

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

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

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER 1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other OTH 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		5. Lease Serial No. <b>NMNM67980</b> 6. If Indian, Allottee or Tribe Name  7. If Unit or CA Agreement, Name and No.  8. Lease Name and Well No. <b>GOLDEN 35-22-28 FED COM</b>  402H 9. API Well No. <b>30-015-54959</b>
2. Name of Operator <b>WPX ENERGY PERMIAN LLC</b> 3a. Address <b>3817 NW EXPRESSWAY STE 950, OKLAHOMA CITY, OK</b> 3b. Phone No. (include area code) <b>(405) 949-2221</b>		10. Field and Pool, or Exploratory <b>PURPLE SAGE/WOLFCAMP GAS</b> 11. Sec., T. R. M. or Blk. and Survey or Area <b>SEC 35/T22S/R28E/NMP</b>
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface <b>NWNE / 1015 FNL / 2508 FEL / LAT 32.353711 / LONG -104.057947</b> At proposed prod. zone <b>NENW / 330 FNL / 2540 FWL / LAT 32.355591 / LONG -104.023648</b>		12. County or Parish <b>EDDY</b> 13. State <b>NM</b>
14. Distance in miles and direction from nearest town or post office* <b>5 miles</b>		15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>0 feet</b>
16. No of acres in lease  17. Spacing Unit dedicated to this well <b>640.0</b>		18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>0 feet</b>
19. Proposed Depth <b>9778 feet / 20277 feet</b>		20. BLM/BIA Bond No. in file <b>FED:</b>
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>3115 feet</b>		22. Approximate date work will start* <b>04/30/2021</b>
23. Estimated duration <b>30 days</b>		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.<br>2. A Drilling Plan.<br>3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).<br>5. Operator certification.<br>6. Such other site specific information and/or plans as may be requested by the BLM. |
|---|---|

25. Signature (Electronic Submission)  Title <b>Regulatory Tech</b>	Name (Printed/Typed) <b>MELISSA KINDLE / Ph: (539) 573-0212</b>	Date <b>09/10/2020</b>
Approved by (Signature) (Electronic Submission)  Title <b>Assistant Field Manager Lands &amp; Minerals</b>	Name (Printed/Typed) <b>CODY LAYTON / Ph: (575) 234-5959</b>	Date <b>10/21/2021</b>
Office <b>Carlsbad Field Office</b>		

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)



Approval Date: 10/21/2021

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazon Road, Artec, NM 87410  
District IV  
1220 S. St Francis Dr., NM 87505  
Phone: (505) 476-3460 Fax (505) 476-3462

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

Form C-102

Revised August 1, 2011

Submit one copy to appropriate  
District Office

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30-015-54959</b>	<sup>2</sup> Pool Code <b>98220</b>	<sup>3</sup> Pool Name <b>PURPLE SAGE WOLFCAMP GAS POOL</b>
<sup>4</sup> Property Code <b>335743</b>	<sup>5</sup> Property Name <b>GOLDEN 35-22-28 FED COM</b>	<sup>6</sup> Well Number <b>#402H</b>
<sup>7</sup> OGRID No. <b>246289</b>	<sup>8</sup> Operator Name <b>WPX ENERGY PERMIAN, LLC</b>	<sup>9</sup> Elevation <b>3114.95</b>

<sup>10</sup> Surface Location

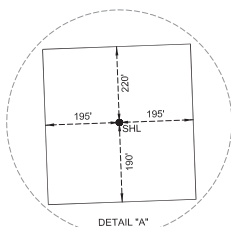
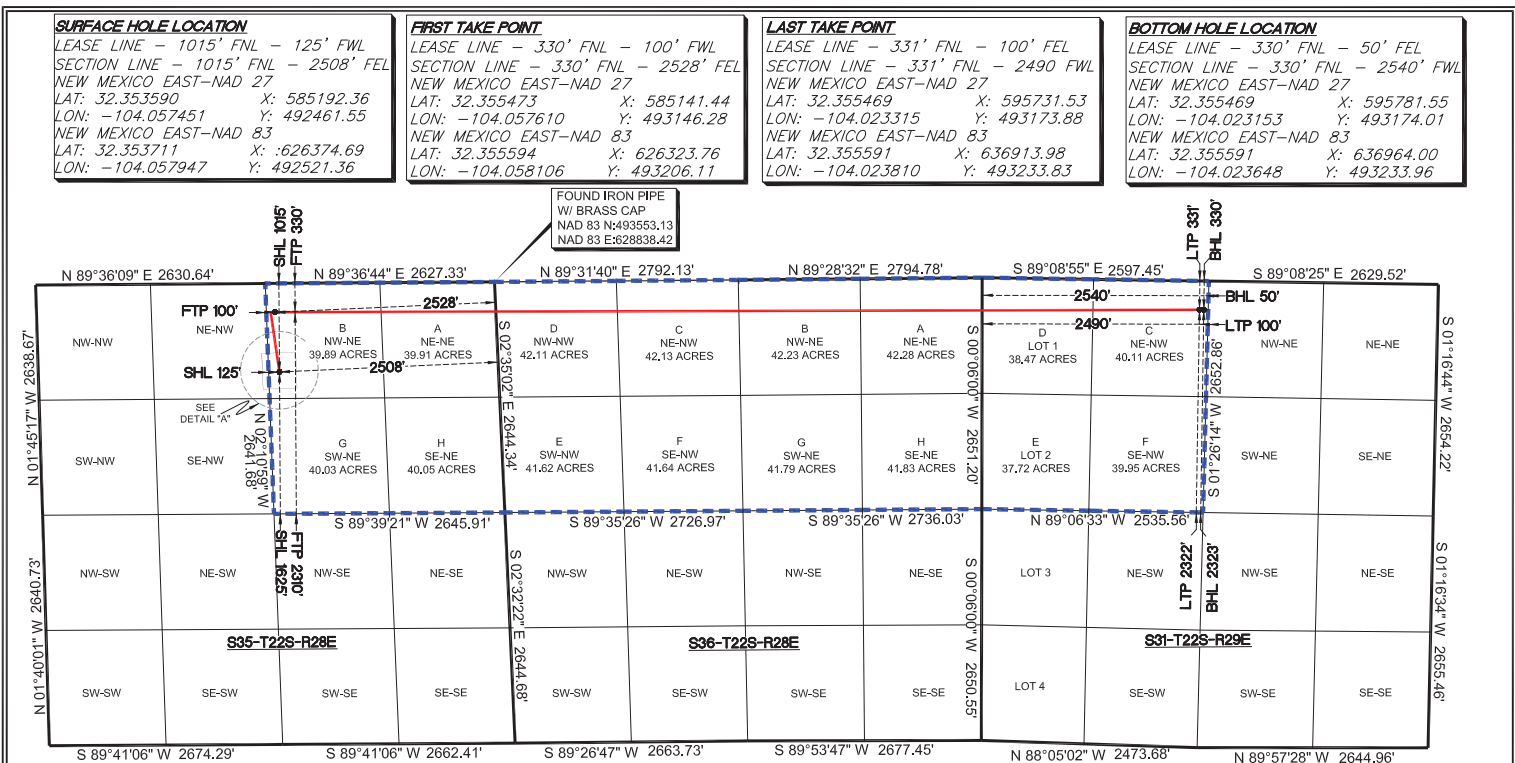
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>B</b>	<b>35</b>	<b>22 S</b>	<b>28 E</b>		<b>1015'</b>	<b>NORTH</b>	<b>2508'</b>	<b>EAST</b>	<b>EDDY</b>

