

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER 1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.
2. Name of Operator		9. API Well No. 30-015-48585
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
13. State		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|---|---|
| 1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM. |
|---|---|

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		
Office		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
 Conditions of approval, if any, are attached.

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.

(Continued on page 2)

*(Instructions on page 2)



District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code 98081	³ Pool Name Zia Hills; Wolfcamp
⁴ Property Code	⁵ Property Name ZHU 2331 WC		⁶ Well Number 5H
⁷ OGRID No. 217817	⁸ Operator Name ConocoPhillips Company		⁹ Elevation 3180.0'

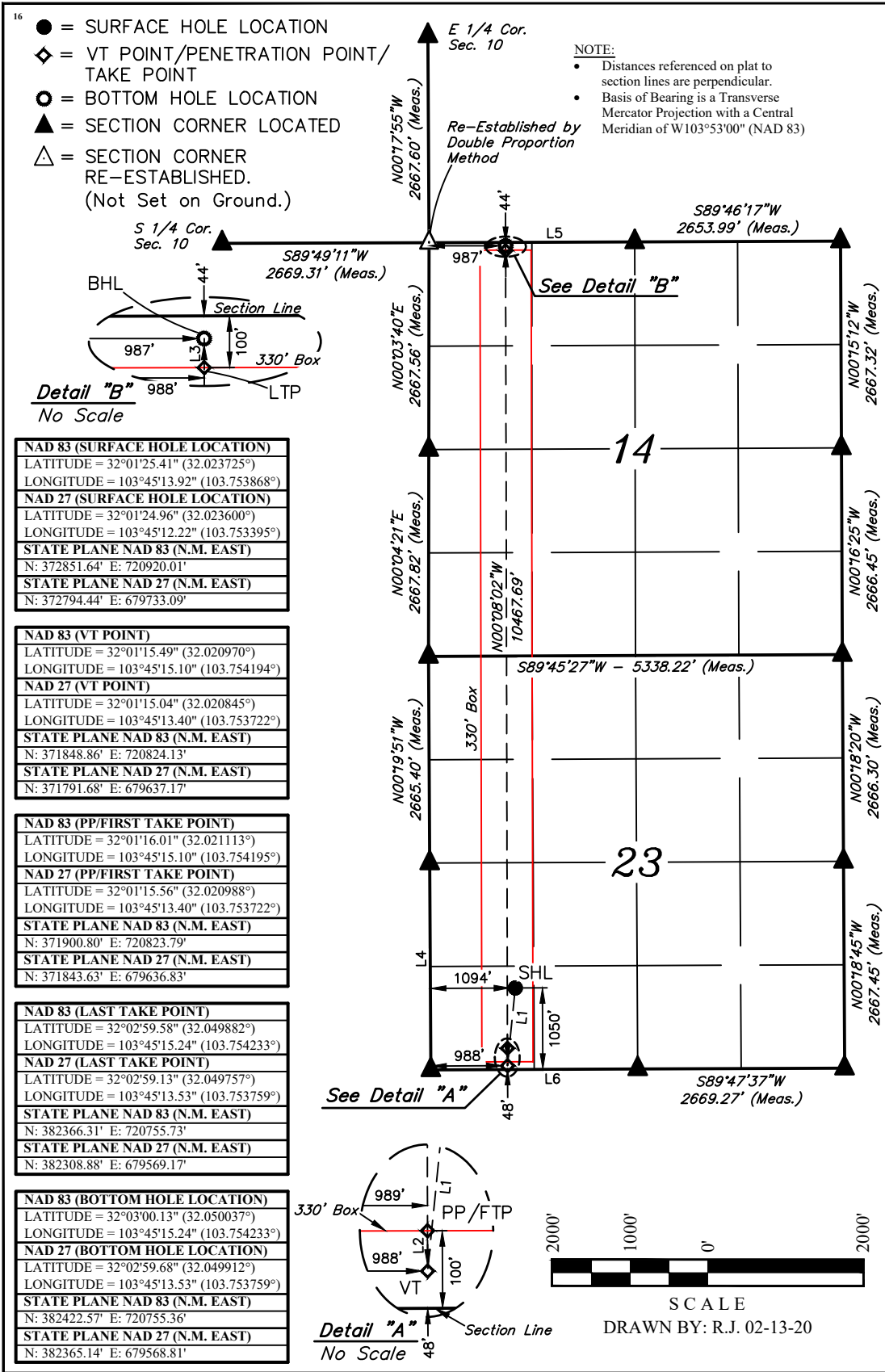
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	23	26S	31E		1050	SOUTH	1094	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	14	26S	31E		44	NORTH	987	WEST	EDDY
¹² Dedicated Acres 0 640		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



¹⁷ OPERATOR
CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Jeremy Lee* Date: 3/20/20

Printed Name: Jeremy Lee

E-mail Address: Jeremy.L.Lee@cop.com

¹⁸ SURVEYOR
CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

October 03, 2019

Date of Survey

Signature and Seal of Professional Surveyor:

PAUL BUCHELE
NEW MEXICO
23782
02-13-20
PROFESSIONAL SURVEYOR

Certificate Number:

Infill Horizontal Well

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S05°42'02"W	1007.54'
L2	N00°08'03"W	51.96'
L3	N00°08'02"W	56.27'
L4	N00°18'55"W	2667.69'
L5	N89°46'35"E	2653.48'
L6	S89°44'08"W	2667.65'

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: _____ **OGRID:** _____ **Date:** ____/____/____

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D

IV. Central Delivery Point Name: _____ [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date

VI. Separation Equipment: ☐ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☐ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☐ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☐ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☐ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

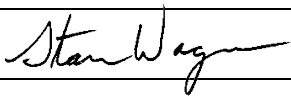
(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

Page 8

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: 
Printed Name:
Title: Regulatory Advisor
E-mail Address:
Date:
Phone: 432-253-9685
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

All ConocoPhillips production facility equipment will be sized per industry standards (API 12J) with adequate retention time to effectively separate all phases of production. Each project will take into consideration the number of wells and type curves for each formation pool to ensure adequate facility capacity. Design considerations will also include review of all piping, tanks, VRU's and associated equipment to ensure optimized gas capture minimized risk of release.

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

- During drilling, flare stacks will be located a minimum of 100 feet from the nearest surface hole location. All gas is captured or combusted. If an emergency or malfunction occurs, gas will be flared or vented for public health, safety, and the environment and be properly reported to the NMOCD pursuant to 19.15.27.8.G.
- Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.

C. Completion Operations

- During completion operations, operator does not produce oil or gas but maintains adequate well control through completion operations.
- Individual well test separators will be set to properly separate gas and liquids. A temporary test separator will be utilized initially to process volumes. In addition, separators will be tied into flowback tanks which will be tied into the gas processing equipment for sales down a pipeline.

D. Venting and flaring during production operations

- During each phase of well life (drilling, completion and production) of a ConocoPhillips well, COP personnel will follow all necessary procedures to ensure both the operation and the equipment are within the NMAC 19.15.27.8 Subsection D guidelines.
- During well operations that require unloading of the well to atmospheric pressure, all reasonable actions will be taken to minimize vented gas
- Through the life of the well all flaring shall be measured, and venting events quantified using the data available and industry best practice.

E. Performance standards for separation, storage tank and flare equipment

- All storage tanks and separation equipment are designed minimize risk of liquid or vapor release and optimize gas capture. This includes automation for automatic gauging and pressure monitoring.

- All flare stacks are equipped with auto ignition devices and/or continuous pilots and are designed to operate at maximum combustion efficiency pursuant NMAC 19.15.27.8 Subsection E. Flares will follow COP spacing guidelines to ensure they are a safe distance from combustibles and operations equipment.
- COP personnel will conduct routine AVO inspections on a regular basis per NMAC 19.15.27.8 Subsection E guidelines.

F. Measurement of vented and flared natural gas.

- Measurement equipment will be installed to quantify gas flared during drilling, completion and production of the well.
- All measurement devices installed will meet accuracy ratings per AGA and API standards.
- Measurement devices will be installed without manifolds that allow diversion of gas around the metering element, except for the sole purpose of inspection of servicing the measurement device.

VIII. Best Management Practices

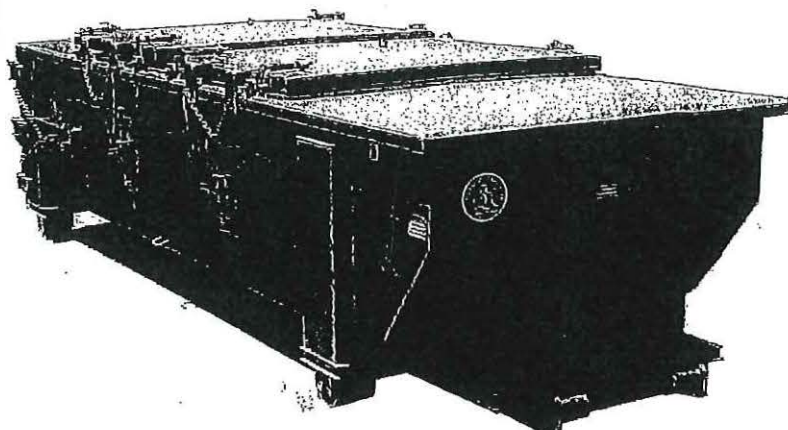
- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize blowdowns to atmosphere
- When feasible, Operator will use electric or air actuated equipment to reduce bleed emissions

