Form 3160-3 (June 2015) UNITED STATES DEPARTMENT OF THE I	S NTERIO	R		FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018 5. Lease Serial No.				
BUREAU OF LAND MAN	AGEME	NT						
APPLICATION FOR PERMIT TO D	RILL OF	RREENTER		6. If Indian, Allotee or Property No.	Tribe N 0. 33082	ame		
1a Type of work: DRILL DRILL	EENTER			7. If Unit or CA Agreer	ment, N	ame and No.		
The Type of Well:	thor							
1c. Type of Completion:   Hydraulic Fracturing   Si	ingle Zone	Multiple Zone		8. Lease Name and We	ell No.			
2. Name of Operator				9. API Well No.				
				30 015 48500	0			
3a. Address	3b. Phone	e No. (include area cod	e)	10. Field and Pool, or I	Explora	tory		
4. Location of Well (Report location clearly and in accordance w	with any Sto	ate requirements.*)		11. Sec., T. R. M. or Bl	lk. and S	Survey or Area		
At surface								
At proposed prod. zone								
14. Distance in miles and direction from nearest town or post off	ice*			12. County or Parish 13. State				
<ul> <li>15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)</li> </ul>	16. No of	acres in lease	17. Spacin	ng Unit dedicated to this	well			
<ol> <li>Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.</li> </ol>	19. Propo	osed Depth	20. BLM/	I/BIA Bond No. in file				
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Appro	oximate date work will	start*	23. Estimated duration				
	24. Att	achments						
The following, completed in accordance with the requirements of (as applicable)	f Onshore (	Dil and Gas Order No. 1	, and the F	Hydraulic Fracturing rule	e per 43	CFR 3162.3-3		
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> </ol>		4. Bond to cover th Item 20 above).	e operation	as unless covered by an ex	xisting b	oond on file (see		
3. A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office	m Lands, th e).	<ul> <li>5. Operator certific</li> <li>6. Such other site sp BLM.</li> </ul>	eation.	mation and/or plans as ma	ay be rec	quested by the		
25. Signature	Nar	me (Printed/Typed)		D	ate			
Title								
Approved by (Signature)	Nar	me (Printed/Typed)		D	ate			
Title	Off	ice						
Application approval does not warrant or certify that the applicar applicant to conduct operations thereon. Conditions of approval, if any, are attached.	nt holds lega	al or equitable title to th	nose rights	in the subject lease whic	ch would	l entitle the		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, n of the United States any false, fictitious or fraudulent statements	nake it a cri or represen	me for any person know tations as to any matter	wingly and within its	willfully to make to any jurisdiction.	departr	nent or agency		
			ONG					



\*(Instructions on page 2)

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(Continued on page 2)



Page 2 of 76

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Original to Appropriate District Office

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

### GAS CAPTURE PLAN

⊠ Original	Operator & OGRID No.: ConocoPhillips Company/ 217817
□ Amended	Date: 3/16/20
Reason for Amendment:	

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

### Note: A C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule 19.15.18.12.A

### Well(s)/Production Facility – Name of facility

T1 = 11(1) + 1 = 11(1)	1. 1	1	1	41 1.1. 11
The well(s) that will	be located at the	production facility	are shown in	the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
ZHU 2331 WC 9H,10H, 11H, & 12H	Pending	Sec. 23, T26S, 31E	Various		Flared	Flaring is expected to be sporadic

#### **Gathering System and Pipeline Notification**

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to <u>Enterprise</u> and will be connected to <u>Enterprise</u> low/high pressure gathering system located in <u>Eddy</u> County, New Mexico. It will require 7,187 ' of pipeline to connect the facility to low/high pressure gathering system. <u>COP</u> provides (periodically) to <u>Enterprise</u> a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, <u>COP</u> and <u>Enterprise</u> have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at <u>Gas Transporter</u> Processing Plant located in <u>Oral</u>, <u>Texas</u>, <u>Reeves</u> County, Texas. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

#### Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on <u>Gas Transporter</u> system at that time. Based on current information, it is <u>Operator's</u> belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

#### **Alternatives to Reduce Flaring**

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
  - o Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

## Gas Capture Plan ZHU 2331 WC Federal Wells

ZHU 2331 WC Wells-Located in Sec. 23, T26S, R31E												
Well Name:	9Н	10H	11H	12H								
Mall Leastion:	1050' FSL	1050' FSL	1050' FSL	1050' FSL								
Wen Location.	1823' FWL	1843' FWL	1863' FWL	1883' FWL								
Production Facility Name:	lity											
Production Facility Location: SWNE, Section 24, T26S, R31E												
	•											
Anticipated Completion Date:	60-120 days after d	rilling completed; dep	pendent upon comple	tion crew availability								
Initial Production Volumes:												
Oil (bopd)	1,148 BOPD	1,148 BOPD	1,148 BOPD	1,148 BOPD								
Gas (mcfd)	2,764 MSCFD	2,764 MSCFD	2,764 MSCFD	2,764 MSCFD								
Water (bwpd)	2,541 BWPD	2,830 BWPD	2,541 BWPD									
Date of First Production: <45 days following completion operations												
Expected Well Life Expectancy:         30 years         30 years         30 years         30 years												

## **WAFMSS**

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

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APD ID: 10400055453

**Operator Name: CONOCOPHILLIPS COMPANY** 

Well Name: ZHU 2331 WC

Well Type: OIL WELL

Submission Date: 03/25/2020

Well Number: 9H

Highlighted data reflects the most recent changes

Show Final Text

Well Work Type: Drill

## **Section 1 - Geologic Formations**

Formation			True Vertical	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
696365	QUATERNARY	3180	0	0	ALLUVIUM	NONE	Ν
696366	RUSTLER	2394	786	786	ANHYDRITE, DOLOMITE	NONE	N
696367	SALADO	2224	956	956	SALT	NONE	N
696368	CASTILE	1304	1876	1876	SALT	NONE	N
696369	DELAWARE	-908	4088	4088	SANDSTONE	NATURAL GAS, OIL	N
696370	CHERRY CANYON	-1896	5076	5076	SANDSTONE	NATURAL GAS, OIL	N
696371	BRUSHY CANYON	-3214	6394	6394	SANDSTONE	NATURAL GAS, OIL	N
696372	BONE SPRING	-4663	7843	7843	SANDSTONE	NATURAL GAS, OIL	N
696375	BONE SPRING 1ST	-5878	9058	9058	SANDSTONE	NATURAL GAS, OIL	N
696373	BONE SPRING 2ND	-6595	9775	9775	SANDSTONE	NATURAL GAS, OIL	N
696374	BONE SPRING 3RD	-7088	10268	10268	LIMESTONE	NATURAL GAS, OIL	N
696376	WOLFCAMP	-8200	11380	11380	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

## Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M

Rating Depth: 11702

Equipment: Rotating Head, Annular Preventer, Pipe/Blind Rams, Kill Lines, Choke Lines, Adapter Spool

### Requesting Variance? YES

**Variance request:** A variance to use flexible choke line(s) from the BOP to Choke Manifold. Testing certificate is attached in "Flexhose Variance data" document. A variance to use a multibowl wellhead system. Please see attached in section 8 of drilling plan. A variance is requested to use a 5M annular and test the annular to 100% of its working pressure. The variance is requested in conjunction with the attached well control plan.

Testing Procedure: BOP/BOPE will be isolated from the casing and tested by an independent service company to 250 psi



Well Name: ZHU 2331 WC

Well Number: 9H

low and the high pressure indicated above per Onshore Order 2 requirements. BOPE controls will be installed prior to drilling under the surface casing and will be used until the completion of drilling operations. The intermediate interval and the production interval will be tested per 10M working system requirements. See attached "Drill Plan" document.

#### Choke Diagram Attachment:

Zia\_Hills\_23\_Pad\_2\_Choke\_Manifold\_20200324063048.pdf

#### **BOP Diagram Attachment:**

Zia\_Hills\_23\_Pad\_2\_BOPE\_20200324063105.pdf

## **Section 3 - Casing**

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	836	0	836	3189	2353	836	J-55	54.5	OTHER - BTC	4.51	7.3	DRY	19.9 6	DRY	19.9 6
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	12322	0	11702		-8513	12322	OTH ER	40	OTHER - BTC	2.52	1.67	DRY	1.87	DRY	1.87
3	PRODUCTI ON	8.5	5.5	NEW	API	N	0	22139	0	11702		-8513	22139	OTH ER	20	OTHER - TXP	3.83	2.44	DRY	3.11	DRY	3.11

#### **Casing Attachments**

Casing ID: 1 String Type: SURFACE

**Inspection Document:** 

Spec Document:

**Tapered String Spec:** 

### Casing Design Assumptions and Worksheet(s):

13.375\_54.5\_lb\_J55\_20200310071400.pdf

Well Name: ZHU 2331 WC

Well Number: 9H

#### **Casing Attachments**

Casing ID: 2 String Type: INTERMEDIATE

**Inspection Document:** 

Spec Document:

**Tapered String Spec:** 

### Casing Design Assumptions and Worksheet(s):

 $9.625\_40\_lb\_L\_80\_lC\_20200310071527.pdf$ 

Casing ID: 3 String Type: PRODUCTION

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

#### Casing Design Assumptions and Worksheet(s):

5.5\_20\_lb\_P\_110\_ICY\_20200310071800.pdf

Section	4 - Ce	emen	t								
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	436	530	1.73	12.8	908	200	Control Set 'C'	1.0% CaCl2, 1.0% SMS, 1.0% OGC-60, ¼ lb/sk Polyflake, ½ ppb FiberBlock
SURFACE	Tail		436	836	660	1.33	14.8	868	200	0:1:0 'Type III'	0.5% CaCl2, ¼ lb/sk Polyflake, ½ ppb FiberBlock
INTERMEDIATE	Lead		0	5076	2480	1.73	11	4286	200	Thermal 35	10% NaCl, 0.9% CFR, 0.7% CFL-4, 0.1% LTR, 0.2% SPC-II, 0.4% CDF-4P, ¼ lb/sk

## Section 4 - Cement

Well Name: ZHU 2331 WC

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
											Polyflake, ½ ppb FiberBlock

INTERMEDIATE	Lead	5076	336	1059 7	1090	2.7	11	2939	70	WBL	0.5% CFL-4, 0.6% LTR, 0.2% SPC-II, 0.4% CDF-4P, ¼ lb/sk Polyflake, ½ ppb FiberBlock
INTERMEDIATE	Tail		1059 7	1232 2	470	1.59	13.2	741	30	Thermal 35	10% NaCl, 0.9% CFR, 0.7% CFL-4, 0.1% LTR, 0.2% SPC-II, 0.4% CDF-4P, ¼ lb/sk Polyflake, ½ ppb FiberBlock
PRODUCTION	Lead		0	2213 9	0	0	0	0	0	No Lead	No Lead
PRODUCTION	Tail		1009 7	2213 9	2567	1.19	15.6	3054	10	1:1:0 'Poz:Lafarge G'	20% Silica Flour, 8% Silica Flume, 2% FWCA-H (FWC-2), 0.3% HTR, 0.5% CR-4 (MCR-4), 1% TAE-1 (SEA-1), 1% CFL-4, 0.2% CFR-5, 0.3% ASM-3 (AS-3)

## **Section 5 - Circulating Medium**

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

**Describe what will be on location to control well or mitigate other conditions:** Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. See attached "Drill Plan" for additional information.

**Describe the mud monitoring system utilized:** Closed-loop mud system using steel mud containers will be on location. Mud monitoring of any changes in levels (gains or losses) will use Pressure Volume Temperature, Pason, Visual Observations. See attached "Drill Plan" for additional information.

**Circulating Medium Table** 

Well Name: ZHU 2331 WC

	Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
8	36	1170 2	OTHER : Brine	9.5	10.5							
	0	836	OTHER : Fresh Water	8.6	9.1							
1	170 2	1170 2	OIL-BASED MUD	10.5	11.5							

## Section 6 - Test, Logging, Coring

#### List of production tests including testing procedures, equipment and safety measures:

Production tests will be conducted multiple times per week, through a test separator, during first months following completion. Thereafter, tests will be less frequently.

#### List of open and cased hole logs run in the well:

GAMMA RAY LOG,

#### Coring operation description for the well:

No coring operation is planned at this time.

This well will be an Infill Horizontal well as defined in Part H of 19.15.16.7 NMAC. It will not have a unique horizontal spacing unit. It will share a horizontal spacing unit.

ConocoPhillips Company requests a variance to the requirement to run a neutron porosity log for any wells within one mile of an existing well with a neutron porosity log (vertical well, or vertical portion of a horizontal well). If there is an existing neutron log within one mile, ConocoPhillips requests to log gamma ray only. If there is not an existing neutron log within one mile, ConocoPhillips request to run a GR/N log on the vertical section of one well per pad.

