Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. DRILL REENTER 1a. Type of work: 1b. Type of Well: Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone 9. API Well No. 30 015 48516 2. Name of Operator 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area At surface At proposed prod. zone 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the SUPO must be filed with the appropriate Forest Service Office). 25. Signature Name (Printed/Typed) Date Title Approved by (Signature) Date Name (Printed/Typed) Title Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction



(Continued on page 2)

*(Instructions on page 2)

Additional Operator Remarks

Location of Well

 $0. \ SHL: \ SWSW \ / \ 1050 \ FSL \ / \ 1014 \ FWL \ / \ TWSP: \ 26S \ / \ RANGE: \ 31E \ / \ SECTION: \ 23 \ / \ LAT: \ 32.023725 \ / \ LONG: \ -103.754126 \ (\ TVD: \ 0 \ feet, \ MD: \ 0 \ feet \)$ PPP: \ SWSW \ / \ 100 \ FSL \ / \ 332 \ FWL \ / \ TWSP: \ 26S \ / \ RANGE: \ 31E \ / \ SECTION: \ 23 \ / \ LAT: \ 32.021107 \ / \ LONG: \ -103.756313 \ (\ TVD: \ 11364 \ feet, \ MD: \ 11475 \ feet \) BHL: \ NWNW \ / \ 37 \ FNL \ / \ 332 \ FWL \ / \ TWSP: \ 23S \ / \ RANGE: \ 31E \ / \ SECTION: \ 14 \ / \ LAT: \ 32.050049 \ / \ LONG: \ -103.756349 \ (\ TVD: \ 11806 \ feet, \ MD: \ 22240 \ feet \)

BLM Point of Contact

Name: CIJI METHOLA

Title: GIS Support - Adjudicator

Phone: (575) 234-5924 Email: cmethola@blm.gov

Received by OCD: 5/17/2021 12:20:22 PM

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

State of New Mexico

30 015 48516	•	² Pool Code 98081	ZIA HILLS; WOLFCAMP	
4 Property Code			operty Name	6 Well Number
330828			U 2331 WC	1H
7 OGRID No.			perator Name Phillips Company	⁹ Elevation 3180.0'
217817		Collocol	minps Company	3180.0

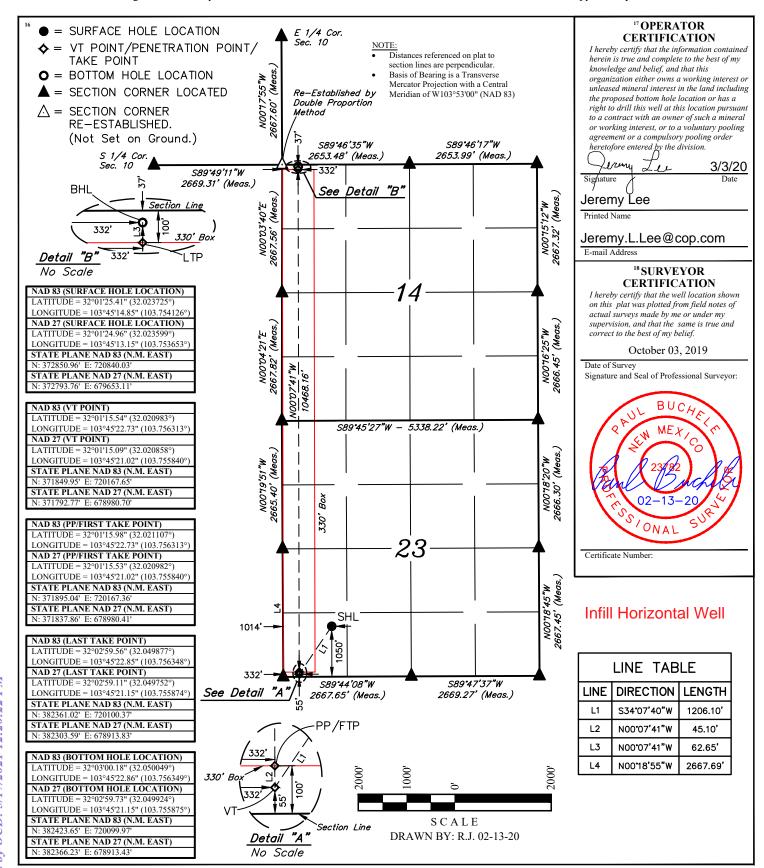
¹⁰ Surface Location

UL or lot no. M	Section 23	Township 26S	Range 31E	Lot Idn	Feet from the 1050	North/South line SOUTH	Feet from the 1014	East/West line WEST	County EDDY
			11	Rottom H	ole Location I	f Different From	Surface		

Bottom Hole Location If Different From Surface

	UL or lot no. D	Sect 1	ion 4	Township 26S	Range 31E	Lot Idn	F	eet from the 37	North/South line NORTH	Feet from the 332	East/West line WEST	County EDDY
Γ	12 Dedicated Acre ()	es	13 J 0	oint or Infill	14 Conso	olidation Code		15 Order No.				

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



Released to Imaging: 5/18/2021 4:38:52 PM

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

☐ Amended Reason for Amendment: Operator & OGRID No.: ConocoPhillips Co Date: 3/16/20)
This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production fanew completion (new drill, recomplete to new zone, re-frac) activity.	acility flaring/venting fo
Note: A C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule 19.15.18.	3.12.A
Well(s)/Production Facility – Name of facility	
The well(s) that will be located at the production facility are shown in the table below.	
Well Name API Well Location Footages Expected Flared or (ULSTR) Well Contain MCF/D Vented	Comments
	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 Eddy County, New Mexico. It will require 7,187 ' of pipeline to
connect the facility to low/high pressure gathering system. COP provides (periodically) to Enterprise a drilling,
completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition,
COP and Enterprise have periodic conference calls to discuss changes to drilling and completion schedules. Gas from
these wells will be processed at Gas Transporter Processing Plant located in Oral , Texas , Reeves County,
Texas. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

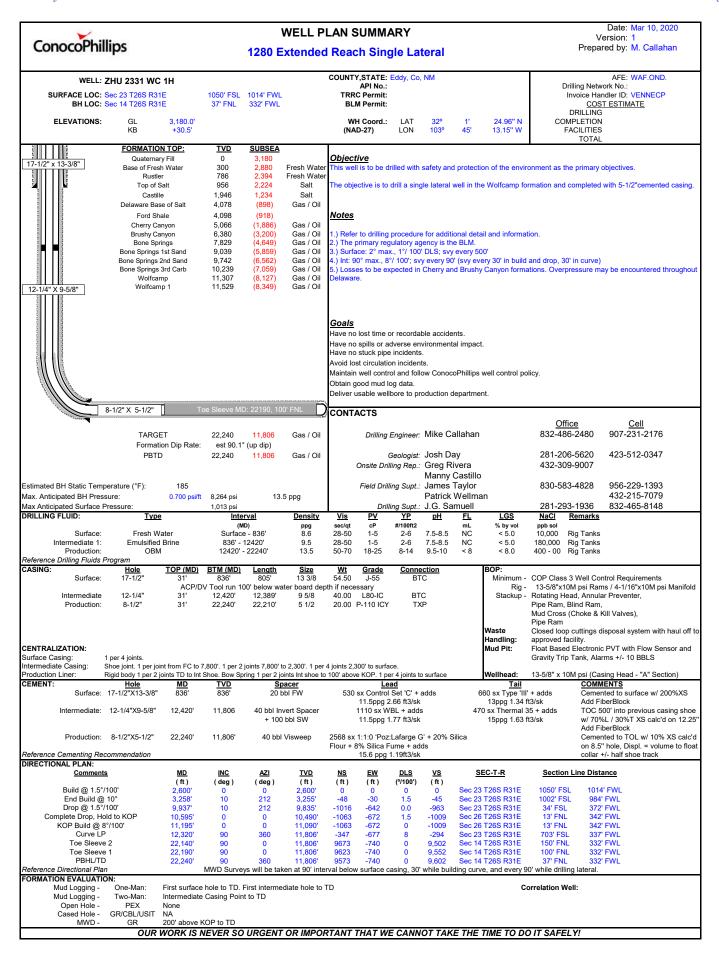
After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. 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
 - o Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas On lease
 - o 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



SPECIFICATIONS

FLOOR: 3/16" PL one piece

CROSS MEMBER: 3 x 4.1 channel 16" on

center

WALLS: 3/16" PL solid welded with tubing

top, insi de liner hooks

DOOR: 3/16" PL with tubing frame FRONT: 3/16" PL slant formed

PICK UP: Standard cable with 2" x 6" x 1/4"

rails, gu sset at each crossmember

WHEELS: 10 DIA x 9 long with rease fittings DOOR LATCH: 3 Independent ratchet binders with chains, vertical second latch GASKETS: Extruded rubber seal with metal

retainers

WELDS: All welds continuous except sub-

structur e crossmembers

FINISH: Coated inside and out with direct to metal, rust inhibiting acrylic enamel color coat HYDROTESTING: Full capacity static test DIMEN SIONS: 22'-11' long (21'-8" inside), 99" wid e (88" inside), see drawing for height OPTIONS: Steel grit blast and special paint, Ampliroll, Heil and Dino pickup

ROOF: 3/16" PL roof panels with tubing and

channel support frame

LIDS: (2) 68" x 90" metal rolling lids spring

loaded, self raising

ROLLERS: 4" V-groove rollers with delrin

bearings and grease fittings

OPENING: (2) 60" x 82" openings

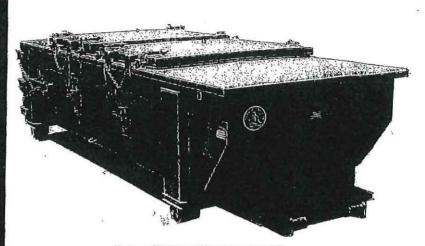
with 8" divider centered on

contain er

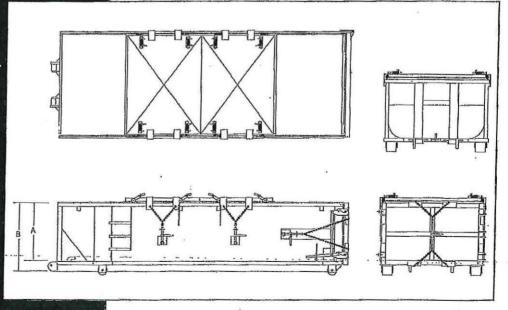
LATCH:(2) independent ratchet binders with chains per lid

GASKETS: Extruded rubber seal with metal retainers

Heavy Duty Split Metal Rolling Lid



CONT.	Α	В
20 YD	41	53
25 YD	53	65
30 YD	65	77



ConocoPhillips MCBU - Permian-Panhandle Gold Data

Planning - NM East State Zone - 3001 ZHU 2331 WC 1H_WC1_LO-W0509 ZHU 2331 WC 1H

ZHU 2331 WC 1H

Plan: ZHU 2331 WC 1H

Standard Planning Report

10 February, 2020

Planning Report

Database: EDT 14 Central Planning

Company: ConocoPhillips MCBU - Permian-Panhandle Gold Data

Project: Planning - NM East State Zone - 3001
Site: ZHU 2331 WC 1H_WC1_LO-W0509

 Well:
 ZHU 2331 WC 1H

 Wellbore:
 ZHU 2331 WC 1H

 Design:
 ZHU 2331 WC 1H

Local Co-ordinate Reference:

 TVD Reference:
 RKB @ 3235.70ft (RKB)

 MD Reference:
 RKB @ 3235.70ft (RKB)

 North Reference:
 Grid

North Reference:
Survey Calculation Method:

Minimum Curvature

Well ZHU 2331 WC 1H

Project Planning - NM East State Zone - 3001, Permian Basin - New Mexico - East/South East, Planning Project for Permian wells in NM Zone 3001

Map System:US State Plane 1927 (Exact solution)Geo Datum:NAD 1927 (NADCON CONUS)

Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Using geodetic scale factor

ZHU 2331 WC 1H_WC1_LO-W0509 Site Northing: 372,793.762 usft Site Position: Latitude: 32° 1' 24.958 N Мар Easting: 679,653.109 usft 103° 45' 13.151 W From: Longitude: 0.00 ft 13-3/16" 0.31 **Position Uncertainty:** Slot Radius: **Grid Convergence:**

ZHU 2331 WC 1H Well **Well Position** +N/-S 0.00 ft Northing: 372,793.762 usft Latitude: 32° 1' 24.958 N +E/-W 0.00 ft Easting: 679,653.109 usft Longitude: 103° 45' 13.151 W **Position Uncertainty** 2.00 ft Wellhead Elevation: ft **Ground Level:** 3,205.70 ft

ZHU 2331 WC 1H Wellbore Declination Dip Angle Field Strength Magnetics **Model Name** Sample Date (°) (°) (nT) BGGM2018 2/6/2020 6.83 59.73 47,556.11691876

ZHU 2331 WC 1H Design Audit Notes: 0.00 Version: Phase: **PLAN** Tie On Depth: Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 355.58

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	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	
3,258.04	9.87	212.29	3,254.79	-47.80	-30.21	1.50	1.50	0.00	212.29	
9,936.82	9.87	212.29	9,834.71	-1,015.64	-641.84	0.00	0.00	0.00	0.00	
10,594.87	0.00	0.00	10,489.50	-1,063.43	-672.05	1.50	-1.50	0.00	180.00	
11,194.87	0.00	0.00	11,089.50	-1,063.43	-672.05	0.00	0.00	0.00	0.00	
12,319.87	90.00	359.64	11,805.70	-347.25	-676.60	8.00	8.00	0.00	0.00	ZHU 2331 WC 1H FT
22,240.32	90.00	359.64	11,805.70	9,573.00	-739.72	0.00	0.00	0.00	0.00	ZHU 2331 WC 1H BH

Planning Report

Database: EDT 14 Central Planning

Company: ConocoPhillips MCBU - Permian-Panhandle Gold Data

Project: Planning - NM East State Zone - 3001
Site: ZHU 2331 WC 1H_WC1_LO-W0509

 Well:
 ZHU 2331 WC 1H

 Wellbore:
 ZHU 2331 WC 1H

 Design:
 ZHU 2331 WC 1H

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well ZHU 2331 WC 1H RKB @ 3235.70ft (RKB) RKB @ 3235.70ft (RKB)