WELL PLAN SUMMARY 1280 Extended Reach Single Lateral Date: Aug 11, 2020 Version: 1 Prepared by: M. Callahan																																																																																																											
WELL: ZHU 2331 WC 5H SURFACE LOC: Sec 23 T26S R31E 1050' FSL 1094' FWL BH LOC: Sec 14 T26S R31E 44' FNL 987' FWL					COUNTY, STATE: Eddy, Co, NM API No.: TRRC Permit: BLM Permit:					AFE: WAF.OND. Drilling Network No.: Invoice Handler ID: VENNECP COST ESTIMATE DRILLING COMPLETION FACILITIES TOTAL																																																																																																	
ELEVATIONS: GL 3,180.0' KB +30.5'					WH Coord.: LAT 32° 1' 24.96" N (NAD-27) LON 103° 45' 12.22" W																																																																																																						
										FORMATION TOP: TVD SUBSEA Quaternary Fill 0 3,180 Base of Fresh Water 300 2,880 Fresh Water Rustler 786 2,394 Fresh Water Top of Salt 956 2,224 Salt Castile 1,946 1,234 Salt Delaware Base of Salt 4,078 (898) Gas / Oil Ford Shale 4,098 (918) Cherry Canyon 5,066 (1,886) Gas / Oil Brushy Canyon 6,380 (3,200) Gas / Oil Bone Springs 7,829 (4,649) Gas / Oil Bone Springs 1st Sand 9,039 (5,859) Gas / Oil Bone Springs 2nd Sand 9,742 (6,562) Gas / Oil Bone Springs 3rd Carb 10,239 (7,059) Gas / Oil Wolfcamp 11,307 (8,127) Gas / Oil Wolfcamp 1 11,529 (8,349) Gas / Oil																																																																																																	
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Production:	8-1/2"	31'	21,891'	21,860'	5 1/2	20.00	P-110 ICY	TXP																																																																																																			
CENTRALIZATION: Surface Casing: 1 per 4 joints. Intermediate Casing: Shoe joint. 1 per joint from FC to 7,800'. 1 per 2 joints 7,800' to 2,300'. 1 per 4 joints 2,300' to surface. Production Liner: Rigid body 1 per 2 joints TD to Int Shoe. Bow Spring 1 per 2 joints Int shoe to 100' above KOP. 1 per 4 joints to surface										Wellhead: 13-5/8" x 10M psi (Casing Head - "A" Section)																																																																																																	
CEMENT:										COMMENTS:																																																																																																	
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FORMATION EVALUATION: Mud Logging - One-Man: First surface hole to TD. First intermediate hole to TD Mud Logging - Two-Man: Intermediate Casing Point to TD Open Hole - PEX None Cased Hole - GR/CBL/USIT NA MWD - GR 200' above KOP to TD										Correlation Well:																																																																																																	
OUR WORK IS NEVER SO URGENT OR IMPORTANT THAT WE CANNOT TAKE THE TIME TO DO IT SAFELY!																																																																																																											

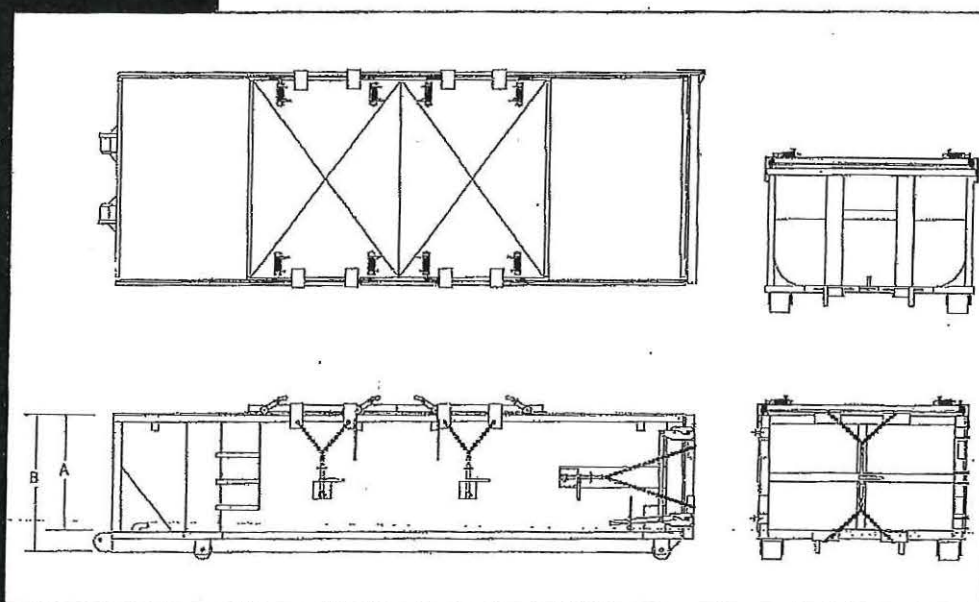
SPECIFICATIONS

FLOOR: 3/16" PL one piece
 CROSS MEMBER: 3 x 4.1 channel 16" on center
 WALLS: 3/16" PL solid welded with tubing top, inside liner hooks
 DOOR: 3/16" PL with tubing frame
 FRONT: 3/16" PL slant formed
 PICK UP: Standard cable with 2" x 6" x 1/4" rails, gusset at each crossmember
 WHEELS: 10 DIA x 9 long with rease fittings
 DOOR LATCH: 3 Independent ratchet binders with chains, vertical second latch
 GASKETS: Extruded rubber seal with metal retainers
 WELDS: All welds continuous except substructure crossmembers
 FINISH: Coated inside and out with direct to metal, rust inhibiting acrylic enamel color coat
 HYDROTESTING: Full capacity static test
 DIMENSIONS: 22'-11" long (21'-8" inside), 99" wide (88" inside), see drawing for height
 OPTIONS: Steel grit blast and special paint, Ampliroll, Heil and Dino pickup
 ROOF: 3/16" PL roof panels with tubing and channel support frame
 LIDS: (2) 68" x 90" metal rolling lids spring loaded, self raising
 ROLLERS: 4" V-groove rollers with delrin bearings and grease fittings
 OPENING: (2) 60" x 82" openings with 8" divider centered on container
 LATCH: (2) independent ratchet binders with chains per lid
 GASKETS: Extruded rubber seal with metal retainers

Heavy Duty Split Metal Rolling Lid



CONT.	A	B
20 YD	41	53
25 YD	53	65
30 YD	65	77



ConocoPhillips MCBU - Permian-Panhandle Gold Data

Planning - NM East State Zone - 3001

ZHU 2331 WC 5H_WCS-W4262

ZHU 2331 WC 5H

ZHU 2331 WC 5H

Plan: ZHU 2331 WC 5H

Standard Planning Report

11 February, 2020

ConocoPhillips

Planning Report

Database:	EDT 14 Central Planning	Local Co-ordinate Reference:	Well ZHU 2331 WC 5H
Company:	ConocoPhillips MCBU - Permian-Panhandle Gold Data	TVD Reference:	RKB @ 3235.70ft (RKB)
Project:	Planning - NM East State Zone - 3001	MD Reference:	RKB @ 3235.70ft (RKB)
Site:	ZHU 2331 WC 5H_WCS-W4262	North Reference:	Grid
Well:	ZHU 2331 WC 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ZHU 2331 WC 5H		
Design:	ZHU 2331 WC 5H		

Project	Planning - NM East State Zone - 3001, Permian Basin - New Mexico - East/South East, Planning Project for Permian wells in NM Zone 3001		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		Using geodetic scale factor

Site	ZHU 2331 WC 5H_WCS-W4262		
Site Position:		Northing:	372,794.440 usft
From:	Map	Easting:	679,733.090 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16"
		Latitude:	32° 1' 24.961 N
		Longitude:	103° 45' 12.222 W
		Grid Convergence:	0.31 °

Well	ZHU 2331 WC 5H		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	2.00 ft	Wellhead Elevation:	ft
		Latitude:	32° 1' 24.961 N
		Longitude:	103° 45' 12.222 W
		Ground Level:	3,205.70 ft

Wellbore	ZHU 2331 WC 5H				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	User Defined	2/6/2020	0.00	0.00	0.00000000

Design	ZHU 2331 WC 5H			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	359.02

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(ft)	(ft)	Rate	Rate	Rate	(°)	
(ft)			(ft)			(°/100ft)	(°/100ft)	(°/100ft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,590.74	8.86	184.81	4,588.39	-45.43	-3.82	1.50	1.50	0.00	184.81	
10,794.10	8.86	184.81	10,717.71	-997.63	-83.95	0.00	0.00	0.00	0.00	
12,029.41	90.00	359.63	11,543.70	-290.00	-100.15	8.00	6.57	14.15	174.76	ZHU 2331 WC 5H FT
21,890.86	90.00	359.63	11,543.70	9,571.24	-164.29	0.00	0.00	0.00	0.00	ZHU 2331 WC 5H BH

ConocoPhillips

Planning Report

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Project:	Planning - NM East State Zone - 3001	MD Reference:	RKB @ 3235.70ft (RKB)
Site:	ZHU 2331 WC 5H_WCS-W4262	North Reference:	Grid
Well:	ZHU 2331 WC 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ZHU 2331 WC 5H		
Design:	ZHU 2331 WC 5H		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	1.50	184.81	4,099.99	-1.30	-0.11	-1.30	1.50	1.50	0.00
4,200.00	3.00	184.81	4,199.91	-5.22	-0.44	-5.21	1.50	1.50	0.00
4,300.00	4.50	184.81	4,299.69	-11.73	-0.99	-11.71	1.50	1.50	0.00
4,400.00	6.00	184.81	4,399.27	-20.85	-1.75	-20.82	1.50	1.50	0.00
4,500.00	7.50	184.81	4,498.57	-32.56	-2.74	-32.51	1.50	1.50	0.00
4,590.74	8.86	184.81	4,588.39	-45.43	-3.82	-45.36	1.50	1.50	0.00
4,600.00	8.86	184.81	4,597.54	-46.85	-3.94	-46.78	0.00	0.00	0.00
4,700.00	8.86	184.81	4,696.34	-62.20	-5.23	-62.10	0.00	0.00	0.00
4,800.00	8.86	184.81	4,795.15	-77.55	-6.53	-77.43	0.00	0.00	0.00
4,900.00	8.86	184.81	4,893.96	-92.90	-7.82	-92.75	0.00	0.00	0.00
5,000.00	8.86	184.81	4,992.76	-108.25	-9.11	-108.08	0.00	0.00	0.00
5,100.00	8.86	184.81	5,091.57	-123.60	-10.40	-123.40	0.00	0.00	0.00
5,200.00	8.86	184.81	5,190.38	-138.95	-11.69	-138.73	0.00	0.00	0.00