## **Section 7 - Pressure**

Anticipated Bottom Hole Pressure: 8191

Anticipated Surface Pressure: 5616

Anticipated Bottom Hole Temperature(F): 185

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Well Name: ZHU 2331 WC

Well Number: 9H

### Hydrogen Sulfide drilling operations plan required? YES

#### Hydrogen sulfide drilling operations plan:

H2S\_C\_Plan\_20200310075517.pdf Typical\_Rig\_Layout\_20200324064452.pdf

### **Section 8 - Other Information**

#### Proposed horizontal/directional/multi-lateral plan submission:

Wellhead\_diagram\_3\_String\_\_20200310081710.pdf ZHU\_2331\_WC\_9H\_Drill\_Plan\_20200325110807.pdf ZHU\_2331\_WC\_9H\_Well\_Plan\_20200325110816.pdf

#### Other proposed operations facets description:

#### Other proposed operations facets attachment:

Drill\_Waste\_Containment1\_20200310081559.pdf Zia\_Hills\_23\_Pad\_2\_Kelly\_Cock\_20200324064604.pdf ZHU\_2331\_WC\_9H\_12H\_Gas\_Capture\_Plan\_20200723140245.pdf

#### **Other Variance attachment:**

Flexhose\_Variance\_20200310081645.pdf Wild\_Well\_Control\_Plan\_20200310081652.pdf

# ConocoPhillips MCBU -Permian-Panhandle Gold Data

Planning - NM East State Zone - 3001 ZHU 2331 WC 9H\_WC1\_UP-W0513 ZHU 2331 WC 9H

ZHU 2331 WC 9H

Plan: ZHU 2331 WC 9H

# **Standard Planning Report**

11 February, 2020

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	EDT Con Plar ZHU ZHU ZHU ZHU	<sup>-</sup> 14 Cer ocoPhill nning - N J 2331 V J 2331 V J 2331 V J 2331 V J 2331 V	tral Planning ips MCBU - Pe IM East State 2 VC 9H_WC1_U VC 9H VC 9H VC 9H	rmian-Panhan Zone - 3001 JP-W0513	dle Gold Data	Local Co-ord TVD Referen MD Referenc North Refere Survey Calcu	linate Reference ce: e: nce: ulation Method	ce: I:	Well ZHU 2331 WC 9H RKB @ 3235.70ft (RKB) RKB @ 3235.70ft (RKB) Grid Minimum Curvature			
Project		Plannin	g - NM East St	ate Zone - 300	1, Permian Ba	isin - New Mexi	ico - East/Sout	h East, Plan	ning Project for	Permian wells ir	NM Zone 3001	
Map System: Geo Datum: Map Zone:	L N N	JS State IAD 192 Iew Me>	e Plane 1927 (E 7 (NADCON C kico East 3001	Exact solution) ONUS)		System Dat	um:		Mean Sea Level Using geodetic s	cale factor		
Site		ZHU 23	31 WC 9H W	C1 UP-W0513								
Site Position: From: Position Uncerta	inty:	Мар	0.00 ft	Northi Eastin Slot R	ng: g: adius:	372,8 680,4	00.841 usft 62.134 usft 13-3/16 "	Latitude: Longitude: Grid Conve	ergence:		32° 1' 24.985 N 103° 45' 3.753 W 0.31 °	
Well		ZHU 23	31 WC 9H									
Well Position		+N/-S	0.0	0.ft <b>No</b>	rthina:		372 800 841		32° 1' 24 985 N			
Weil Fosition		+E/-W	0.0	00 ft Ea	sting:		680,462.134	usft L	Longitude: 103° 45' 3.753			
Position Uncerta	inty		2.0	00 ft We	ellhead Elevati	ion:		ft G	round Level:		3,205.70 ft	
	_											
Wellbore		ZHU 2	331 WC 9H									
Magnetics		Мо	del Name	Sample	e Date	Declina (°)	tion	Dip	o Angle (°)	Strength nT)		
			User Defined		2/10/2020		0.00		0.00 0.0000000			
Design		7411.23										
Design		200 23	51 WC 9H									
Audit Notes:				Dhoo	D		Tio	On Donth		0.00		
version.				FlidSt	<b>;.</b> Г	LAN	ne	On Depth.		0.00		
Vertical Section:				epth From (TV (ft)	′D)	+N/-S (ft)	+E. (f	/-W ft)		irection (°)		
				0.00		0.00	0.	00		0.60		
	_											
Plan Sections												
Measured Depth I	Inclina	ation	Azimuth	Vertical Depth (ft)	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target	
(11)	C)		0	(11)	(11)	(11)	(710011)	(710011)	(710011)	()	raiget	
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00		
5,300.00		0.00	0.00	5,300.00	0.00	0.00	0.00	0.0	0.00	0.00		
0,139.87		12.60 172.06 6,133.12 -91.04 12.60 172.06 10.102.38 -969.60				12.70	1.50	1.5		172.06		
11.046.93		0.00 0.00 10.935.50 -1.060.70				147 93	1.50	-1 <u>F</u>	50 0.00	180.00		
11.096.93		0.00	0.00	10,985.50	-1.060.76	147.93	0.00	0.0	0.00	0.00		
12,221.93		90.00	359.74	11,701.70	-344.57	144.67	8.00	8.0	0.00	0.00	ZHU 2331 WC 9H FT	
22,139.02		90.00	359.74	11,701.70	9,572.43	99.52	0.00	0.0	00.00	0.00	ZHU 2331 WC 9H BH	

Released to Imaging: 5/17/2021 4:03:26 PM

### Received by OCD: 5/17/2021 7:39:42 AM

## ConocoPhillips

Planning Report

Database:	EDT 14 Central Planning	Local Co-ordinate Reference:	Well ZHU 2331 WC 9H
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 9H_WC1_UP-W0513	North Reference:	Grid
Well:	ZHU 2331 WC 9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ZHU 2331 WC 9H		
Design:	ZHU 2331 WC 9H		

#### Planned Survey

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(ft)	(°)	(°)	(ft)	(ft)	(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
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
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	1,100.00	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
2,500.00	0.00	0.00	2,000.00	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
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	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
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4 200 00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5.300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
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COMPASS 5000.14 Build 85

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### Received by OCD: 5/17/2021 7:39:42 AM

## ConocoPhillips

Planning Report

Database:	EDT 14 Central Planning	Local Co-ordinate Reference:	Well ZHU 2331 WC 9H
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 9H_WC1_UP-W0513	North Reference:	Grid
Well:	ZHU 2331 WC 9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ZHU 2331 WC 9H		
Design:	ZHU 2331 WC 9H		

#### Planned Survey

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
5,400.00	1.50	172.06	5,399.99	-1.30	0.18	-1.29	1.50	1.50	0.00
5 500 00	3 00	172 06	5 499 91	-5 18	0 72	-5 18	1 50	1 50	0.00
5 600 00	4 50	172.00	5 599 69	-11 66	1.63	-11 64	1.50	1.50	0.00
5 700 00	4.00 6.00	172.00	5 600 27	-20.72	2.80	-20.69	1.50	1.50	0.00
5,700.00	7.50	172.00	5,035.27	20.72	2.05	-20.00	1.50	1.50	0.00
5,800.00	7.50	172.00	5,796.57	-32.37	4.51	-32.32	1.50	1.50	0.00
5,900.00	9.00	172.00	5,697.54	-40.56	0.50	-40.51	1.50	1.50	0.00
6,000.00	10.50	172.06	5,996.09	-63.35	8.83	-63.25	1.50	1.50	0.00
6,100.00	12.00	172.06	6,094.16	-82.67	11.53	-82.55	1.50	1.50	0.00
6,139.87	12.60	172.06	6,133.12	-91.08	12.70	-90.94	1.50	1.50	0.00
6,200.00	12.60	172.06	6,191.80	-104.07	14.51	-103.91	0.00	0.00	0.00
6,300.00	12.60	172.06	6,289.39	-125.67	17.53	-125.48	0.00	0.00	0.00
6 400 00	12 60	172 06	6 386 99	-147 27	20.54	-147 05	0.00	0.00	0.00
6 500 00	12.00	172.00	6 484 58	-168.88	23.55	-168.62	0.00	0.00	0.00
6,600,00	12.00	172.00	6 582 17	-190.48	26.56	_190.19	0.00	0.00	0.00
6 700 00	12.00	172.00	6 679 76	-212.08	20.00	-211 76	0.00	0.00	0.00
6,700.00	12.00	172.00	6 777 36	-233.68	32 50	-211.70	0.00	0.00	0.00
0,000.00	12.00	172.00	0,777.00	200.00	02.00	200.00	0.00	0.00	0.00
6,900.00	12.60	172.06	6,874.95	-255.28	35.60	-254.90	0.00	0.00	0.00
7,000.00	12.60	172.06	6,972.54	-276.89	38.61	-276.47	0.00	0.00	0.00
7,100.00	12.60	172.06	7,070.13	-298.49	41.63	-298.04	0.00	0.00	0.00
7,200.00	12.60	172.06	7,167.73	-320.09	44.64	-319.61	0.00	0.00	0.00
7,300.00	12.60	172.06	7,265.32	-341.69	47.65	-341.18	0.00	0.00	0.00
7,400.00	12.60	172.06	7,362.91	-363.29	50.66	-362.75	0.00	0.00	0.00
7,500.00	12.60	172.06	7,460.50	-384.90	53.68	-384.32	0.00	0.00	0.00
7,600.00	12.60	172.06	7,558.10	-406.50	56.69	-405.89	0.00	0.00	0.00
7,700.00	12.60	172.06	7,655.69	-428.10	59.70	-427.46	0.00	0.00	0.00
7,800.00	12.60	172.06	7,753.28	-449.70	62.71	-449.03	0.00	0.00	0.00
7 000 00	12.60	172.06	7 850 87	471 30	65 73	470.60	0.00	0.00	0.00
8,000,00	12.00	172.00	7,030.07	402.01	68 74	-470.00	0.00	0.00	0.00
8 100 00	12.00	172.00	8 046 06	-492.91	71 75	-492.10	0.00	0.00	0.00
8,100.00	12.00	172.00	8 143 65	536 11	71.75	535 30	0.00	0.00	0.00
8 300 00	12.00	172.00	8 241 24	-550.11	74.70	-555.50	0.00	0.00	0.00
0,000.00	12.00	172.00	0,241.24	-337.71	11.10	-550.07	0.00	0.00	0.00
8,400.00	12.60	172.06	8,338.83	-579.31	80.79	-578.44	0.00	0.00	0.00
8,500.00	12.60	172.06	8,436.43	-600.92	83.80	-600.01	0.00	0.00	0.00
8,600.00	12.60	172.06	8,534.02	-622.52	86.82	-621.58	0.00	0.00	0.00
8,700.00	12.60	172.06	8,631.61	-644.12	89.83	-643.15	0.00	0.00	0.00
8,800.00	12.60	172.06	8,729.20	-665.72	92.84	-664.72	0.00	0.00	0.00
8,900.00	12.60	172.06	8,826.80	-687.32	95.85	-686.29	0.00	0.00	0.00
9.000.00	12.60	172.06	8.924.39	-708.93	98.87	-707.86	0.00	0.00	0.00
9,100.00	12.60	172.06	9.021.98	-730.53	101.88	-729.43	0.00	0.00	0.00
9.200.00	12.60	172.06	9,119,57	-752.13	104.89	-751.00	0.00	0.00	0.00
9,300.00	12.60	172.06	9,217.17	-773.73	107.90	-772.57	0.00	0.00	0.00
0,400,00	40.00	170.00	0.044.70	705 00	110.00	704.44	0.00	0.00	0.00
9,400.00	12.60	172.06	9,314.76	-795.33	110.92	-794.14	0.00	0.00	0.00
9,500.00	12.60	172.06	9,412.35	-816.94	113.93	-815.71	0.00	0.00	0.00
9,600.00	12.60	172.06	9,509.94	-838.54	116.94	-837.28	0.00	0.00	0.00
9,700.00	12.60	172.06	9,607.54	-800.14	119.95	-858.85	0.00	0.00	0.00
9,800.00	12.60	172.06	9,705.13	-881.74	122.97	-880.42	0.00	0.00	0.00
9,900.00	12.60	172.06	9,802.72	-903.34	125.98	-901.99	0.00	0.00	0.00
10,000.00	12.60	172.06	9,900.31	-924.95	128.99	-923.55	0.00	0.00	0.00
10,100.00	12.60	172.06	9,997.91	-946.55	132.00	-945.12	0.00	0.00	0.00
10,207.06	12.60	172.06	10,102.38	-969.67	135.23	-968.22	0.00	0.00	0.00
10,300.00	11.20	172.06	10,193.33	-988.66	137.88	-987.17	1.50	-1.50	0.00
10 400 00	9 70	172.06	10,291 67	-1.006 63	140 38	-1.005 11	1 50	-1 50	0.00
10,500.00	8 20	172.00	10,390 44	-1.022 04	142 53	-1.020 50	1.50	-1 50	0.00
10,000.00	0.20	.72.00		.,022.01	. 12.00	.,020.00	1.00	1.00	0.00

2/11/2020 9:54:33AM

Released to Imaging: 5/17/2021 4:03:26 PM

Page 4

COMPASS 5000.14 Build 85

Planning Report

Database:	EDT 14 Central Planning	Local Co-ordinate Reference:	Well ZHU 2331 WC 9H
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 9H_WC1_UP-W0513	North Reference:	Grid
Well:	ZHU 2331 WC 9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ZHU 2331 WC 9H		
Design:	ZHU 2331 WC 9H		

