
7,396		fikB	\   - \   -	閉步	10		7540' w	th 50 sx Class B	cement.			: ' <b> </b>
7,406	Buil Plu	ig, 2 3/8in, 7,406 ftKB, 7,407 ftKB			排	:::::		PLUG, 7,510-7,5 ement, 5,340-7,				
7,507	Cement	PBTD, 7,485 Retainer, 7,507-7,510,			7		Cemente	d with 100 sx H	owco Lite, and			
111		Dakota perfs 7536-40				1	∫through	) sx Class B cerr the DV tool @ 63	375' with 300 s>	<		
7,536					NA KAR	11		Lite, and 50 sx C by CBL dated 1		TOC		
7,570	·				31	/.	PRODUC	TION CASING, 4	.1/2in, 4.000in,	12	¦	
7,600		TD, 7,600, 1/16/1980		Z-41.7.	- A-CI	<i></i>	ftKB, 7,6	000 ftKB				<u> </u>
İ						Pag	e 1/I				Report Printed:	4/18/2013

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**Proposed Schematic** ConocoPhillips Well Name: LINDRITH B UNIT #2 Ctate. Proclace Aeli Configuration Type API/UAI Surface Legist Location Field Hans Libease No Edit NMPM-24N-03VV-28-L 3003922138 NEW MEXICO Vertical b-Tulling Hanger Olymore 179 Beraung Finge Die troce of 6 Gigand Distance of 7,001.00 7,013.00 12.00 7.013.00 7.013.00 Well Config: Vertical - Original Hole, 1/1/2020 ftKB Frm Final Schematic - Actual (MD) -10 . . . . . . . . Plug #9, 12-50, 1/1/2020 Mix 29 sx Class B 12 cement and pump down production casing to 29 SQUEEZE PERFS, 50, 1/1/2020]circulate good cement out production and intermediate casing annulus. Surface Casing Cement, 12-470, 12/23/1979, SURFACE CASING, 13 3/8in, 420 12.715in, 12 ftkB, 470 ftkB Cemented with 500 sx Class B cement. 470 Cement Retainer, 470-471 Circulated to surface.
Plug #8, 420-520, 1/1/2020, Mix 44 sx Class B
cement, squeeze 32 sx behind casing and leave 480 SQUEEZE PERFS, 520, 1/1/2020 1,271 12 secinside to isolate the surface casing shoe. Cement Retainer, 1,321-1,322 SQUEEZE PERFS, 1,371, 1/1/2020 NACIMIENTO, 1,321 1,322 Plug #8, 420-520, 1/1/2020 2,421 B cement, squeeze 32 sx behind casing and 2,506 OJO ALAMO, 2,506 leave 12 sx inside to isolate the Nacimiento formation top.
Plug #7, 1,271-1,371, 1/1/2020
Plug #8, 2,456-3,030, 1/1/2020, Mix 171 sx 2,980 Cement Retainer, 2,980-2,981 SQUEEZE PERFS, 3,030, 1/1/2020 2,980 3,030 Class B coment, squeeze 123 sx behind casing INTERMEDIATE CASING, 8 5/8in and leave 48 sc inside to Isolate the Pictured Cliffs, Fruitland, and Ojo Alamo formation tops.
Plug #6, 2,456-3,030, 1/1/2020
Intermediate Casing Cement, 12-3,852, 3,802 7.921in, 12 ftKB, 3,852 ftKB 3,852 Cement Retainer, 3,852-3,853 3,856 SQUEEZE PERFS, 3,902-3,903, 1/1/1980, Cemented with 850 & Howco Lite. 4,507 1/1/2020 and tailed with 100 sx Class B coment. MESAVERDE, 4,557 Cement Retainer, 4,557-4,558 4,558 Circulated to surface.
Plug #5, 3,802-3,902, 1/1/2020, Mix 52 sx Class SQUEEZE PERFS, 4,607, 1/1/2020 5,340 B coment, squeeze 40 sx behind casing and leave 12 sx inside to isolate the Intermediate 5,417 MANCOS, 5,417 ossing shoe. Plug #5, 3,802-3,902, 1/1/2020 Plug #4, 4,507-4,807, 1/1/2020 6,042 6,133 Plug #4, 4,507-4,807, 1/1/2020, Mix 51 sx Class Cement Retainer, 6,142-6,143 B cement, squeeze 39 sx behind casing and B.143 GALLUP, 6,162 leave 12 ex inside to isolate the Mesaverde PERF - GALLUP, 6,192-6,416 6.164 formation top. Plug #3, 5,367-5,467, 1/1/2020, Mix 12 sx Class 1/23/2012 6.192 PERF - GALLUP 6 360-6 361 ß B cement and spot a balanced olug inside 12/22/2011 casing to isolate the Mancos formation top.
Plug #2, 8,042-8,142, 1/1/2020, Mix 12 ex Class 6.983 GREENHORN, 7,068 7,083 Cement Retainer, 7,083-7,084 A cement and spot inside the casing above CR 7,120 GRANEROS, 7,120 to isolate the Gallup perforations and Gallup formation top. Plug #1, 6,983-7,083, 1/1/2020, Mix 12 sx Class 7,137 -DAKOTA, 7,137 -PERF - DAKOTA, 7,133-7,540, 7,154 . . . . . . B'cement and spot inside the casing above CR' to isolate the Dakota perforations, Dakota 2/14/1980 7,354 formation top and the Graneros formation top 7,361 7,362 CEMENT PLUG, 7,485-7,507, 2/28/1990 Cement Squeeze, 7,538-7,540, 2/28/1990, 7.372 7.377 Squeezed lower Dakota perfs from 7536 - 7540' with 50 sx Class B cement. CEMENT PLUG, 7,510-7,570, 2/28/1980 Casing cement, 5,340-7,600, 1/18/1980, 7,406 PBTD, 7,485 Cement Retainer, 7,507-7,510, 7,485 Cemented with 100 sx Howco Lite, and tailed 7,510 Abandon Dakota perfs 7536-40 with 200 sx Class B cement. Then cemented 7,540 PRODUCTION CASING, 4 1/2in, through the DV tool @6375' with 300 sx Howc 4.000in, 12 ftKB; 7,600 ftKB TD, 7,600, 1,16,1960 Lite, and 50 sx Class B cement. TOC @ 5340' 7,599 by CBL dated 12/18/2011. Report Printed: 4/19/2013 Page 1/1

# 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: 2 Lindrith B Unit

## **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) Place the Measverde plug from 4634' 4534' inside and outside the 4 1/2" casing.
- b) Place the Nacimiento plug from 1274'- 1174' inside and outside the 4 1/2" casing.

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.