Grid

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	1.50	212.29	2,699.99	-1.11	-0.70	-1.05	1.50	1.50	0.00
2,800.00	3.00	212.29	2,799.91	-4.43	-2.80	-4.20	1.50	1.50	0.00
2,900.00	4.50	212.29	2,899.69	-9.95	-6.29	-9.44	1.50	1.50	0.00
							4.50		
3,000.00	6.00	212.29	2,999.27	-17.69	-11.18	-16.77	1.50	1.50	0.00
3,100.00	7.50	212.29	3,098.57	-27.62	-17.46	-26.20	1.50	1.50	0.00
3,200.00	9.00	212.29	3,197.54	-39.75	-25.12	-37.70	1.50	1.50	0.00
3,258.04	9.87	212.29	3,254.79	-47.80	-30.21	-45.33	1.50	1.50	0.00
3,300.00	9.87	212.29	3,296.13	-53.88	-34.05	-51.09	0.00	0.00	0.00
3,400.00	9.87	212.29	3,394.65	-68.37	-43.21	-64.84	0.00	0.00	0.00
3,500.00	9.87	212.29	3,493.17	-82.86	-52.36	-78.58	0.00	0.00	0.00
3,600.00	9.87	212.29	3,591.69	-97.35	-61.52	-92.32	0.00	0.00	0.00
3,700.00	9.87	212.29	3,690.21	-111.84	-70.68	-106.06	0.00	0.00	0.00
3,800.00	9.87	212.29	3,788.73	-126.33	-79.84	-119.81	0.00	0.00	0.00
3,900.00	9.87	212.29	3,887.25	-140.83	-89.00	-133.55	0.00	0.00	0.00
4,000.00	9.87	212.29	3,985.77	-155.32	-98.15	-133.33	0.00	0.00	0.00
4,000.00	9.87	212.29	4,084.29	-169.81	-107.31	-147.29	0.00	0.00	0.00
4,200.00	9.87	212.29	4,182.81	-184.30	-116.47	-174.78	0.00	0.00	0.00
4,200.00	9.87 9.87	212.29	4,162.61	-104.30 -198.79	-116.47	-174.76 -188.52	0.00	0.00	0.00
4,400.00	9.87	212.29	4,379.85	-213.28	-134.79	-202.26	0.00	0.00	0.00
4,500.00	9.87	212.29	4,478.37	-227.77	-143.94	-216.01	0.00	0.00	0.00
4,600.00	9.87	212.29	4,576.89	-242.26	-153.10	-229.75	0.00	0.00	0.00
4,700.00	9.87	212.29	4,675.40	-256.76	-162.26	-243.49	0.00	0.00	0.00
4,800.00	9.87	212.29	4,773.92	-271.25	-171.42	-257.23	0.00	0.00	0.00
4,900.00	9.87	212.29	4,872.44	-285.74	-180.57	-270.98	0.00	0.00	0.00
5,000.00	9.87	212.29	4,970.96	-300.23	-189.73	-284.72	0.00	0.00	0.00
5,100.00	9.87	212.29	5,069.48	-314.72	-198.89	-298.46	0.00	0.00	0.00
5,200.00	9.87	212.29	5,168.00	-329.21	-208.05	-312.20	0.00	0.00	0.00

Planning Report

Database: EDT 14 Central Planning

Company: ConocoPhillips MCBU - Permian-Panhandle Gold Data

Project: Planning - NM East State Zone - 3001
Site: ZHU 2331 WC 1H_WC1_LO-W0509

 Well:
 ZHU 2331 WC 1H

 Wellbore:
 ZHU 2331 WC 1H

 Design:
 ZHU 2331 WC 1H

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well ZHU 2331 WC 1H RKB @ 3235.70ft (RKB) RKB @ 3235.70ft (RKB)

Grid

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.00	9.87	212.29	5,266.52	-343.70	-217.21	-325.95	0.00	0.00	0.00
5,400.00	9.87	212.29	5,365.04	-358.19	-226.36	-339.69	0.00	0.00	0.00
5,500.00	9.87	212.29	5,463.56	-372.69	-235.52	-353.43	0.00	0.00	0.00
5,600.00	9.87	212.29	5,562.08	-387.18	-244.68	-367.17	0.00	0.00	0.00
5,700.00	9.87	212.29	5,660.60	-401.67	-253.84	-380.92	0.00	0.00	0.00
5,800.00	9.87	212.29	5,759.12	-416.16	-263.00	-394.66	0.00	0.00	0.00
5,900.00	9.87	212.29	5,857.64	-430.65	-272.15	-408.40	0.00	0.00	0.00
6,000.00	9.87	212.29	5,956.16	-445.14	-281.31	-422.15	0.00	0.00	0.00
6,100.00 6,200.00	9.87 9.87	212.29 212.29	6,054.68 6,153.20	-459.63 -474.12	-290.47 -299.63	-435.89 -449.63	0.00	0.00 0.00	0.00
6,300.00	9.87	212.29	6,251.72	-474.12 -488.62	-299.63 -308.79	-449.63 -463.37	0.00 0.00	0.00	0.00 0.00
6,400.00	9.87	212.29	6,350.24	-503.11 517.60	-317.94	-477.12 400.96	0.00	0.00	0.00
6,500.00 6,600.00	9.87 9.87	212.29 212.29	6,448.76 6.547.28	-517.60 -532.09	-327.10 -336.26	-490.86 -504.60	0.00 0.00	0.00 0.00	0.00 0.00
6,700.00	9.87	212.29	6,645.80	-532.09 -546.58	-336.26 -345.42	-504.60 -518.34	0.00	0.00	0.00
6,800.00	9.87	212.29	6,744.32	-561.07	-354.57	-532.09	0.00	0.00	0.00
6,900.00	9.87	212.29	6,842.84	-575.56	-363.73	-545.83	0.00	0.00	0.00
7,000.00	9.87	212.29	6,941.36	-590.05	-372.89	-559.57	0.00	0.00	0.00
7,100.00	9.87	212.29	7,039.88	-604.55	-382.05	-573.31	0.00	0.00	0.00
7,200.00	9.87	212.29	7,138.40	-619.04	-391.21	-587.06	0.00	0.00	0.00
7,300.00	9.87	212.29	7,236.92	-633.53	-400.36	-600.80	0.00	0.00	0.00
7,400.00	9.87	212.29	7,335.44	-648.02	-409.52	-614.54	0.00	0.00	0.00
7,500.00	9.87	212.29	7,433.96	-662.51	-418.68	-628.29	0.00	0.00	0.00
7,600.00	9.87	212.29	7,532.48	-677.00	-427.84	-642.03	0.00	0.00	0.00
7,700.00	9.87	212.29	7,631.00	-691.49	-437.00	-655.77	0.00	0.00	0.00
7,800.00	9.87	212.29	7,729.52	-705.98	-446.15	-669.51	0.00	0.00	0.00
7,900.00	9.87	212.29	7,828.04	-720.48	-455.31	-683.26	0.00	0.00	0.00
8,000.00	9.87	212.29	7,926.56	-734.97	-464.47	-697.00	0.00	0.00	0.00
8,100.00	9.87	212.29	8,025.08	-749.46	-473.63	-710.74	0.00	0.00	0.00
8,200.00	9.87	212.29	8,123.60	-763.95	-482.79	-724.48	0.00	0.00	0.00
8,300.00	9.87	212.29	8,222.12	-778.44	-491.94	-738.23	0.00	0.00	0.00
8,400.00	9.87	212.29	8,320.63	-792.93	-501.10	-751.97	0.00	0.00	0.00
8,500.00	9.87	212.29	8,419.15	-807.42	-510.26	-765.71	0.00	0.00	0.00
8,600.00 8,700.00	9.87 9.87	212.29 212.29	8,517.67 8,616.19	-821.91 -836.41	-519.42 -528.57	-779.45 -793.20	0.00 0.00	0.00 0.00	0.00 0.00
8,800.00	9.87	212.29	8,714.71	-850.90	-526.57	-793.20 -806.94	0.00	0.00	0.00
8,900.00 9,000.00	9.87 9.87	212.29 212.29	8,813.23 8,911.75	-865.39 -879.88	-546.89 -556.05	-820.68 -834.42	0.00 0.00	0.00 0.00	0.00 0.00
9,000.00	9.87	212.29	9,010.27	-894.37	-565.21	-848.17	0.00	0.00	0.00
9,200.00	9.87	212.29	9,108.79	-908.86	-574.36	-861.91	0.00	0.00	0.00
9,300.00	9.87	212.29	9,207.31	-923.35	-583.52	-875.65	0.00	0.00	0.00
9,400.00	9.87	212.29	9,305.83	-937.84	-592.68	-889.40	0.00	0.00	0.00
9,500.00	9.87	212.29	9,404.35	-952.34	-601.84	-903.14	0.00	0.00	0.00
9,600.00	9.87	212.29	9,502.87	-966.83	-611.00	-916.88	0.00	0.00	0.00
9,700.00	9.87	212.29	9,601.39	-981.32	-620.15	-930.62	0.00	0.00	0.00
9,800.00	9.87	212.29	9,699.91	-995.81	-629.31	-944.37	0.00	0.00	0.00
9,900.00	9.87	212.29	9,798.43	-1,010.30	-638.47	-958.11	0.00	0.00	0.00
9,936.82	9.87	212.29	9,834.71	-1,015.64	-641.84	-963.17	0.00	0.00	0.00
10,000.00	8.92	212.29	9,897.04	-1,024.36	-647.35	-971.44	1.50	-1.50	0.00
10,100.00	7.42	212.29	9,996.02	-1,036.37	-654.95	-982.83	1.50	-1.50	0.00
10,200.00	5.92	212.29	10,095.34	-1,046.20	-661.15	-992.15	1.50	-1.50	0.00

Planning Report

Database: EDT 14 Central Planning

Company: ConocoPhillips MCBU - Permian-Panhandle Gold Data

Project: Planning - NM East State Zone - 3001
Site: ZHU 2331 WC 1H_WC1_LO-W0509

 Well:
 ZHU 2331 WC 1H

 Wellbore:
 ZHU 2331 WC 1H

 Design:
 ZHU 2331 WC 1H

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well ZHU 2331 WC 1H RKB @ 3235.70ft (RKB) RKB @ 3235.70ft (RKB)

Grid

I Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,500.00	1.42	212.29	10,394.65	-1,062.44	-671.42	-1,007.55	1.50	-1.50	0.00
10,594.87	0.00	0.00	10,489.50	-1,063.43	-672.05	-1,008.50	1.50	-1.50	0.00
10,600.00	0.00	0.00	10,494.64	-1,063.43	-672.05	-1,008.50	0.00	0.00	0.00
10,700.00	0.00	0.00	10,594.64	-1,063.43	-672.05	-1,008.50	0.00	0.00	0.00
10,800.00	0.00	0.00	10,694.64	-1,063.43	-672.05	-1,008.50	0.00	0.00	0.00
10,900.00	0.00	0.00	10,794.64	-1,063.43	-672.05	-1,008.50	0.00	0.00	0.00
11,000.00	0.00	0.00	10,894.64	-1,063.43	-672.05	-1,008.50	0.00	0.00	0.00
11,100.00	0.00	0.00	10,994.64	-1,063.43	-672.05	-1,008.50	0.00	0.00	0.00
11,194.87	0.00	0.00	11,089.50	-1,063.43	-672.05	-1,008.50	0.00	0.00	0.00
11,200.00	0.41	359.64	11,094.64	-1,063.42	-672.05	-1,008.48	8.00	8.00	0.00
11,250.00	4.41	359.64	11,144.58	-1,061.31	-672.06	-1,006.38	8.00	8.00	0.00
11,300.00	8.41	359.64	11,194.26	-1,055.73	-672.10	-1,000.81	8.00	8.00	0.00
11,350.00	12.41	359.64	11,243.43	-1,046.70	-672.15	-991.80	8.00	8.00	0.00
11,400.00	16.41	359.64	11,291.84	-1,034.26	-672.23	-979.39	8.00	8.00	0.00
11,450.00	20.41	359.64	11,339.27	-1,018.47	-672.33	-963.65	8.00	8.00	0.00
11,500.00	24.41	359.64	11,385.49	-999.41	-672.46	-944.63	8.00	8.00	0.00
11,550.00	28.41	359.64	11,430.26	-977.18	-672.60	-922.45	8.00	8.00	0.00
11,600.00	32.41	359.64	11,473.37	-951.87	-672.76	-897.21	8.00	8.00	0.00
11,650.00	36.41	359.64	11,514.61	-923.62	-672.94	-869.03	8.00	8.00	0.00
11,700.00	40.41	359.64	11,553.79	-892.57	-673.14	-838.05	8.00	8.00	0.00
11,750.00	44.41	359.64	11,590.69	-858.85	-673.35	-804.42	8.00	8.00	0.00
11,800.00	48.41	359.64	11,625.16	-822.64	-673.58	-768.31	8.00	8.00	0.00
11,850.00	52.41	359.64	11,657.02	-784.12	-673.83	-729.88	8.00	8.00	0.00
11,900.00	56.41	359.64	11,686.11	-743.47	-674.08	-689.33	8.00	8.00	0.00
11,950.00	60.41	359.64	11,712.30	-700.89	-674.35	-646.85	8.00	8.00	0.00
12,000.00	64.41	359.64	11,735.45	-656.58	-674.64	-602.66	8.00	8.00	0.00
12,050.00	68.41	359.64	11,755.45	-610.77	-674.93	-556.96	8.00	8.00	0.00
12,100.00	72.41	359.64	11,772.22	-563.68	-675.23	-509.98	8.00	8.00	0.00
12,150.00	76.41	359.64	11,785.65	-515.53	-675.53	-461.95	8.00	8.00	0.00
12,200.00	80.41	359.64	11,795.69	-466.56	-675.85	-413.10	8.00	8.00	0.00
12,250.00	84.41	359.64	11,802.29	-417.01	-676.16	-363.67	8.00	8.00	0.00
12,300.00	88.41	359.64	11,805.42	-367.12	-676.48	-313.91	8.00	8.00	0.00
12,319.87	90.00	359.64	11,805.70	-347.25	-676.60	-294.09	8.00	8.00	0.00
12,400.00	90.00	359.64	11,805.70	-267.12	-677.11	-214.16	0.00	0.00	0.00
12,500.00	90.00	359.64	11,805.70	-167.12	-677.75	-114.41	0.00	0.00	0.00
12,600.00	90.00	359.64	11,805.70	-67.12	-678.39	-14.66	0.00	0.00	0.00
12,700.00	90.00	359.64	11,805.70	32.87	-679.02	85.09	0.00	0.00	0.00
12,800.00	90.00	359.64	11,805.70	132.87	-679.66	184.84	0.00	0.00	0.00
12,900.00	90.00	359.64	11,805.70	232.87	-680.30	284.59	0.00	0.00	0.00
13,000.00	90.00	359.64	11,805.70	332.87	-680.93	384.34	0.00	0.00	0.00
13,100.00	90.00	359.64	11,805.70	432.87	-681.57	484.09	0.00	0.00	0.00
13,200.00	90.00	359.64	11,805.70	532.86	-682.20	583.84	0.00	0.00	0.00
13,300.00	90.00	359.64	11,805.70	632.86	-682.84	683.59	0.00	0.00	0.00
13,400.00	90.00	359.64	11,805.70	732.86	-683.48	783.34	0.00	0.00	0.00
13,500.00	90.00	359.64	11,805.70	832.86	-684.11	883.09	0.00	0.00	0.00
13,600.00	90.00	359.64	11,805.70	932.86	-684.75	982.84	0.00	0.00	0.00
13,700.00	90.00	359.64	11,805.70	1,032.85	-685.39	1,082.59	0.00	0.00	0.00
13,800.00	90.00	359.64	11,805.70	1,132.85	-686.02	1,182.34	0.00	0.00	0.00
13,900.00	90.00	359.64	11,805.70	1,232.85	-686.66	1,282.09	0.00	0.00	0.00
14,000.00	90.00	359.64	11,805.70	1,332.85	-687.29	1,381.84	0.00	0.00	0.00
14,100.00	90.00	359.64	11,805.70	1,432.85	-687.93	1,481.59	0.00	0.00	0.00
14,200.00	90.00	359.64	11,805.70	1,532.84	-688.57	1,581.34	0.00	0.00	0.00
14,300.00	90.00	359.64	11,805.70	1,632.84	-689.20	1,681.09	0.00	0.00	0.00

Planning Report

Database: EDT 14 Central Planning

Company: ConocoPhillips MCBU - Permian-Panhandle Gold Data

Project: Planning - NM East State Zone - 3001
Site: ZHU 2331 WC 1H_WC1_LO-W0509

 Well:
 ZHU 2331 WC 1H

 Wellbore:
 ZHU 2331 WC 1H

 Design:
 ZHU 2331 WC 1H

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well ZHU 2331 WC 1H RKB @ 3235.70ft (RKB)