#### Planned Survey

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
10,600.00	6.70	172.06	10,489.60	-1,034.89	144.32	-1,033.33	1.50	-1.50	0.00
10,700.00	5.20	172.06	10,589.05	-1,045.16	145.76	-1,043.59	1.50	-1.50	0.00
10,800.00	3.70	172.06	10,688.75	-1,052.85	146.83	-1,051.27	1.50	-1.50	0.00
10 900 00	2 20	172.06	10 788 61	-1 057 96	147 54	-1 056 37	1 50	-1.50	0.00
11 000 00	0.70	172.00	10,888,58	-1 060 47	147.89	-1 058 87	1.50	-1 50	0.00
11,000.00	0.00	0.00	10,000.00	-1 060 76	147.03	-1 059 16	1.50	-1.50	0.00
11 096 93	0.00	0.00	10,985,50	-1 060 76	147.93	-1 059 16	0.00	0.00	0.00
11,100.00	0.25	359.74	10,988.58	-1,060.75	147.93	-1,059.15	8.00	8.00	0.00
11 150 00	4.25	350 74	11 038 53	1 058 70	147 02	1 057 10	8 00	8.00	0.00
11,130.00	4.23	350.74	11,030.33	1 053 35	147.92	1 051 76	8.00	8.00	0.00
11,200.00	12.25	350.74	11,000.22	1 044 46	147.90	1 042 87	8.00	8.00	0.00
11,250.00	12.20	359.74	11,137.41	-1,044.40	147.00	-1,042.07	8.00	8.00	0.00
11,300.00	20.25	250.74	11,100.07	1 016 51	147.00	-1,030.57	8.00	8.00	0.00
11,550.00	20.25	559.74	11,233.34	-1,010.51	147.75	-1,014.92	8.00	8.00	0.00
11,400.00	24.25	359.74	11,279.61	-997.58	147.64	-995.99	8.00	8.00	0.00
11,450.00	28.25	359.74	11,324.45	-975.47	147.54	-973.89	8.00	8.00	0.00
11,500.00	32.25	359.74	11,367.63	-950.29	147.43	-948.71	8.00	8.00	0.00
11,550.00	36.25	359.74	11,408.96	-922.16	147.30	-920.58	8.00	8.00	0.00
11,600.00	40.25	359.74	11,448.22	-891.22	147.16	-889.64	8.00	8.00	0.00
11,650.00	44.25	359.74	11,485.22	-857.61	147.01	-856.03	8.00	8.00	0.00
11,700.00	48.25	359.74	11,519.79	-821.50	146.84	-819.93	8.00	8.00	0.00
11,750.00	52.25	359.74	11,551.76	-783.07	146.67	-781.50	8.00	8.00	0.00
11,800.00	56.25	359.74	11,580.97	-742.50	146.48	-740.94	8.00	8.00	0.00
11,850.00	60.25	359.74	11,607.28	-699.99	146.29	-698.44	8.00	8.00	0.00
11,900.00	64.25	359.74	11,630.56	-655.76	146.09	-654.20	8.00	8.00	0.00
11,950.00	68.25	359.74	11,650.69	-610.00	145.88	-608.45	8.00	8.00	0.00
12,000.00	72.25	359.74	11,667.59	-562.95	145.66	-561.41	8.00	8.00	0.00
12,050.00	76.25	359.74	11,681.16	-514.84	145.45	-513.30	8.00	8.00	0.00
12,100.00	80.25	359.74	11,691.35	-465.90	145.22	-464.37	8.00	8.00	0.00
12.150.00	84.25	359.74	11.698.09	-416.37	145.00	-414.84	8.00	8.00	0.00
12.200.00	88.25	359,74	11,701,36	-366.49	144.77	-364.96	8.00	8.00	0.00
12,221.93	90.00	359.74	11,701.70	-344.57	144.67	-343.04	8.00	8.00	0.00
12,300.00	90.00	359.74	11,701.70	-266.49	144.31	-264.98	0.00	0.00	0.00
12,400.00	90.00	359.74	11,701.70	-166.49	143.86	-164.99	0.00	0.00	0.00
12,500.00	90.00	359.74	11,701.70	-66.49	143.40	-65.00	0.00	0.00	0.00
12,600.00	90.00	359.74	11,701.70	33.50	142.95	34.99	0.00	0.00	0.00
12,700.00	90.00	359,74	11,701,70	133.50	142.49	134.98	0.00	0.00	0.00
12,800.00	90.00	359.74	11,701.70	233.50	142.04	234.97	0.00	0.00	0.00
12,900.00	90.00	359.74	11,701.70	333.50	141.58	334.96	0.00	0.00	0.00
13.000.00	90.00	359.74	11,701,70	433.50	141.13	434.94	0.00	0.00	0.00
13.100.00	90.00	359.74	11.701.70	533.50	140.67	534.93	0.00	0.00	0.00
13.200.00	90.00	359.74	11.701.70	633.50	140.22	634.92	0.00	0.00	0.00
13.300.00	90.00	359,74	11,701,70	733.50	139.76	734.91	0.00	0.00	0.00
13,400.00	90.00	359.74	11,701.70	833.50	139.31	834.90	0.00	0.00	0.00
13 500 00	90.00	359 74	11 701 70	933 50	138 85	934 89	0.00	0.00	0.00
13.600.00	90.00	359.74	11,701,70	1.033.49	138.40	1.034.88	0.00	0.00	0.00
13,700.00	90.00	359.74	11,701.70	1,133.49	137.94	1,134.87	0.00	0.00	0.00
13 800 00	90.00	359 74	11,701 70	1,233 49	137 49	1,234 85	0.00	0.00	0.00
13.900.00	90.00	359.74	11,701.70	1,333.49	137.03	1,334.84	0.00	0.00	0.00
14 000 00	00.00	250.74	11 701 70	1 422 40	106 57	1 /0/ 00	0.00	0.00	0.00
14,000.00	90.00	359.74	11,701.70	1,433.49	130.57	1,434.83 1 524 92	0.00	0.00	0.00
14,100.00	90.00	359.74	11,701.70	1,000.49	130.12	1,034.82	0.00	0.00	0.00
14,200.00	90.00	309.14	11,701.70	1,000.49	100.00	1 724 00	0.00	0.00	0.00
14,300.00	90.00	309.14	11,701.70	1,133.49	130.21	1,134.00	0.00	0.00	0.00
14,400.00	90.00	559.74	11,701.70	1,033.49	134.73	1,034.79	0.00	0.00	0.00

2/11/2020 9:54:33AM

Released to Imaging: 5/17/2021 4:03:26 PM

Planning Report

Database:	EDT 14 Central Planning	Local Co-ordinate Reference:	Well ZHU 2331 WC 9H
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 9H_WC1_UP-W0513	North Reference:	Grid
Well:	ZHU 2331 WC 9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ZHU 2331 WC 9H		
Design:	ZHU 2331 WC 9H		

#### Planned Survey

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
14 500 00	90.00	359 74	11 701 70	1 933 49	134.30	1 934 78	0.00	0.00	0.00
14,600,00	90.00	359 74	11 701 70	2 033 48	133.84	2 034 77	0.00	0.00	0.00
14 700 00	90.00	359 74	11 701 70	2 133 48	133 39	2 134 75	0.00	0.00	0.00
14,700.00	00.00	350.74	11 701 70	2,100.40	132.03	2,104.70	0.00	0.00	0.00
14,000.00	90.00	250.74	11,701.70	2,233.40	132.93	2,234.74	0.00	0.00	0.00
14,900.00	90.00	559.74	11,701.70	2,333.40	132.40	2,334.73	0.00	0.00	0.00
15,000.00	90.00	359.74	11,701.70	2,433.48	132.02	2,434.72	0.00	0.00	0.00
15,100.00	90.00	359.74	11,701.70	2,533.48	131.57	2,534.71	0.00	0.00	0.00
15,200.00	90.00	359.74	11,701.70	2,633.48	131.11	2,634.70	0.00	0.00	0.00
15,300.00	90.00	359.74	11,701.70	2,733.48	130.66	2,734.69	0.00	0.00	0.00
15,400.00	90.00	359.74	11,701.70	2,833.48	130.20	2,834.68	0.00	0.00	0.00
15,500.00	90.00	359.74	11,701.70	2,933.47	129.75	2,934.67	0.00	0.00	0.00
15,600.00	90.00	359.74	11,701.70	3,033.47	129.29	3,034.65	0.00	0.00	0.00
15,700.00	90.00	359.74	11,701,70	3,133,47	128.84	3.134.64	0.00	0.00	0.00
15.800.00	90.00	359.74	11,701,70	3,233,47	128.38	3,234,63	0.00	0.00	0.00
15,900.00	90.00	359.74	11,701.70	3,333.47	127.92	3,334.62	0.00	0.00	0.00
16 000 00	90.00	359 74	11 701 70	3 433 47	127 47	3 434 61	0.00	0.00	0.00
16 100 00	90.00	359 74	11 701 70	3 533 47	127.01	3 534 60	0.00	0.00	0.00
16,100.00	90.00	359 74	11 701 70	3 633 47	126.56	3 634 59	0.00	0.00	0.00
16,200.00	90.00	350 74	11 701 70	3 733 47	126.00	3 734 58	0.00	0.00	0.00
16 400 00	90.00	359 74	11,701.70	3 833 47	125.10	3 834 56	0.00	0.00	0.00
16,500.00	00.00	250.74	11 701 70	2 022 46	125.10	2 024 55	0.00	0.00	0.00
16,500.00	90.00	359.74	11,701.70	3,933.40	125.19	3,934.55	0.00	0.00	0.00
16,600.00	90.00	359.74	11,701.70	4,033.46	124.74	4,034.54	0.00	0.00	0.00
16,700.00	90.00	359.74	11,701.70	4,133.46	124.28	4,134.53	0.00	0.00	0.00
16,800.00	90.00	359.74	11,701.70	4,233.46	123.83	4,234.52	0.00	0.00	0.00
16,900.00	90.00	359.74	11,701.70	4,333.46	123.37	4,334.51	0.00	0.00	0.00
17,000.00	90.00	359.74	11,701.70	4,433.46	122.92	4,434.50	0.00	0.00	0.00
17,100.00	90.00	359.74	11,701.70	4,533.46	122.46	4,534.49	0.00	0.00	0.00
17,200.00	90.00	359.74	11,701.70	4,633.46	122.01	4,634.48	0.00	0.00	0.00
17,300.00	90.00	359.74	11,701.70	4,733.46	121.55	4,734.46	0.00	0.00	0.00
17,400.00	90.00	359.74	11,701.70	4,833.46	121.10	4,834.45	0.00	0.00	0.00
17 500 00	90.00	359 74	11 701 70	4 933 45	120 64	4 934 44	0.00	0.00	0.00
17,600,00	90.00	359 74	11 701 70	5 033 45	120.18	5 034 43	0.00	0.00	0.00
17,000.00	90.00	359 74	11 701 70	5 133 45	119 73	5 134 42	0.00	0.00	0.00
17,800,00	90.00	359 74	11 701 70	5 233 45	119.27	5 234 41	0.00	0.00	0.00
17,900.00	90.00	359.74	11,701.70	5,333.45	118.82	5,334.40	0.00	0.00	0.00
18,000,00	00.00	250 74	11 701 70	5 422 45	110.26	5 424 20	0.00	0.00	0.00
18,000.00	90.00	250.74	11,701.70	5,433.45	117.01	5,434.35	0.00	0.00	0.00
18,100.00	90.00	250.74	11,701.70	5,555.45	117.91	5,554.57	0.00	0.00	0.00
18,200.00	90.00	250.74	11,701.70	5,055.45	117.43	5,034.30	0.00	0.00	0.00
18,300.00	90.00	359.74	11,701.70	5,733.45	117.00	5,734.35	0.00	0.00	0.00
10,400.00	90.00	359.74	11,701.70	5,633.44	110.54	5,034.34	0.00	0.00	0.00
18,500.00	90.00	359.74	11,701.70	5,933.44	116.09	5,934.33	0.00	0.00	0.00
18,600.00	90.00	359.74	11,701.70	6,033.44	115.63	6,034.32	0.00	0.00	0.00
18,700.00	90.00	359.74	11,701.70	6,133.44	115.18	6,134.31	0.00	0.00	0.00
18,800.00	90.00	359.74	11,701.70	6,233.44	114.72	6,234.30	0.00	0.00	0.00
18,900.00	90.00	359.74	11,701.70	6,333.44	114.27	6,334.29	0.00	0.00	0.00
19,000.00	90.00	359.74	11,701.70	6,433.44	113.81	6,434.27	0.00	0.00	0.00
19,100.00	90.00	359.74	11,701.70	6,533.44	113.36	6,534.26	0.00	0.00	0.00
19,200.00	90.00	359.74	11,701.70	6,633.44	112.90	6,634.25	0.00	0.00	0.00
19.300.00	90.00	359.74	11,701.70	6,733.44	112.45	6,734.24	0.00	0.00	0.00
19,400.00	90.00	359.74	11,701.70	6,833.43	111.99	6,834.23	0.00	0.00	0.00
19.500.00	90.00	359.74	11,701,70	6.933.43	111.53	6.934.22	0.00	0.00	0.00
19.600.00	90.00	359.74	11,701.70	7.033.43	111.08	7.034.21	0.00	0.00	0.00
19 700 00	90.00	359 74	11,701 70	7,133,43	110 62	7,134 20	0.00	0.00	0.00
19 800 00	90.00	359 74	11 701 70	7 233 43	110.17	7 234 18	0.00	0.00	0.00
10,000.00	00.00	500.77	,. 01.70	.,_50.10		.,	0.00	0.00	0.00

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Page 6

COMPASS 5000.14 Build 85

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Planning Report

Database:	EDT 14 Central Planning	Local Co-ordinate Reference:	Well ZHU 2331 WC 9H
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 9H_WC1_UP-W0513	North Reference:	Grid
Well:	ZHU 2331 WC 9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ZHU 2331 WC 9H		
Design:	ZHU 2331 WC 9H		

#### 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	359.74	11,701.70	7,333.43	109.71	7,334.17	0.00	0.00	0.00
20,000.00	90.00	359.74	11,701.70	7,433.43	109.26	7,434.16	0.00	0.00	0.00
20,100.00	90.00	359.74	11,701.70	7,533.43	108.80	7,534.15	0.00	0.00	0.00
20,200.00	90.00	359.74	11,701.70	7,633.43	108.35	7,634.14	0.00	0.00	0.00
20,300.00	90.00	359.74	11,701.70	7,733.42	107.89	7,734.13	0.00	0.00	0.00
20,400.00	90.00	359.74	11,701.70	7,833.42	107.44	7,834.12	0.00	0.00	0.00
20,500.00	90.00	359.74	11,701.70	7,933.42	106.98	7,934.11	0.00	0.00	0.00
20,600.00	90.00	359.74	11,701.70	8,033.42	106.53	8,034.10	0.00	0.00	0.00
20,700.00	90.00	359.74	11,701.70	8,133.42	106.07	8,134.08	0.00	0.00	0.00
20,800.00	90.00	359.74	11,701.70	8,233.42	105.62	8,234.07	0.00	0.00	0.00
20,900.00	90.00	359.74	11,701.70	8,333.42	105.16	8,334.06	0.00	0.00	0.00
21,000.00	90.00	359.74	11,701.70	8,433.42	104.71	8,434.05	0.00	0.00	0.00
21,100.00	90.00	359.74	11,701.70	8,533.42	104.25	8,534.04	0.00	0.00	0.00
21,200.00	90.00	359.74	11,701.70	8,633.42	103.79	8,634.03	0.00	0.00	0.00
21,300.00	90.00	359.74	11,701.70	8,733.41	103.34	8,734.02	0.00	0.00	0.00
21,400.00	90.00	359.74	11,701.70	8,833.41	102.88	8,834.01	0.00	0.00	0.00
21,500.00	90.00	359.74	11,701.70	8,933.41	102.43	8,933.99	0.00	0.00	0.00
21,600.00	90.00	359.74	11,701.70	9,033.41	101.97	9,033.98	0.00	0.00	0.00
21,700.00	90.00	359.74	11,701.70	9,133.41	101.52	9,133.97	0.00	0.00	0.00
21,800.00	90.00	359.74	11,701.70	9,233.41	101.06	9,233.96	0.00	0.00	0.00
21,900.00	90.00	359.74	11,701.70	9,333.41	100.61	9,333.95	0.00	0.00	0.00
22,000.00	90.00	359.74	11,701.70	9,433.41	100.15	9,433.94	0.00	0.00	0.00
22,100.00	90.00	359.74	11,701.70	9,533.41	99.70	9,533.93	0.00	0.00	0.00
22,139.02	90.00	359.74	11,701.70	9,572.43	99.52	9,572.95	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 9H BHL - plan hits target cer - Point	0.00 hter	0.00	11,701.70	9,572.43	99.52	382,372.737	680,561.648	32° 2' 59.705 N	103° 45' 1.998 W
ZHU 2331 WC 9H FTP - plan hits target cer - Point	0.00 nter	0.00	11,701.70	-344.57	144.67	372,456.295	680,606.796	32° 1' 21.568 N	103° 45' 2.095 W