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>C</b>	<b>31</b>	<b>22 S</b>	<b>29 E</b>		<b>330'</b>	<b>NORTH</b>	<b>2540'</b>	<b>WEST</b>	<b>EDDY</b>

<sup>12</sup> Dedicated Acres <b>636.35</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.



NOTE: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

<sup>17</sup> OPERATOR CERTIFICATION

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

*Larry E. Rader* 9/10/20

Signature Date

Larry E. Rader

Printed Name Date

[larry.rader@wpxenergy.com](mailto:larry.rader@wpxenergy.com)

Email Address Date

## SURVEYOR CERTIFICATION

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

*Larry E. Rader* 9/18/19

Signature and Seal of Professional Surveyor Date

9/18/19

Certificate Number

25036

PROFESSIONAL SURVEYOR

State of New Mexico  
Energy, Minerals and Natural Resources Department

Submit Electronically  
Via E-permitting

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

## NATURAL GAS MANAGEMENT PLAN

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

### Section 1 – Plan Description

Effective May 25, 2021

**I. Operator:** WPX ENERGY PERMIAN LLC **OGRID:** 246289 **Date:** 05 / 15 / 2022

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

If Other, please describe: \_\_\_\_\_

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

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

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

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

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

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

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

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

NATURAL GAS MANAGEMENT PLAN  
Section 1 - Plan Description

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

Well Name	API	ULSTR	FOOTAGES				Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D	Central Delivery Point Name:
Golden 35-22-28 Fed Com 401H		35-22S-28E	1045	FNL	2508	FEL	(+/-) 1563	(+/-) 7190	(+/-) 8597	Golden Pad 1
Golden 35-22-28 Fed Com 402H		35-22S-28E	1015	FNL	2508	FEL	(+/-) 1563	(+/-) 7190	(+/-) 8597	Golden Pad 1

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow back Date	First Production Date
Golden 35-22-28 Fed Com 401H		5/1/2023	5/31/2023	9/28/2023	9/28/2023	9/28/2023
Golden 35-22-28 Fed Com 402H		5/20/2023	6/19/2023	10/17/2023	10/17/2023	10/17/2023

\* DATES SUBJECT TO CHANGE

**Section 2 – Enhanced Plan****EFFECTIVE APRIL 1, 2022**

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

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

**IX. Anticipated Natural Gas Production:**

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

**X. Natural Gas Gathering System (NGGS):**

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

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

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

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

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

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

### **Section 3 - Certifications**

**Effective May 25, 2021**

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

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

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

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

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

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

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

### **Section 4 - Notices**


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

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

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

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

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

Signature:	
Printed Name:	Jeffrey Walla
Title:	Surface Land & Regulatory Manager
E-mail Address:	jeff.walla@dvn.com
Date:	
Phone:	(405) 552-8154
<b>OIL CONSERVATION DIVISION</b> (Only applicable when submitted as a standalone form)	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	



## VI. Separation Equipment

Devon Energy Production Company, L.P. utilizes a "stage separation" process in which oil and gas separation is carried out through a series of separators operating at successively reduced pressures. Hydrocarbon liquids are produced into a high-pressure inlet separator, then carried through one or more lower pressure separation vessels before entering the storage tanks. The purpose of this separation process is to attain maximum recovery of liquid hydrocarbons from the fluids and allow maximum capture of produced gas into the sales pipeline. Devon utilizes a series of Low-Pressure Compression units to capture gas off the staged separation and send it to the sales pipeline. This process minimizes the amount of flash gas that enters the end-stage storage tanks that is subsequently vented or flared.



## VII. Operational Practices

Devon Energy Production Company, L. P. will employ best management practices and control technologies to maximize the recovery and minimize waste of natural gas through venting and flaring.