ConocoPhillips

Planning Report

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Site:	ZHU 2331 WC 5H_WCS-W4262	North Reference:	Grid
Well:	ZHU 2331 WC 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ZHU 2331 WC 5H		
Design:	ZHU 2331 WC 5H		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.00	8.86	184.81	5,289.18	-154.30	-12.98	-154.05	0.00	0.00	0.00
5,400.00	8.86	184.81	5,387.99	-169.65	-14.28	-169.38	0.00	0.00	0.00
5,500.00	8.86	184.81	5,486.80	-185.00	-15.57	-184.70	0.00	0.00	0.00
5,600.00	8.86	184.81	5,585.60	-200.35	-16.86	-200.03	0.00	0.00	0.00
5,700.00	8.86	184.81	5,684.41	-215.70	-18.15	-215.35	0.00	0.00	0.00
5,800.00	8.86	184.81	5,783.21	-231.05	-19.44	-230.68	0.00	0.00	0.00
5,900.00	8.86	184.81	5,882.02	-246.40	-20.73	-246.00	0.00	0.00	0.00
6,000.00	8.86	184.81	5,980.83	-261.75	-22.03	-261.33	0.00	0.00	0.00
6,100.00	8.86	184.81	6,079.63	-277.10	-23.32	-276.66	0.00	0.00	0.00
6,200.00	8.86	184.81	6,178.44	-292.45	-24.61	-291.98	0.00	0.00	0.00
6,300.00	8.86	184.81	6,277.25	-307.80	-25.90	-307.31	0.00	0.00	0.00
6,400.00	8.86	184.81	6,376.05	-323.15	-27.19	-322.63	0.00	0.00	0.00
6,500.00	8.86	184.81	6,474.86	-338.50	-28.48	-337.96	0.00	0.00	0.00
6,600.00	8.86	184.81	6,573.67	-353.85	-29.78	-353.28	0.00	0.00	0.00
6,700.00	8.86	184.81	6,672.47	-369.19	-31.07	-368.61	0.00	0.00	0.00
6,800.00	8.86	184.81	6,771.28	-384.54	-32.36	-383.93	0.00	0.00	0.00
6,900.00	8.86	184.81	6,870.09	-399.89	-33.65	-399.26	0.00	0.00	0.00
7,000.00	8.86	184.81	6,968.89	-415.24	-34.94	-414.58	0.00	0.00	0.00
7,100.00	8.86	184.81	7,067.70	-430.59	-36.23	-429.91	0.00	0.00	0.00
7,200.00	8.86	184.81	7,166.51	-445.94	-37.53	-445.23	0.00	0.00	0.00
7,300.00	8.86	184.81	7,265.31	-461.29	-38.82	-460.56	0.00	0.00	0.00
7,400.00	8.86	184.81	7,364.12	-476.64	-40.11	-475.88	0.00	0.00	0.00
7,500.00	8.86	184.81	7,462.92	-491.99	-41.40	-491.21	0.00	0.00	0.00
7,600.00	8.86	184.81	7,561.73	-507.34	-42.69	-506.54	0.00	0.00	0.00
7,700.00	8.86	184.81	7,660.54	-522.69	-43.98	-521.86	0.00	0.00	0.00
7,800.00	8.86	184.81	7,759.34	-538.04	-45.28	-537.19	0.00	0.00	0.00
7,900.00	8.86	184.81	7,858.15	-553.39	-46.57	-552.51	0.00	0.00	0.00
8,000.00	8.86	184.81	7,956.96	-568.74	-47.86	-567.84	0.00	0.00	0.00
8,100.00	8.86	184.81	8,055.76	-584.09	-49.15	-583.16	0.00	0.00	0.00
8,200.00	8.86	184.81	8,154.57	-599.44	-50.44	-598.49	0.00	0.00	0.00
8,300.00	8.86	184.81	8,253.38	-614.79	-51.73	-613.81	0.00	0.00	0.00
8,400.00	8.86	184.81	8,352.18	-630.14	-53.03	-629.14	0.00	0.00	0.00
8,500.00	8.86	184.81	8,450.99	-645.49	-54.32	-644.46	0.00	0.00	0.00
8,600.00	8.86	184.81	8,549.80	-660.84	-55.61	-659.79	0.00	0.00	0.00
8,700.00	8.86	184.81	8,648.60	-676.19	-56.90	-675.11	0.00	0.00	0.00
8,800.00	8.86	184.81	8,747.41	-691.54	-58.19	-690.44	0.00	0.00	0.00
8,900.00	8.86	184.81	8,846.22	-706.89	-59.48	-705.76	0.00	0.00	0.00
9,000.00	8.86	184.81	8,945.02	-722.24	-60.78	-721.09	0.00	0.00	0.00
9,100.00	8.86	184.81	9,043.83	-737.59	-62.07	-736.41	0.00	0.00	0.00
9,200.00	8.86	184.81	9,142.63	-752.94	-63.36	-751.74	0.00	0.00	0.00
9,300.00	8.86	184.81	9,241.44	-768.29	-64.65	-767.07	0.00	0.00	0.00
9,400.00	8.86	184.81	9,340.25	-783.64	-65.94	-782.39	0.00	0.00	0.00
9,500.00	8.86	184.81	9,439.05	-798.99	-67.23	-797.72	0.00	0.00	0.00
9,600.00	8.86	184.81	9,537.86	-814.34	-68.53	-813.04	0.00	0.00	0.00
9,700.00	8.86	184.81	9,636.67	-829.69	-69.82	-828.37	0.00	0.00	0.00
9,800.00	8.86	184.81	9,735.47	-845.04	-71.11	-843.69	0.00	0.00	0.00
9,900.00	8.86	184.81	9,834.28	-860.39	-72.40	-859.02	0.00	0.00	0.00
10,000.00	8.86	184.81	9,933.09	-875.74	-73.69	-874.34	0.00	0.00	0.00
10,100.00	8.86	184.81	10,031.89	-891.09	-74.99	-889.67	0.00	0.00	0.00
10,200.00	8.86	184.81	10,130.70	-906.44	-76.28	-904.99	0.00	0.00	0.00
10,300.00	8.86	184.81	10,229.51	-921.79	-77.57	-920.32	0.00	0.00	0.00
10,400.00	8.86	184.81	10,328.31	-937.14	-78.86	-935.64	0.00	0.00	0.00
10,500.00	8.86	184.81	10,427.12	-952.49	-80.15	-950.97	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 14 Central Planning	Local Co-ordinate Reference:	Well ZHU 2331 WC 5H
Company:	ConocoPhillips MCBU - Permian-Panhandle Gold Data	TVD Reference:	RKB @ 3235.70ft (RKB)
Project:	Planning - NM East State Zone - 3001	MD Reference:	RKB @ 3235.70ft (RKB)
Site:	ZHU 2331 WC 5H_WCS-W4262	North Reference:	Grid
Well:	ZHU 2331 WC 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ZHU 2331 WC 5H		
Design:	ZHU 2331 WC 5H		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,600.00	8.86	184.81	10,525.93	-967.83	-81.44	-966.29	0.00	0.00	0.00
10,700.00	8.86	184.81	10,624.73	-983.18	-82.74	-981.62	0.00	0.00	0.00
10,794.10	8.86	184.81	10,717.71	-997.63	-83.95	-996.04	0.00	0.00	0.00
10,800.00	8.39	185.11	10,723.54	-998.51	-84.03	-996.92	8.00	-7.96	5.01
10,850.00	4.43	190.11	10,773.22	-1,004.05	-84.69	-1,002.44	8.00	-7.93	10.00
10,900.00	0.88	245.99	10,823.16	-1,006.10	-85.38	-1,004.49	8.00	-7.09	111.77
10,950.00	3.74	347.18	10,873.13	-1,004.67	-86.09	-1,003.05	8.00	5.71	202.37
11,000.00	7.69	353.64	10,922.87	-999.76	-86.82	-998.12	8.00	7.91	12.94
11,050.00	11.67	355.72	10,972.15	-991.38	-87.57	-989.73	8.00	7.97	4.16
11,100.00	15.67	356.75	11,020.72	-979.59	-88.33	-977.93	8.00	7.99	2.06
11,150.00	19.66	357.37	11,068.35	-964.44	-89.10	-962.77	8.00	7.99	1.24
11,200.00	23.66	357.79	11,114.81	-946.01	-89.87	-944.33	8.00	7.99	0.83
11,250.00	27.66	358.09	11,159.87	-924.38	-90.65	-922.68	8.00	8.00	0.60
11,300.00	31.66	358.32	11,203.31	-899.65	-91.42	-897.95	8.00	8.00	0.46
11,350.00	35.65	358.51	11,244.93	-871.96	-92.18	-870.25	8.00	8.00	0.37
11,400.00	39.65	358.66	11,284.50	-841.43	-92.94	-839.71	8.00	8.00	0.30
11,450.00	43.65	358.78	11,321.85	-808.21	-93.68	-806.49	8.00	8.00	0.26
11,500.00	47.65	358.89	11,356.80	-772.47	-94.40	-770.74	8.00	8.00	0.22
11,550.00	51.65	358.99	11,389.16	-734.38	-95.10	-732.64	8.00	8.00	0.19
11,600.00	55.65	359.08	11,418.79	-694.12	-95.78	-692.38	8.00	8.00	0.17
11,650.00	59.65	359.16	11,445.54	-651.90	-96.43	-650.15	8.00	8.00	0.16
11,700.00	63.65	359.23	11,469.28	-607.91	-97.05	-606.15	8.00	8.00	0.15
11,750.00	67.65	359.30	11,489.89	-562.37	-97.63	-560.61	8.00	8.00	0.14
11,800.00	71.65	359.36	11,507.27	-515.50	-98.18	-513.74	8.00	8.00	0.13
11,850.00	75.65	359.42	11,521.35	-467.54	-98.69	-465.77	8.00	8.00	0.12
11,900.00	79.65	359.48	11,532.04	-418.71	-99.16	-416.94	8.00	8.00	0.12
11,950.00	83.65	359.54	11,539.30	-369.25	-99.58	-367.48	8.00	8.00	0.12
12,000.00	87.65	359.60	11,543.10	-319.40	-99.95	-317.64	8.00	8.00	0.11
12,029.41	90.00	359.63	11,543.70	-290.00	-100.15	-288.24	8.00	8.00	0.11
12,100.00	90.00	359.63	11,543.70	-219.41	-100.61	-217.65	0.00	0.00	0.00
12,200.00	90.00	359.63	11,543.70	-119.42	-101.26	-117.66	0.00	0.00	0.00
12,300.00	90.00	359.63	11,543.70	-19.42	-101.90	-17.67	0.00	0.00	0.00
12,400.00	90.00	359.63	11,543.70	80.58	-102.55	82.33	0.00	0.00	0.00
12,500.00	90.00	359.63	11,543.70	180.58	-103.20	182.32	0.00	0.00	0.00
12,600.00	90.00	359.63	11,543.70	280.58	-103.84	282.32	0.00	0.00	0.00
12,700.00	90.00	359.63	11,543.70	380.57	-104.49	382.31	0.00	0.00	0.00
12,800.00	90.00	359.63	11,543.70	480.57	-105.14	482.31	0.00	0.00	0.00
12,900.00	90.00	359.63	11,543.70	580.57	-105.78	582.30	0.00	0.00	0.00
13,000.00	90.00	359.63	11,543.70	680.57	-106.43	682.29	0.00	0.00	0.00
13,100.00	90.00	359.63	11,543.70	780.57	-107.07	782.29	0.00	0.00	0.00
13,200.00	90.00	359.63	11,543.70	880.56	-107.72	882.28	0.00	0.00	0.00
13,300.00	90.00	359.63	11,543.70	980.56	-108.37	982.28	0.00	0.00	0.00