Casing Points							
	Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter (")	
	22,139.02	11,701.70	7" x 8 3/4"		7	8-3/4	
	12,221.93	11,701.70	9-5/8" Casing		9-5/8	12-1/4	
	2,200.00	2,200.00	16"		16	17-1/2	

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# ConocoPhillips MCBU -Permian-Panhandle Gold Data

Planning - NM East State Zone - 3001 ZHU 2331 WC 9H\_WC1\_UP-W0513 ZHU 2331 WC 9H

ZHU 2331 WC 9H

Plan: ZHU 2331 WC 9H

# **Standard Planning Report**

11 February, 2020

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	EDT Con Plar ZHU ZHU ZHU ZHU	<sup>-</sup> 14 Cer ocoPhill nning - N J 2331 V J 2331 V J 2331 V J 2331 V J 2331 V	tral Planning ips MCBU - Pe IM East State 2 VC 9H_WC1_U VC 9H VC 9H VC 9H	rmian-Panhan Zone - 3001 JP-W0513	dle Gold Data	Local Co-ordinate Reference: V TVD Reference: R MD Reference: R North Reference: C Survey Calculation Method: N			Well ZHU 2331 WC 9H RKB @ 3235.70ft (RKB) RKB @ 3235.70ft (RKB) Grid Minimum Curvature			
Project		Plannin	g - NM East St	ate Zone - 300	1, Permian Ba	isin - New Mexi	ico - East/Sout	h East, Plan	ning Project for	Permian wells ir	NM Zone 3001	
Map System: Geo Datum: Map Zone:	L N N	JS State Plane 1927 (Exact solution) System Datum: Mean Sea Level VAD 1927 (NADCON CONUS) New Mexico East 3001 Using geodetic scale factor										
Site		ZHU 23	31 WC 9H W	C1 UP-W0513								
Site Position: From: Position Uncerta	inty:	Мар	0.00 ft	Northi Eastin Slot R	ng: g: adius:	372,8 680,4	00.841 usft 62.134 usft 13-3/16 "	Latitude: Longitude: Grid Conve	ergence:		32° 1' 24.985 N 103° 45' 3.753 W 0.31 °	
Well		ZHU 2331 WC 9H										
Well Position		+N/-S	0.0	0.ft <b>No</b>	rthina:		372 800 841	usft I	atitudo:		32° 1' 24 985 N	
Weil Fosition		+E/-W	0.0	00 ft Ea	sting:	680,462.134 usft Longitude:				103° 45' 3.753 W		
Position Uncerta	inty		2.0	00 ft We	ellhead Elevati	ion:		ft G	round Level:		3,205.70 ft	
Wellbore ZHU 2331 WC 9H												
Magnetics		Мо	del Name	Sample	e Date	Declination Dip (°)			o Angle (°)	Field : (	Strength nT)	
			User Defined		2/10/2020	0.00			0.00		0.0000000	
Design		7411.23										
Design		200 23	51 WC 9H									
Audit Notes:				Dhoo	D		Tio	On Donth		0.00		
version.				FlidSt	<b>;.</b> Г	LAN	ne	On Depth.		0.00		
Vertical Section:				epth From (TV (ft)	′D)	+N/-S (ft)	+E. (f	/-W ft)		irection (°)		
				0.00		0.00	0.	00		0.60		
	_											
Plan Sections												
Measured Depth I	Inclina	ation	Azimuth	Vertical Depth (ft)	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target	
(11)	C)		0	(11)	(11)	(11)	(710011)	(710011)	(710011)	()	raiget	
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00		
5,300.00		0.00	0.00	5,300.00	0.00	0.00	0.00	0.0	0.00	0.00		
0,139.87		12.0U	172.06	0,133.12	-91.08	12.70	1.50	1.5		172.06		
11.046.93		0.00	0.00	10,102.30	-309.07	147 93	1.50	-1 <u>F</u>	50 0.00	180.00		
11.096.93		0.00	0.00	10,985.50	-1.060.76	147.93	0.00	0.0	0.00	0.00		
12,221.93		90.00	359.74	11,701.70	-344.57	144.67	8.00	8.0	0.00	0.00	ZHU 2331 WC 9H FT	
22,139.02		90.00	359.74	11,701.70	9,572.43	99.52	0.00	0.0	00.00	0.00	ZHU 2331 WC 9H BH	

Released to Imaging: 5/17/2021 4:03:26 PM

### Received by OCD: 5/17/2021 7:39:42 AM

## ConocoPhillips

Planning Report

Database:	EDT 14 Central Planning	Local Co-ordinate Reference:	Well ZHU 2331 WC 9H
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 9H_WC1_UP-W0513	North Reference:	Grid
Well:	ZHU 2331 WC 9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ZHU 2331 WC 9H		
Design:	ZHU 2331 WC 9H		

#### Planned Survey

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(ft)	(°)	(°)	(ft)	(ft)	(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
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
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
1,500.00	0.00	0.00	1,500.00	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
1,700.00	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
_,	0.00	0.00	_,	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	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4.200.00	0.00	0.00	4,200,00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4.400.00	0.00	0.00	4.400.00	0.00	0.00	0.00	0.00	0.00	0.00
4 500 00	0.00	0.00	4 500 00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
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2/11/2020 9:54:33AM

Released to Imaging: 5/17/2021 4:03:26 PM

Page 3

COMPASS 5000.14 Build 85

.

### Received by OCD: 5/17/2021 7:39:42 AM

## ConocoPhillips

Planning Report

Database:	EDT 14 Central Planning	Local Co-ordinate Reference:	Well ZHU 2331 WC 9H
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 9H_WC1_UP-W0513	North Reference:	Grid
Well:	ZHU 2331 WC 9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ZHU 2331 WC 9H		
Design:	ZHU 2331 WC 9H		

#### Planned Survey

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Section (ft)	Rate (°/100ft)	Rate (°/100ft)	Rate (°/100ft)
5.400.00	1.50	172.06	5.399.99	-1.30	0.18	-1.29	1.50	1.50	0.00
E E00.00	2.00	172.06	E 400.01	E 10	0.70	E 10	1 50	1 50	0.00
5,500.00	3.00	172.00	5,499.91	-0.10	0.72	-0.10	1.50	1.50	0.00
5,600.00	4.50	172.06	5,599.69	-11.00	1.63	-11.64	1.50	1.50	0.00
5,700.00	6.00	172.06	5,699.27	-20.72	2.89	-20.69	1.50	1.50	0.00
5,800.00	7.50	172.06	5,798.57	-32.37	4.51	-32.32	1.50	1.50	0.00
5,900.00	9.00	172.06	5,897.54	-46.58	6.50	-46.51	1.50	1.50	0.00
6,000.00	10.50	172.06	5,996.09	-63.35	8.83	-63.25	1.50	1.50	0.00
6,100.00	12.00	172.06	6,094.16	-82.67	11.53	-82.55	1.50	1.50	0.00
6,139.87	12.60	172.06	6,133.12	-91.08	12.70	-90.94	1.50	1.50	0.00
6,200.00	12.60	172.06	6,191.80	-104.07	14.51	-103.91	0.00	0.00	0.00
6,300.00	12.60	172.06	6,289.39	-125.67	17.53	-125.48	0.00	0.00	0.00
6,400.00	12.60	172.06	6,386.99	-147.27	20.54	-147.05	0.00	0.00	0.00
6.500.00	12.60	172.06	6,484,58	-168.88	23.55	-168.62	0.00	0.00	0.00
6 600 00	12 60	172.06	6 582 17	-190 48	26.56	-190 19	0.00	0.00	0.00
6 700 00	12 60	172.06	6 679 76	-212.08	29.58	-211 76	0.00	0.00	0.00
6 800 00	12.00	172.00	6 777 36	-233.68	32 59	-233 33	0.00	0.00	0.00
6,000.00	12.00	172.00	6,974.05	255.00	35.60	254.00	0.00	0.00	0.00
0,900.00	12.00	172.00	0,074.95	-200.20	35.60	-254.90	0.00	0.00	0.00
7,000.00	12.00	172.00	0,972.04	-270.09	30.01	-270.47	0.00	0.00	0.00
7,100.00	12.60	172.06	7,070.13	-298.49	41.63	-298.04	0.00	0.00	0.00
7,200.00	12.60	172.06	7,167.73	-320.09	44.64	-319.61	0.00	0.00	0.00
7,300.00	12.60	172.06	7,265.32	-341.69	47.65	-341.18	0.00	0.00	0.00
7,400.00	12.60	172.06	7,362.91	-363.29	50.66	-362.75	0.00	0.00	0.00
7,500.00	12.60	172.06	7,460.50	-384.90	53.68	-384.32	0.00	0.00	0.00
7,600.00	12.60	172.06	7,558.10	-406.50	56.69	-405.89	0.00	0.00	0.00
7,700.00	12.60	172.06	7,655.69	-428.10	59.70	-427.46	0.00	0.00	0.00
7,800.00	12.60	172.06	7,753.28	-449.70	62.71	-449.03	0.00	0.00	0.00
7,900.00	12.60	172.06	7,850.87	-471.30	65.73	-470.60	0.00	0.00	0.00
8,000.00	12.60	172.06	7,948.46	-492.91	68.74	-492.16	0.00	0.00	0.00
8,100.00	12.60	172.06	8,046.06	-514.51	71.75	-513.73	0.00	0.00	0.00
8,200.00	12.60	172.06	8,143.65	-536.11	74.76	-535.30	0.00	0.00	0.00
8,300.00	12.60	172.06	8,241.24	-557.71	77.78	-556.87	0.00	0.00	0.00
8 400 00	12 60	172.06	8 338 83	-579.31	80 79	-578 44	0.00	0.00	0.00
8,500,00	12.60	172.06	8 436 43	-600.92	83.80	-600.01	0.00	0.00	0.00
8,600,00	12.00	172.00	8 534 02	-622 52	86.82	-621 58	0.00	0.00	0.00
8 700 00	12.00	172.00	8 631 61	-644 12	89.83	-643 15	0.00	0.00	0.00
8,800.00	12.60	172.06	8,729.20	-665.72	92.84	-664.72	0.00	0.00	0.00
8,900.00	12.60	172.06	8.826.80	-687.32	95.85	-686.29	0.00	0.00	0.00
9.000.00	12.60	172.06	8,924,39	-708.93	98.87	-707.86	0.00	0.00	0.00
9 100 00	12.60	172.06	9 021 98	-730 53	101 88	-729 43	0.00	0.00	0.00
9 200 00	12.00	172.00	9 119 57	-752 13	104.89	-751.00	0.00	0.00	0.00
9,300.00	12.60	172.06	9,217.17	-773.73	107.90	-772.57	0.00	0.00	0.00
9,400.00	12.60	172.06	9.314.76	-795.33	110.92	-794.14	0.00	0.00	0.00
9 500 00	12 60	172.06	9 412 35	-816.94	113 93	-815 71	0.00	0.00	0.00
9,600,00	12.00	172.00	9 509 94	-838 54	116.00	-837 28	0.00	0.00	0.00
9,000.00	12.00	172.00	9,607,54	-860 14	110.04	-858.85	0.00	0.00	0.00
0,700.00 0 200 00	12.00	172.00	970512	_881 7/	122 07	-880 42	0.00	0.00	0.00
9,000.00	12.00	172.00	0,000,70	-001.74	122.37	-000.42	0.00	0.00	0.00
9,900.00	12.60	172.06	9,802.72	-903.34	125.98	-901.99	0.00	0.00	0.00
10,000.00	12.60	172.06	9,900.31	-924.95	128.99	-923.55	0.00	0.00	0.00
10,100.00	12.60	172.06	9,997.91	-946.55	132.00	-945.12	0.00	0.00	0.00
10,207.06	12.60	172.06	10,102.38	-969.67	135.23	-968.22	0.00	0.00	0.00
10,300.00	11.20	172.06	10,193.33	-988.66	137.88	-987.17	1.50	-1.50	0.00
10,400.00	9.70	172.06	10,291.67	-1,006.63	140.38	-1,005.11	1.50	-1.50	0.00
10,500.00	8.20	172.06	10,390.44	-1,022.04	142.53	-1,020.50	1.50	-1.50	0.00

2/11/2020 9:54:33AM

Released to Imaging: 5/17/2021 4:03:26 PM

Page 4

COMPASS 5000.14 Build 85

Planning Report

Database:	EDT 14 Central Planning	Local Co-ordinate Reference:	Well ZHU 2331 WC 9H
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 9H_WC1_UP-W0513	North Reference:	Grid
Well:	ZHU 2331 WC 9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ZHU 2331 WC 9H		
Design:	ZHU 2331 WC 9H		