- During drilling operations, Devon will utilize flares and/or combustors to capture and control natural gas, where technically feasible. If flaring is deemed technically in-feasible, Devon will employ best management practices to minimize or reduce venting to the extent possible.
- During completions operations, Devon will utilize Green Completion methods to capture gas produced during well completions that is otherwise vented or flared. If capture is technically in-feasible, flares and/or combustors will be used to capture and control flow back fluids entering into frac tanks during initial flowback. Upon indication of first measurable hydrocarbon volumes, Devon will turn operations to onsite separation vessels and flow to the gathering pipeline.
- During production operations, Devon will take every practical effort to minimize waste of natural gas through venting and flaring by:
  - Designing and constructing facilities in a manner consistent to achieve maximum capture and control of hydrocarbon liquids & produced gas
  - Utilizing a closed-loop capture system to collect and route produced gas to sales line via low pressure compression, or to a flare/combustor
  - Flaring in lieu of venting, where technically feasible
  - Utilizing auto-ignitors or continuous pilots, with thermocouples connected to Scada, to quickly detect and resolve issues related to malfunctioning flares/combustors
  - Employ the use of automatic tank gauging to minimize storage tank venting during loading events
  - Installing air-driven or electric-driven pneumatics & combustion engines, where technically feasible to minimize venting to the atmosphere
  - Confirm equipment is properly maintained and repaired through a preventative maintenance and repair program to ensure equipment meets all manufacturer specifications
  - Conduct and document AVO inspections on the frequency set forth in Part 27 to detect and repair any onsite leaks as quickly and efficiently as is feasible

#### VIII. Best Management Practices during Maintenance

Devon Energy Production Company, L.P. will utilize best management practices to minimize venting during active and planned maintenance activities. Devon is operating under guidance that production facilities permitted under NOI permits have no provisions to allow high pressure flaring and high pressure flaring is only allowed in disruption scenarios so long as the duration is less than eight hours. When technically feasible, flaring during maintenance activities will be utilized in lieu of venting to the atmosphere. Devon will work with third-party operators during scheduled maintenance of downstream pipeline or processing plants to address those events ahead of time to minimize venting. Actions considered include identifying alternative capture approaches or planning to temporarily reduce production or shut in the well to address these circumstances.

## WPX Energy Permian, LLC



## Drilling Plan

Well Golden 35-22-28 Fed Com 402H  
 Location Surface: 1015 FNL 2508 FEL, Sec 35 T22S R28E S35  
 Bottom Hole: 330 FNL 2540 FWL, Sec 31 T22S R29E S31  
 County/State Eddy, NM

The elevation of the unprepared ground is 3,115 feet above sea level.

The geologic name of the surface formation is Quaternary

A rotary rig will be utilized to drill the well to 20277' MD, then will be cased and cemented. This equipment will then be rigged down and the well will be completed with a workover rig.

Proposed depth is 20,277 feet MD.

## 1) Estimated Tops:

Formation Name	MD	TVD	Bearing	BHP (psi)	MASP (psi)
Quaternary	0	0	Water		
Bell Canyon	2829	2828	Oil/Gas		
Cherry Canyon	3827	3816	Oil/Gas		
Brushy Canyon	4874	4851	Oil/Gas		
Bone Spring 1st	7383	7333	Oil/Gas		
Bone Spring 2nd	8139	8089	Oil/Gas		
Bone Spring 3rd	9402	9350	Oil/Gas		
KOP	9255	9205	Oil/Gas		
Wolfcamp	9735	9631	Oil/Gas		
Landing Point (Wolfcamp)	10155	9778	Oil/Gas		
TD	20277	9778	Oil/Gas	6,356	4,205

## 2) Notable Formations:

Any usable fresh water zones encountered will be adequately protected and reported. All usable water zones, potential hydrocarbon zones, and valuable mineral zones will be isolated.

Useable water will be protected by surface casing set and cemented to surface.

## 3) Pressure Control Equipment:

The blowout preventer equipment (BOPE) will consist of 3 rams (10,000 psi WP) with 2 pipe rams (one of which may be variable), 1 blind ram and 1 annular preventer (5,000 psi WP) will be installed. The BOPE will be used below surface casing to TD. See attachments for BOP and choke manifold diagrams. A rotating head will be installed as needed. Units will be hydraulically operated.

An accumulator that meets the requirements of Onshore Order 2 for the pressure rating of the BOP stack will be present.

BOPE will be inspected and operated as recommended in Onshore Order 2. A third party company will test the BOPE. After surface casing is set and the BOPE is nipped up, pressure tests will be conducted to 250 psi low and 5000 psi high (50% of WP) with the annular tested to 250 psi low and 2500 psi high (50% of WP).

A 20" x 13-3/8" x 9-5/8" x 7" 10M multi-bowl wellhead w/ 9-5/8" and 7" mandrel hangers will be install after setting surface casing and utilized until total depth is reached. The 9-5/8" and 7" casings will be set using a mandrel in the casing head and the stack will not be retested at these casing points.

The following BOPE will be installed, tested and operational:

- Drilling spool or blowout preventer with two (2) side outlets;
  - Choke line side shall be 3" minimum diameter;
    - Two (2) adjustable chokes with one (1) remotely controlled from the rig floor and pressure gauge.
  - Kill side shall be at least 2" diameter;
    - Two (2) manual valves and one (1) check valve.

Auxiliary equipment is as follows:

- Upper kelly cock valve with a handle available;
- Lower kelly cock valve with a handle available;
- A float valve will be used in the drill string, either in a float sub or in the mud motor;

- Safety valves and subs with a full opening sized to fit all drill strings and collars will be available on the rig floor in the open position.

WPX Energy Permian, LLC requests a variance to drill this well using a co-flex line between the BOP and the choke manifold. Certification for proposed co-flex hose is attached. The hose is required by the manufacturer to be

#### 4) Casing Program:

Section	Hole Size	Top (MD)	Bottom (MD)	Bottom (TVD)	Casing OD	Weight (ppf)	Grade	Threads
Surf	17-1/2"	0	275	275	13-3/8"	54.5	J-55	BT&C
Int_1	12-1/4"	0	2,730	2,727	9-5/8"	40.0	J-55	BT&C
Int_2	8-3/4"	0	10,155	9,778	7"	29.0	VAXP P-110	BT&C
Liner	6-1/8"	9,255	20,277	9,778	4-1/2"	13.5	VA-EP-P110	VARN

Safety Factors	
Collapse	1.125
Burst	1.000
Tension	1.600

Design Factors			
Section	Collapse	Burst	Tension
Surf	9.34	45.12	34.30
Int_1	2.14	6.58	4.76
Int_2	2.62	6.43	3.58
Liner	2.48	5.77	2.98

Centralizers will be run as follows:

- One (1) centralizer on each of the bottom three jts of casing beginning with the shoe jt;
- One (1) centralizer every third jt from above bottom three jts to planned top of cement (TOC).