13,400.00	90.00	359.63	11,543.70	1,080.56	-109.01	1,082.27	0.00	0.00	0.00
13,500.00	90.00	359.63	11,543.70	1,180.56	-109.66	1,182.27	0.00	0.00	0.00
13,600.00	90.00	359.63	11,543.70	1,280.56	-110.31	1,282.26	0.00	0.00	0.00
13,700.00	90.00	359.63	11,543.70	1,380.55	-110.95	1,382.25	0.00	0.00	0.00
13,800.00	90.00	359.63	11,543.70	1,480.55	-111.60	1,482.25	0.00	0.00	0.00
13,900.00	90.00	359.63	11,543.70	1,580.55	-112.25	1,582.24	0.00	0.00	0.00
14,000.00	90.00	359.63	11,543.70	1,680.55	-112.89	1,682.24	0.00	0.00	0.00
14,100.00	90.00	359.63	11,543.70	1,780.54	-113.54	1,782.23	0.00	0.00	0.00
14,200.00	90.00	359.63	11,543.70	1,880.54	-114.19	1,882.23	0.00	0.00	0.00
14,300.00	90.00	359.63	11,543.70	1,980.54	-114.83	1,982.22	0.00	0.00	0.00
14,400.00	90.00	359.63	11,543.70	2,080.54	-115.48	2,082.21	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 14 Central Planning	Local Co-ordinate Reference:	Well ZHU 2331 WC 5H
Company:	ConocoPhillips MCBU - Permian-Panhandle Gold Data	TVD Reference:	RKB @ 3235.70ft (RKB)
Project:	Planning - NM East State Zone - 3001	MD Reference:	RKB @ 3235.70ft (RKB)
Site:	ZHU 2331 WC 5H_WCS-W4262	North Reference:	Grid
Well:	ZHU 2331 WC 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ZHU 2331 WC 5H		
Design:	ZHU 2331 WC 5H		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
14,500.00	90.00	359.63	11,543.70	2,180.54	-116.13	2,182.21	0.00	0.00	0.00
14,600.00	90.00	359.63	11,543.70	2,280.53	-116.77	2,282.20	0.00	0.00	0.00
14,700.00	90.00	359.63	11,543.70	2,380.53	-117.42	2,382.20	0.00	0.00	0.00
14,800.00	90.00	359.63	11,543.70	2,480.53	-118.07	2,482.19	0.00	0.00	0.00
14,900.00	90.00	359.63	11,543.70	2,580.53	-118.71	2,582.19	0.00	0.00	0.00
15,000.00	90.00	359.63	11,543.70	2,680.53	-119.36	2,682.18	0.00	0.00	0.00
15,100.00	90.00	359.63	11,543.70	2,780.52	-120.00	2,782.17	0.00	0.00	0.00
15,200.00	90.00	359.63	11,543.70	2,880.52	-120.65	2,882.17	0.00	0.00	0.00
15,300.00	90.00	359.63	11,543.70	2,980.52	-121.30	2,982.16	0.00	0.00	0.00
15,400.00	90.00	359.63	11,543.70	3,080.52	-121.94	3,082.16	0.00	0.00	0.00
15,500.00	90.00	359.63	11,543.70	3,180.52	-122.59	3,182.15	0.00	0.00	0.00
15,600.00	90.00	359.63	11,543.70	3,280.51	-123.24	3,282.15	0.00	0.00	0.00
15,700.00	90.00	359.63	11,543.70	3,380.51	-123.88	3,382.14	0.00	0.00	0.00
15,800.00	90.00	359.63	11,543.70	3,480.51	-124.53	3,482.13	0.00	0.00	0.00
15,900.00	90.00	359.63	11,543.70	3,580.51	-125.18	3,582.13	0.00	0.00	0.00
16,000.00	90.00	359.63	11,543.70	3,680.51	-125.82	3,682.12	0.00	0.00	0.00
16,100.00	90.00	359.63	11,543.70	3,780.50	-126.47	3,782.12	0.00	0.00	0.00
16,200.00	90.00	359.63	11,543.70	3,880.50	-127.12	3,882.11	0.00	0.00	0.00
16,300.00	90.00	359.63	11,543.70	3,980.50	-127.76	3,982.11	0.00	0.00	0.00
16,400.00	90.00	359.63	11,543.70	4,080.50	-128.41	4,082.10	0.00	0.00	0.00
16,500.00	90.00	359.63	11,543.70	4,180.49	-129.06	4,182.09	0.00	0.00	0.00
16,600.00	90.00	359.63	11,543.70	4,280.49	-129.70	4,282.09	0.00	0.00	0.00
16,700.00	90.00	359.63	11,543.70	4,380.49	-130.35	4,382.08	0.00	0.00	0.00
16,800.00	90.00	359.63	11,543.70	4,480.49	-131.00	4,482.08	0.00	0.00	0.00
16,900.00	90.00	359.63	11,543.70	4,580.49	-131.64	4,582.07	0.00	0.00	0.00
17,000.00	90.00	359.63	11,543.70	4,680.48	-132.29	4,682.07	0.00	0.00	0.00
17,100.00	90.00	359.63	11,543.70	4,780.48	-132.93	4,782.06	0.00	0.00	0.00
17,200.00	90.00	359.63	11,543.70	4,880.48	-133.58	4,882.05	0.00	0.00	0.00
17,300.00	90.00	359.63	11,543.70	4,980.48	-134.23	4,982.05	0.00	0.00	0.00
17,400.00	90.00	359.63	11,543.70	5,080.48	-134.87	5,082.04	0.00	0.00	0.00
17,500.00	90.00	359.63	11,543.70	5,180.47	-135.52	5,182.04	0.00	0.00	0.00
17,600.00	90.00	359.63	11,543.70	5,280.47	-136.17	5,282.03	0.00	0.00	0.00
17,700.00	90.00	359.63	11,543.70	5,380.47	-136.81	5,382.03	0.00	0.00	0.00
17,800.00	90.00	359.63	11,543.70	5,480.47	-137.46	5,482.02	0.00	0.00	0.00
17,900.00	90.00	359.63	11,543.70	5,580.47	-138.11	5,582.01	0.00	0.00	0.00
18,000.00	90.00	359.63	11,543.70	5,680.46	-138.75	5,682.01	0.00	0.00	0.00
18,100.00	90.00	359.63	11,543.70	5,780.46	-139.40	5,782.00	0.00	0.00	0.00
18,200.00	90.00	359.63	11,543.70	5,880.46	-140.05	5,882.00	0.00	0.00	0.00
18,300.00	90.00	359.63	11,543.70	5,980.46	-140.69	5,981.99	0.00	0.00	0.00
18,400.00	90.00	359.63	11,543.70	6,080.46	-141.34	6,081.99	0.00	0.00	0.00
18,500.00	90.00	359.63	11,543.70	6,180.45	-141.99	6,181.98	0.00	0.00	0.00
18,600.00	90.00	359.63	11,543.70	6,280.45	-142.63	6,281.97	0.00	0.00	0.00
18,700.00	90.00	359.63	11,543.70	6,380.45	-143.28	6,381.97	0.00	0.00	0.00
18,800.00	90.00	359.63	11,543.70	6,480.45	-143.93	6,481.96	0.00	0.00	0.00
18,900.00	90.00	359.63	11,543.70	6,580.44	-144.57	6,581.96	0.00	0.00	0.00
19,000.00	90.00	359.63	11,543.70	6,680.44	-145.22	6,681.95	0.00	0.00	0.00
19,100.00	90.00	359.63	11,543.70	6,780.44	-145.87	6,781.95	0.00	0.00	0.00
19,200.00	90.00	359.63	11,543.70	6,880.44	-146.51	6,881.94	0.00	0.00	0.00
19,300.00	90.00	359.63	11,543.70	6,980.44	-147.16	6,981.93	0.00	0.00	0.00
19,400.00	90.00	359.63	11,543.70	7,080.43	-147.80	7,081.93	0.00	0.00	0.00
19,500.00	90.00	359.63	11,543.70	7,180.43	-148.45	7,181.92	0.00	0.00	0.00
19,600.00	90.00	359.63	11,543.70	7,280.43	-149.10	7,281.92	0.00	0.00	0.00
19,700.00	90.00	359.63	11,543.70	7,380.43	-149.74	7,381.91	0.00	0.00	0.00
19,800.00	90.00	359.63	11,543.70	7,480.43	-150.39	7,481.91	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 14 Central Planning	Local Co-ordinate Reference:	Well ZHU 2331 WC 5H
Company:	ConocoPhillips MCBU - Permian-Panhandle Gold Data	TVD Reference:	RKB @ 3235.70ft (RKB)
Project:	Planning - NM East State Zone - 3001	MD Reference:	RKB @ 3235.70ft (RKB)
Site:	ZHU 2331 WC 5H_WCS-W4262	North Reference:	Grid
Well:	ZHU 2331 WC 5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ZHU 2331 WC 5H		
Design:	ZHU 2331 WC 5H		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
19,900.00	90.00	359.63	11,543.70	7,580.42	-151.04	7,581.90	0.00	0.00	0.00
20,000.00	90.00	359.63	11,543.70	7,680.42	-151.68	7,681.89	0.00	0.00	0.00
20,100.00	90.00	359.63	11,543.70	7,780.42	-152.33	7,781.89	0.00	0.00	0.00
20,200.00	90.00	359.63	11,543.70	7,880.42	-152.98	7,881.88	0.00	0.00	0.00
20,300.00	90.00	359.63	11,543.70	7,980.42	-153.62	7,981.88	0.00	0.00	0.00
20,400.00	90.00	359.63	11,543.70	8,080.41	-154.27	8,081.87	0.00	0.00	0.00
20,500.00	90.00	359.63	11,543.70	8,180.41	-154.92	8,181.87	0.00	0.00	0.00
20,600.00	90.00	359.63	11,543.70	8,280.41	-155.56	8,281.86	0.00	0.00	0.00
20,700.00	90.00	359.63	11,543.70	8,380.41	-156.21	8,381.85	0.00	0.00	0.00
20,800.00	90.00	359.63	11,543.70	8,480.40	-156.86	8,481.85	0.00	0.00	0.00
20,900.00	90.00	359.63	11,543.70	8,580.40	-157.50	8,581.84	0.00	0.00	0.00
21,000.00	90.00	359.63	11,543.70	8,680.40	-158.15	8,681.84	0.00	0.00	0.00
21,100.00	90.00	359.63	11,543.70	8,780.40	-158.80	8,781.83	0.00	0.00	0.00
21,200.00	90.00	359.63	11,543.70	8,880.40	-159.44	8,881.82	0.00	0.00	0.00
21,300.00	90.00	359.63	11,543.70	8,980.39	-160.09	8,981.82	0.00	0.00	0.00
21,400.00	90.00	359.63	11,543.70	9,080.39	-160.73	9,081.81	0.00	0.00	0.00
21,500.00	90.00	359.63	11,543.70	9,180.39	-161.38	9,181.81	0.00	0.00	0.00
21,600.00	90.00	359.63	11,543.70	9,280.39	-162.03	9,281.80	0.00	0.00	0.00
21,700.00	90.00	359.63	11,543.70	9,380.39	-162.67	9,381.80	0.00	0.00	0.00
21,800.00	90.00	359.63	11,543.70	9,480.38	-163.32	9,481.79	0.00	0.00	0.00
21,890.86	90.00	359.63	11,543.70	9,571.24	-164.29	9,572.65	0.00	0.00	0.00

Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
ZHU 2331 WC 5H FTP - plan hits target center - Point	0.00	0.00	11,543.70	-290.00	-100.15	372,504.456	679,632.942	32° 1' 22.096 N	103° 45' 13.403 W
ZHU 2331 WC 5H BHL - plan hits target center - Point	0.00	0.00	11,543.70	9,571.24	-164.29	382,365.141	679,568.809	32° 2' 59.683 N	103° 45' 13.534 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
2,200.00	2,200.00	16"	16	17-1/2	
12,029.41	11,543.70	9 5/8"	9-5/8	12-1/4	
21,890.86	11,543.70	7" x 8 3/4"	7	8-3/4	

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
LEASE NO.:	NMLC0064756
WELL NAME & NO.:	ZHU 2331 WC 5H
SURFACE HOLE FOOTAGE:	1050'S & 1094'/W
BOTTOM HOLE FOOTAGE:	44'/N & 987'/W
LOCATION:	Section 23, T.26 S., R.31 E., NMP
COUNTY:	Eddy County, New Mexico

COA

H2S	☐ Yes	☒ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☐ Low	☒ Medium	☐ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	☐ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☒ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☐ COM	☐ Unit

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

Casing Design:

1. The 13-3/8 inch surface casing shall be set at approximately **856 feet** (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
Excess cement calculates to -6%, additional cement might be required.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
 - b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
 - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **5000 (5M)** psi.

Option 2:

1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 2500 psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
393-3612

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not

hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

OTA03092021



H₂S Contingency Plan

November 2016

H₂S Contingency Plan Holders:

Attached is an H₂S Contingency Plan for COPC Permian Drilling working in the West Texas and Southeastern New Mexico areas operated by ConocoPhillips Company.

If you have any question regarding this plan, please call Matt Oster (830) 583-1297, or Ryan Vacarella (985) 217-7594.

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HYDROGEN SULFIDE (H₂S) OPERATIONS

Contingency Plan
For
Permian Drilling Operations

ConocoPhillips Company

Mid-Continent Business Unit Permian Asset Area

I. PURPOSE

The purpose of this Contingency Plan is to provide an organized plan of action for alerting and protecting the public following the release of a potentially hazardous volume of hydrogen sulfide. This plan prescribes mandatory safety procedures to be followed in the event of a release of H₂S into the atmosphere from exploration and production operations included in the scope of this plan. The extent of action taken will be determined by the supervisor and will depend on the severity and extent of H₂S release. Release of H₂S must be reported to the Drilling Superintendent and documented on the IADC and in Wellview.

II. SCOPE

This Contingency plan shall cover the West Texas and Southeastern New Mexico areas, which contain H₂S gas and could result in a release where the R.O.E. is greater than 100 ppm at 50' and less than 3000' and does not include a public area and 500 ppm R.O.E. does not include a public road. Radius of exposure is defined as the maximum distance from the source of release that a specified calculated average concentration of H₂S could exist under specific weather conditions.

III. PROCEDURES

First Employee on Scene

_____ Assess the incident and ensure your own safety.

Note the following:

- _____ Location of the incident.
- _____ Nature of the incident.
- _____ Wind direction and weather conditions.
- _____ Other assistance that may be needed.

_____ Call local supervisory personnel (refer to Section V: Emergency Call List) until personal contact is made with a person on the list.

_____ Perform emergency assessment and response as needed. The response may include rescue and/or evacuation of personnel, shutting in a system and/or notification of nearby residents/public (refer to Section VII: Public Notification/Evacuation).

_____ Secure the site.

_____ Follow the direction of the On-scene Incident Commander (first ConocoPhillips supervisor arriving on-scene).

First Supervisor on Scene (ConocoPhillips On-scene Incident Commander)

_____ Becomes ConocoPhillips' On-scene Incident Commander upon arrival to location.

_____ Follow the principles of the **D.E.C.I.D.E.** process below to assess the incident. (Note wind direction and weather conditions and ensure everyone's safety).

DETECT the problem
ESTIMATE likely harm without intervention
CHOOSE response objectives
IDENTIFY action options
DO the best option
EVALUATE the progress

- _____ Complete the Preliminary Emergency Information Sheet (refer to Section VIII: Forms/Reports).

- _____ Call your supervisor (refer to Section V: Emergency Call List).

- _____ Perform emergency response as necessary. (This may include notification & evacuation of all personnel and/or nearby residents/public (refer to Section VII: Public Notification/Evacuation), requesting assistance from ConocoPhillips personnel or outside agencies (refer to Section V: Emergency Call List) and obtaining any safety equipment that may be required (refer to Section IV: Emergency Equipment and Maintenance).

- _____ Notify appropriate local emergency response agencies of the incident as needed. Also notify the appropriate regulatory agencies. (refer to Section V: Emergency Call List).

- _____ Ensure site security.
 - _____ Set barricades and /or warning signs at or beyond the calculated 100 ppm H₂S radius of exposure (ROE). All manned barricades must be equipped with an H₂S monitor and a 2-way radio.
 - _____ Set roadblocks and staging area as determined.

- _____ Establish the Incident Command Structure by designating appropriate on-scene response personnel as follows:

Recording Secretary	_____
Public Information Officer	_____
Safety/Medical Officer	_____
Decontamination Officer	_____

- _____ Have the "Recording Secretary" begin documenting the incident on the "Incident Log" (refer to Section VIII: Forms/Reports).

- _____ If needed, request radio silence on all channels that use your radio tower stating that, until further notice, the channels should be used for emergency communications only.

- _____ Perform a Site Characterization and designate the following:

Hot Zone	--	Hazardous Area
Warm Zone	--	Preparation & Decontamination Area
Cold Zone	--	Safe Area

AND

On-Scene Incident Command Post	(Cold Zone)
Public Relations Briefing Area	(Cold Zone)
Staging Area	(Cold Zone)
Triage Area	(Cold Zone)
Decontamination Area	(Warm Zone)

_____ Refer all media personnel to ConocoPhillips' On-Scene Public Information Officer (refer to Section VI: Public Media Relations).