#### Planned Survey

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
10,600.00	6.70	172.06	10,489.60	-1,034.89	144.32	-1,033.33	1.50	-1.50	0.00
10,700.00	5.20	172.06	10,589.05	-1,045.16	145.76	-1,043.59	1.50	-1.50	0.00
10,800.00	3.70	172.06	10,688.75	-1,052.85	146.83	-1,051.27	1.50	-1.50	0.00
10,900.00	2.20	172.06	10,788.61	-1,057.96	147.54	-1,056.37	1.50	-1.50	0.00
11,000.00	0.70	172.06	10,888.58	-1,060.47	147.89	-1,058.87	1.50	-1.50	0.00
11,046.93	0.00	0.00	10,935.50	-1,060.76	147.93	-1,059.16	1.50	-1.50	0.00
11,096.93	0.00	0.00	10,985.50	-1,060.76	147.93	-1,059.16	0.00	0.00	0.00
11,100.00	0.25	359.74	10,988.58	-1,060.75	147.93	-1,059.15	8.00	8.00	0.00
11,150.00	4.25	359.74	11,038.53	-1,058.79	147.92	-1,057.19	8.00	8.00	0.00
11,200.00	8.25	359.74	11,088.22	-1,053.35	147.90	-1,051.76	8.00	8.00	0.00
11,250.00	12.25	359.74	11,137.41	-1,044.46	147.86	-1,042.87	8.00	8.00	0.00
11,300.00	16.25	359.74	11,185.87	-1,032.16	147.80	-1,030.57	8.00	8.00	0.00
11,350.00	20.25	359.74	11,233.34	-1,016.51	147.73	-1,014.92	8.00	8.00	0.00
11,400.00	24.25	359.74	11,279.61	-997.58	147.64	-995.99	8.00	8.00	0.00
11,450.00	28.25	359.74	11,324.45	-975.47	147.54	-973.89	8.00	8.00	0.00
11,500.00	32.25	359.74	11,367.63	-950.29	147.43	-948.71	8.00	8.00	0.00
11,550.00	36.25	359.74	11,408.96	-922.16	147.30	-920.58	8.00	8.00	0.00
11,600.00	40.25	359.74	11,448.22	-891.22	147.16	-889.64	8.00	8.00	0.00
11,650.00	44.25	359.74	11,485.22	-857.61	147.01	-856.03	8.00	8.00	0.00
11,700.00	48.25	359.74	11,519.79	-821.50	146.84	-819.93	8.00	8.00	0.00
11,750.00	52.25	359.74	11,551.76	-783.07	146.67	-781.50	8.00	8.00	0.00
11,800.00	56.25	359.74	11,580.97	-742.50	146.48	-740.94	8.00	8.00	0.00
11,850.00	60.25	359.74	11,607.28	-699.99	146.29	-098.44	8.00	8.00	0.00
11,900.00	64.25	359.74	11,630.56	-655.76	146.09	-654.20	8.00	8.00	0.00
11,950.00	68.25	359.74	11,650.69	-610.00	145.88	-608.45	8.00	8.00	0.00
12,000.00	72.25	359.74	11,667.59	-562.95	145.66	-561.41	8.00	8.00	0.00
12,050.00	76.25	359.74	11,681.16	-514.84	145.45	-513.30	8.00	8.00	0.00
12,100.00	80.25	359.74	11,691.35	-465.90	145.22	-464.37	8.00	8.00	0.00
12,150.00	84.25	359.74	11,698.09	-416.37	145.00	-414.84	8.00	8.00	0.00
12,200.00	88.25	359.74	11,701.36	-366.49	144.77	-364.96	8.00	8.00	0.00
12,221.93	90.00	359.74	11,701.70	-344.57	144.67	-343.04	8.00	8.00	0.00
12,300.00	90.00	359.74	11,701.70	-266.49	144.31	-264.98	0.00	0.00	0.00
12,400.00	90.00	359.74	11,701.70	-166.49	143.86	-164.99	0.00	0.00	0.00
12,500.00	90.00	359.74	11,701.70	-66.49	143.40	-65.00	0.00	0.00	0.00
12,600.00	90.00	359.74	11,701.70	33.50	142.95	34.99	0.00	0.00	0.00
12,700.00	90.00	359.74	11,701.70	133.50	142.49	134.98	0.00	0.00	0.00
12,000.00	90.00	359.74	11,701.70	233.50	142.04	234.97	0.00	0.00	0.00
12,900.00	50.00	559.74	11,701.70	333.50	141.50	334.90	0.00	0.00	0.00
13,000.00	90.00	359.74	11,701.70	433.50	141.13	434.94	0.00	0.00	0.00
13,100.00	90.00	359.74	11,701.70	533.50	140.67	534.93	0.00	0.00	0.00
13,200.00	90.00	359.74	11,701.70	033.50	140.22	034.92 724.01	0.00	0.00	0.00
13,300.00	90.00	359.74	11 701 70	833 50	139.70	834.90	0.00	0.00	0.00
12,500,00	00.00	250.74	11,701,70	022.50	120.05	024.80	0.00	0.00	0.00
13,500.00	90.00	359.74	11,701.70	933.50	130.00	934.09	0.00	0.00	0.00
13,000.00	90.00 90.00	359.74	11 701 70	1,033.49	130.40	1,034.00	0.00	0.00	0.00
13 800 00	90.00	359 74	11 701 70	1 233 49	137 49	1 234 85	0.00	0.00	0.00
13.900.00	90.00	359.74	11,701.70	1,333.49	137.03	1,334.84	0.00	0.00	0.00
14 000 00	00.00	350 74	11 701 70	1 / 22 / 0	126 57	1 121 02	0.00	0.00	0.00
14,000.00	90.00 Q0.00	359.14	11 701 70	1,400.49 1 533 10	130.07	1,404.00 1 521 82	0.00	0.00	0.00
14,100.00	90.00 90.00	359.74	11 701 70	1,555.49	130.12	1,004.02	0.00	0.00	0.00
14,200.00	90.00	359 74	11 701 70	1 733 49	135 21	1 734 80	0.00	0.00	0.00
14.400.00	90.00	359.74	11,701.70	1,833.49	134.75	1,834.79	0.00	0.00	0.00
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2/11/2020 9:54:33AM

Released to Imaging: 5/17/2021 4:03:26 PM

Planning Report

Database:	EDT 14 Central Planning	Local Co-ordinate Reference:	Well ZHU 2331 WC 9H
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 9H_WC1_UP-W0513	North Reference:	Grid
Well:	ZHU 2331 WC 9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ZHU 2331 WC 9H		
Design:	ZHU 2331 WC 9H		

#### Planned Survey

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
14 500 00	90.00	359 74	11 701 70	1 933 49	134.30	1 934 78	0.00	0.00	0.00
14,600,00	90.00	359 74	11 701 70	2 033 48	133.84	2 034 77	0.00	0.00	0.00
14 700 00	90.00	359 74	11 701 70	2 133 48	133 39	2 134 75	0.00	0.00	0.00
14,700.00	00.00	350.74	11 701 70	2,100.40	132.03	2,104.70	0.00	0.00	0.00
14,000.00	90.00	250.74	11,701.70	2,233.40	132.93	2,234.74	0.00	0.00	0.00
14,900.00	90.00	559.74	11,701.70	2,333.40	132.40	2,334.73	0.00	0.00	0.00
15,000.00	90.00	359.74	11,701.70	2,433.48	132.02	2,434.72	0.00	0.00	0.00
15,100.00	90.00	359.74	11,701.70	2,533.48	131.57	2,534.71	0.00	0.00	0.00
15,200.00	90.00	359.74	11,701.70	2,633.48	131.11	2,634.70	0.00	0.00	0.00
15,300.00	90.00	359.74	11,701.70	2,733.48	130.66	2,734.69	0.00	0.00	0.00
15,400.00	90.00	359.74	11,701.70	2,833.48	130.20	2,834.68	0.00	0.00	0.00
15,500.00	90.00	359.74	11,701.70	2,933.47	129.75	2,934.67	0.00	0.00	0.00
15,600.00	90.00	359.74	11,701.70	3,033.47	129.29	3,034.65	0.00	0.00	0.00
15,700.00	90.00	359.74	11,701,70	3,133,47	128.84	3.134.64	0.00	0.00	0.00
15.800.00	90.00	359.74	11,701,70	3,233,47	128.38	3,234,63	0.00	0.00	0.00
15,900.00	90.00	359.74	11,701.70	3,333.47	127.92	3,334.62	0.00	0.00	0.00
16 000 00	90.00	359 74	11 701 70	3 433 47	127 47	3 434 61	0.00	0.00	0.00
16 100 00	90.00	359 74	11 701 70	3 533 47	127.01	3 534 60	0.00	0.00	0.00
16,100.00	90.00	359 74	11 701 70	3 633 47	126.56	3 634 59	0.00	0.00	0.00
16,200.00	90.00	350 74	11 701 70	3 733 47	126.00	3 734 58	0.00	0.00	0.00
16 400 00	90.00	359 74	11 701 70	3 833 47	125.10	3 834 56	0.00	0.00	0.00
16,500.00	00.00	250.74	11 701 70	2 022 46	125.10	2 024 55	0.00	0.00	0.00
16,500.00	90.00	359.74	11,701.70	3,933.40	125.19	3,934.55	0.00	0.00	0.00
16,600.00	90.00	359.74	11,701.70	4,033.46	124.74	4,034.54	0.00	0.00	0.00
16,700.00	90.00	359.74	11,701.70	4,133.46	124.28	4,134.53	0.00	0.00	0.00
16,800.00	90.00	359.74	11,701.70	4,233.46	123.83	4,234.52	0.00	0.00	0.00
16,900.00	90.00	359.74	11,701.70	4,333.46	123.37	4,334.51	0.00	0.00	0.00
17,000.00	90.00	359.74	11,701.70	4,433.46	122.92	4,434.50	0.00	0.00	0.00
17,100.00	90.00	359.74	11,701.70	4,533.46	122.46	4,534.49	0.00	0.00	0.00
17,200.00	90.00	359.74	11,701.70	4,633.46	122.01	4,634.48	0.00	0.00	0.00
17,300.00	90.00	359.74	11,701.70	4,733.46	121.55	4,734.46	0.00	0.00	0.00
17,400.00	90.00	359.74	11,701.70	4,833.46	121.10	4,834.45	0.00	0.00	0.00
17 500 00	90.00	359 74	11 701 70	4 933 45	120 64	4 934 44	0.00	0.00	0.00
17,600,00	90.00	359 74	11 701 70	5 033 45	120.18	5 034 43	0.00	0.00	0.00
17,000.00	90.00	359 74	11 701 70	5 133 45	119 73	5 134 42	0.00	0.00	0.00
17,800,00	90.00	359 74	11 701 70	5 233 45	119.27	5 234 41	0.00	0.00	0.00
17,900.00	90.00	359.74	11,701.70	5,333.45	118.82	5,334.40	0.00	0.00	0.00
18,000,00	00.00	250 74	11 701 70	5 422 45	110.26	5 424 20	0.00	0.00	0.00
18,000.00	90.00	250.74	11,701.70	5,433.45	117.01	5,434.35	0.00	0.00	0.00
18,100.00	90.00	250.74	11,701.70	5,555.45	117.91	5,554.57	0.00	0.00	0.00
18,200.00	90.00	250.74	11,701.70	5,055.45	117.43	5,034.30	0.00	0.00	0.00
18,300.00	90.00	359.74	11,701.70	5,733.45	117.00	5,734.35	0.00	0.00	0.00
10,400.00	90.00	359.74	11,701.70	5,633.44	110.54	5,034.34	0.00	0.00	0.00
18,500.00	90.00	359.74	11,701.70	5,933.44	116.09	5,934.33	0.00	0.00	0.00
18,600.00	90.00	359.74	11,701.70	6,033.44	115.63	6,034.32	0.00	0.00	0.00
18,700.00	90.00	359.74	11,701.70	6,133.44	115.18	6,134.31	0.00	0.00	0.00
18,800.00	90.00	359.74	11,701.70	6,233.44	114.72	6,234.30	0.00	0.00	0.00
18,900.00	90.00	359.74	11,701.70	6,333.44	114.27	6,334.29	0.00	0.00	0.00
19,000.00	90.00	359.74	11,701.70	6,433.44	113.81	6,434.27	0.00	0.00	0.00
19,100.00	90.00	359.74	11,701.70	6,533.44	113.36	6,534.26	0.00	0.00	0.00
19,200.00	90.00	359.74	11,701.70	6,633.44	112.90	6,634.25	0.00	0.00	0.00
19.300.00	90.00	359.74	11,701.70	6,733.44	112.45	6,734.24	0.00	0.00	0.00
19,400.00	90.00	359.74	11,701.70	6,833.43	111.99	6,834.23	0.00	0.00	0.00
19.500.00	90.00	359.74	11,701,70	6.933.43	111.53	6.934.22	0.00	0.00	0.00
19.600.00	90.00	359.74	11,701.70	7.033.43	111.08	7.034.21	0.00	0.00	0.00
19 700 00	90.00	359 74	11,701 70	7,133,43	110 62	7,134 20	0.00	0.00	0.00
19 800 00	90.00	359 74	11 701 70	7 233 43	110.17	7 234 18	0.00	0.00	0.00
10,000.00	00.00	500.77	,. 01.70	.,		.,	0.00	0.00	0.00

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Page 6

COMPASS 5000.14 Build 85

.