RKB @ 3235.70ft (RKB) Grid

(ft) 14,400.00 14,500.00 14,600.00 14,700.00 14,800.00 15,000.00 15,100.00 15,200.00 15,300.00 15,500.00 15,500.00 15,600.00 15,700.00 15,800.00 15,900.00 16,000.00 16,000.00 16,000.00 16,000.00 16,200.00 16,200.00 16,300.00	90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	359.64 359.64 359.64 359.64 359.64 359.64 359.64 359.64 359.64 359.64 359.64 359.64 359.64	(ft) 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70	(ft) 1,732.84 1,832.84 1,932.84 2,032.83 2,132.83 2,232.83 2,332.83 2,432.83 2,532.82 2,632.82 2,732.82 2,832.82 2,932.82	-689.84 -690.48 -691.11 -691.75 -692.38 -693.02 -693.66 -694.29 -694.93 -695.57	1,780.84 1,880.59 1,980.34 2,080.09 2,179.83 2,279.58 2,379.33 2,479.08 2,578.83 2,678.58 2,778.33	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	(°/100ft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	(°/100ft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
14,500.00 14,600.00 14,700.00 14,800.00 14,900.00 15,000.00 15,100.00 15,200.00 15,300.00 15,400.00 15,500.00 15,600.00 15,700.00 15,800.00 15,900.00 16,000.00 16,100.00 16,200.00	90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	359.64 359.64 359.64 359.64 359.64 359.64 359.64 359.64 359.64 359.64 359.64 359.64	11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70	1,832.84 1,932.84 2,032.83 2,132.83 2,232.83 2,332.83 2,432.83 2,532.82 2,632.82 2,732.82 2,832.82	-690.48 -691.11 -691.75 -692.38 -693.02 -693.66 -694.29 -694.93 -695.57	1,880.59 1,980.34 2,080.09 2,179.83 2,279.58 2,379.33 2,479.08 2,578.83 2,678.58	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
14,600.00 14,700.00 14,800.00 14,900.00 15,000.00 15,100.00 15,200.00 15,300.00 15,500.00 15,600.00 15,700.00 15,800.00 15,900.00 16,000.00 16,100.00	90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	359.64 359.64 359.64 359.64 359.64 359.64 359.64 359.64 359.64 359.64 359.64	11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70	1,932.84 2,032.83 2,132.83 2,232.83 2,332.83 2,432.83 2,532.82 2,632.82 2,732.82 2,832.82	-691.11 -691.75 -692.38 -693.02 -693.66 -694.29 -694.93 -695.57	1,980.34 2,080.09 2,179.83 2,279.58 2,379.33 2,479.08 2,578.83 2,678.58	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
14,700.00 14,800.00 14,900.00 15,000.00 15,100.00 15,200.00 15,300.00 15,500.00 15,600.00 15,700.00 15,900.00 16,000.00 16,100.00 16,200.00	90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	359.64 359.64 359.64 359.64 359.64 359.64 359.64 359.64 359.64 359.64	11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70	2,032.83 2,132.83 2,232.83 2,332.83 2,432.83 2,532.82 2,632.82 2,732.82 2,832.82	-691.75 -692.38 -693.02 -693.66 -694.29 -694.93 -695.57	2,080.09 2,179.83 2,279.58 2,379.33 2,479.08 2,578.83 2,678.58	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	0.00 0.00 0.00 0.00 0.00 0.00 0.00
14,800.00 14,900.00 15,000.00 15,100.00 15,200.00 15,300.00 15,500.00 15,600.00 15,700.00 15,800.00 15,900.00 16,000.00 16,100.00 16,200.00	90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	359.64 359.64 359.64 359.64 359.64 359.64 359.64 359.64 359.64 359.64	11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70	2,132.83 2,232.83 2,332.83 2,432.83 2,532.82 2,632.82 2,732.82 2,832.82	-692.38 -693.02 -693.66 -694.29 -694.93 -695.57 -696.20	2,179.83 2,279.58 2,379.33 2,479.08 2,578.83 2,678.58	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 0.00 0.00 0.00 0.00
14,900.00 15,000.00 15,100.00 15,200.00 15,300.00 15,500.00 15,600.00 15,700.00 15,800.00 15,900.00 16,000.00 16,100.00 16,200.00	90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	359.64 359.64 359.64 359.64 359.64 359.64 359.64 359.64 359.64	11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70	2,232.83 2,332.83 2,432.83 2,532.82 2,632.82 2,732.82 2,832.82	-693.02 -693.66 -694.29 -694.93 -695.57	2,279.58 2,379.33 2,479.08 2,578.83 2,678.58	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 0.00
14,900.00 15,000.00 15,100.00 15,200.00 15,300.00 15,500.00 15,500.00 15,600.00 15,700.00 15,800.00 15,900.00 16,000.00 16,100.00	90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	359.64 359.64 359.64 359.64 359.64 359.64 359.64 359.64 359.64	11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70	2,232.83 2,332.83 2,432.83 2,532.82 2,632.82 2,732.82 2,832.82	-693.02 -693.66 -694.29 -694.93 -695.57	2,279.58 2,379.33 2,479.08 2,578.83 2,678.58	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 0.00
15,000.00 15,100.00 15,200.00 15,300.00 15,400.00 15,500.00 15,600.00 15,700.00 15,800.00 15,900.00 16,000.00 16,100.00	90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	359.64 359.64 359.64 359.64 359.64 359.64 359.64 359.64	11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70	2,332.83 2,432.83 2,532.82 2,632.82 2,732.82 2,832.82	-693.66 -694.29 -694.93 -695.57	2,379.33 2,479.08 2,578.83 2,678.58	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
15,100.00 15,200.00 15,300.00 15,400.00 15,500.00 15,600.00 15,700.00 15,800.00 15,900.00 16,000.00 16,100.00	90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	359.64 359.64 359.64 359.64 359.64 359.64 359.64	11,805.70 11,805.70 11,805.70 11,805.70 11,805.70 11,805.70	2,432.83 2,532.82 2,632.82 2,732.82 2,832.82	-694.29 -694.93 -695.57 -696.20	2,479.08 2,578.83 2,678.58	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
15,200.00 15,300.00 15,400.00 15,500.00 15,600.00 15,700.00 15,800.00 16,000.00 16,100.00 16,200.00	90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	359.64 359.64 359.64 359.64 359.64 359.64 359.64	11,805.70 11,805.70 11,805.70 11,805.70 11,805.70	2,532.82 2,632.82 2,732.82 2,832.82	-694.93 -695.57 -696.20	2,578.83 2,678.58	0.00 0.00	0.00 0.00	0.00 0.00
15,300.00 15,400.00 15,500.00 15,600.00 15,700.00 15,800.00 15,900.00 16,000.00 16,100.00 16,200.00	90.00 90.00 90.00 90.00 90.00 90.00 90.00	359.64 359.64 359.64 359.64 359.64	11,805.70 11,805.70 11,805.70 11,805.70	2,632.82 2,732.82 2,832.82	-695.57 -696.20	2,678.58	0.00	0.00	0.00
15,300.00 15,400.00 15,500.00 15,600.00 15,700.00 15,800.00 15,900.00 16,000.00 16,100.00	90.00 90.00 90.00 90.00 90.00 90.00 90.00	359.64 359.64 359.64 359.64 359.64	11,805.70 11,805.70 11,805.70 11,805.70	2,632.82 2,732.82 2,832.82	-695.57 -696.20	2,678.58	0.00	0.00	0.00
15,400.00 15,500.00 15,600.00 15,700.00 15,800.00 15,900.00 16,000.00 16,100.00 16,200.00	90.00 90.00 90.00 90.00 90.00 90.00	359.64 359.64 359.64 359.64 359.64	11,805.70 11,805.70 11,805.70	2,732.82 2,832.82	-696.20				
15,500.00 15,600.00 15,700.00 15,800.00 15,900.00 16,000.00 16,100.00 16,200.00	90.00 90.00 90.00 90.00 90.00	359.64 359.64 359.64 359.64	11,805.70 11,805.70	2,832.82		2,778.33	0.00	0.00	0.00
15,600.00 15,700.00 15,800.00 15,900.00 16,000.00 16,100.00 16,200.00	90.00 90.00 90.00 90.00 90.00	359.64 359.64 359.64	11,805.70						
15,700.00 15,800.00 15,900.00 16,000.00 16,100.00 16,200.00	90.00 90.00 90.00 90.00	359.64 359.64		2,932.82	-696.84	2,878.08	0.00	0.00	0.00
15,800.00 15,900.00 16,000.00 16,100.00 16,200.00	90.00 90.00 90.00	359.64	11,805.70	,	-697.47	2,977.83	0.00	0.00	0.00
15,800.00 15,900.00 16,000.00 16,100.00 16,200.00	90.00 90.00 90.00	359.64		3,032.81	-698.11	3,077.58	0.00	0.00	0.00
15,900.00 16,000.00 16,100.00 16,200.00	90.00 90.00		11,805.70	3,132.81	-698.75	3,177.33	0.00	0.00	0.00
16,000.00 16,100.00 16,200.00	90.00	359.64	11,805.70	3,232.81	-699.38	3,277.08	0.00	0.00	0.00
16,100.00 16,200.00			,	,					
16,200.00	90.00	359.64	11,805.70	3,332.81	-700.02	3,376.83	0.00	0.00	0.00
-,		359.64	11,805.70	3,432.80	-700.66	3,476.58	0.00	0.00	0.00
16,300.00	90.00	359.64	11,805.70	3,532.80	-701.29	3,576.33	0.00	0.00	0.00
	90.00	359.64	11,805.70	3,632.80	-701.93	3,676.08	0.00	0.00	0.00
16 400 00	90.00	359.64	11 005 70	3,732.80	702.56	2 775 02	0.00	0.00	0.00
16,400.00			11,805.70	,	-702.56	3,775.83			
16,500.00	90.00	359.64	11,805.70	3,832.80	-703.20	3,875.58	0.00	0.00	0.00
16,600.00	90.00	359.64	11,805.70	3,932.79	-703.84	3,975.33	0.00	0.00	0.00
16,700.00	90.00	359.64	11,805.70	4,032.79	-704.47	4,075.08	0.00	0.00	0.00
16,800.00	90.00	359.64	11,805.70	4,132.79	-705.11	4,174.83	0.00	0.00	0.00
16,900.00	90.00	359.64	11,805.70	4,232.79	-705.75	4,274.58	0.00	0.00	0.00
			,	,					
17,000.00	90.00	359.64	11,805.70	4,332.79	-706.38	4,374.33	0.00	0.00	0.00
17,100.00	90.00	359.64	11,805.70	4,432.78	-707.02	4,474.08	0.00	0.00	0.00
17,200.00	90.00	359.64	11,805.70	4,532.78	-707.65	4,573.83	0.00	0.00	0.00
17,300.00	90.00	359.64	11,805.70	4,632.78	-708.29	4,673.58	0.00	0.00	0.00
17,400.00	90.00	359.64	11,805.70	4,732.78	-708.93	4,773.33	0.00	0.00	0.00
	90.00		,						
17,500.00		359.64	11,805.70	4,832.78	-709.56	4,873.08	0.00	0.00	0.00
17,600.00	90.00	359.64	11,805.70	4,932.77	-710.20	4,972.83	0.00	0.00	0.00
17,700.00	90.00	359.64	11,805.70	5,032.77	-710.84	5,072.58	0.00	0.00	0.00
17,800.00	90.00	359.64	11,805.70	5,132.77	-711.47	5,172.33	0.00	0.00	0.00
17,900.00	90.00	359.64	11.805.70	5.232.77	-712.11	5,272.08	0.00	0.00	0.00
18,000.00	90.00	359.64	11,805.70	5,332.77	-712.74	5,371.83	0.00	0.00	0.00
,			,	,				0.00	0.00
18,100.00	90.00	359.64	11,805.70	5,432.76	-713.38	5,471.58	0.00		
18,200.00	90.00	359.64	11,805.70	5,532.76	-714.02	5,571.33	0.00	0.00	0.00
18,300.00	90.00	359.64	11,805.70	5,632.76	-714.65	5,671.08	0.00	0.00	0.00
18,400.00	90.00	359.64	11,805.70	5,732.76	-715.29	5,770.83	0.00	0.00	0.00
18,500.00	90.00	359.64	11,805.70	5,832.76	-715.93	5,870.58	0.00	0.00	0.00
,			11,805.70						
18,600.00	90.00	359.64	,	5,932.75	-716.56	5,970.33	0.00	0.00	0.00
18,700.00	90.00	359.64	11,805.70	6,032.75	-717.20	6,070.08	0.00	0.00	0.00
18,800.00	90.00	359.64	11,805.70	6,132.75	-717.83	6,169.83	0.00	0.00	0.00
18,900.00	90.00	359.64	11,805.70	6,232.75	-718.47	6,269.58	0.00	0.00	0.00
19,000.00	90.00	359.64	11,805.70	6,332.75	-719.11	6,369.33	0.00	0.00	0.00
19,100.00	90.00	359.64	11,805.70	6,432.74	-719.74	6,469.08	0.00	0.00	0.00
19,200.00	90.00	359.64	11,805.70	6,532.74	-720.38	6,568.83	0.00	0.00	0.00
19,300.00	90.00	359.64	11,805.70	6,632.74	-721.02	6,668.58	0.00	0.00	0.00
19,400.00	90.00	359.64	11,805.70	6,732.74	-721.65	6,768.33	0.00	0.00	0.00
19,500.00	90.00	359.64	11,805.70	6,832.74	-722.29	6,868.07	0.00	0.00	0.00
19,600.00	90.00	359.64	11,805.70	6,932.73	-722.92	6,967.82	0.00	0.00	0.00
19,700.00	90.00	359.64 359.64	11,805.70	7,032.73	-722.92 -723.56	7,067.57	0.00	0.00	0.00

Planning Report

Database: EDT 14 Central Planning

Company: ConocoPhillips MCBU - Permian-Panhandle Gold Data

Project: Planning - NM East State Zone - 3001
Site: ZHU 2331 WC 1H_WC1_LO-W0509

 Well:
 ZHU 2331 WC 1H

 Wellbore:
 ZHU 2331 WC 1H

 Design:
 ZHU 2331 WC 1H

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well ZHU 2331 WC 1H RKB @ 3235.70ft (RKB)