#### 5) Cement Program:

Section	Hole Size	Casing OD	Cap <sub>Ann</sub> (cuft/ft)					
Surf	17.50	13.375	0.6946					
Type	Cmt Btm	Cmt Top	Cubic Feet	Yield	Excess	Sacks	Weight	Blend & Additives
Lead	22	0	15	2.38	50%	10	12	Class C + 0.50 BWOB Accelerator + 2.00 BWOB Sodium Metasilicate
Tail	275	22	132	1.32	50%	200	14.8	Class C

Section	Hole Size	Casing OD	Cap <sub>Ann</sub> (cuft/ft)	Prev Csg ID	Cap <sub>Csg-Csg</sub> (cuft/ft)			
Int_1	12.25	9.625	0.3132	12.615	0.3627			
Type	Cmt Btm	Cmt Top	Cubic Feet	Yield	Excess	Sacks	Weight	Blend & Additives
Lead	275	0	100	1.98	20%	444	12.5	Class C/Poz 35/65 + 3.00 BWOB Salt + 6.00 BWOB Bentonite
	2140	275	584		30%			
Tail	2730	2140	185	1.32	30%	200	14.8	Class C + 0.15 BWOB Retarder

Section	Hole Size	Casing OD	Cap <sub>Ann</sub> (cuft/ft)	Prev Csg ID	Cap <sub>Csg-Csg</sub> (cuft/ft)			
Int_2	8.75	7.00	0.1503	8.835	0.1585			
Type	Cmt Btm	Cmt Top	Cubic Feet	Yield	Excess	Sacks	Weight	Blend & Additives
Lead	2730	2230	79	3.01	20%	455	11	Class C + 50% Poz + 2.75 lb/sk LCM + 0.10 BWOB Sodium Metasilicate + 0.25 BWOB Retarder + 10.0 BWOB Bentonite
	9255	2730	981		30%			
Tail	10155	9255	135	1.26	30%	140	14.2	Class H + 50% Poz + 0.15 BWOB Sodium Metasilicate + 0.15 BWOB Retarder + 0.30 BWOB Dispersant + 0.40 BWOB Fluid Loss + 2.0 BWOB Bentonite

Section	Hole Size	Casing OD	Cap <sub>Ann</sub> (cuft/ft)	Prev Csg ID	Cap <sub>Csg-Csg</sub> (cuft/ft)			
Liner	6.125	4.50	0.0942	6.184	0.0981			
Type	Cmt Btm	Cmt Top	Cubic Feet	Yield	Excess	Sacks	Weight	Blend & Additives
Tail	10155	9255	88	1.25	0%	986	14.2	Class H + 50% Poz + 0.15 BWOB Sodium Metasilicate + 0.15 BWOB Retarder + 0.30 BWOB Fluid Loss + 2.0 BWOB Bentonite
	20277	10155	953		20%			

**6) Drilling Fluids Program:**

An electronic mud monitoring system satisfying the requirements of Onshore Order 1 will be used. All necessary mud products for weight addition and fluid loss control will be on location at all times. Mud program is subject to change due to hole conditions.

Section	Hole Size	TMD	Mud Wt.	Vis	PV	YP	Fluid Loss	Type
Surf	17-1/2"	275	8.5 to 8.9	32 to 36	1 - 6	1 - 6	NC	Fresh Wtr
Int_1	12-1/4"	2,730	9.8 to 10.0	28 to 30	1 - 3	1 - 3	NC	Brine
Int_2	8-3/4"	10,155	8.9 to 9.4	28 to 36	1 - 3	1 - 3	NC	Cut Brine
Liner	6-1/8"	20,277	11.5 to 12.5	50 to 55	20-22	8 - 10	8 - 10	OBM

Mud checks will be performed every 24 hours.

The following mud system monitoring equipment will be in place during drilling:

- Visual pit markers
- Pit volume totalizer (PVT)
- Stroke counter
- Gas detection
- Mud-gas separator (gas buster)
- Flow sensor

A closed-loop system will be in place during all phases of drilling. Cuttings disposal will be at an off-site disposal facility.

**7) Formation Evaluation Program:**

No core or drill stem test is planned.

A 2-person mud-logging program will be used from Int\_1 9-5/8" casing point to TD.

No electronic logs are planned.

**8) Abnormal Conditions:**

No abnormal pressure or temperature is expected.

Maximum expected bottom hole pressure is 6356 psi at 9778' TVD. Expected bottom hole temperature is <200°F.

In accordance with Onshore Order 6, WPX Energy Permian, LLC does not anticipate that there will be enough H<sub>2</sub>S to meet the BLM's minimum requirements for the submission of an "H<sub>2</sub>S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. However, since WPX Energy Permian, LLC has an H<sub>2</sub>S safety package on all wells, an "H<sub>2</sub>S Drilling Operations Plan" is attached.

Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely.

All personnel will be familiar with all aspects of safe operation of equipment being used.

**9) Other Information**

The anticipated spud date is upon approval. Expected duration is 30 days to drill the well.