_____ Coordinate the attempt to stop the release of H₂S. You should consider closing upstream and downstream valves to shut-off gas supply sources, and/or plugging or clamping leaks. Igniting escaping gas to reduce the toxicity hazard should be used **ONLY AS A LAST RESORT**. (It must first be determined if the gas can be safely ignited, taking into consideration if there is a possibility of a widespread flammable atmosphere.)

_____ Once the emergency is over, return the situation to normal by:

Confirming the absence of H₂S and combustible gas throughout the area,

Discontinuing the radio silence on all channels, stating that the emergency incident is over,

Removing all barricades and warning signs,

Allowing evacuees to return to the area, and

Advising all parties previously notified that the emergency has ended.

_____ Ensure the proper regulatory authorities/agencies are notified of the incident (refer to Section V: Emergency Call List).

_____ Clean up the site. (Be sure all contractor crews have had appropriate HAZWOPER training.)

_____ Report completion of the cleanup to the Asset Environmentalist. (Environmentalist will report this to the proper State and/or Federal agencies.)

_____ Fill out all required incident reports and send originals to the Safety Department. (Keep a copy for your records.)

- Company employee receiving occupational injury or illnesses.
- Company employee involved in a vehicle accident while driving a company vehicle.
- Company property that is damaged or lost.
- Accident involving the public or a contractor; includes personal injuries, vehicle accidents, and property damage. Also includes any situation, which could result in a claim against the Company.
- Hazardous Material Spill/Release Report Form
- Emergency Drill Report

_____ Assist the Safety Department in the investigation of the incident. Review the factors that caused or allowed the incident to occur, and modify operating, maintenance, and/or surveillance procedures as needed. Make appropriate repairs and train or retrain employees in the use and operation of the system.

_____ If this incident was simulated for practice in emergency response, complete the Emergency Drill Report found in Section VIII: Forms/Reports and submit a copy to the Drilling Manager. (Keep one copy in area files to document exercising of the plan.)

Emergency Procedures Responsibility

In the event of a release of potentially hazardous amounts of H₂S, all personnel will immediately proceed upwind/ crosswind to the nearest designated briefing area. The COPC Drilling Rep. will immediately, upon assessing the situation, set this into action by taking the proper procedures to contain the gas and notify appropriate people and agencies.

1. In an emergency situation, the Drilling Rep. on duty will have complete responsibility and will take whatever action is deemed necessary in an emergency situation to insure the personnel's safety, to protect the well and to prevent property damage.
2. The Toolpusher will assume all responsibilities of the Drilling Rep. in an emergency situation in the event the Drilling Rep. becomes incapacitated.
3. Advise each contractor, service company, and all others entering the site that H₂S may be encountered and the potential hazards that may exist.
4. Authorize the evacuation of local residents if H₂S threatens their safety.
5. Keep the number of persons on location to a minimum during hazardous operations.
6. Direct corrective actions to control the flow of gas.
7. Has full responsibility for igniting escaping gas to reduce the toxicity hazard.

This should be used **ONLY AS A LAST RESORT.**

IV. EMERGENCY EQUIPMENT and MAINTENANCE

Emergency Equipment Suppliers

DXP/ Safety International – Odessa, Tx.

H ₂ S monitors	432.580.3770
Breathing air includes cascade systems	
First aid and medical supplies	
Safety equipment	
H ₂ S Specialist	

Total Safety US Odessa, Tx/ Hobbs, NM

H ₂ S monitors	432.561.5049 Odessa
Breathing air includes cascade systems	575.392.2973 Hobbs
First aid and medical supplies	
Safety equipment	

DXP/ Indian Fire & Safety – Hobbs, NM

H ₂ S monitors	575.393.3093
Breathing air including cascade systems trailer mounted	
30 minute air packs	
Safety Equipment	

TC Safety – Odessa, Tx.

H ₂ S monitors	432.413.8240
Cascade systems trailer mounted	
30 minute air packs	
Safety Equipment	
H ₂ S Specialist	

Secorp Industries – Odessa, Tx.

H ₂ S Monitor Systems	432.614.2565
Cascade Systems	
H ₂ S Specialist	
H ₂ S, CPR, First Aid Training	

Emergency Equipment and Maintenance (continued)

General Information

Materials used for repair should be suitable for use where H₂S concentrations exceed 100 ppm. In general, carbon steels having low-yield strengths and a hardness below RC-22 are suitable. The engineering staff should be consulted if any doubt exists on material specifications.

Appropriate signs should be maintained in good condition at location entrance and other locations as specified in Texas Rule 36 and NMOCD Rule 118.

All notification lists should be kept current with changes in names, telephone numbers, etc.

All shutdown devices, alarms, monitors, breathing air systems, etc., should be maintained in accordance with applicable regulations.

All personnel working in H₂S areas shall have received training on the hazards, characteristics, and properties of H₂S, and on procedures and safety equipment applicable for use in H₂S areas.

H2S Safety Equipment and Monitoring Systems

An H2S emergency response package will be maintained at locations requiring H2S monitoring. The package will contain at a minimum the following:

3 – Fixed H2S sensors located as follows:

- 1 – on the rig floor
- 1 – at the Bell Nipple
- 1 – at the Shale Shaker or Flowline

1 – Entrance Warning Sign located at the main entrance to the location, with warning signs and colored flags to determine the current status for entry into the location.

2 – Windsocks that are clearly visible.

1 – Audible warning system located on rig floor

2 – Visual warning systems (Beacon Lights)

- 1 – Located at the rig floor
- 1 – Located in the mud mixing room

Note: All alarms (audible and visual) should be set to alarm at 10 ppm.

2 - Briefing areas clearly marked

- 2 - SCBA's at each briefing area
- 1- SCBA located at the Drilling Reps office

Note:

- 1. All SCBA's must be positive pressure type only!!!**
- 2. All SCBA's must either be Scott or Drager brand.**
- 3. All SCBA's face pieces should be size large, unless otherwise specified by the Drilling Supervisor.**

5 – Emergency Escape Paks located at Top Doghouse.

Note: Ensure provisions are included for any personnel working above rig floor in derrick.

1 – Tri or Quad gas monitor located at the Drilling Reps office. This will be used to determine if the work area is safe to re-enter prior to returning to work following any alarm.

V. EMERGENCY CALL LIST:

The following is a priority list of personnel to contact in an emergency situation:

Supervisory Personnel	Office No.	Cellphone
Drilling Supt. (Unconventional) Scott Nicholson	432.688.9065	432.230.8010
Field Superintendents: Clint Case.	432.688.6878	940.231.2839
Safety Support: Matt Oster Ryan Vaccarella	830.583.1245 985.217.7594	601.540.6988 NA
Supt Operations-SEMN/Shale Mike Neuschafer	432.688.6834	713.419.9919
MCBU Safety Coordinator James Buzan	432.688.6860	832.630.4320
Manger GCBU/MCBU D & C Seth Crissman	832.486.6191	832.513.9308

EMERGENCY CALL LIST: State Officials

Regulatory Agencies

Texas Railroad Commission (District 8)
Midland, Texas

Office: 432.684.5581

New Mexico Oil Conservation Commission
P. O. Box 1980
Hobbs, New Mexico 88240-1980

Office: 575.393.6161

Bureau of Land Mngt.

Carlsbad Field Office
620 E. Greene St.
Carlsbad, NM 88220

Office: 575.234.5972
Fax: 575.885.9264

EMERGENCY CALL LIST: Local Officials

Refer to the Location Information Sheet

Note: The LIS should include any area residents (i.e. rancher's house, etc)

VI. Public Media Relations

The **Public Information Officer** becomes the ConocoPhillips on-scene contact (once designated by the Phillips On-Scene Incident Commander).

Confers with Houston Office's Human Relations Representative, who is responsible for assisting in the coordination of local public relations duties.

Answer media questions honestly and **only with facts**, do not speculate about the cause, amount of damage, or the potential impact of the incident of the community, company, employees, or environment. (This information will be formally determined in the incident investigation.)

If you are comfortable answering a question or if you are unsure of the answer, use terms such as the following:

- "I do not know. I will try to find out."
- I am not qualified to answer that question, but I will try to find someone who can."
- "It is under investigation."

Note:

Do Not Say "No Comment." (This implies a cover-up.)

Do Not Disclose Names of Injured or Dead! Confer with the Houston Office's Human Relations Representative, who is responsible for providing that information.

VII. Public Notification/Evacuation

Alert and/or Evacuate People within the Exposure Area

1. Public Notification – If the escape of gas could result in a hazard to area residents, the general public, or employees, the person **first** observing the leak should take **immediate** steps to cause notification of any nearby residents. The avoidance of injury or loss of life should be of prime consideration and given top priority in all cases. If the incident is of such magnitude, or at such location as to create a hazardous situation, local authorities will be requested to assist in the evacuation and roadblocks of the designated area until the situation can be returned to normal.

Note: Bilingual employees may be needed to assist in notification of residents.

2. Evacuation Procedures – Evacuation will proceed upwind from the source of the release of H₂S. Extreme caution should be exercised in order to avoid any depressions or low-lying areas in the terrain. The public area within the radius of exposure should be evacuated in a southwesterly and southeasterly direction so as to avoid the prevailing southern wind direction.

Roadblocks and the staging area should be established as necessary for current wind conditions.

Note: In all situations, consideration should be given to wind direction and weather conditions. H₂S is heavier than air and can settle in low spots. Shifts in wind direction can also change the location of possible hazardous areas.