RKB @ 3235.70ft (RKB) Grid

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)
19,800.00	90.00	359.64	11,805.70	7,132.73	-724.20	7,167.32	0.00	0.00	0.00
19,900.00	90.00	359.64	11,805.70	7,232.73	-724.83	7,267.07	0.00	0.00	0.00
20,000.00	90.00	359.64	11,805.70	7,332.73	-725.47	7,366.82	0.00	0.00	0.00
20,100.00	90.00	359.64	11,805.70	7,432.72	-726.11	7,466.57	0.00	0.00	0.00
20,200.00	90.00	359.64	11,805.70	7,532.72	-726.74	7,566.32	0.00	0.00	0.00
20,300.00	90.00	359.64	11,805.70	7,632.72	-727.38	7,666.07	0.00	0.00	0.00
20,400.00	90.00	359.64	11,805.70	7,732.72	-728.01	7,765.82	0.00	0.00	0.00
20,500.00	90.00	359.64	11,805.70	7,832.72	-728.65	7,865.57	0.00	0.00	0.00
20,600.00	90.00	359.64	11,805.70	7,932.71	-729.29	7,965.32	0.00	0.00	0.00
20,700.00	90.00	359.64	11,805.70	8,032.71	-729.92	8,065.07	0.00	0.00	0.00
20,800.00	90.00	359.64	11,805.70	8,132.71	-730.56	8,164.82	0.00	0.00	0.00
20,900.00	90.00	359.64	11,805.70	8,232.71	-731.20	8,264.57	0.00	0.00	0.00
21,000.00	90.00	359.64	11,805.70	8,332.71	-731.83	8,364.32	0.00	0.00	0.00
21,100.00	90.00	359.64	11,805.70	8,432.70	-732.47	8,464.07	0.00	0.00	0.00
21,200.00	90.00	359.64	11,805.70	8,532.70	-733.10	8,563.82	0.00	0.00	0.00
21,300.00	90.00	359.64	11,805.70	8,632.70	-733.74	8,663.57	0.00	0.00	0.00
21,400.00	90.00	359.64	11,805.70	8,732.70	-734.38	8,763.32	0.00	0.00	0.00
21,500.00	90.00	359.64	11,805.70	8,832.70	-735.01	8,863.07	0.00	0.00	0.00
21,600.00	90.00	359.64	11,805.70	8,932.69	-735.65	8,962.82	0.00	0.00	0.00
21,700.00	90.00	359.64	11,805.70	9,032.69	-736.29	9,062.57	0.00	0.00	0.00
21,800.00	90.00	359.64	11,805.70	9,132.69	-736.92	9,162.32	0.00	0.00	0.00
21,900.00	90.00	359.64	11,805.70	9,232.69	-737.56	9,262.07	0.00	0.00	0.00
22,000.00	90.00	359.64	11,805.70	9,332.69	-738.19	9,361.82	0.00	0.00	0.00
22,100.00	90.00	359.64	11,805.70	9,432.68	-738.83	9,461.57	0.00	0.00	0.00
22,200.00	90.00	359.64	11,805.70	9,532.68	-739.47	9,561.32	0.00	0.00	0.00
22,240.32	90.00	359.64	11,805.70	9,573.00	-739.72	9,601.54	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 1H BHL - plan hits target cen - Point	0.00 ter	0.00	11,805.70	9,573.00	-739.72	382,366.226	678,913.427	32° 2' 59.728 N	103° 45' 21.148 W
ZHU 2331 WC 1H FTP - plan hits target cen - Point	0.00 ter	0.00	11,805.70	-347.25	-676.60	372,446.530	678,976.542	32° 1' 21.558 N	103° 45' 21.031 W

Casing Points							
	Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter (")	
	12,319.87	11,805.70	9 5/8"		9-5/8	12-1/4	
	22,240.32	11,805.70	7" x 8 3/4"		7	8-3/4	
	2,200.00	2,200.00	16"		16	17-1/2	

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | CONOCOPHILLIPS COMPANY

LEASE NO.: | **NMLC0064756**

WELL NAME & NO.: ZHU 2331 WC 1H SURFACE HOLE FOOTAGE: 1050'/S & 1014'/W

BOTTOM HOLE FOOTAGE | 37'/N & 332'/W

LOCATION: Section 23, T.26 S., R.31 E., NMP

COUNTY: Eddy County, New Mexico

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

Casing Design:

- 1. The 13-3/8 inch surface casing shall be set at approximately 836 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after

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

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

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

Option 1 (Single Stage):

Cement to surface. If cement does not circulate see B.1.a, c-d above.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
 Excess cement calculates to -5%, additional cement might be required.

Option 2:

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

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

• Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

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

2.

Option 1:

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

Option 2:

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

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County
 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

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

B. PRESSURE CONTROL

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

OTA12292020



H₂S Contingency Plan November 2016

H₂S Contingency Plan Holders:

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

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

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 (H₂S) OPERATIONS

Contingency Plan For Permian Drilling Operations

ConocoPhillips Company

Mid-Continent Business Unit Permian Asset Area

I.PURPOSE

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

II. SCOPE

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

III. PROCEDURES

First E	Employee on Scene
	Assess the incident and <u>ensure your own safety</u> .
	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 S	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 ₂ S radius of exposure (ROE). All manned barricades must be equipped with an H ₂ S monitor and a 2-way radio.
— Set roadblocks and staging area as determined.
Establish the Incident Command Structure by designating appropriate on scene response personnel as follows:
Recording Secretary Public Information Officer Safety/Medical Officer Decontamination Officer
—— Have the "Recording Secretary" begin documenting the incident on the "Incident Log" (refer to Section VIII: Forms/Reports).
— If needed, request radio silence on all channels that use your radio tower stating that, until further notice, the channels should be used for emergency communications only.
—— Perform a Site Characterization and designate the following:
Hot Zone Hazardous Area Warm Zone Preparation & Decontamination Area Cold Zone Safe Area

AND

On-Scene Incident Command Post 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-Sco Officer (refer to Section VI: Public Media Relations	
Coordinate the attempt to stop the release of H ₂ S. Closing upstream and downstream valves to shut-orand/or plugging or clamping leaks. Igniting escaping toxicity hazard should be used ONLY AS A LAST Is be determined if the gas can be safely ignited, taking there is a possibility of a widespread flammable at the safety ignited.	ff gas supply sources, ag gas to reduce the RESORT. (It must first ag into consideration if
Once the emergency is over, return the situation to i	normal by:
Confirming the absence of H ₂ S and combustibarea,	ole gas throughout the
Discontinuing the radio silence on all channels emergency incident is over,	s, stating that the
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	e notified of the
incident (refer to Section V: Emergency Call List).	
 Clean up the site. (Be sure all contractor crews hav HAZWOPER training.) 	e had appropriate
Report completion of the cleanup to the Asset Environmentalist will report this to the proper State agencies.)	

- Fill out all required incident reports and send originals to the Safety Department. (Keep a copy for your records.)
 - Company employee receiving occupational injury or illnesses.
 - Company employee involved in a vehicle accident while driving a company vehicle.
 - Company property that is damaged or lost.
 - Accident involving the public or a contractor; includes personal injuries, vehicle accidents, and property damage. Also includes any situation, which could result in a claim against the Company.
 - Hazardous Material Spill/Release Report Form
 - Emergency Drill Report
- Assist the Safety Department in the investigation of the incident. Review the factors that caused or allowed the incident to occur, and modify operating, maintenance, and/or surveillance procedures as needed. Make appropriate repairs and train or retrain employees in the use and operation of the system.
- If this incident was simulated for practice in emergency response, complete the Emergency Drill Report found in Section VIII: Forms/Reports and submit a copy to the Drilling Manager. (Keep one copy in area files to document exercising of the plan.)

Emergency Procedures Responsibility

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

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

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

IV. **EMERGENCY EQUIPMENT and MAINTENANCE**

Emergency Equipment Suppliers

DXP/ Safety International - Odessa, Tx.

H₂S monitors 432.580.3770

Breathing air includes cascade systems

First aid and medical supplies

Safety equipment

H2S Specialist

Total Safety US Odessa. Tx/ Hobs. NM

432.561.5049 Odessa H₂S monitors 575.392.2973 Hobbs

Breathing air includes cascade systems

First aid and medical supplies

Safety equipment

DXP/ Indian Fire & Safety - Hobbs, NM 575.393.3093

H₂S monitors

Breathing air including cascade systems trailer mounted

30 minute air packs

Safety Equipment

TC Safety - Odessa. Tx.

H₂S monitors 432.413.8240

Cascade systems trailer mounted

30 minute air packs

Safety Equipment

H2S Specialist

Secorp Industries - Odessa, Tx.

432.614.2565

H2S Monitor Systems

Cascade Systems

H2S Specialist

H2S, CPR, First Aid Training

Emergency Equipment and Maintenance (continued)

General Information

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

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

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

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

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

H2S Safety Equipment and Monitoring Systems

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

- 3 Fixed H2S sensors located as follows:
 - 1 on the rig floor
 - 1 at the Bell Nipple
 - 1 at the Shale Shaker or Flowline
- 1 <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 Audible warning system located on rig floor
- 2 Visual warning systems (Beacon Lights)
 - 1 Located at the rig floor
 - 1 Located in the mud mixing room

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

- 2 Briefing areas clearly marked
 - 2 SCBA's at each briefing area
 - 1- SCBA located at the Drilling Reps office

Note:

- 1. All SCBA's must be positive pressure type only!!!
- 2. All SCBA's must either be Scott or Drager brand.
- 3. All SCBA's face pieces should be <u>size large</u>, unless otherwise specified by the Drilling Supervisor.
- 5 Emergency Escape Paks located at Top Doghouse.

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

 $1 - \frac{\text{Tri or Quad gas monitor}}{\text{located at the Drilling Reps office.}}$ 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

Texas Railroad Commission (District 8)

Midland, Texas

Office: 432.684.5581

New Mexico Oil Conservation Commission

P. O. Box 1980

Hobbs, New Mexico 88240-1980

Office: 575.393.6161

Bureau of Land Mngt.

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

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

Office: 575.234.5972

Fax: 575.885.9264

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

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

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

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

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

Note:

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

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

VII. Public Notification/Evacuation

Alert and/or Evacuate People within the Exposure Area

1. <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.

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

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

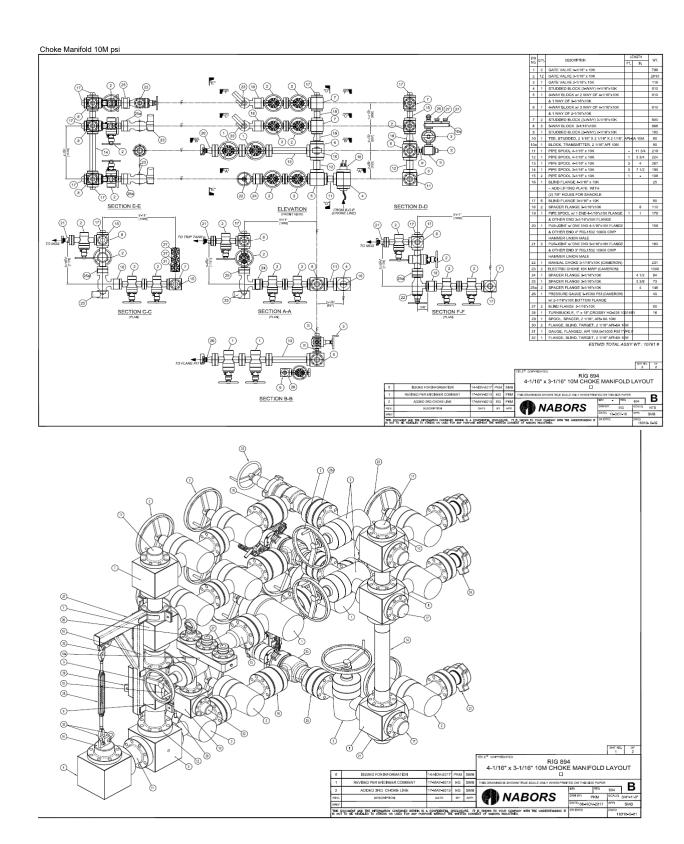
Note: In all situations, consideration should be given to wind direction and weather conditions. H_2S is heavier than air and can settle in low spots. Shifts in wind direction can also change the location of possible hazardous areas.

VIII. FORMS & REPORTS

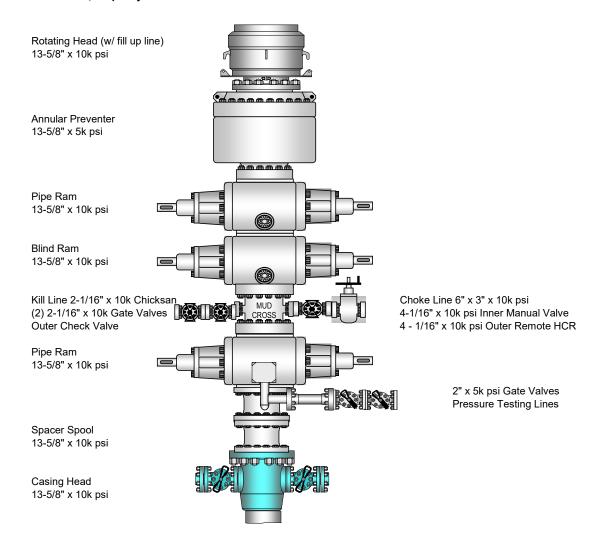
- I. Incident Log
- II. Preliminary Emergency Information Sheet
- III. Emergency Drill Report
- IV. Onshore Hazardous Material Spill/Release Report Form
- V. Immediate Report of Occupational Injury or Illness Report of Accident-Public Contractor Report of Loss or Damage to Company Property Report of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

Gas Capture Plan ZHU 2331 WC Federal Wells

ZHU 2331 WC Wells-Located in Sec. 23, T26S, R31E						
Well Name:	1H	2H	3H	4H		
Well Location:	1050' FSL	1050' FSL	1050' FSL	1050' FSL		
Well Location:	1014' FWL	1034' FWL	1054' FWL	1074' FWL		
Production Facility Name:		ZHU Central Faci	lity			
Production Facility Location:		SWNE, Section	n 24, T26S, R31E			
Anticipated Completion Date:	60-120 days after d	rilling completed; dep	pendent upon comple	etion 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	2,541 BWPD		
Date of First Production:	<45 days following completion operations					
Expected Well Life Expectancy:	30 years	30 years	30 years	30 years		



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



CONTITECH RUBBER	No: QC-DB-	45 / 2012
Industrial Kft.	Page:	9 / 50



Hose Data Sheet

CRI Order No.	516273
Customer	ContiTech Beattie Co.
Customer Order No	PO5438 STOCK
Item No.	3
Hose Type	Flexible Hose
Standard	API SPEC 16 C
Inside dia in inches	3
Length	35 ft
Type of coupling one end	FLANGE 4 1/16" API SPEC 6A TYPE 6BX FOR 10000 PSIBX155 RING GROOVE
Type of coupling other end	FLANGE 4 1/16" API SPEC 6A TYPE 6BX FOR 10000 PSI BX155 RING GROOVE
H2S service NACE MR0175	Yes
Working Pressure	10 000 psi
Design Pressure	10 000 psi
Test Pressure	15 000 psi
Safety Factor	2,25
Marking	USUAL PHOENIX
Cover	NOT FIRE RESISTANT
Outside protection	St.steel outer wrap
Internal stripwound tube	No
Lining	OIL RESISTANT
Safety clamp	No
Lifting collar	No
Element C	No
Safety chain	No
Safety wire rope	No .
Max.design temperature [°C]	100
Min.design temperature [°C]	-20
MBR operating [m]	1,60
MBR storage [m]	1,40
Type of packing	WOODEN CRATE ISPM-15



QC-DB- 45/2012

Page:

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Fluid Technology

Quality Document

PURCHASER: ContiTech Beattie Co. P.O. N°: 005438 CONTITECH ORDER N°: 516273 HOSE TYPE: 3" ID Choke and Kill Hose HOSE SERIAL N°: 61477 NOMINAL / ACTUAL LENGTH: 10,67 m / 10,71 m W.P. 68,9 MPa 10000 psi T.P. 103,4 MPa 15000 psi Duration: 60 Pressure test with water at ambient temperature See attachment. (1 page) \$\text{Tomm} = 10 \text{ Min.} \\ \$\tomm = 10 \text{ min.} \\ \$\tomm = 20 \text{ MPa} \\ \$\text{COUPLINGS Type} \text{ Serial N°} \text{ Quality} \text{ Heat N°} \\ \$3" coupling with 10178 10173 AISI 4130 20231 4 1/16" 10K API Flange end AISI 4130 33051 NOT DESIGNED FOR WELL TESTING API Spec 16 C Temperature rate: " All metal parts are flawless NE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER NSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULt." STATEMENT OF CONFORMITY: We hereby certify that the sole items/equipment supplied by us are in conformity with the terr conditions and appecifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirem COUNTRY OF ORIGIN HUNGARY/EU	INSPECTION A	TY CONT AND TEST		ΤE	CERT. N	l °:	184	
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NOT DESIGNED FOR WELL TESTING API Spec 16 C Temperature rate: All metal parts are flawless WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT. STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the tem conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirement accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirement.	3" coupling with	1017	8 10173					
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All metal parts are flawless WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER NSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT. STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the ter- conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirems. COUNTRY OF ORIGIN HUNGARY/EU	NOT DESIGN	ED FOR W	ELL TESTING				API Spec 1	6 C
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ATTACHMENT OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE No: 182, 184, 185