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

# Drilling Plan Data Report

03/12/2024

APD ID: 10400061482

Submission Date: 09/10/2020

Highlighted data  
reflects the most  
recent changes

Operator Name: WPX ENERGY PERMIAN LLC

Well Name: GOLDEN 35-22-28 FED COM

Well Number: 402H

Well Type: OTHER

Well Work Type: Drill

[Show Final Text](#)

## Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
7717941	QUATERNARY	-2528	0	0	ALLUVIUM	USEABLE WATER	N
7717934	BELL CANYON	-5356	2828	2829	SANDSTONE, SHALE	NATURAL GAS, OIL	N
7717935	CHERRY CANYON	-6344	3816	3827	SANDSTONE, SHALE	NATURAL GAS, OIL	N
7717936	BRUSHY CANYON	-7379	4851	4874	SANDSTONE, SHALE	NATURAL GAS, OIL	N
7717937	BONE SPRING 1ST	-9861	7333	7383	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
7717938	BONE SPRING 2ND	-10617	8089	8139	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
7717939	BONE SPRING 3RD	-11878	9350	9402	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
7717940	WOLFCAMP	-12159	9631	9735	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

## Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M

Rating Depth: 9778

**Equipment:** 10M - BOP/BOPE will be installed per Onshore Oil & Gas Order #2 requirements prior to drilling below intermediate casing, a BOP/BOPE system with the above minimum rating will be installed on the wellhead system. BOP/BOPE will be tested by an independent service company per Onshore Oil & Gas Order #2 requirements and MASP (Maximum Anticipated Surface Pressure) calculations. If the system is upgraded, all the components installed will be functional and tested. 5M - BOP/BOPE will be installed per Onshore Oil & Gas Order #2 requirements prior to drilling below surface casing, a BOP/BOPE system with the above minimum rating will be installed on the wellhead system. BOP/BOPE will be tested by an independent service company per Onshore Oil & Gas Order #2 requirements and MASP (Maximum Anticipated Surface Pressure) calculations. If the system is upgraded, all the components installed will be functional and tested.

**Requesting Variance?** YES

**Variance request:** A variance is requested for the use of a flexible choke line from the BOP stack to the choke manifold. See attached for specs for hydrostatic test chart. Devon requests a variance to run a 5M annular on a 10M BOP system. See separately attached variance request and support documents in AFMSS.

**Testing Procedure:** 10M - A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. 5M annular on 10M system will be tested to 100% of rated working pressure. 5M - A multibowl wellhead may be used. The BOP will be tested per Onshore

WPX Energy  
Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well Golden 35-22-28 Fed Com 402H
Company:	WPX Energy Permian, LLC	TVD Reference:	GL:3114.95+26.50ft @ 3141.45usft (H&P 314)
Project:	Eddy NM	MD Reference:	GL:3114.95+26.50ft @ 3141.45usft (H&P 314)
Site:	Golden / Retriever Pad	North Reference:	Grid
Well:	Golden 35-22-28 Fed Com 402H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1 (330'FNL)_WC Y_H&P 314		

Project	Eddy NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Golden / Retriever Pad		
Site Position:		Northing:	492,023.00 usft
From:	Map	Easting:	626,304.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	32.352342
		Longitude:	-104.058181
		Grid Convergence:	0.15 °

Well	Golden 35-22-28 Fed Com 402H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32.353711
		Longitude:	-104.057948
		Ground Level:	3,114.95 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF200510	12/31/2009	7.98
			Dip Angle
			(°)
			60.28
			Field Strength
			(nT)
			48,818.63904306

Design	Plan 1 (330'FNL)_WC Y_H&P 314		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(bearing)
			89.85

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
(usft)	(°)	(bearing)	Depth (usft)	(usft)	(usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)	(°)	
0.00	0.00	0.00	0.00	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	
2,925.21	8.50	351.20	2,923.65	31.13	-4.82	2.00	2.00	0.00	351.20	
7,184.74	8.50	351.20	7,136.35	653.62	-101.18	0.00	0.00	0.00	0.00	
7,609.95	0.00	0.01	7,560.00	684.75	-106.00	2.00	-2.00	0.00	180.00	
9,255.00	0.00	0.00	9,205.04	684.75	-106.00	0.00	0.00	0.00	0.00	
10,155.00	90.00	89.85	9,778.00	686.24	466.96	10.00	10.00	0.00	89.85	
20,227.36	90.00	89.85	9,778.00	712.47	10,539.29	0.00	0.00	0.00	0.00	
20,277.38	90.00	89.85	9,778.00	712.60	10,589.31	0.00	0.00	0.00	0.00	BHL (Golden 402H) 3