Planning Report

Database:	EDT 14 Central Planning	Local Co-ordinate Reference:	Well ZHU 2331 WC 9H
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 9H_WC1_UP-W0513	North Reference:	Grid
Well:	ZHU 2331 WC 9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ZHU 2331 WC 9H		
Design:	ZHU 2331 WC 9H		

#### 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	359.74	11,701.70	7,333.43	109.71	7,334.17	0.00	0.00	0.00
20,000.00	90.00	359.74	11,701.70	7,433.43	109.26	7,434.16	0.00	0.00	0.00
20,100.00	90.00	359.74	11,701.70	7,533.43	108.80	7,534.15	0.00	0.00	0.00
20,200.00	90.00	359.74	11,701.70	7,633.43	108.35	7,634.14	0.00	0.00	0.00
20,300.00	90.00	359.74	11,701.70	7,733.42	107.89	7,734.13	0.00	0.00	0.00
20,400.00	90.00	359.74	11,701.70	7,833.42	107.44	7,834.12	0.00	0.00	0.00
20,500.00	90.00	359.74	11,701.70	7,933.42	106.98	7,934.11	0.00	0.00	0.00
20,600.00	90.00	359.74	11,701.70	8,033.42	106.53	8,034.10	0.00	0.00	0.00
20,700.00	90.00	359.74	11,701.70	8,133.42	106.07	8,134.08	0.00	0.00	0.00
20,800.00	90.00	359.74	11,701.70	8,233.42	105.62	8,234.07	0.00	0.00	0.00
20,900.00	90.00	359.74	11,701.70	8,333.42	105.16	8,334.06	0.00	0.00	0.00
21,000.00	90.00	359.74	11,701.70	8,433.42	104.71	8,434.05	0.00	0.00	0.00
21,100.00	90.00	359.74	11,701.70	8,533.42	104.25	8,534.04	0.00	0.00	0.00
21,200.00	90.00	359.74	11,701.70	8,633.42	103.79	8,634.03	0.00	0.00	0.00
21,300.00	90.00	359.74	11,701.70	8,733.41	103.34	8,734.02	0.00	0.00	0.00
21,400.00	90.00	359.74	11,701.70	8,833.41	102.88	8,834.01	0.00	0.00	0.00
21,500.00	90.00	359.74	11,701.70	8,933.41	102.43	8,933.99	0.00	0.00	0.00
21,600.00	90.00	359.74	11,701.70	9,033.41	101.97	9,033.98	0.00	0.00	0.00
21,700.00	90.00	359.74	11,701.70	9,133.41	101.52	9,133.97	0.00	0.00	0.00
21,800.00	90.00	359.74	11,701.70	9,233.41	101.06	9,233.96	0.00	0.00	0.00
21,900.00	90.00	359.74	11,701.70	9,333.41	100.61	9,333.95	0.00	0.00	0.00
22,000.00	90.00	359.74	11,701.70	9,433.41	100.15	9,433.94	0.00	0.00	0.00
22,100.00	90.00	359.74	11,701.70	9,533.41	99.70	9,533.93	0.00	0.00	0.00
22,139.02	90.00	359.74	11,701.70	9,572.43	99.52	9,572.95	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 9H BHL - plan hits target cer - Point	0.00 Iter	0.00	11,701.70	9,572.43	99.52	382,372.737	680,561.648	32° 2' 59.705 N	103° 45' 1.998 W
ZHU 2331 WC 9H FTP - plan hits target cer - Point	0.00 Iter	0.00	11,701.70	-344.57	144.67	372,456.295	680,606.796	32° 1' 21.568 N	103° 45' 2.095 W

Casing Points							
	Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter (")	
	22,139.02	11,701.70	7" x 8 3/4"		7	8-3/4	
	12,221.93	11,701.70	9-5/8" Casing		9-5/8	12-1/4	
	2,200.00	2,200.00	16"		16	17-1/2	

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## **WAFMSS**

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

### APD ID: 10400055453

Operator Name: CONOCOPHILLIPS COMPANY Well Name: ZHU 2331 WC Well Type: OIL WELL

### Submission Date: 03/25/2020

Zip: 77252

Well Number: 9H Well Work Type: Drill Highlighted data reflects the most recent changes

Show Final Text

## Section 1 - General

<b>APD ID:</b> 10400055453	Tie to previous NOS?	N Submission Date: 03/25/2020
BLM Office: CARLSBAD	User: Jeremy Lee	Title: Regulatory Coordinator
Federal/Indian APD: FED	Is the first lease penetra	ated for production Federal or Indian? FED
Lease number: NMLC0064756	Lease Acres: 2560	
Surface access agreement in place?	Allotted?	Reservation:
Agreement in place? YES	Federal or Indian agree	ment: FEDERAL
Agreement number: NMNM138329X		
Agreement name:		
Keep application confidential? N		
Permitting Agent? NO	APD Operator: CONOCO	OPHILLIPS COMPANY
Operator letter of designation:		

## **Operator Info**

Operator Organization Name: CONOCOPHILLIPS COMPANY
Operator Address: PO Box 2197
Operator PO Box:
Operator City: Houston State: TX
Operator Phone: (281)293-1748

**Operator Internet Address:** 

## **Section 2 - Well Information**

Well in Master Development Plan? NO	Master Development Plan na	Master Development Plan name:							
Well in Master SUPO? NO	Master SUPO name:								
Well in Master Drilling Plan? NO	Master Drilling Plan name:								
Well Name: ZHU 2331 WC	Well Number: 9H	Well API Number:							
Field/Pool or Exploratory? Field and Pool	Field Name: WOLFCAMP	<b>Pool Name:</b> ZIA HILLS; WOLFCAMP							

Is the proposed well in an area containing other mineral resources? NONE



Operator Name: CONOCOPHILLIPS COMPANY Well Name: ZHU 2331 WC

Well Number: 9H

### Is the proposed well in an area containing other mineral resources? NONE

Is the proposed well in a Helium production	ion area? N	Use Existing Well Pad?	N	New surface disturbance?			
Type of Well Pad: MULTIPLE WELL		Multiple Well Pad Name	e: ZIA	Number: 2			
Well Class: HORIZONTAL		HILLS 23 PAD Number of Legs: 1					
Well Work Type: Drill							
Well Type: OIL WELL							
Describe Well Type:							
Well sub-Type: INFILL							
Describe sub-type:							
Distance to town: 47 Miles Dis	istance to ne	arest well: 20 FT	Distanc	e to lease line: 1050 FT			
Reservoir well spacing assigned acres M	easurement:	0 Acres					
Well plat: ZHU_2331_WC_9H_C_102_2	20200325102	632.pdf					
Well work start Date: 03/30/2021		Duration: 90 DAYS					

## **Section 3 - Well Location Table**

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Survey number:

Vertical Datum: NAVD88

### Reference Datum: GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
SHL	105	FSL	182	FW	26S	31E	23	Aliquot	32.02373	-	EDD	NEW	NEW	F	NMLC0	318	0	0	Y
Leg	0		3	L				SWSE	2	103.7515	Y	MEXI	MEXI		064756	9			
#1										15		co	co						
KOP	11	FNL	197	FW	26S	31E	26	Aliquot	32.02081	-	EDD	NEW	NEW	F	NMLC0	-	110	109	Y
Leg			1	L				NWNE	4	103.7510	Y	MEXI	MEXI		064756	779	97	86	
#1										565		co	со			7			
PPP	100	FSL	198	FW	26S	31E	23	Aliquot	32.02112	-	EDD	NEW	NEW	F	NMLC0	-	115	113	Y
Leg			3	L				SWSE	2	103.7509	Y	MEXI	MEXI		064756	819	15	79	
#1-1										87		co	co			0			

Well Name: ZHU 2331 WC

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
EXIT	100	FNL	198	FW	26S	31E	14	Aliquot	32.04989	-	EDD	NEW	NEW	F	NMLC0	-	220	117	Y
Leg			1	L				NWNE		103.7510	Y	MEXI	MEXI		064756	851	83	02	
#1										29		co	со			3			
BHL	44	FNL	198	FW	23S	31E	14	Aliquot	32.05004	-	EDD	NEW	NEW	F	NMLC0	-	221	117	Y
Leg			0	L				NWNE	3	103.7510	Y	MEXI	MEXI		064756	851	39	02	
#1										29		CO	CO			3			

#### Well Number: 9H



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

APD ID: 10400055453

**Operator Name: CONOCOPHILLIPS COMPANY** 

Well Name: ZHU 2331 WC

Well Type: OIL WELL

Submission Date: 03/25/2020

Well Number: 9H

Highlighted data reflects the most recent changes

03/26/2020

Drilling Plan Data Report

Show Final Text

Well Work Type: Drill

## **Section 1 - Geologic Formations**

Formation			True Vertical	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
696365	QUATERNARY	3180	Ö	Ö	ALLUVIUM	NONE	N
696366	RUSTLER	2394	786	786	ANHYDRITE, DOLOMITE	NONE	N
696367	SALADO	2224	956	956	SALT	NONE	N
696368	CASTILE	1304	1876	1876	SALT	NONE	N
696369	DELAWARE	-908	4088	4088	SANDSTONE	NATURAL GAS, OIL	N
696370	CHERRY CANYON	-1896	5076	5076	SANDSTONE	NATURAL GAS, OIL	N
696371	BRUSHY CANYON	-3214	6394	6394	SANDSTONE	NATURAL GAS, OIL	N
696372	BONE SPRING	-4663	7843	7843	SANDSTONE	NATURAL GAS, OIL	N
696375	BONE SPRING 1ST	-5878	9058	9058	SANDSTONE	NATURAL GAS, OIL	N
696373	BONE SPRING 2ND	-6595	9775	9775	SANDSTONE	NATURAL GAS, OIL	N
696374	BONE SPRING 3RD	-7088	10268	10268	LIMESTONE	NATURAL GAS, OIL	N
696376	WOLFCAMP	-8200	11380	11380	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

## Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M

Rating Depth: 11702

Equipment: Rotating Head, Annular Preventer, Pipe/Blind Rams, Kill Lines, Choke Lines, Adapter Spool

### Requesting Variance? YES

**Variance request:** A variance to use flexible choke line(s) from the BOP to Choke Manifold. Testing certificate is attached in "Flexhose Variance data" document. A variance to use a multibowl wellhead system. Please see attached in section 8 of drilling plan. A variance is requested to use a 5M annular and test the annular to 100% of its working pressure. The variance is requested in conjunction with the attached well control plan.

Testing Procedure: BOP/BOPE will be isolated from the casing and tested by an independent service company to 250 psi

Well Name: ZHU 2331 WC

Well Number: 9H

low and the high pressure indicated above per Onshore Order 2 requirements. BOPE controls will be installed prior to drilling under the surface casing and will be used until the completion of drilling operations. The intermediate interval and the production interval will be tested per 10M working system requirements. See attached "Drill Plan" document.

#### Choke Diagram Attachment:

Zia\_Hills\_23\_Pad\_2\_Choke\_Manifold\_20200324063048.pdf

#### **BOP Diagram Attachment:**

Zia\_Hills\_23\_Pad\_2\_BOPE\_20200324063105.pdf

## **Section 3 - Casing**

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	836	0	836	3189	2353	836	J-55	54.5	OTHER - BTC	4.51	7.3	DRY	19.9 6	DRY	19.9 6
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	12322	0	11702		-8513	12322	OTH ER	40	OTHER - BTC	2.52	1.67	DRY	1.87	DRY	1.87
3	PRODUCTI ON	8.5	5.5	NEW	API	N	0	22139	0	11702		-8513	22139	OTH ER	20	OTHER - TXP	3.83	2.44	DRY	3.11	DRY	3.11

#### **Casing Attachments**

Casing ID: 1 String Type: SURFACE

**Inspection Document:** 

Spec Document:

**Tapered String Spec:** 

### Casing Design Assumptions and Worksheet(s):

13.375\_54.5\_lb\_J55\_20200310071400.pdf

Well Name: ZHU 2331 WC

Well Number: 9H

#### **Casing Attachments**

Casing ID: 2 String Type: INTERMEDIATE

**Inspection Document:** 

Spec Document:

**Tapered String Spec:** 

### Casing Design Assumptions and Worksheet(s):

 $9.625\_40\_lb\_L\_80\_lC\_20200310071527.pdf$ 

Casing ID: 3 String Type: PRODUCTION

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

#### Casing Design Assumptions and Worksheet(s):

5.5\_20\_lb\_P\_110\_ICY\_20200310071800.pdf

Section	4 - Ce	emen	t								
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	436	530	1.73	12.8	908	200	Control Set 'C'	1.0% CaCl2, 1.0% SMS, 1.0% OGC-60, ¼ lb/sk Polyflake, ½ ppb FiberBlock
SURFACE	Tail		436	836	660	1.33	14.8	868	200	0:1:0 'Type III'	0.5% CaCl2, ¼ lb/sk Polyflake, ½ ppb FiberBlock
INTERMEDIATE	Lead		0	5076	2480	1.73	11	4286	200	Thermal 35	10% NaCl, 0.9% CFR, 0.7% CFL-4, 0.1% LTR, 0.2% SPC-II, 0.4% CDF-4P, ¼ lb/sk

## Section 4 - Cement

Page 3 of 6

Well Name: ZHU 2331 WC

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
											Polyflake, ½ ppb FiberBlock

		-	-	-	-	-	-	-	-		
INTERMEDIATE	Lead	5076	336	1059 7	1090	2.7	11	2939	70	WBL	0.5% CFL-4, 0.6% LTR, 0.2% SPC-II, 0.4% CDF-4P, ¼ lb/sk Polyflake, ½ ppb FiberBlock
INTERMEDIATE	Tail		1059 7	1232 2	470	1.59	13.2	741	30	Thermal 35	10% NaCl, 0.9% CFR, 0.7% CFL-4, 0.1% LTR, 0.2% SPC-II, 0.4% CDF-4P, ¼ lb/sk Polyflake, ½ ppb FiberBlock
PRODUCTION	Lead		0	2213 9	0	0	0	0	0	No Lead	No Lead
PRODUCTION	Tail		1009 7	2213 9	2567	1.19	15.6	3054	10	1:1:0 'Poz:Lafarge G'	20% Silica Flour, 8% Silica Flume, 2% FWCA-H (FWC-2), 0.3% HTR, 0.5% CR-4 (MCR-4), 1% TAE-1 (SEA-1), 1% CFL-4, 0.2% CFR-5, 0.3% ASM-3 (AS-3)

## Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

**Describe what will be on location to control well or mitigate other conditions:** Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. See attached "Drill Plan" for additional information.

**Describe the mud monitoring system utilized:** Closed-loop mud system using steel mud containers will be on location. Mud monitoring of any changes in levels (gains or losses) will use Pressure Volume Temperature, Pason, Visual Observations. See attached "Drill Plan" for additional information.

**Circulating Medium Table** 

Well Name: ZHU 2331 WC

	Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
8	36	1170 2	OTHER : Brine	9.5	10.5							
	0	836	OTHER : Fresh Water	8.6	9.1							
1	170 2	1170 2	OIL-BASED MUD	10.5	11.5							

## Section 6 - Test, Logging, Coring

#### List of production tests including testing procedures, equipment and safety measures:

Production tests will be conducted multiple times per week, through a test separator, during first months following completion. Thereafter, tests will be less frequently.

#### List of open and cased hole logs run in the well:

GAMMA RAY LOG,

#### Coring operation description for the well:

No coring operation is planned at this time.

This well will be an Infill Horizontal well as defined in Part H of 19.15.16.7 NMAC. It will not have a unique horizontal spacing unit. It will share a horizontal spacing unit.