Page: 1/1

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Ш				BMOMB BMOMB

PH-75 pipehandler the IBOP valves Lower Kelly Cock and Upper Kelly Cock function are performed by Upper IBOP (inside BOP) and Lower **IBOP in Top Drive** Open Upper IBOP Crank (Remote) Close Lower IBOP (Manual)

ConocoPhillips Wild Well Control Plan

1. DRILLING WELL CONTROL PLAN

1.1 WELL CONTROL - CERTIFICATIONS

Required IADC/IWCF Well Control Certifications Supervisor Level:

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

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

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

Well Control-Position/Roles

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

Supervisor Level

- o Specifies and has oversight that the correct actions are carried out
- Role is to supervise well control equipment, training, testing, and well control
 events
- Directs the testing of BOP and other well control equipment
- Regularly direct well control crew drills
- o Land based rigs usually runs the choke during a well kill operation
- O Due to role on the rig, training and certification is targeted more toward management of well control and managing an influx out of the well

Driller Level

- o Performs an action to prevent or respond to well control accident
- Role is to monitor the well via electronic devices while drilling and detect unplanned influxes
- Assist with the testing of BOP and other well control equipment
- Regularly assist with well control crew drills
- When influx is detected, responsible to close the BOP
- O Due to role on the rig, training and certification is targeted more toward monitoring and shutting the well in (closing the BOP) when an influx is detected

(Well Control-Positions/Roles Continued)

Derrick Hand, Assistant Driller Introductory Level

- Role is to assist Driller with kick detection by physically monitoring the well at the mixing pits/tanks
- Regularly record mud weights/viscosity for analysis by the Supervisor level and mud engineer so pre-influx signs can be detected
- Mix required kill fluids as directed by Supervisor or Driller
- Due to role on the rig, training and certification is targeted more toward monitoring for influxes, either via mud samples or visual signs on the pits/tanks

• Motorman, Floor Hand Introductory Level

- o Role is to assist the Supervisor, Driller, or Derrick Hand with detecting influxes
- o Be certain all valves are aligned for proper well control as directed by Supervisor
- o Perform Supervisor or Driller assigned tasks during a well control event
- Due to role on the rig, training and certification is targeted more toward monitoring for influxes

1.2 WELL CONTROL-COMPONENT AND PREVENTER COMPATIBILITY CHECKLIST

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

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

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

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

1.3 WELL CONTROL-BOP TESTING

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

1.4 WELL CONTROL - DRILLS

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

Туре	Frequency	Objective	Comments
Shallow gas kick drill - drilling	Once per well with crew on tour	Response training to a shallow gas influx	To be done prior to drilling surface hole if shallow gas is noted
Kick drill - drilling	Once per week per crew	Response training to an influx while drilling (bit on bottom)	Only one kick drill per week per crew is required,
Kick drill - tripping	Once per week per crew	Response training to an influx while tripping (bit off bottom). Practice stabbing TIW valve	alternating between drilling and tripping.
Choke drill	Once per well with crew on tour	Practice in operating the remotely operated choke with pressure in the well	Before drilling out of the last casing set above a prospective reservoir Include the scenario of flowing well with gas on drill floor as a table top
H₂S drill	Prior to drilling into a potential H ₂ S zone/reservoir	Practice in use of respiratory equipment	

1.5 WELL CONTROL - MONITORING

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

Well Control-Monitoring (Continued)

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

1.6 WELL CONTROL - SHUT IN

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

2. SHUT-IN PROCEDURES:

2.1 PROCEDURE WHILE DRILLING

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

2.2 PROCEDURE WHILE TRIPPING

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

Procedure While Tripping (Continued)

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

2.3 PROCEDURE WHILE RUNNING CASING

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

2.4 PROCEDURE WITH NO PIPE IN HOLE (OPEN HOLE)

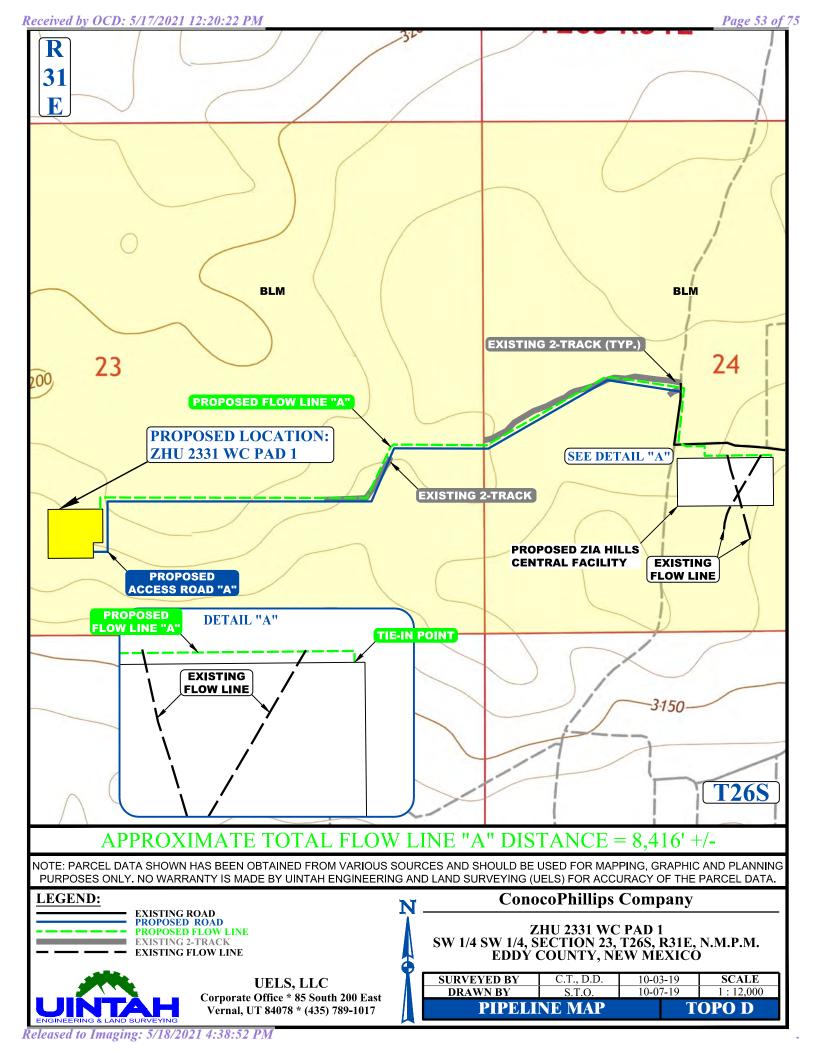
- Sound alarm (alert crew)
- Shut-in with blind rams or BSR. (HCR and choke will already be in the closed position.)
- Confirm shut-in
- Notify toolpusher/company representative
- Gather all relevant data required:
 - o Shut-In Pressure
 - Hole Depth and Hole TVD
 - o Pit gain
 - o Time
 - Kick Volume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

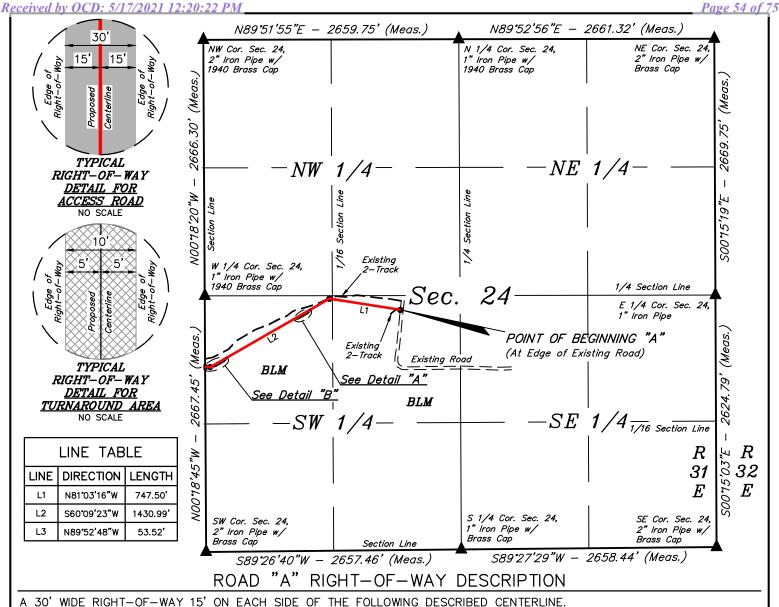
2.5 PROCEDURE WHILE PULLING BHA THRU STACK

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

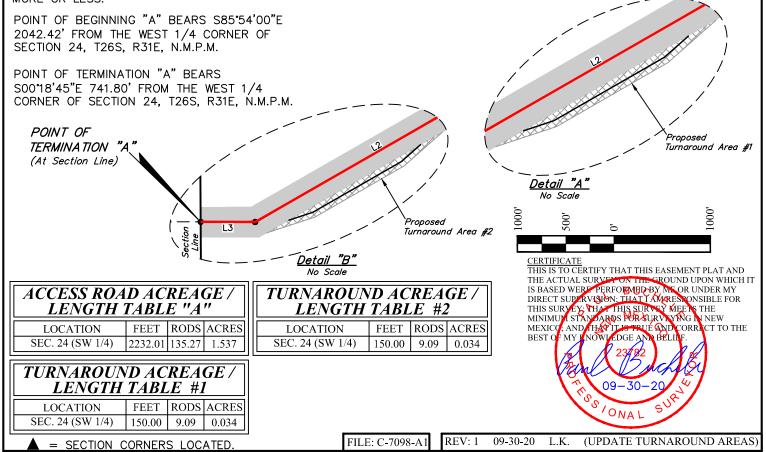
Procedures While Pulling BHA thru Stack (Continued)

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





BEGINNING AT A POINT IN THE NE 1/4 SW 1/4 OF SECTION 24, T26S, R31E, N.M.P.M., WHICH BEARS S85'54'00"E 2042.42' FROM THE WEST 1/4 CORNER OF SAID SECTION 24, THENCE N81°03'16"W 747.50'; THENCE S60°09'23"W 1430.99'; THENCE N89°52'48"W 53.52' TO A POINT ON THE WEST LINE OF THE NW 1/4 SW 1/4 OF SAID SECTION 24 AND THE POINT OF TERMINATION, WHICH BEARS S00'18'45"E 741.80' FROM THE WEST 1/4 CORNER OF SAID SECTION 24. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A TRANSVERSE MERCATOR PROJECTION WITH A CENTRAL MERIDIAN OF W103'53'00". CONTAINS 1.537 ACRES MORE OR LESS.



NOTES:

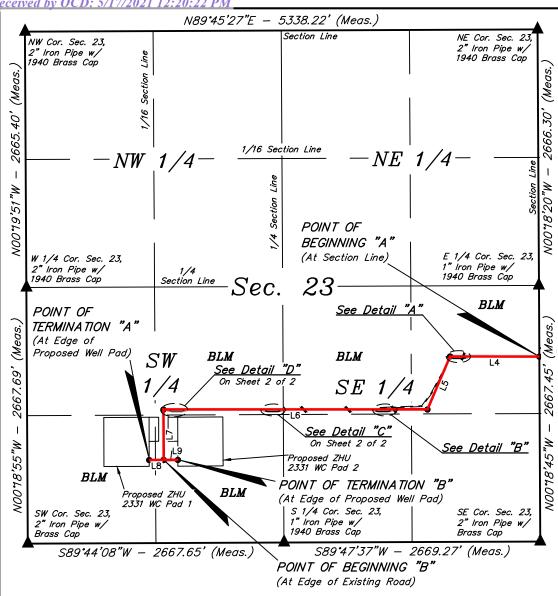
UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017 **ConocoPhillips Company** ZHU 2331 WC

ON BLM LANDS IN SECTION 24, T26S, R31E, N.M.P.M. EDDY COUNTY, NEW MEXICO

SURVEYED BY SCALE J.P.P DRAWN BY ACCESS ROAD R-O-W

The maximum grade of existing ground for the proposed access road is ±4.07%.

Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00"



30 15' 15' Proposed Cent **TYPICAL** RIGHT-OF-WAY DETAIL FOR ACCESS ROAD NO SCALE 5 **TYPICAL** RIGHT-OF-WAY DETAIL FOR TURNAROUND AREA

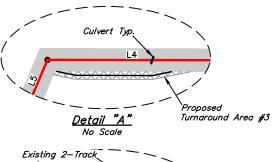
LINE TABLE					
LINE	DIRECTION	LENGTH			
L4	N89*52'48"W	929.04'			
L5	S23°07'42"W	600.38'			
L6	S89*59'24"W	2749.57			
L7	S00°13'58"E	525.19'			
L8	S89°42'08"W	149.88'			
L9	N89*42'08"E	148.25'			

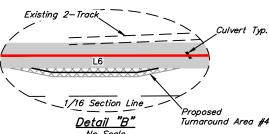
POINT OF BEGINNING "A" BEARS S00°18'45"E 741.80' FROM THE EAST 1/4 CORNER OF SECTION 23, T26S, R31E, N.M.P.M.

POINT OF TERMINATION "A" BEARS N55°26'11"E 1535.15' FROM THE SOUTHWEST CORNER OF SECTION 23, T26S, R31E, N.M.P.M.

POINT OF BEGINNING "B" BEARS N55'34'01"W 1519.85' FROM THE SOUTH 1/4 CORNER OF SECTION 23, T26S, R31E, N.M.P.M.

POINT OF TERMINATION "B" BEARS N52°06'35"W 1400.56' FROM THE SOUTH 1/4 CORNER OF SECTION 23, T26S, R31E, N.M.P.M.





ACCESS ROAD ACREAGE / LENGTH TABLE "A"

EEL GIII IIIEEE II				
LOCATION	FEET	RODS	ACRES	
SEC. 23 (SE 1/4)	3030.73	183.68	2.087	
SEC. 23 (SW 1/4)	1923.33	116.57	1.325	
TOTAL	4954.06	300.25	3.412	

ACCESS ROAD ACREAGE <u>LENGTH TABL</u>E "B'

LOCATION	FEET	RODS	ACRES
SEC. 23 (SW 1/4)	148.25	8.99	0.102

TURNAROUND ACREAGE LENGTH TABLE #3

BEITGIII IIIBEE IIC						
LOCATION	FEET	RODS	ACRES			
SEC. 23 (SE 1/4)	150.00	9.09	0.033			

TURNAROUND ACREAGE LENGTH TABLE #4

LOCATION	FEET	RODS	ACRES
SEC. 23 (SE 1/4)	150.00	9.09	0.034

TURNAROUND ACREAGE / LENGTH TABLE #5

EET GIH THEEE 115						
LOCATION	FEET	RODS	ACRES			
SEC. 23 (SW 1/4)	150.00	9.09	0.034			

TURNAROUND ACREAGE / LENGTH TABLE #6

LOCATION	FEET	RODS	ACRES
SEC. 23 (SW 1/4)	150.00	9.09	0.034



CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND
THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT
IS BASED WERE PERFORMED BY ME OR UNDER MY
DIRECT SUPPLY SHOT THAT I AMPRESSONSIBLE FOR
THIS SURVEY, THAT THIS SURVEY MEETS THE
MINIMUM STANDARDS FOR SURVEY WE IS THE
MINIMUM AND THAT IT IS TRUE AND CORRICT TO THE

ONAL Sheet 1 of 2

= SECTION CORNERS LOCATED.