VIII. FORMS & REPORTS

- I. Incident Log
- II. Preliminary Emergency Information Sheet
- III. Emergency Drill Report
- IV. Onshore Hazardous Material Spill/Release Report Form
- V. Immediate Report of Occupational Injury or Illness
Report of Accident-Public Contractor
Report of Loss or Damage to Company Property
Report of Automotive Incident

ConocoPhillips Wild Well Control Plan

1. DRILLING WELL CONTROL PLAN

1.1 WELL CONTROL - CERTIFICATIONS

Required IADC/IWCF Well Control Certifications Supervisor Level:

Any personnel who supervises or operates the BOP must possess a valid current IADC training certification and photo identification. This would include the onsite drilling supervisor, tool pusher/rig manager, driller, and any personnel that will be acting in these capacities. Another example of this may be a wireline or snubbing crew rigged up on the rig to assist the rig, the operator of each system must also have a valid control certification for their level of operation.

BLM recognizes IADC training as the industry approved accredited training. Online self-certifications will not be acceptable. Enforcement actions for the lack of a valid Supervisory Level certificate shall be prompt action to correct the deficiency. **Enforcement actions include but are not limited to immediate replacement of personnel lacking certifications, drilling operations being shut down or installment of a 10M annular.**

IADC Driller Level for all Drillers and general knowledge for the Assistant Driller, Derrick Hands, Floor Hands and Motor Hands is recognized by the BLM; however, a Driller Level certification will need to be presented only if acting in a temporary Driller Level certification capacity.

Well Control-Position/Roles

IADC Well control training and certification is targeted toward each role, e.g., Supervisor Level toward those who direct, Driller Level to those who act, Introductory to those who need to know.

- **Supervisor Level**
 - Specifies and has oversight that the correct actions are carried out
 - Role is to supervise well control equipment, training, testing, and well control events
 - Directs the testing of BOP and other well control equipment
 - Regularly direct well control crew drills
 - Land based rigs – usually runs the choke during a well kill operation
 - Due to role on the rig, training and certification is targeted more toward management of well control and managing an influx out of the well
- **Driller Level**
 - Performs an action to prevent or respond to well control accident
 - Role is to monitor the well via electronic devices while drilling and detect unplanned influxes
 - Assist with the testing of BOP and other well control equipment
 - Regularly assist with well control crew drills
 - When influx is detected, responsible to close the BOP
 - Due to role on the rig, training and certification is targeted more toward monitoring and shutting the well in (closing the BOP) when an influx is detected

(Well Control-Positions/Roles Continued)

- **Derrick Hand, Assistant Driller Introductory Level**
 - Role is to assist Driller with kick detection by physically monitoring the well at the mixing pits/tanks
 - Regularly record mud weights/viscosity for analysis by the Supervisor level and mud engineer so pre-influx signs can be detected
 - Mix required kill fluids as directed by Supervisor or Driller
 - Due to role on the rig, training and certification is targeted more toward monitoring for influxes, either via mud samples or visual signs on the pits/tanks
- **Motorman, Floor Hand Introductory Level**
 - Role is to assist the Supervisor, Driller, or Derrick Hand with detecting influxes
 - Be certain all valves are aligned for proper well control as directed by Supervisor
 - Perform Supervisor or Driller assigned tasks during a well control event
 - Due to role on the rig, training and certification is targeted more toward monitoring for influxes

1.2 WELL CONTROL-COMPONENT AND PREVENTER COMPATIBILITY CHECKLIST

The table below, which covers the drilling and casing of the 10M Stack portion of the well, outlines the tubulars and the compatible preventers in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

○ **Example 8-3/4" Production hole section, 10M requirement**

Component	OD	Preventer	RWP
Drill pipe	5"	Fixed lower 5" Upper 4.5-7" VBR	10M
HWDP	5"	Fixed lower 5" Upper 4.5-7" VBR	10M
Drill collars and MWD tools	6.25-6.75"	Upper 4.5-7" VBR	10M
Mud Motor	6.75"	Upper 4.5-7" VBR	10M
Production casing	5.5"	Upper 4.5-7" VBR	10M
ALL	0-13-5/8"	Annular	5M
Open-hole	-	Blind Rams	10M

○ VBR = Variable Bore Ram. Compatible range listed in chart.

1.3 WELL CONTROL-BOP TESTING

BOP Test will be completed per Onshore Oil and Gas Order #2 Well Control requirements. The 5M Annular Preventer on a required 10M BOP stack will be tested to 70 % of rated working pressure including a 10 minute low pressure test. Pressure shall be maintained at least 10 minutes.

1.4 WELL CONTROL - DRILLS

The following drills are conducted and recorded in the Daily Drilling Report and the Contractor's reporting system while engaged in drilling operations:

Type	Frequency	Objective	Comments
Shallow gas kick drill - drilling	Once per well with crew on tour	Response training to a shallow gas influx	To be done prior to drilling surface hole if shallow gas is noted
Kick drill - drilling	Once per week per crew	Response training to an influx while drilling (bit on bottom)	Only one kick drill per week per crew is required, alternating between drilling and tripping.
Kick drill - tripping	Once per week per crew	Response training to an influx while tripping (bit off bottom). Practice stabbing TIW valve	
Choke drill	Once per well with crew on tour	Practice in operating the remotely operated choke with pressure in the well	Before drilling out of the last casing set above a prospective reservoir Include the scenario of flowing well with gas on drill floor as a table top
H ₂ S drill	Prior to drilling into a potential H ₂ S zone/reservoir	Practice in use of respiratory equipment	

1.5 WELL CONTROL – MONITORING

- Drilling operations which utilize static fluid levels in the wellbore as the active barrier element, a means of accurately monitoring fill-up and displacement volumes during trips are available to the driller and operator. A recirculating trip tank is installed and equipped with a volume indicator easily read from the driller's / operator's position. This data is recorded on a calibrated chart recorder or digitally. The actual volumes are compared to the calculated volumes.
- The On-Site Supervisor ensures hole-filling and pit monitoring procedures are established and documented for every rig operation.
- The well is kept full of fluid with a known density and monitored at all times even when out of the hole.
- Flow checks are a minimum of 15 minutes.
- A flow check is made:
 - In the event of a drilling break.
 - After indications of down hole gains or losses.
 - Prior to all trips out of the hole.
 - After pulling into the casing shoe.
 - Before the BHA enters the BOP stack.
 - If trip displacement is incorrect.

Well Control-Monitoring (Continued)

- Prior to dropping a survey instrument.
- Prior to dropping a core ball.
- After a well kill operation.
- When the mud density is reduced in the well.
- Flow checks may be made at any time at the sole discretion of the driller or his designate. The Onsite Supervisor ensures that personnel are aware of this authority and the authority to close the well in immediately without further consultation.
- Record slow circulating rates (SCR) after each crew change, bit trip, and 500' of new hole drilled and after any variance greater than 0.2 ppg in MW. Slow pump rate recordings should include return flow percent, TVD, MD & pressure. SCR's will be done on all pumps at 30, 40 & 50 SPM. Pressures will be recorded at the choke panel. SCR will be recorded in the IADC daily report and MRO Wellview daily report
- Drilling blind (i.e. without returns) is permissible only in known lithology where the absence of hydrocarbons has been predetermined and written approval of the Drilling Manager.
- All open hole logs to be run with pack-off, lubricator or Drilling Manager approved alternative means.
- The Drilling Contractor has a fully working pit level totalizer / monitoring system with read out for the driller and an audible alarm set to 10 BBL gain / loss volume. Systems are selectable to enable monitoring of all pits in use. Pit volumes are monitored at all times, especially when transferring fluids. Both systems data is recorded on a calibrated chart recorder or electronically.
- The Drilling Contractor has a fully working return mud flow indicator with drillers display and an audible alarm, and is adjustable to record any variance in return volumes.

1.6 WELL CONTROL – SHUT IN

- The “hard shut in” method (i.e. against a closed choke using either an annular or ram type preventer) is the Company standard.
- The HCR(s) or failsafe valves are left closed during drilling to prevent any erosion and buildup of solids. The adjustable choke should also be left closed.
- The rig specific shut in procedure, the BOP configuration along with space-out position for the tool joints is posted in the Driller's control cabin or doghouse.
- No well kill operation commences until there is a plan agreed by the Superintendent, On-Site Supervisor and the Drilling Manager.
- During a well kill by circulation, constant bottom hole pressure is maintained throughout.
- Kill sheets are maintained by the Driller and posted in the Driller's control cabin or doghouse. The sheet is updated at a minimum every 500 feet.

2. SHUT-IN PROCEDURES:

2.1 PROCEDURE WHILE DRILLING

- Sound alarm (alert crew)
- Space out drill string – Stop rotating, pick the drill string up off bottom, and space out to ensure no tool joint is located in the BOP element selected for initial closure.
- Shut down pumps (stop pumps and observe well.)
- Shut-in Well - If flow is suspected or confirmed, close uppermost applicable BOP element. (HCR and choke will already be in the closed position.)
 - **Note:** Either the uppermost pipe ram or annular preventer can be used.
- Confirm shut-in
- Notify toolpusher/company representative
- Gather all relevant data required:
 - SIDPP and SICP
 - Hole Depth and Hole TVD
 - Pit gain
 - Time
 - Kick Volume
 - Pipe depth
 - MW in, MW out
 - SPR's (Slow Pump Rate's)
- Regroup and identify forward plan (let well stabilize, update kill sheet, inventory mud additives and mud volumes on location)
- Company Representative, Drilling Superintendent, Drilling Engineer and Drilling Manager will discuss well control kill method to be utilized. A verbal Risk Assessment and preferred kill method will be finalized. Initial Risk Assessment will be finalized within 1 hour of initial shut in.
- No well kill operation commences until there is a plan agreed by the Superintendent, On-Site Supervisor and the Drilling Contractor PIC.
- Recheck all pressures and fluid volume on accumulator unit
- If pressure has built or is anticipated during the kill to reach 2,500 psi or greater, the annular preventer CANNOT be used as per Oil Company Well Control Policy, swap to the upper BOP pipe ram.