**WPX Energy**  
Planning Report - Geographic

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Golden 35-22-28 Fed Com 402H
<b>Company:</b>	WPX Energy Permian, LLC	<b>TVD Reference:</b>	GL:3114.95+26.50ft @ 3141.45usft (H&P 314)
<b>Project:</b>	Eddy NM	<b>MD Reference:</b>	GL:3114.95+26.50ft @ 3141.45usft (H&P 314)
<b>Site:</b>	Golden / Retriever Pad	<b>North Reference:</b>	Grid
<b>Well:</b>	Golden 35-22-28 Fed Com 402H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 1 (330'FNL)_WC Y_H&P 314		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	492,521.36	626,374.69	32.353711	-104.057948
100.00	0.00	0.00	100.00	0.00	0.00	492,521.36	626,374.69	32.353711	-104.057948
200.00	0.00	0.00	200.00	0.00	0.00	492,521.36	626,374.69	32.353711	-104.057948
300.00	0.00	0.00	300.00	0.00	0.00	492,521.36	626,374.69	32.353711	-104.057948
400.00	0.00	0.00	400.00	0.00	0.00	492,521.36	626,374.69	32.353711	-104.057948
500.00	0.00	0.00	500.00	0.00	0.00	492,521.36	626,374.69	32.353711	-104.057948
561.00	0.00	0.00	561.00	0.00	0.00	492,521.36	626,374.69	32.353711	-104.057948
<b>Rustler</b>									
600.00	0.00	0.00	600.00	0.00	0.00	492,521.36	626,374.69	32.353711	-104.057948
700.00	0.00	0.00	700.00	0.00	0.00	492,521.36	626,374.69	32.353711	-104.057948
800.00	0.00	0.00	800.00	0.00	0.00	492,521.36	626,374.69	32.353711	-104.057948
900.00	0.00	0.00	900.00	0.00	0.00	492,521.36	626,374.69	32.353711	-104.057948
1,000.00	0.00	0.00	1,000.00	0.00	0.00	492,521.36	626,374.69	32.353711	-104.057948
1,100.00	0.00	0.00	1,100.00	0.00	0.00	492,521.36	626,374.69	32.353711	-104.057948
1,200.00	0.00	0.00	1,200.00	0.00	0.00	492,521.36	626,374.69	32.353711	-104.057948
1,300.00	0.00	0.00	1,300.00	0.00	0.00	492,521.36	626,374.69	32.353711	-104.057948
1,370.00	0.00	0.00	1,370.00	0.00	0.00	492,521.36	626,374.69	32.353711	-104.057948
<b>Salado</b>									
1,400.00	0.00	0.00	1,400.00	0.00	0.00	492,521.36	626,374.69	32.353711	-104.057948
1,500.00	0.00	0.00	1,500.00	0.00	0.00	492,521.36	626,374.69	32.353711	-104.057948
1,600.00	0.00	0.00	1,600.00	0.00	0.00	492,521.36	626,374.69	32.353711	-104.057948
1,700.00	0.00	0.00	1,700.00	0.00	0.00	492,521.36	626,374.69	32.353711	-104.057948
1,800.00	0.00	0.00	1,800.00	0.00	0.00	492,521.36	626,374.69	32.353711	-104.057948
1,900.00	0.00	0.00	1,900.00	0.00	0.00	492,521.36	626,374.69	32.353711	-104.057948
2,000.00	0.00	0.00	2,000.00	0.00	0.00	492,521.36	626,374.69	32.353711	-104.057948
2,100.00	0.00	0.00	2,100.00	0.00	0.00	492,521.36	626,374.69	32.353711	-104.057948
2,200.00	0.00	0.00	2,200.00	0.00	0.00	492,521.36	626,374.69	32.353711	-104.057948
2,300.00	0.00	0.00	2,300.00	0.00	0.00	492,521.36	626,374.69	32.353711	-104.057948
2,400.00	0.00	0.00	2,400.00	0.00	0.00	492,521.36	626,374.69	32.353711	-104.057948
2,500.00	0.00	0.00	2,500.00	0.00	0.00	492,521.36	626,374.69	32.353711	-104.057948
2,600.00	2.00	351.20	2,599.98	1.72	-0.27	492,523.09	626,374.43	32.353716	-104.057948
2,700.00	4.00	351.20	2,699.84	6.90	-1.07	492,528.26	626,373.63	32.353730	-104.057951
2,800.00	6.00	351.20	2,799.45	15.51	-2.40	492,536.87	626,372.29	32.353754	-104.057955
2,828.72	6.57	351.20	2,828.00	18.62	-2.88	492,539.98	626,371.81	32.353763	-104.057957
<b>Castile</b>									
2,900.00	8.00	351.20	2,898.70	27.55	-4.27	492,548.91	626,370.43	32.353787	-104.057961
2,925.21	8.50	351.20	2,923.65	31.13	-4.82	492,552.49	626,369.88	32.353797	-104.057963
3,000.00	8.50	351.20	2,997.62	42.06	-6.51	492,563.42	626,368.18	32.353827	-104.057968
3,100.00	8.50	351.20	3,096.52	56.67	-8.77	492,578.03	626,365.92	32.353867	-104.057975
3,145.43	8.50	351.20	3,141.45	63.31	-9.80	492,584.67	626,364.89	32.353885	-104.057979
<b>Wolfcamp A</b>									
3,200.00	8.50	351.20	3,195.42	71.29	-11.04	492,592.65	626,363.66	32.353907	-104.057983
3,300.00	8.50	351.20	3,294.32	85.90	-13.30	492,607.26	626,361.40	32.353948	-104.057990
3,400.00	8.50	351.20	3,393.22	100.51	-15.56	492,621.88	626,359.13	32.353988	-104.057997
3,500.00	8.50	351.20	3,492.12	115.13	-17.82	492,636.49	626,356.87	32.354028	-104.058004
3,600.00	8.50	351.20	3,591.02	129.74	-20.08	492,651.10	626,354.61	32.354068	-104.058011
3,700.00	8.50	351.20	3,689.92	144.36	-22.35	492,665.72	626,352.35	32.354108	-104.058019
3,800.00	8.50	351.20	3,788.82	158.97	-24.61	492,680.33	626,350.09	32.354149	-104.058026
3,827.48	8.50	351.20	3,816.00	162.99	-25.23	492,684.35	626,349.46	32.354160	-104.058028
<b>Bell Canyon (Base of Salt)</b>									
3,900.00	8.50	351.20	3,887.72	173.58	-26.87	492,694.95	626,347.82	32.354189	-104.058033
4,000.00	8.50	351.20	3,986.62	188.20	-29.13	492,709.56	626,345.56	32.354229	-104.058040