FILE: C-7098-B1 N

REV: 1 09-30-20 (UPDATE TURNAROUND AREAS)

NOTES:

- The maximum grade of existing ground for the proposed access road "A" is ±4.07%.

 The maximum grade of existing ground for the proposed access road "B" is ±2.29%.

 Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00"

UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017

ConocoPhillips Company

ZHU 2331 WC ON BLM LANDS IN SECTION 23, T26S, R31E, N.M.P.M. EDDY COUNTY, NEW MEXICO

SURVEYED BY SCALE J.P.P DRAWN BY

ACCESS ROAD R-O-W

ROAD "A" RIGHT-OF-WAY DESCRIPTION

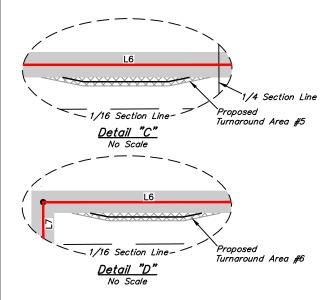
A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

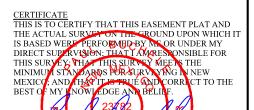
BEGINNING AT A POINT ON THE EAST LINE OF THE NE 1/4 SE 1/4 OF SECTION 23, T26S, R31E, N.M.P.M., WHICH BEARS S00°18'45"E 741.80' FROM THE EAST 1/4 CORNER OF SAID SECTION 23, THENCE N89°52'48"W 929.04'; THENCE S23°07'42"W 600.38'; THENCE S89°59'24"W 2749.57'; THENCE S00°13'58"E 525.19'; THENCE S89°42'08"W 149.88' TO A POINT IN THE SW 1/4 SW 1/4 OF SAID SECTION 23 AND THE POINT OF TERMINATION, WHICH BEARS N55°26'11"E 1535.15' FROM THE SOUTHWEST CORNER OF SAID SECTION 23. THE SIDE LINES OF SAID DESCRIBED RIGHT—OF—WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A TRANSVERSE MERCATOR PROJECTION WITH A CENTRAL MERIDIAN OF W103°53'00". CONTAINS 3.412 ACRES MORE OR LESS.

ROAD "B" RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE SE 1/4 SW 1/4 OF SECTION 23, T26S, R31E, N.M.P.M., WHICH BEARS N55°34'01"W 1519.85' FROM THE SOUTH 1/4 CORNER OF SAID SECTION 23, THENCE N89°42'08"E 148.25' TO A POINT IN THE SE 1/4 SW 1/4 OF SAID SECTION 23 AND THE POINT OF TERMINATION, WHICH BEARS N52°06'35"W 1400.56' FROM THE SOUTH 1/4 CORNER OF SAID SECTION 23. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A TRANSVERSE MERCATOR PROJECTION WITH A CENTRAL MERIDIAN OF W103°53'00". CONTAINS 0.102 ACRES MORE OR LESS.





09 - 30 - 20

ONAL Sheet 2 of 2

FILE: C-7098-B2

REV: 1 09-30-20 L.K. (UPDATE TURNAROUND AREAS) **ConocoPhillips Company**

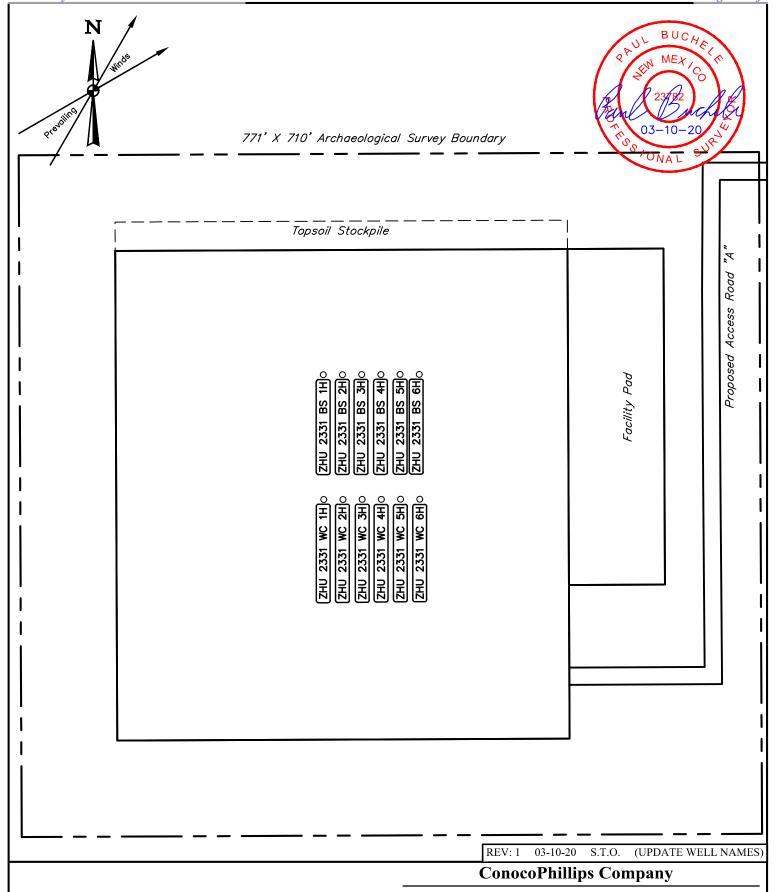
ZHU 2331 WC ON BLM LANDS IN SECTION 23, T26S, R31E, N.M.P.M. EDDY COUNTY, NEW MEXICO

SURVEYED BY SCALE 08-12-19 DRAWN BY J.P.P ACCESS ROAD R-O-W

The maximum grade of existing ground for the proposed access road "A" is ±4.07%.

The maximum grade of existing ground for the proposed access road "B" is ±2.29%.

Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00"



ZHU 2331 WC PAD 1 SW 1/4 SW 1/4, SECTION 23, T26S, R31E, N.M.P.M. EDDY COUNTY, NEW MEXICO

 SURVEYED BY
 C.T., D.D.
 10-03-19
 SCALE

 DRAWN BY
 R.J.
 02-14-20
 1" = 100"

 ARCHAEOLOGICAL SURVEY BOUNDARY
 FIGURE #5

ENGINEERING & LAND SURVEYING

BEGINNING AT THE INTERSECTION OF HIGHWAY 18 AND HIGHWAY 128 IN JAL, NEW MEXICO PROCEED IN A WESTERLY, THEN NORTHWESTERLY, THEN WESTERLY DIRECTION ALONG HIGHWAY 128 APPROXIMATELY 30.0 MILES TO THE JUNCTION OF THIS ROAD AND ORLA ROAD/CR J-1 TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 13.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN RIGHT AND PROCEED IN A WESTERLY DIRECTION APPROXIMATELY 2.0 MILES TO THE BEGINNING OF THE PROPOSED ZHU 2331 WC ACCESS ROAD "A" TO THE NORTHWEST; FOLLOW ROAD FLAGS IN A NORTHWESTERLY, THEN SOUTHWESTERLY, THEN SOUTHWESTERLY, THEN SOUTHERLY, THEN WESTERLY, THEN SOUTHERLY, THEN SOUTHERLY, THEN WESTERLY DIRECTION APPROXIMATELY 7,186' TO THE PROPOSED LOCTION

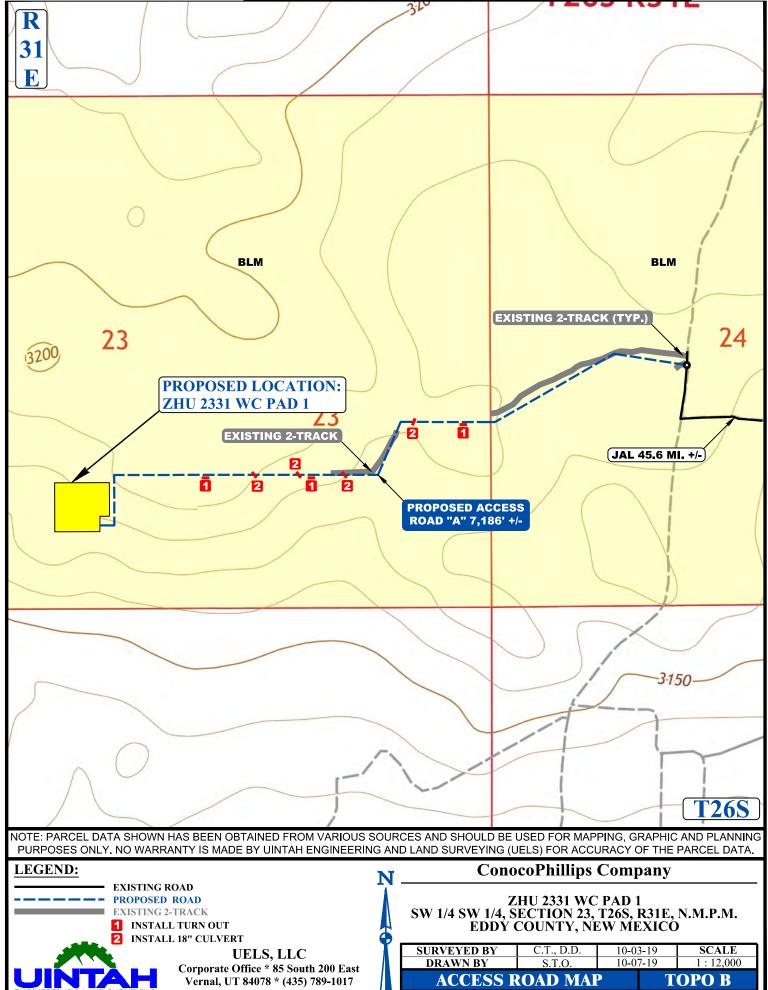
TOTAL DISTANCE FROM JAL, NEW MEXICO TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 47.0 MILES.

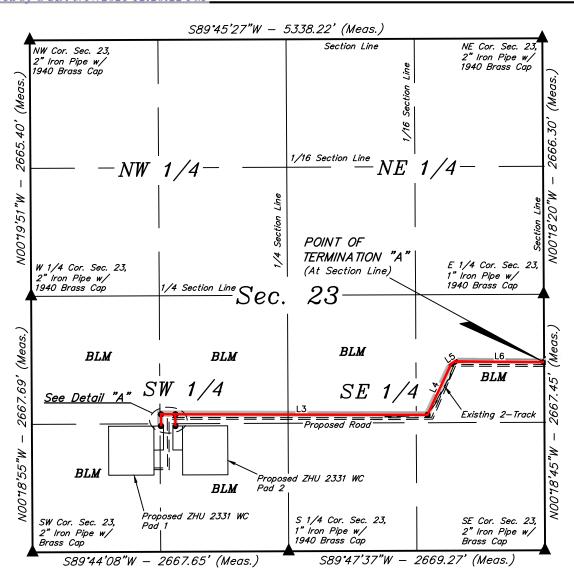
ConocoPhillips Company

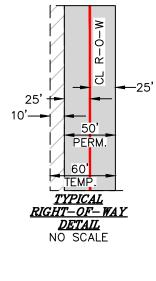
ZHU 2331 WC PAD 1 SW 1/4 SW 1/4, SECTION 23, T26S, R31E, N.M.P.M. EDDY COUNTY, NEW MEXICO



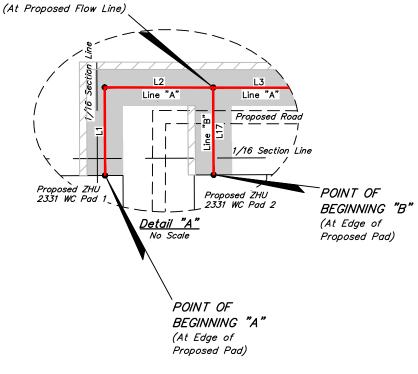
SURVEYED BY	C.T., D.D.	10-03-19			
DRAWN BY	S.T.O.	10-07-19			
ROAD DESCRIPTION					









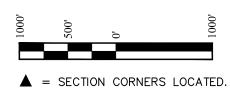


LINE TABLE					
LINE	DIRECTION	LENGTH			
L1	N0043'03"W	121.63'			
L2	S89*53'33"E	149.82'			
L3	S89°53'33"E	2625.74			
L4	N25°02'35"E	587.47'			
L5	N56°35'57"E	44.13'			
L6	S89*35'01"E	928.44'			
L17	N00°17'34"W	120.44'			

CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND
THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT
IS BASED WERP PERFORMIN BY ME OR UNDER MY
DIRECT SUPPRISON: THAT I AMPRESSONSIBLE FOR
THIS SURVEY, THAT THIS SURVEY MEEN THE
MINIMUM STANDARDS FOR SURVEYING IN NEW
MEXICO; AND THAT IT IS TRUE AND CORRICT TO THE

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NOTES:

Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00"

FILE: C-7098-A1

Sheet 1 of 2

UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017 **ConocoPhillips Company**

ZHU 2331 WC ON BLM LANDS IN SECTION 23, T26S, R31E, N.M.P.M. EDDY COUNTY, NEW MEXICO

SURVEYED BY 08-12-19 SCALE DRAWN BY J.P.P FLOW LINE R-O-W

FLOW LINE "A" RIGHT-OF-WAY DESCRIPTION

A 50' WIDE RIGHT-OF-WAY 25' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE WITH A 10' WIDE TEMPORARY RIGHT-OF-WAY ON THE LEFT SIDE OF SAID RIGHT-OF-WAY FOR A TOTAL WIDTH OF 60' DURING CONSTRUCTION.

BEGINNING AT A POINT IN THE SE 1/4 SW 1/4 OF SECTION 23, T26S, R31E, N.M.P.M., WHICH BEARS N45°34'37"W 1862.89' FROM THE SOUTH 1/4 CORNER OF SAID SECTION 23, THENCE NO0°13'03"W 121.63'; THENCE S89°53'33"E 149.82'; THENCE CONTINUING S89°53'33"E 2625.74'; THENCE N25°02'35"E 587.47'; THENCE N56°35'57"E 44.13'; THENCE S89°35'01"E 928.44' TO A POINT ON THE EAST LINE OF THE NE 1/4 SE 1/4 OF SAID SECTION 23 AND THE POINT OF TERMINATION, WHICH BEARS S00"18'45"E 706.90' FROM THE EAST 1/4 CORNER OF SAID SECTION 23. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A TRANSVERSE MERCATOR PROJECTION WITH A CENTRAL MERIDIAN OF W103*53'00". RIGHT-OF-WAY CONTAINS 5.116 ACRES MORE OR LESS. TEMPORARY RIGHT-OF-WAY CONTAINS 1.023 ACRES MORE OR LESS.

FLOW LINE "B" RIGHT-OF-WAY DESCRIPTION

A 50' WIDE RIGHT-OF-WAY 25' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE WITH A 10' WIDE TEMPORARY RIGHT-OF-WAY ON THE LEFT SIDE OF SAID RIGHT-OF-WAY FOR A TOTAL WIDTH OF 60' DURING CONSTRUCTION.