ConocoPhillips Company requests a variance to the requirement to run a neutron porosity log for any wells within one mile of an existing well with a neutron porosity log (vertical well, or vertical portion of a horizontal well). If there is an existing neutron log within one mile, ConocoPhillips requests to log gamma ray only. If there is not an existing neutron log within one mile, ConocoPhillips request to run a GR/N log on the vertical section of one well per pad.

## **Section 7 - Pressure**

Anticipated Bottom Hole Pressure: 8191

Anticipated Surface Pressure: 5616

Anticipated Bottom Hole Temperature(F): 185

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Well Name: ZHU 2331 WC

Well Number: 9H

### Hydrogen Sulfide drilling operations plan required? YES

### Hydrogen sulfide drilling operations plan:

H2S\_C\_Plan\_20200310075517.pdf Typical\_Rig\_Layout\_20200324064452.pdf

## **Section 8 - Other Information**

#### Proposed horizontal/directional/multi-lateral plan submission:

Wellhead\_diagram\_3\_String\_\_20200310081710.pdf ZHU\_2331\_WC\_9H\_Drill\_Plan\_20200325110807.pdf ZHU\_2331\_WC\_9H\_Well\_Plan\_20200325110816.pdf

#### Other proposed operations facets description:

#### Other proposed operations facets attachment:

Drill\_Waste\_Containment1\_20200310081559.pdf Zia\_Hills\_23\_Pad\_2\_Kelly\_Cock\_20200324064604.pdf

#### Other Variance attachment:

Flexhose\_Variance\_20200310081645.pdf Wild\_Well\_Control\_Plan\_20200310081652.pdf

#### Received by OCD: 5/17/2021 7:39:42 AM

## AFMSS

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

APD ID: 10400055453 **Operator Name: CONOCOPHILLIPS COMPANY** Well Name: ZHU 2331 WC Well Type: OIL WELL

## **Section 1 - Existing Roads**

Will existing roads be used? YES

**Existing Road Map:** 

Zia\_Hills\_23\_Pad\_2\_Existing\_Road\_Map\_20200324064648.pdf

Existing Road Purpose: ACCESS

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? YES

Existing Road Improvement Description: The existing 2-track will be upgraded.

**Existing Road Improvement Attachment:** 

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

#### New Road Map:

Zia\_Hills\_23\_Pad\_2\_Access\_Road\_Map\_20200324064736.pdf

Feet

New road type: RESOURCE

Length: 148.25

Max slope (%): 2

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 20

New road access erosion control: The inside slope of the side ditches shall be 3:1. Any topsoil removed from the access road will be conserved as appropriate and with low profile. This access road is on fairy level ground. No additional erosion control is planned.

Width (ft.): 30

Max grade (%): 2

New road access plan or profile prepared? N

New road access plan attachment:

SUPO Data Repor Submission Date: 03/25/2020

Well Number: 9H Well Work Type: Drill 03/26/2020

Highlighted data reflects the most recent changes

Show Final Text

Well Name: ZHU 2331 WC

Well Number: 9H

Page 35 of 70

Access road engineering design? N

Access road engineering design attachment:

Turnout? N

Access surfacing type: OTHER

Access topsoil source: OFFSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth:

Offsite topsoil source description: Caliche will be from a BLM approved source or third-party commercial location. Material meets BLM requirements and standards.

Onsite topsoil removal process:

Access other construction information:

Access miscellaneous information: The access road and existing road right of way will be 30 ft wide for a 20 ft wide driveable surface and 5 ft on each side to accommodate the size of the rig. 148.25 ft is new road and the remainder is road permitted under the Zia Hills 23 Pad 1 well APDs. The Zia Hills 23 Pad 2 will utilize this road. Only 1 access road will be built for the Zia Hills 23 Pad 2.

Number of access turnouts:

Access turnout map:

New road drainage crossing: OTHER

**Drainage Control** 

**Drainage Control comments:** The proposed road to the location is surveyed and staked with stations set along the centerline at specific intervals. The road will be centerline crowned with a 2% crown for appropriate drainage. The inside slope of the side ditches shall be 3:1. Any topsoil removed from the access road will be conserved as appropriate. This access road is on level ground.

**Road Drainage Control Structures (DCS) description:** No additional road drainage is needed other than standard BLM requirements for this area and those discussed in the BLM "Gold Book". This access road is on level ground. **Road Drainage Control Structures (DCS) attachment:** 

## **Access Additional Attachments**

## **Section 3 - Location of Existing Wells**

#### Existing Wells Map? YES

Attach Well map:

Zia\_Hills\_23\_Pad\_2\_One\_mile\_well\_radius\_map\_20200324065054.pdf

Section 4 - Location of Existing and/or Proposed Production Facilities

## Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: The Zia Hills 23 Pad 2 proposed facility pad will be adjacent to the proposed wellhead

Well Name: ZHU 2331 WC

Well Number: 9H

pad. The planned dimensions of the facility pad are 100 ft x 350 ft. Approximately 120.44 ft of flowlines will be ran from the proposed Zia Hills 23 Pad 2 facility pad to a tie-in at the Zia Hills 23 Pad 1 proposed flowline. The route is depicted in the Pipeline ROW plats. The following buried pipelines will be installed in the ROW: A 12-inch buried coated steel gas pipeline from proposed facility area to existing pipeline tie-in. The working pressure of the pipeline will be about 270 psi. A 12-inch buried poly water pipeline from proposed facility area to existing pipeline from proposed facility area to existing pipeline from proposed facility area to existing pipeline tie-in. The working pressure of the pipeline tie-in. The working pipeline tie-in. The

Zia\_Hills\_2331\_Pad\_1\_\_\_Pad\_2\_Production\_Facility\_20200317081725.pdf

Section 5 - Location and Types of Water Supply				
Water Source Tab				
Water source type: GW WELL				
Water source use type:	STIMULATION			
Source latitude: 31.995947		Source longitude: -103.7444		
Source datum: NAD27				
Water source permit type:	WATER WELL			
Water source transport method:	PIPELINE			
Source land ownership: FEDERAL	-			
Source transportation land owner	ship: FEDERAL			
Water source volume (barrels): 66	666.664	Source volume (acre-feet):		
Source volume (gal): 2800000				

#### Water source and transportation map:

Zia\_Hills\_23\_Pad\_2\_Water\_Wells\_20200324065658.pdf

Water source comments: Water will be trucked from the water wells in Texas to the Lois Lane frac ponds and from the frac ponds the water will be sent via temp pipe lines. However, COP plans to use additional/ different water well(s) depending on availability at the time of fracturing the wells but the locations will meet BLM requirements and standards. The Lois Lane frac pond contains 15.243 acres and is located in the NW/NE and extends into the SW/NE of Section 27, T26S, 32E, N.M.P.M. COP may additional utilize other BLM approved means as a source for water to stimulate the well. New water well? N

New Water Well	Info	
Well latitude:	Well Longitude:	Well datum:
Well target aquifer:		
Est. depth to top of aquifer(ft):	Est thickness of	of aquifer:

Well Name: ZHU 2331 WC

Well Number: 9H

#### Aquifer comments:

Aquifer documentation:	
Well depth (ft):	Well casing type:
Well casing outside diameter (in.):	Well casing inside diameter (in.):
New water well casing?	Used casing source:
Drilling method:	Drill material:
Grout material:	Grout depth:
Casing length (ft.):	Casing top depth (ft.):
Well Production type:	Completion Method:
Water well additional information:	
State appropriation permit:	

Additional information attachment:

## **Section 6 - Construction Materials**

#### Using any construction materials: YES

**Construction Materials description:** Clean caliche will be used to construct well pad, road, and facility pad. Our first source for caliche will be from Kiehne's pit is located in Section 21, T26S, R32E, Lea County, NM and the second source will be State Pit 643-Eddy located in Section 15, T25S, R27E, Eddy County, NM. However, COP plans to use additional caliche source(s) depending on caliche availability at the time of location construction and material will meet BLM requirements and standards. Trucking for source material will utilize authorized roads as per Access Road Topo A attached. **Construction Materials source location attachment:** 

## **Section 7 - Methods for Handling Waste**

#### Waste type: PRODUCED WATER

Waste content description: Produced water or testing tanks will be located and/or diked so that any spilled fluid will flow into the onsite containers. Production water tanks will not be placed on topsoil stockpiles. Amount of waste: 40 barrels

#### Waste disposal frequency : Weekly

**Safe containment description:** Produced water or testing tanks will be located and/or diked so that any spilled fluid will flow into the onsite containers. Production water tanks will not be placed on topsoil stockpiles. **Safe containmant attachment:** 

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: PRIVATE FACILITY

Disposal type description:

Disposal location description: Will be taken to an approved disposal facility.

Waste type: CHEMICALS

Waste content description: Drilling fluids, chemical, and salt.

Amount of waste: 1 barrels

Waste disposal frequency : Weekly

Well Name: ZHU 2331 WC

Safe containment description: Fluids will be captured in catch basins and will be removed from location.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: PRIVATE FACILITY Disposal type description:

Disposal location description: These will be disposed of in a state approved facility.

Waste type: GARBAGE

Waste content description: Portable dumpsters will be used for all trash.

Amount of waste:

Waste disposal frequency : Weekly

Safe containment description: Inside a portable dumpster.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: PRIVATE

FACILITY Disposal type description:

Disposal location description: All trash will be hauled off site.

Waste type: SEWAGE

**Waste content description:** Sewage will be disposed of in strict conformance with county and state requirements in a portable chemical toilet at a portable sewage treatment plant. **Amount of waste:** 9000 gallons

Waste disposal frequency : Weekly

Safe containment description: Inside a portable chemical toilet.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: PRIVATE FACILITY Disposal type description:

Disposal location description: Sewage treatment plant.

Waste type: DRILLING

Waste content description: Drilling fluid and cuttings

Amount of waste: 2300 barrels

Waste disposal frequency : Daily

Safe containment description: Cuttings will be held in a closed-loop system and trucked to an approved disposal facility.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL FACILITY

Well Name: ZHU 2331 WC

Well Number: 9H

Disposal type description:

Disposal location description: Trucked to approved disposal facility

**Reserve Pit** 

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.) Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

**Reserve pit liner** 

Reserve pit liner specifications and installation description

## **Cuttings Area**

Cuttings Area being used? NO Are you storing cuttings on location? N Description of cuttings location Cuttings area length (ft.) Cuttings area depth (ft.) Cuttings area depth (ft.) Is at least 50% of the cuttings area in cut? WCuttings area liner Cuttings area liner

## **Section 8 - Ancillary Facilities**

Are you requesting any Ancillary Facilities?: N Ancillary Facilities attachment:

#### Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Zia\_Hills\_23\_Pad\_2\_Arc\_Boundary\_20200324065914.pdf Zia\_Hills\_23\_Pad\_2\_Location\_Layout\_20200324065846.pdf

Well Name: ZHU 2331 WC

Well Number: 9H

Typical\_Rig\_Layout\_20200324065901.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: ZIA HILLS 23 PAD

**Multiple Well Pad Number: 2** 

### **Recontouring attachment:**

**Drainage/Erosion control construction:** Topsoil will be stripped and set along designated side of the wellsite. The next layer of dirt (stockpile) is done with the cut and fill method whereby the highest portion of the wellsite is pushed to lower portion(s) to balance the pad. The access road is done in a similar manner. To the greatest extent practicable, the location is placed so that the least amount of dirt is to be cut and disturbed, and so a good balance can be maintained during project. Topsoil stockpile will have lowest practicable profile to reduce wind erosion. For more detail please see attached Surface Use Plan of Operations.

**Drainage/Erosion control reclamation:** Upon project completion, if this well is a producer, excess caliche is removed from the interim reclamation portion of pad. Topsoil stockpile is balanced back onto the unused portion of the well pad and recontoured as appropriate. Any drainage ditches will not be blocked with topsoil and/or organic material. Lowering the profile of the topsoil stockpile will reduce wind erosion. Erosion controls will be maintained per BLM guidelines and conditions. For more detail please see attached Surface Use Plan of Operations. Reclamation activities are planned to be accomplished within six months of project completion, contingent upon weather. A site specific "Reclamation Diagram" interim plan is attached. At such time as well is permanently abandoned, ConocoPhillips Company will contact the BLM for development of final rehabilitation plan. Upon abandonment, a dry hole marker will be installed as directed by Authorized BLM Officer at the time, in accordance with 43 CFR 3162.6. An above ground dry hole marker sealing the casing will have a weep hole which will allow pressure to dissipate and make detection of any fluid seepage easier. If below ground "well marker" is directed, ConocoPhillips Company will follow BLM requirements and standards for that method of abandonment. During final reclamation erosion is to be minimized through lower profile of any soil piles. Please see attached Surface Use Plan of Operations for more information.

Well pad proposed disturbance (acres): 6.991	Well pad interim reclamation (acres): 2.639	Well pad long term disturbance (acres): 4.352
Road proposed disturbance (acres):	Road interim reclamation (acres): 0	Road long term disturbance (acres):
Powerline proposed disturbance (acres): 0 Pipeline proposed disturbance (acres): 0.166 Other proposed disturbance (acres): 0	Powerline interim reclamation (acres): 0 Pipeline interim reclamation (acres): 0.028 Other interim reclamation (acres): 0	Powerline long term disturbance (acres): 0 Pipeline long term disturbance (acres): 0.138 Other long term disturbance (acres): 0
Total proposed disturbance: 7.259	Total interim reclamation: 2.667	Total long term disturbance: 4.592000000000005

**Disturbance Comments:** ConocoPhillips requests deferral of interim reclamation until all the wells proposed to be drilled from this pad have been drilled and completed. Interim reclamation to be completed within 6 months of well completion of the last permitted well on this pad.