# WPX Energy

## Planning Report - Geographic

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Golden 35-22-28 Fed Com 402H
<b>Company:</b>	WPX Energy Permian, LLC	<b>TVD Reference:</b>	GL:3114.95+26.50ft @ 3141.45usft (H&P 314)
<b>Project:</b>	Eddy NM	<b>MD Reference:</b>	GL:3114.95+26.50ft @ 3141.45usft (H&P 314)
<b>Site:</b>	Golden / Retriever Pad	<b>North Reference:</b>	Grid
<b>Well:</b>	Golden 35-22-28 Fed Com 402H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 1 (330'FNL)_WC Y_H&P 314		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,100.00	8.50	351.20	4,085.52	202.81	-31.40	492,724.17	626,343.30	32.354269	-104.058048
4,200.00	8.50	351.20	4,184.42	217.43	-33.66	492,738.79	626,341.04	32.354309	-104.058055
4,300.00	8.50	351.20	4,283.32	232.04	-35.92	492,753.40	626,338.77	32.354349	-104.058062
4,400.00	8.50	351.20	4,382.23	246.66	-38.18	492,768.02	626,336.51	32.354390	-104.058069
4,500.00	8.50	351.20	4,481.13	261.27	-40.44	492,782.63	626,334.25	32.354430	-104.058076
4,600.00	8.50	351.20	4,580.03	275.88	-42.71	492,797.25	626,331.99	32.354470	-104.058084
4,700.00	8.50	351.20	4,678.93	290.50	-44.97	492,811.86	626,329.72	32.354510	-104.058091
4,800.00	8.50	351.20	4,777.83	305.11	-47.23	492,826.47	626,327.46	32.354550	-104.058098
4,873.99	8.50	351.20	4,851.00	315.92	-48.91	492,837.29	626,325.79	32.354580	-104.058103
<b>Cherry Canyon</b>									
4,900.00	8.50	351.20	4,876.73	319.73	-49.49	492,841.09	626,325.20	32.354591	-104.058105
5,000.00	8.50	351.20	4,975.63	334.34	-51.76	492,855.70	626,322.94	32.354631	-104.058112
5,100.00	8.50	351.20	5,074.53	348.95	-54.02	492,870.32	626,320.68	32.354671	-104.058120
5,200.00	8.50	351.20	5,173.43	363.57	-56.28	492,884.93	626,318.41	32.354711	-104.058127
5,300.00	8.50	351.20	5,272.33	378.18	-58.54	492,899.54	626,316.15	32.354751	-104.058134
5,400.00	8.50	351.20	5,371.23	392.80	-60.81	492,914.16	626,313.89	32.354792	-104.058141
5,500.00	8.50	351.20	5,470.13	407.41	-63.07	492,928.77	626,311.63	32.354832	-104.058148
5,600.00	8.50	351.20	5,569.03	422.03	-65.33	492,943.39	626,309.36	32.354872	-104.058156
5,700.00	8.50	351.20	5,667.93	436.64	-67.59	492,958.00	626,307.10	32.354912	-104.058163
5,800.00	8.50	351.20	5,766.83	451.25	-69.85	492,972.61	626,304.84	32.354952	-104.058170
5,900.00	8.50	351.20	5,865.73	465.87	-72.12	492,987.23	626,302.58	32.354992	-104.058177
6,000.00	8.50	351.20	5,964.63	480.48	-74.38	493,001.84	626,300.31	32.355033	-104.058184
6,100.00	8.50	351.20	6,063.53	495.10	-76.64	493,016.46	626,298.05	32.355073	-104.058192
6,200.00	8.50	351.20	6,162.43	509.71	-78.90	493,031.07	626,295.79	32.355113	-104.058199
6,300.00	8.50	351.20	6,261.33	524.32	-81.17	493,045.69	626,293.53	32.355153	-104.058206
6,367.41	8.50	351.20	6,328.00	534.18	-82.69	493,055.54	626,292.00	32.355180	-104.058211
<b>Brushy Canyon</b>									
6,400.00	8.50	351.20	6,360.24	538.94	-83.43	493,060.30	626,291.27	32.355193	-104.058213
6,500.00	8.50	351.20	6,459.14	553.55	-85.69	493,074.91	626,289.00	32.355234	-104.058220
6,600.00	8.50	351.20	6,558.04	568.17	-87.95	493,089.53	626,286.74	32.355274	-104.058228
6,700.00	8.50	351.20	6,656.94	582.78	-90.22	493,104.14	626,284.48	32.355314	-104.058235
6,800.00	8.50	351.20	6,755.84	597.40	-92.48	493,118.76	626,282.22	32.355354	-104.058242
6,900.00	8.50	351.20	6,854.74	612.01	-94.74	493,133.37	626,279.95	32.355394	-104.058249
7,000.00	8.50	351.20	6,953.64	626.62	-97.00	493,147.98	626,277.69	32.355435	-104.058256
7,018.57	8.50	351.20	6,972.00	629.34	-97.42	493,150.70	626,277.27	32.355442	-104.058258
<b>Bone Spring</b>									
7,100.00	8.50	351.20	7,052.54	641.24	-99.26	493,162.60	626,275.43	32.355475	-104.058264
7,184.74	8.50	351.20	7,136.35	653.62	-101.18	493,174.98	626,273.51	32.355509	-104.058270
7,200.00	8.20	351.20	7,151.45	655.81	-101.52	493,177.17	626,273.17	32.355515	-104.058271
7,300.00	6.20	351.20	7,250.65	668.20	-103.44	493,189.56	626,271.26	32.355549	-104.058277
7,382.71	4.54	351.20	7,333.00	675.85	-104.62	493,197.21	626,270.07	32.355570	-104.058281
<b>Avalon</b>									
7,400.00	4.20	351.20	7,350.24	677.15	-104.82	493,198.51	626,269.87	32.355573	-104.058281
7,500.00	2.20	351.20	7,450.07	682.67	-105.68	493,204.03	626,269.02	32.355589	-104.058284
7,609.95	0.00	0.01	7,560.00	684.75	-106.00	493,206.11	626,268.69	32.355594	-104.058285
7,610.95	0.00	0.00	7,561.00	684.75	-106.00	493,206.11	626,268.69	32.355594	-104.058285
<b>1st Bone Spring Sand</b>									
7,700.00	0.00	0.00	7,650.05	684.75	-106.00	493,206.11	626,268.69	32.355594	-104.058285
7,800.00	0.00	0.00	7,750.05	684.75	-106.00	493,206.11	626,268.69	32.355594	-104.058285
7,900.00	0.00	0.00	7,850.05	684.75	-106.00	493,206.11	626,268.69	32.355594	-104.058285
8,000.00	0.00	0.00	7,950.05	684.75	-106.00	493,206.11	626,268.69	32.355594	-104.058285
8,100.00	0.00	0.00	8,050.05	684.75	-106.00	493,206.11	626,268.69	32.355594	-104.058285