BEGINNING AT A POINT IN THE SE 1/4 SW 1/4 OF SECTION 23, T26S, R31E, N.M.P.M., WHICH BEARS N42°08'08"W 1759.59'
FROM THE SOUTH 1/4 CORNER OF SAID SECTION 23, THENCE N00°17'34"W 120.44' TO A POINT IN THE NE 1/4 SW 1/4 OF
SAID SECTION 23 AND THE POINT OF TERMINATION, WHICH BEARS N39°38'38'32"W 1851.06' FROM THE SOUTH 1/4 CORNER OF
SAID SECTION 23. THE SINES OF SAID DESCRIPTION OF SAID SECTION WITH A CENTRAL MERIDIAN OF GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A TRANSVERSE MERCATOR PROJECTION WITH A CENTRAL MERIDIAN OF W103°53'00". RIGHT-OF-WAY CONTAINS 0.138 ACRES MORE OR LESS. TEMPORARY RIGHT-OF-WAY CONTAINS 0.028 ACRES MORE OR LESS.

ACREAGE / LENGTH TABLE "A"						
LOCATION	FEET	RODS	PERM. ACRES	TEMP. ACRES		
SEC. 23 (SW 1/4)	1444.92	87.57	1.659	0.332		
SEC. 23 (SE 1/4)	3012.31	182.56	3.458	0.692		
TOTAL	4457.23	270.13	5.116	1.023		

ACREAGE / LENGTH TABLE "B"							
LOCATION	FEET	RODS	PERM. ACRES	TEMP. ACRES			
SEC. 23 (SW 1/4)	120.44	7.30	0.138	0.028			

CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND
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IS BASED WERP PERFORMED BY MS OR UNDER MY
DIRECT SUPPLY/SUPPLY THAT THE SURVEY MEETS THE
MINIMUM STANDARDS FOR SURVEY MEETS THE
MEXICO, AND THAT THE SURVEY MEETS TO THE 03 - 04ONA L

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Sheet 2 of 2

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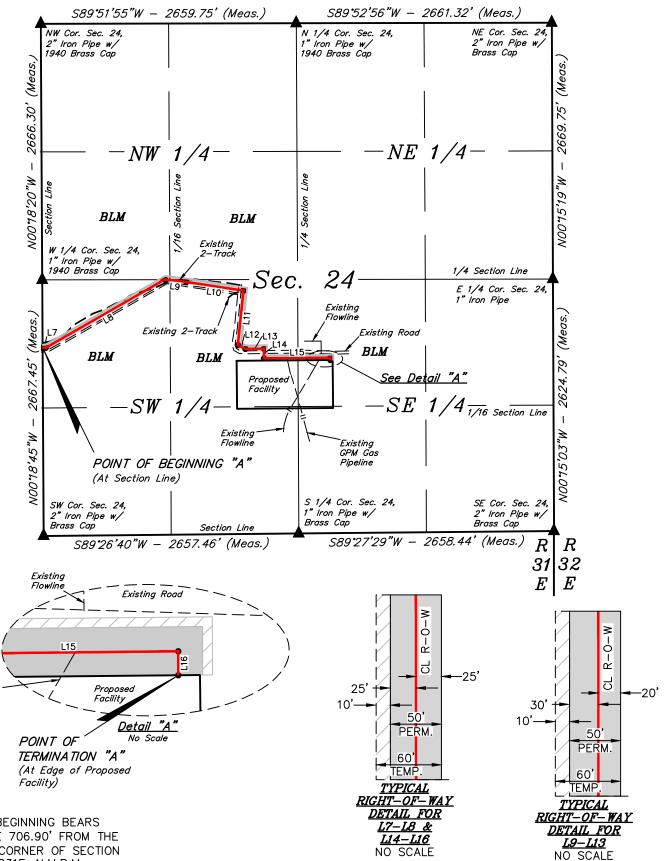
Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00"

ConocoPhillips Company

ZHU 2331 WC ON BLM LANDS IN SECTION 23, T26S, R31E, N.M.P.M. EDDY COUNTY, NEW MEXICO

SURVEYED BY SCALE 08-12-19 DRAWN BY J.P.P FLOW LINE R-O-W





POINT OF BEGINNING BEARS S00"18'45"E 706.90' FROM THE WEST 1/4 CORNER OF SECTION 24, T26S, R31E, N.M.P.M.

Existing Flowline

POINT OF TERMINATION BEARS N10°20'34"E 1837.01' FROM THE SOUTH 1/4 CORNER OF SECTION 24, T26Ś, R31E, N.M.P.M.



ACREAGE / LENGTH TABLE "A"							
LOCATION	FEET	RODS	PERM. ACRES	TEMP. ACRES			
SEC. 24 (SW 1/4)	3568.93	216.30	4.012	0.743			
SEC. 24 (NW 1/4)	26.93	1.63	0.124	0.087			
SEC. 24 (SE 1/4)	363.39	22.02	0.417	0.083			
TOTAL	3959.26	239.96	4.553	0.913			

LINE TABLE LINE DIRECTION LENGTH L7 S89*35'01"E 33.90 L8 N60°09'24"E 1430.09 L9 S83°24'30"E 224.17 L10 S81°18'14"E 602.47 L11 S05*55'04"W 570.58 L12 S63°41'18"E 87.12 L13 N89°25'07"E 194.24 L14 S00°02'50"E 100.47 L15 N89°25'18"E 691.69 L16 S00°03'58"E 24.51

CERTIFICATE
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THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT
IS BASED WERP PERFORMIN BY ME OR UNDER MY
DIRECT SUPPRISON: THAT I AWARESONSIBLE FOR
THIS SURVEY, THAT THIS SURVEY MEEN THE
MINIMUM STANDARDS FOR SURVEYING IN NEW
MEXICO, AND THAT I TO THE

= SECTION CORNERS LOCATED.

NOTES:

Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00"

FILE: C-7098-B1

ONAI Sheet 1 of 2 **ConocoPhillips Company**

ZHU 2331 WC ON BLM LANDS IN SECTION 24, T26S, R31E, N.M.P.M. EDDY COUNTY, NEW MEXICO

SURVEYED BY **SCALE** 08-12-19 DRAWN BY J.P.P FLOW LINE R-O-W



FLOW LINE RIGHT-OF-WAY DESCRIPTION

BEGINNING AT A POINT ON THE WEST LINE OF THE NW 1/4 SW 1/4 OF SECTION 24, T26S, R31E, N.M.P.M., WHICH BEARS S00'18'45"E 706.90' FROM THE WEST 1/4 CORNER OF SAID SECTION 24, THENCE A 50' WIDE RIGHT-OF-WAY 25' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE WITH A 10' WIDE TEMPORARY RIGHT-OF-WAY ON THE LEFT SIDE OF SAID RIGHT-OF-WAY FOR A TOTAL WIDTH OF 60' DURING CONSTRUCTION, S89°35'01"E 33.90'; THENCE N60°09'24"E 1430.09'; THENCE A 50' WIDE RIGHT-OF-WAY 20' ON THE RIGHT SIDE AND 30' ON THE LEFT SIDE OF THE FOLLOWING DESCRIBED CENTERLINE WITH A 10' WIDE TEMPORARY RIGHT-OF-WAY ON THE LEFT SIDE OF SAID RIGHT-OF-WAY FOR A TOTAL WIDTH OF 60' DURING CONSTRUCTION, S83'24'30"E 224.17'; THENCE S81"18'14"E 602.47'; THENCE S05'55'04"W 570.58'; THENCE S63'41'18"E 87.12'; THENCE N89'25'07"E 194.24'; THENCE A 50' WIDE RIGHT-OF-WAY 25' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE WITH A 10' WIDE TEMPORARY RIGHT-OF-WAY ON THE LEFT SIDE OF SAID RIGHT-OF-WAY FOR A TOTAL WIDTH OF 60' DURING CONSTRUCTION, S00°02'50"E 100.47'; THENCE N89°25'18"E 691.69'; THENCE S00°03'58"E 24.51' TO A POINT IN THE NW 1/4 SE 1/4 OF SAID SECTION 24 AND THE POINT OF TERMINATION, WHICH BEARS N10°20'34"E 1837.01' CORNER OF SAID SECTION 24. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A TRANSVERSE MERCATOR PROJECTION WITH A CENTRAL MERIDIAN OF W103'53'00". RIGHT-OF-WAY CONTAINS 4.553 ACRES MORE OR LESS. TEMPORARY RIGHT-OF-WAY CONTAINS 0.913 ACRES MORE OR LESS.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND
THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT
IS BASED WERP PERFORMED BY MY OR UNDER MY
DIRECT SUPPRIVISIONS THAT TAKKES YONS BLE FOR
THIS SURVEY, THE THIS SURVEY MEETS THE
MINIMUM STANDARDS FOR SURVEYING IN NEW
MEXICO, AND THAT THE TRUE AND CORRECT TO THE

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Sheet 2 of 2

NOTES:

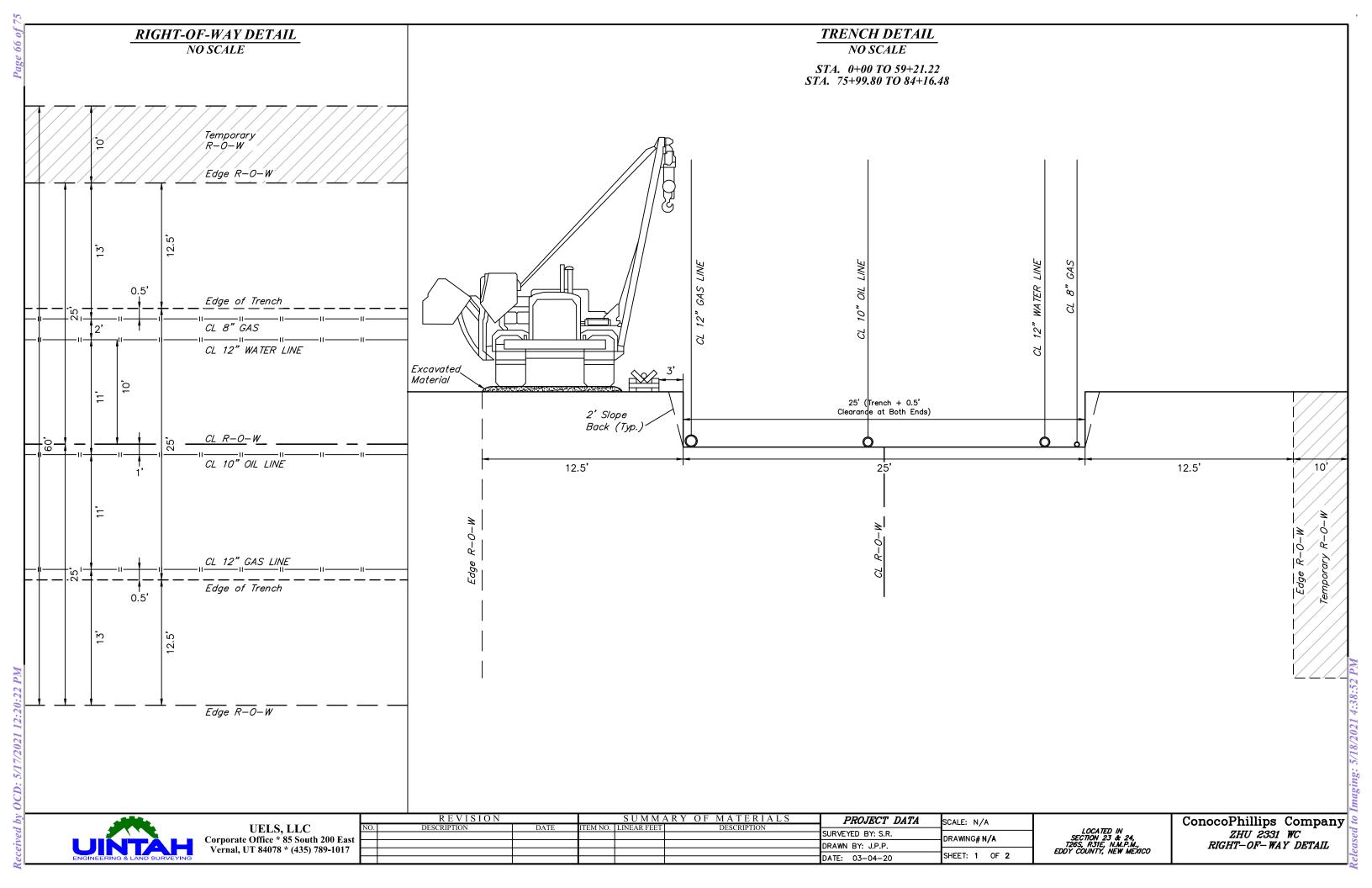
Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00"

ConocoPhillips Company

ZHU 2331 WC ON BLM LANDS IN SECTION 24, T26S, R31E, N.M.P.M. EDDY COUNTY, NEW MEXICO

08-12-19 SURVEYED BY SCALE DRAWN BY J.P.P FLOW LINE R-O-W





50'

BACKFILL DIAGRAM NO SCALE STA. 0+00 TO 59+21.22 STA. 75+99.80 TO 84+16.48

SOFT FILL DIRT OR SAND WITH NO ROCKS OR SOLID PARTICLES GREATER THAN 1" IN CIRCUMFERENCE

10"

6" CLEARANCE AT BOTH ENDS

WA TER

CL 12"

12" CLEARANCE BETWEEN EACH PIPE

BACKFILL DIRT TO BE AS FREE OF ROCKS AND LARGE PARTICLES AS POSSIBLE

12" GAS LINE WILL BE COATED STEEL WITH AN OPERATING PRESSURE UP TO 270# PSI

10" OIL LINE WILL BE COATED STEEL WITH AN OPERATING PRESSURE UP TO 270# PSI

12" WATER LINE WILL BE POLY PIPE WITH AN OPERATING PRESSURE UP TO 250# PSI

8" GAS LIFT LINE WILL BE COATED STEEL WITH AN OPERATING PRESSURE UP TO 1250# PSI



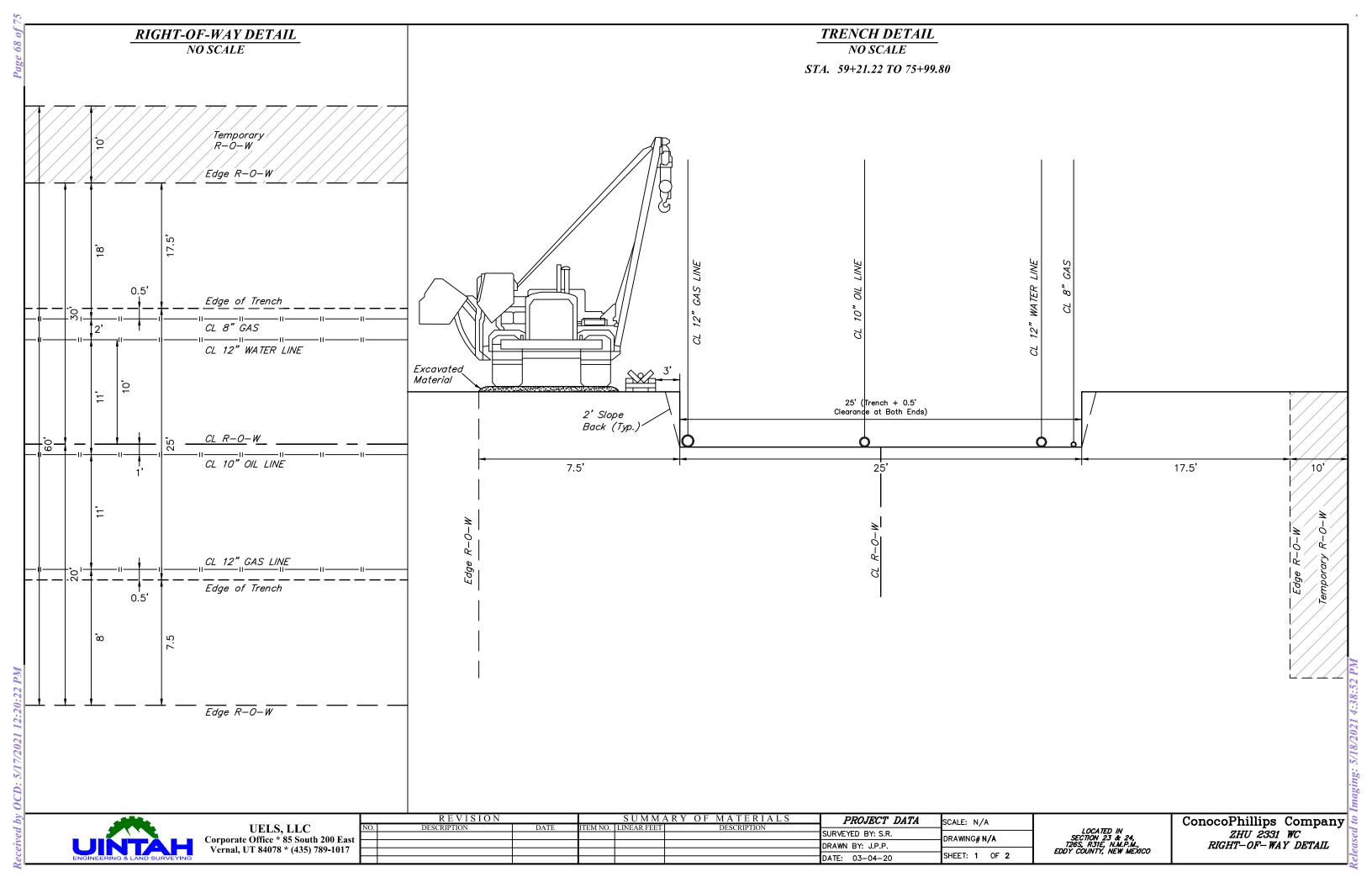
UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017