2.2 PROCEDURE WHILE TRIPPING

- Sound alarm (alert crew)
- Stab full opening safety valve in the drill string and close.
- Space out drill string (ensure no tool joint is located in the BOP element selected for initial closure).
- Shut down pumps (stop pumps and observe well.)
- Shut-in Well - If flow is suspected or confirmed, close uppermost applicable BOP element. (HCR and choke will already be in the closed position.)
 - **Note:** Either the uppermost pipe ram or annular preventer can be used.
- Confirm shut-in
- Notify tool pusher/company representative
- Gather all relevant data required:
 - SIDPP and SICP
 - Hole Depth and Hole TVD
 - Pit gain

Procedure While Tripping (Continued)

- o Time
 - o Kick Volume
 - o Pipe depth
 - o MW in, MW out
 - o SPR's (Slow Pump Rate's)
- Regroup and identify forward plan (let well stabilize, update kill sheet, inventory mud additives and mud volumes on location)
- Company Representative, Drilling Superintendent, Drilling Engineer and Drilling Manager will discuss well control kill method to be utilized. A verbal Risk Assessment and preferred kill method will be finalized. Initial Risk Assessment will be finalized within 1 hour of initial shut in.
- No well kill operation commences until there is a plan agreed by the Superintendent, On-Site Supervisor and the Drilling Contractor PIC.
- Recheck all pressures and fluid volume on accumulator unit
If pressure has built or is anticipated during the kill to reach X,XXX psi or greater, the annular preventer CANNOT be used as per Company Well Control Policy, swap to the upper BOP pipe ram.

2.3 PROCEDURE WHILE RUNNING CASING

- Sound alarm (alert crew)
- Stab crossover and full opening safety valve and close
- Space out casing (ensure no coupling is located in the BOP element selected for initial closure).
- Shut down pumps (stop pumps and observe well.)
- Shut-in Well - If flow is suspected or confirmed, close uppermost applicable BOP element. (HCR and choke will already be in the closed position.)
 - o **Note:** Either the uppermost pipe ram or annular preventer can be used.
- Confirm shut-in
- Notify tool pusher/company representative
- Gather all relevant data required:
 - o SIDPP and SICP
 - o Hole Depth and Hole TVD
 - o Pit gain
 - o Time
 - o Kick Volume
 - o Pipe depth
 - o MW in, MW out
 - o SPR's (Slow Pump Rate's)
- Regroup and identify forward plan (let well stabilize, update kill sheet, inventory mud additives and mud volumes on location)
- Company Representative, Drilling Superintendent, Drilling Engineer and Drilling Manager will discuss well control kill method to be utilized. A verbal Risk Assessment and preferred kill method will be finalized. Initial Risk Assessment will be finalized within 1 hour of initial shut in.
- No well kill operation commences until there is a plan agreed by the Superintendent, On-Site Supervisor and the Drilling Contractor PIC.
- Recheck all pressures and fluid volume on accumulator unit
If pressure has built or is anticipated during the kill to reach 2,500 psi or greater, the annular preventer CANNOT be used, swap to the upper BOP pipe ram.

2.4 PROCEDURE WITH NO PIPE IN HOLE (OPEN HOLE)

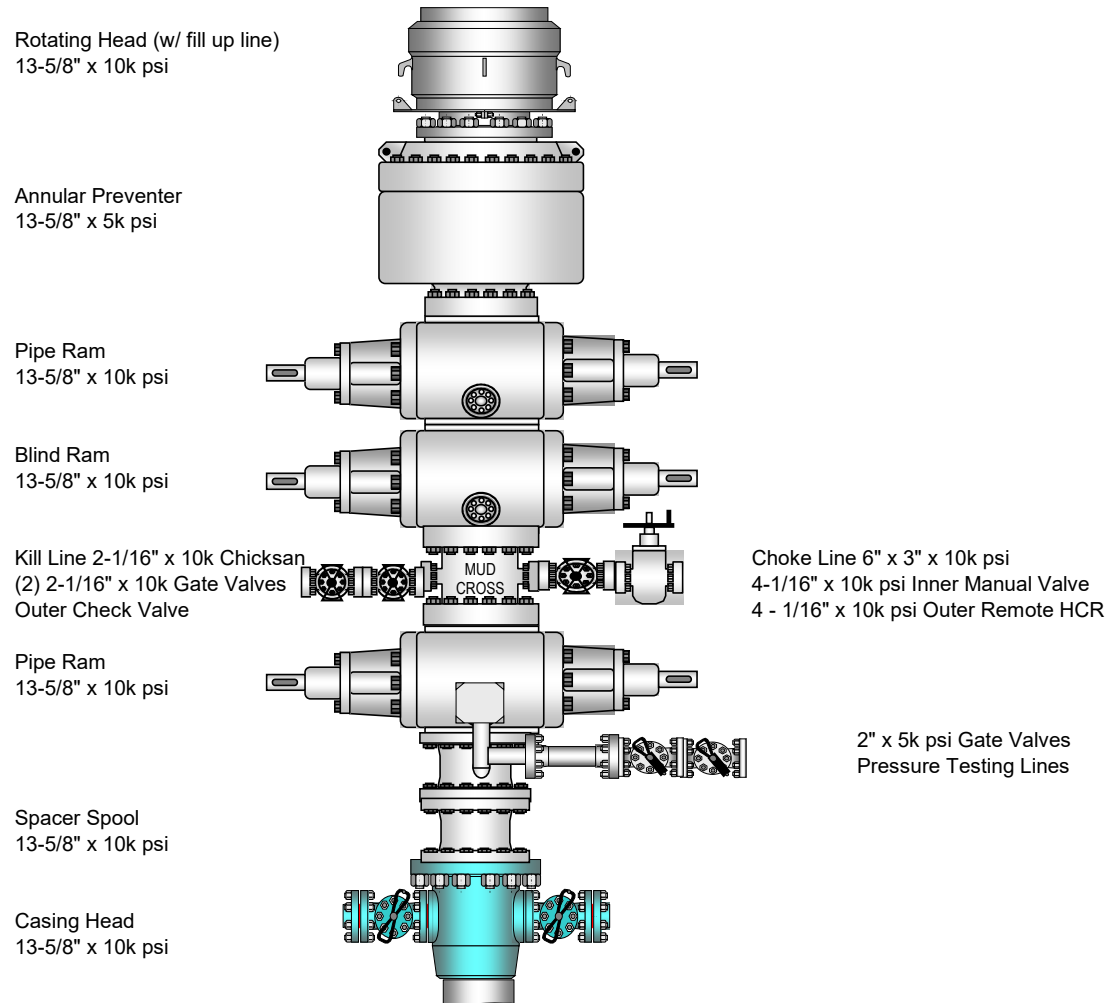
- Sound alarm (alert crew)
- Shut-in with blind rams or BSR. (HCR and choke will already be in the closed position.)
- Confirm shut-in
- Notify toolpusher/company representative
- Gather all relevant data required:
 - Shut-In Pressure
 - Hole Depth and Hole TVD
 - Pit gain
 - Time
 - Kick Volume
 - MW in, MW out
 - SPR's (Slow Pump Rate's)
- Regroup and identify forward plan (let well stabilize, update kill sheet, inventory mud additives and mud volumes on location)
- Company Representative, Drilling Superintendent, Drilling Engineer and Drilling Manager will discuss well control kill method to be utilized. A verbal Risk Assessment and preferred kill method will be finalized. Initial Risk Assessment will be finalized within 1 hour of initial shut in.
- No well kill operation commences until there is a plan agreed by the Superintendent, On-Site Supervisor and the Drilling Contractor PIC.
- Recheck all pressures and fluid volume on accumulator unit.

2.5 PROCEDURE WHILE PULLING BHA THRU STACK

- PRIOR to pulling last joint of drill pipe thru the stack.
 - Perform flow check, if flowing.
 - Sound alarm (alert crew).
 - Stab full opening safety valve and close
 - Space out drill string with tool joint just beneath the upper pipe ram.
 - Shut-in using upper pipe ram. (HCR and choke will already be in the closed position).
 - Confirm shut-in.
 - Notify toolpusher/company representative
 - Read and record the following:
 - SIDPP and SICP
 - Pit gain
 - Time
 - Regroup and identify forward plan
-
- **With BHA in the stack and compatible ram preventer and pipe combo immediately available.**
 - Sound alarm (alert crew)
 - Stab crossover and full opening safety valve and close
 - Space out drill string with upset just beneath the compatible pipe ram.
 - Shut-in using compatible pipe ram. (HCR and choke will already be in the closed position.)
 - Confirm shut-in
 - Notify toolpusher/company representative
 - Read and record the following:
 - SIDPP and SICP
 - Pit gain

Procedures While Pulling BHA thru Stack (Continued)

- o Time
 - Regroup and identify forward plan
- **With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.**
 - Sound alarm (alert crew)
 - If possible to pick up high enough, pull string clear of the stack and follow “Open Hole” scenario.
 - If impossible to pick up high enough to pull the string clear of the stack:
 - Stab crossover, make up one joint/stand of drill pipe, and full opening safety valve and close
 - Space out drill string with tool joint just beneath the upper pipe ram.
 - Shut-in using upper pipe ram. (HCR and choke will already be in the closed position.)
 - Confirm shut-in
 - Notify toolpusher/company representative
 - Read and record the following:
 - o SIDPP and SICP
 - o Pit gain
 - o Time

BOPE Configuration & Specifications
13-5/8" x 10,000 psi System

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 51505

COMMENTS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 51505
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 9/28/2021	9/28/2021

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

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1000 Rio Brazos Rd., Aztec, NM 87410
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1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 51505

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 51505
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify OCD 24 hours prior to casing & cement	9/28/2021
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	9/28/2021
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	9/28/2021
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	9/28/2021
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	9/28/2021