**Reconstruction method:** If this well is a producer site rehabilitation will be completed within six months, weather permitting. Excess caliche will be removed, as appropriate and either disposed of in a permitted facility or, if clean, stored for future use. Topsoil from the stockpile will be spread along areas to be interim reclaimed. Any drainage ditches will not be blocked with topsoil. Under normal weather conditions, the timetable for rehabilitation will allow two to three months to complete any recontouring and top-soiling necessary. At such time as well is permanently abandoned, ConocoPhillips Company will contact BLM for development of final rehabilitation plan. Upon abandonment, a dry hole marker will be installed as directed by Authorized BLM Officer at the time, in accordance with 43 CFR 3162.6. An above ground dry hole marker sealing the

Well Name: ZHU 2331 WC

#### Well Number: 9H

casing will have a weep hole which will allow pressure to dissipate and make detection of any fluid seepage easier. If below ground "well marker" is directed, ConocoPhillips Company will follow BLM requirements and standards for that method of abandonment. Excess caliche will be removed, as appropriate and either disposed of in a permitted facility. Location soil may be "flipped" with BLM concurrence, clean topsoil spread and re-contoured to blend with surrounding area. This method will be accomplished in accordance to BLM standards set forth by the Authorized Officer.

**Topsoil redistribution:** Areas planned for interim reclamation will be re-contoured to the extent feasible. Topsoil will be evenly re-spread and re-vegetated over the disturbed area not needed for continuing production operations. At such time as well is abandoned, disturbed areas will be re-contoured to a contour that blends with surrounding landscape. Topsoil will be redistributed evenly over the entire disturbed site to depth of 4-6 inches.

**Soil treatment:** The topsoil will be stripped and set along the designated perimeter of the wellsite. The next layer of dirt is moved with the cut and fill method whereby the highest point of the wellsite is cut into and then pushed to a lower side to balance the well pad. Upon well completion, the soil will be balanced back onto portions of the pad not needed for long-term operations. Erosion will be minimized by maintaining a lower stockpile profile.

**Existing Vegetation at the well pad:** Based on an existing EA in the vicinity, the proposed area is expected to be classified as transitional between the Plains-Mesa Sand Scrub and Chihuahuan Desert Scrub plant communities. The area surrounding the location is expected to have dominant shrub species including white thorn acia, range ratany, javelin bushy, honey mesquite, invading creosote and a few althorns. Dominant grass species in the project included but not limited to sand and mesa dropseed, roa grande bristlegrass, black grama and burrograss. An EA will be performed that will list species in the area.

Existing Vegetation at the well pad attachment:

Zia\_Hills\_23\_Pad\_2\_Location\_Photos\_20200324070859.pdf

Existing Vegetation Community at the road: See Zia Hills 23 Pad 2 Location Photos

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: See Zia Hills 23 Pad 2 Location Photos

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: See Zia Hills 23 Pad 2 Location Photos

Existing Vegetation Community at other disturbances attachment:

Non native seed used?

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project?

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

*Received by OCD: 5/17/2021 7:39:42 AM* 

### **Operator Name: CONOCOPHILLIPS COMPANY**

Well Name: ZHU 2331 WC

Seed Management

Seed Table

Seed Summary		Total pounds/Acre:
Seed Type	Pounds/Acre	

Seed reclamation attachment:

## **Operator Contact/Responsible Official Contact Info**

First Name:

Last Name: Email:

Phone:

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

#### Existing invasive species treatment attachment:

**Weed treatment plan description:** Two Class B noxious weed species, African rue and Malta starthistle and two Class C noxious weed species, Russian olive and salt cedar are of concern. ConocoPhillips Company will consult with BLM for acceptable weed control methods, if the need arises. Any weed control would follow USEPA and BLM requirements and standards. No noxious weed species are expected in the project area. **Weed treatment plan attachment:** 

**Monitoring plan description:** Weeds will be controlled on disturbed areas within the exterior limits of the well pad. Monitoring will be in accordance with Best Management Practices and guidelines established by BLM. **Monitoring plan attachment:** 

Success standards: Reclamation success standards will utilize BLM approved methods.

Pit closure description: No pits will be used, a closed-loop system will be in place.

Pit closure attachment:

Section 11 - Surface Ownership

Well Name: ZHU 2331 WC

Disturbance type: EXISTING ACCESS ROAD Describe: Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office: Military Local Office: USFWS Local Office: USFWS Local Office:

USFS Forest/Grassland:

**USFS Ranger District:** 

Disturbance type: NEW ACCESS ROAD **Describe:** Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: **BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office:** State Local Office: Military Local Office: **USFWS Local Office: Other Local Office: USFS Region: USFS Forest/Grassland: USFS Ranger District:**  Received by OCD: 5/17/2021 7:39:42 AM

### **Operator Name: CONOCOPHILLIPS COMPANY**

Well Name: ZHU 2331 WC

Well Number: 9H

Disturbance type: WELL PAD **Describe:** Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: **BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office:** NPS Local Office: **State Local Office: Military Local Office: USFWS Local Office: Other Local Office: USFS Region: USFS Forest/Grassland: USFS Ranger District:** 

Disturbance type: PIPELINE	
Describe:	
Surface Owner: BUREAU OF LAND MANAGEMENT	
Other surface owner description:	
BIA Local Office:	
BOR Local Office:	
COE Local Office:	
DOD Local Office:	
NPS Local Office:	
State Local Office:	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:

Operator Name: CONOCOPHILLIPS COMPANY Well Name: ZHU 2331 WC

Well Number: 9H

## Section 12 - Other Information

**Right of Way needed?** Y

Use APD as ROW? Y

**ROW Type(s):** 281001 ROW - ROADS,288100 ROW - O&G Pipeline,288101 ROW - O&G Facility Sites,289001 ROW-O&G Well Pad

**ROW Applications** 

**SUPO Additional Information:** ConocoPhillips request an extra 10-foot-wide area for temporary workspace to safely install the pipeline. ConocoPhillips request to blade the entire pipeline ROW and the 10-foot-wide temporary workspace. ConocoPhillips submits the leak detection plan for the flowlines. **Use a previously conducted onsite?** Y

Previous Onsite information: Onsite conducted 5/22/2018.

**Other SUPO Attachment** 

Zia\_HIlls\_Leak\_Detection\_R1\_20200324071617.pdf Zia\_Hills\_23\_Pad\_2\_Pipelines\_20200325111005.pdf Zia\_Hills\_23\_Pad\_2\_Reclamation\_Diagram\_20200325111026.pdf

## **WAFMSS**

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

**APD ID:** 10400055453

Operator Name: CONOCOPHILLIPS COMPANY Well Name: ZHU 2331 WC

Well Type: OIL WELL

Submission Date: 03/25/2020

Page 46 of 70

03/26/2020

PWD Data Report

Well Number: 9H Well Work Type: Drill

**Section 1 - General** 

Would you like to address long-term produced water disposal? NO

## Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? N Produced Water Disposal (PWD) Location: **PWD surface owner:** Lined pit PWD on or off channel: Lined pit PWD discharge volume (bbl/day): Lined pit specifications: Pit liner description: Pit liner manufacturers information: Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal permit: Lined pit precipitated solids disposal schedule: Lined pit precipitated solids disposal schedule attachment: Lined pit reclamation description: Lined pit reclamation attachment: Leak detection system description: Leak detection system attachment:

PWD disturbance (acres):

Well Name: ZHU 2331 WC

Well Number: 9H

Lined pit Monitor description: Lined pit Monitor attachment: Lined pit: do you have a reclamation bond for the pit? Is the reclamation bond a rider under the BLM bond? Lined pit bond number: Lined pit bond amount: Additional bond information attachment:

## **Section 3 - Unlined Pits**

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

**Unlined pit Monitor attachment:** 

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

**Unlined Produced Water Pit Estimated percolation:** 

Unlined pit: do you have a reclamation bond for the pit?

Operator Name: CONOCOPHILLIPS COMPANY Well Name: ZHU 2331 WC

Well Number: 9H

Is the reclamation bond a rider under the BLM bond?	
Unlined pit bond number:	
Unlined pit bond amount:	
Additional bond information attachment:	
Section 4 - Injection	
Would you like to utilize Injection PWD options? N	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Injection PWD discharge volume (bbl/day):	
Injection well mineral owner:	
Injection well type:	
Injection well number:	Injection well name:
Assigned injection well API number?	Injection well API number:
Injection well new surface disturbance (acres):	
Minerals protection information:	
Mineral protection attachment:	
Underground Injection Control (UIC) Permit?	
UIC Permit attachment:	

## Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? N

Produced Water Disposal (PWD) Location:PWD surface owner:PWD disturbance (acres):Surface discharge PWD discharge volume (bbl/day):Surface Discharge NPDES Permit?Surface Discharge NPDES Permit attachment:Surface Discharge site facilities information:Surface Discharge site facilities map:Section 6 - Other

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

Other PWD discharge volume (bbl/day):

**PWD** disturbance (acres):

Received by OCD: 5/17/2021 7:39:42 AM

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: ZHU 2331 WC

Well Number: 9H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

## AFMSS

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

APD ID: 10400055453

**Operator Name: CONOCOPHILLIPS COMPANY** Well Name: ZHU 2331 WC Well Type: OIL WELL

## **Bond Information**

Federal/Indian APD: FED BLM Bond number: ES0085 **BIA Bond number:** Do you have a reclamation bond? NO Is the reclamation bond a rider under the BLM bond? Is the reclamation bond BLM or Forest Service? **BLM** reclamation bond number: Forest Service reclamation bond number: Forest Service reclamation bond attachment: **Reclamation bond number:** 

**Reclamation bond amount:** 

**Reclamation bond rider amount:** 

Additional reclamation bond information attachment:



Well Work Type: Drill

Highlighted data reflects the most recent changes

03/26/2020

Show Final Text

Bond Info Data Report

Page 50 of 70



H<sub>2</sub>S Contingency Plan November 2016

H<sub>2</sub>S Contingency Plan Holders:

Attached is an H<sub>2</sub>S 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.

## Table of Contents

## Section

## I. Purpose

- II. Scope
- III. Procedures

## **IV.** Emergency Equipment and Maintenance

Emergency Equipment Suppliers General Information H2S Safety Equipment and Monitoring Systems

- V. Emergency Call List
- VI. Public/Media Relations
- VII. Pubic Notification/Evacuation
- VIII. Forms/Reports



# HYDROGEN SULFIDE (H<sub>2</sub>S) OPERATIONS

Contingency Plan For Permian Drilling Operations

ConocoPhillips Company

Released to Imaging: 5/17/2021 4:03:26 PM

## 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  $H_2S$  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  $H_2S$  release. Release of  $H_2S$  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  $H_2S$  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 H<sub>2</sub>S radius of exposure (ROE). All manned barricades must be equipped with an H<sub>2</sub>S monitor and a 2-way radio.

— Set roadblocks and staging area as determined.

Establish the Incident Command Structure by designating appropriate onscene 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

## <u>AND</u>

On-Scene Incident Command Post Public Relations Briefing Area Staging Area Triage Area Decontamination Area (Cold Zone) (Cold Zone) (Cold Zone) (Cold Zone) (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 H<sub>2</sub>S. 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 H<sub>2</sub>S 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 <u>Responsibility</u>

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.

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## IV. EMERGENCY EQUIPMENT and MAINTENANCE

## **Emergency Equipment Suppliers**

DXP/ Safety International – Odessa, Tx. H <sub>2</sub> S monitors Breathing air includes cascade systems First aid and medical supplies Safety equipment H2S Specialist	432.580.3770
<b>Total Safety US Odessa. Tx/ Hobs. NM</b> H <sub>2</sub> S monitors Breathing air includes cascade systems First aid and medical supplies Safety equipment	432.561.5049 Odessa 575.392.2973 Hobbs
DXP/ Indian Fire & Safety – Hobbs, NM H <sub>2</sub> S monitors Breathing air including cascade systems trailer mounted 30 minute air packs Safety Equipment	575.393.3093
TC Safety – Odessa. Tx. H <sub>2</sub> S monitors Cascade systems trailer mounted 30 minute air packs Safety Equipment H2S Specialist	432.413.8240
<u>Secorp Industries – Odessa, Tx.</u> H2S Monitor Systems Cascade Systems H2S Specialist H2S, CPR, First Aid Training	432.614.2565

## **Emergency Equipment and Maintenance (continued)**

### **General Information**

Materials used for repair should be suitable for use where H<sub>2</sub>S 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  $H_2S$  areas shall have received training on the hazards, characteristics, and properties of  $H_2S$ , and on procedures and safety equipment applicable for use in  $H_2S$  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 – <u>Entrance Warning Sign</u> 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 <u>Audible</u> 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 <u>Scott or Drager</u> brand.

3. All SCBA's face pieces should be <u>size large</u>, unless otherwise specified by the Drilling Supervisor.

5 – <u>Emergency Escape Paks</u> located at Top Doghouse.

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

 $1 - \underline{\text{Tri or Quad gas monitor}}$  located at the Drilling Reps office. This will be used to determine if the work area if safe to re-enter prior to returning to work following any alarm.

## V. EMERGENCY CALL LIST:

The following is a <u>priority</u> 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**

### <u>Texas Railroad Commission (District 8)</u> 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

 <u>Public Notification</u> – If the escape of gas could result in a hazard to area residents, the general public, or employees, the person <u>first</u> observing the leak should take <u>immediate</u> 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.

 Evacuation Procedures – Evacuation will proceed upwind from the source of the release of H<sub>2</sub>S. 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.  $H_2S$  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

### Page 67 of 70



Released to Imaging: 5/17/2021 4:03:26 PM

### Page 68 of 70

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



District I 1625 N. French Dr., Hobbs, NM 88240

District II

District IV

Phone:(575) 393-6161 Fax:(575) 393-0720

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

Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

District III 1000 Rio Brazos Rd., Aztec, NM 87410 COMMENTS

Action 28356

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

COMMENTS					
Operator:			OGRID:	Action Number:	Action Type:
COG OPERATING LLC	600 W Illinois Ave	Midland, TX79701	229137	28356	FORM 3160-3
Created By	Comment			Comment Date	
kpickford	KP GEO Review 5/17/2021			05/17/2021	

District I 1625 N. French Dr., Hobbs, NM 88240

District II

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Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

District III 1000 Rio Brazos Rd., Aztec, NM 87410 CONDITIONS

Action 28356

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

#### CONDITIONS OF APPROVAL

Operator:				OGRID:		Action Number:	Action Type:
	COG OPERATING LLC	600 W Illinois Ave	Midland, TX79701	2	229137	28356	FORM 3160-3
-							
OCD	Condition						
Reviewer							
kpickford	Notify OCD 24 hours prior to casing & cement						
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104						
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						
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing						
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						