	REVISION			SUMMA	MMARY OF MATERIALS PROJECT DATA SCALE: N		SCALE: N/A	Г
).	DESCRIPTION	DATE	ITEM NO.	LINEAR FEET	DESCRIPTION		SONLE: NY N	
						SURVEYED BY: S.R.	DRAWING# N/A	1
						DRAWN BY: J.P.P.	BRAMINO# N/A	
							SHEET: 2 OF 2	1
						DATE: 03-04-20	SHEET. 2 OF 2	ட

LOCATED IN SECTION 23 & 24, T26S, R31E, N.M.P.M., DDY COUNTY, NEW MEXICO ConocoPhillips Company

ZHU 2331 WC

RIGHT-OF-WAY DETAIL



10" OIL LINE WILL BE COATED STEEL WITH AN OPERATING PRESSURE UP TO 270# PSI

12" WATER LINE WILL BE POLY PIPE WITH AN OPERATING PRESSURE UP TO 250# PSI

8" GAS LIFT LINE WILL BE COATED STEEL WITH AN OPERATING PRESSURE UP TO 1250# PSI



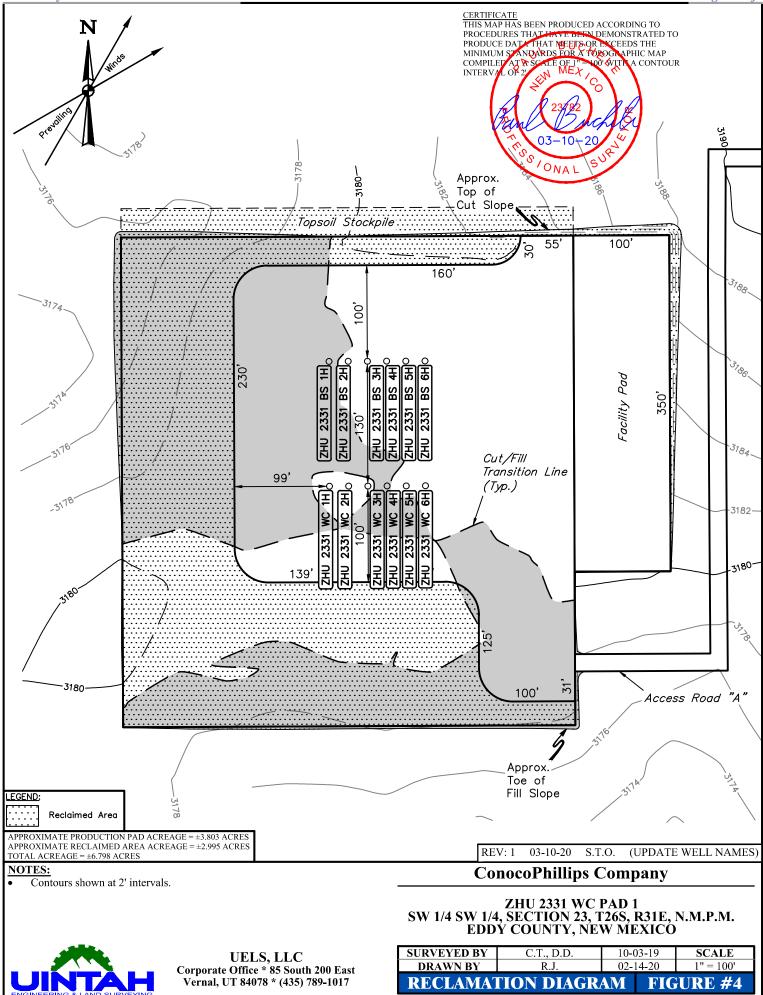
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

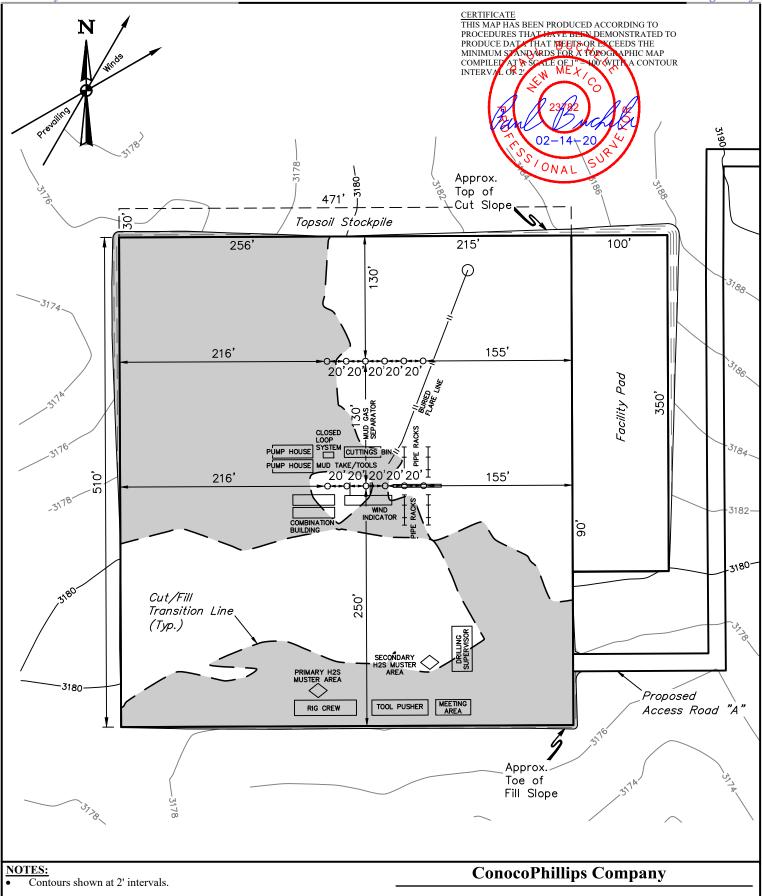
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						SURVEYED BY: S.R.	DRAWING# N/A	ĺ
						DRAWN BY: J.P.P.	DICAMINO# N/A	
							SHEET: 2 OF 2	1
						DATE: 03-04-20	SHEET. Z OF Z	丄

LOCATED IN SECTION 23 & 24, T26S, R31E, N.M.P.M., DY COUNTY, NEW MEXICO ConocoPhillips Company

ZHU 2331 WC

RIGHT-OF-WAY DETAIL





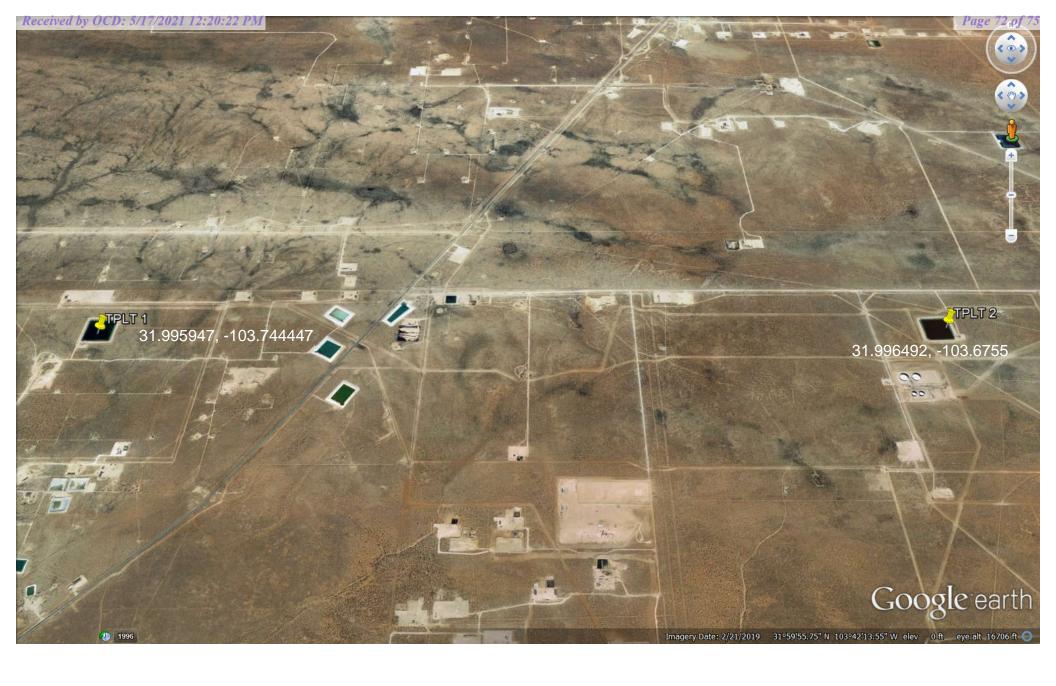
ZHU 2331 WC PAD 1 SW 1/4 SW 1/4, SECTION 23, T26S, R31E, N.M.P.M. EDDY COUNTY, NEW MEXICO

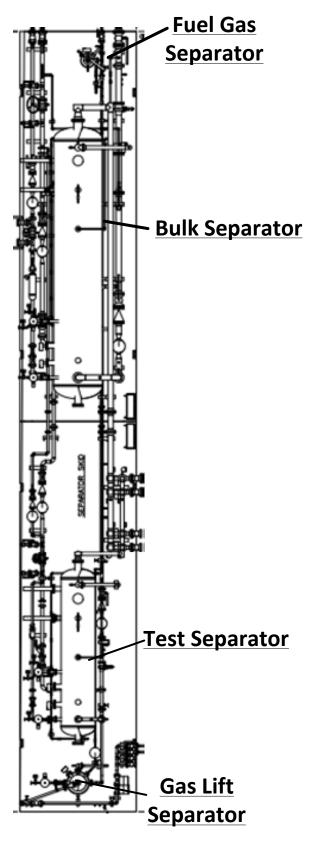
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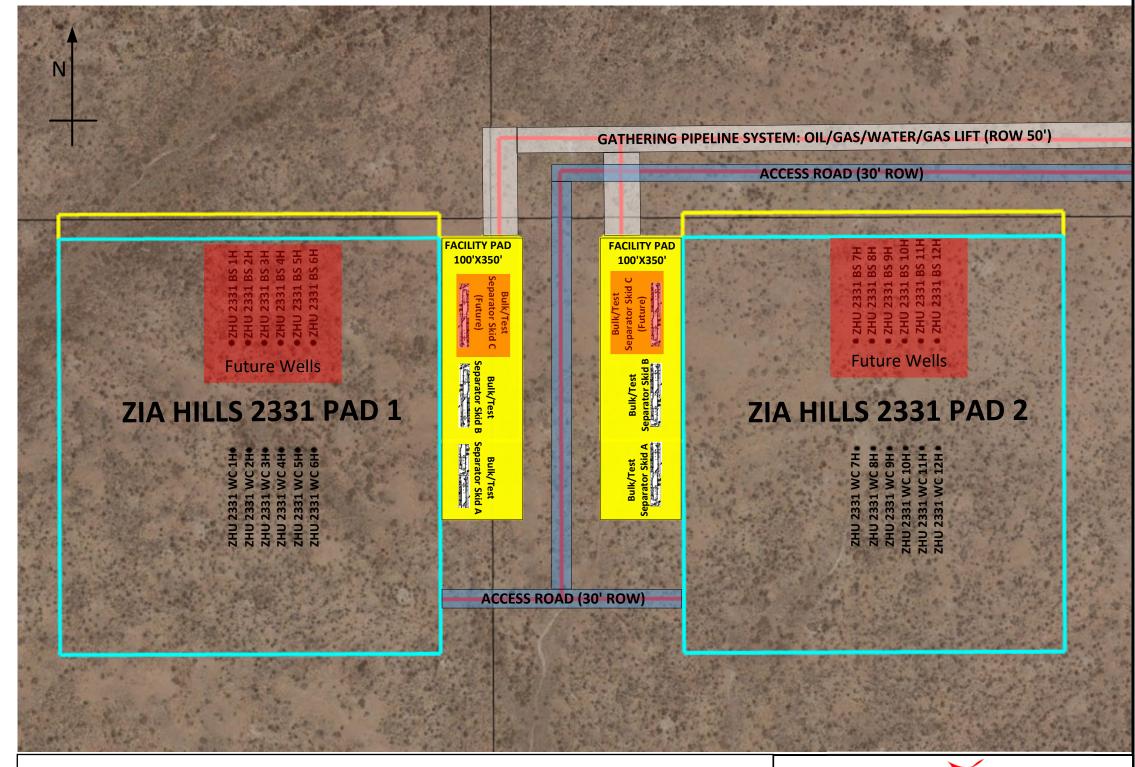
 TYPICAL RIG LAYOUT
 FIGURE #3







Bulk/Test Separator Skid



ZIA HILLS 2331 Pad 1 & Pad 2

LEA COUNTY, NM T26S-R31E-S23



ZIA HILLS 23 PAD 1 and Pad 2 AERIAL EQUIPMENT PLAN

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III
1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

COMMENTS

Action 28451

COMMENTS

Operator:			OGRID:	Action Number:	Action Type:
CONOCOPHILLIPS COMPANY	600 W. Illinois Avenue	Midland, TX79701	217817	28451	FORM 3160-3

Created By	Comment	Comment Date
kpickford	KP GEO Review 5/18/2021	05/18/2021

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

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

District III
1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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

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

CONDITIONS

Action 28451

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
CONOCOPHILLIPS COMPANY	600 W. Illinois Avenue	Midland, TX79701	217817	28451	FORM 3160-3

OCD Reviewer	Condition
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