**WPX Energy**  
Planning Report - Geographic

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Golden 35-22-28 Fed Com 402H
<b>Company:</b>	WPX Energy Permian, LLC	<b>TVD Reference:</b>	GL:3114.95+26.50ft @ 3141.45usft (H&P 314)
<b>Project:</b>	Eddy NM	<b>MD Reference:</b>	GL:3114.95+26.50ft @ 3141.45usft (H&P 314)
<b>Site:</b>	Golden / Retriever Pad	<b>North Reference:</b>	Grid
<b>Well:</b>	Golden 35-22-28 Fed Com 402H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 1 (330'FNL)_WC_Y_H&P 314		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,138.95	0.00	0.00	8,089.00	684.75	-106.00	493,206.11	626,268.69	32.355594	-104.058285
<b>2nd Bone Spring Lime</b>									
8,200.00	0.00	0.00	8,150.05	684.75	-106.00	493,206.11	626,268.69	32.355594	-104.058285
8,300.00	0.00	0.00	8,250.05	684.75	-106.00	493,206.11	626,268.69	32.355594	-104.058285
8,400.00	0.00	0.00	8,350.05	684.75	-106.00	493,206.11	626,268.69	32.355594	-104.058285
8,500.00	0.00	0.00	8,450.05	684.75	-106.00	493,206.11	626,268.69	32.355594	-104.058285
8,507.95	0.00	0.00	8,458.00	684.75	-106.00	493,206.11	626,268.69	32.355594	-104.058285
<b>2nd Bone Spring Sand</b>									
8,600.00	0.00	0.00	8,550.05	684.75	-106.00	493,206.11	626,268.69	32.355594	-104.058285
8,700.00	0.00	0.00	8,650.05	684.75	-106.00	493,206.11	626,268.69	32.355594	-104.058285
8,800.00	0.00	0.00	8,750.05	684.75	-106.00	493,206.11	626,268.69	32.355594	-104.058285
8,900.00	0.00	0.00	8,850.05	684.75	-106.00	493,206.11	626,268.69	32.355594	-104.058285
9,000.00	0.00	0.00	8,950.05	684.75	-106.00	493,206.11	626,268.69	32.355594	-104.058285
9,100.00	0.00	0.00	9,050.05	684.75	-106.00	493,206.11	626,268.69	32.355594	-104.058285
9,200.00	0.00	0.00	9,150.05	684.75	-106.00	493,206.11	626,268.69	32.355594	-104.058285
9,255.00	0.00	0.00	9,205.04	684.75	-106.00	493,206.11	626,268.69	32.355594	-104.058285
9,300.00	4.50	89.85	9,250.00	684.75	-104.23	493,206.12	626,270.46	32.355594	-104.058279
9,350.00	9.50	89.85	9,299.61	684.77	-98.14	493,206.13	626,276.55	32.355594	-104.058260
9,400.00	14.50	89.85	9,348.50	684.80	-87.75	493,206.16	626,286.95	32.355594	-104.058226
9,401.55	14.66	89.85	9,350.00	684.80	-87.36	493,206.16	626,287.33	32.355594	-104.058225
<b>3rd Bone Spring Lime</b>									
9,450.00	19.50	89.85	9,396.30	684.84	-73.13	493,206.20	626,301.56	32.355594	-104.058179
9,500.00	24.50	89.85	9,442.65	684.88	-54.41	493,206.25	626,320.28	32.355594	-104.058118
9,550.00	29.50	89.85	9,487.18	684.94	-31.72	493,206.30	626,342.98	32.355594	-104.058045
9,600.00	34.50	89.85	9,529.57	685.01	-5.23	493,206.37	626,369.46	32.355594	-104.057959
9,650.00	39.50	89.85	9,569.49	685.09	24.85	493,206.45	626,399.55	32.355594	-104.057861
9,700.00	44.50	89.85	9,606.64	685.18	58.30	493,206.54	626,432.99	32.355594	-104.057753
9,735.25	48.02	89.85	9,631.00	685.24	83.76	493,206.61	626,458.45	32.355594	-104.057671
<b>3rd Bone Spring Sand</b>									
9,750.00	49.50	89.85	9,640.73	685.27	94.85	493,206.63	626,469.55	32.355594	-104.057635
9,779.01	52.40	89.85	9,659.00	685.33	117.38	493,206.69	626,492.08	32.355594	-104.057562
<b>Wolfcamp Top</b>									
9,800.00	54.50	89.85	9,671.50	685.38	134.24	493,206.74	626,508.94	32.355594	-104.057507
9,850.00	59.50	89.85	9,698.72	685.48	176.16	493,206.85	626,550.86	32.355594	-104.057371
9,900.00	64.50	89.85	9,722.19	685.60	220.30	493,206.96	626,594.99	32.355594	-104.057228
9,950.00	69.50	89.85	9,741.72	685.72	266.31	493,207.08	626,641.00	32.355594	-104.057079
9,988.57	73.36	89.85	9,754.00	685.81	302.87	493,207.18	626,677.56	32.355594	-104.056961
<b>WC_X</b>									
10,000.00	74.50	89.85	9,757.16	685.84	313.84	493,207.20	626,688.54	32.355594	-104.056925
10,032.71	77.77	89.85	9,765.00	685.93	345.60	493,207.29	626,720.29	32.355594	-104.056823
<b>WC_Y</b>									
10,050.00	79.50	89.85	9,768.41	685.97	362.55	493,207.33	626,737.24	32.355594	-104.056768
10,100.00	84.50	89.85	9,775.36	686.10	412.05	493,207.46	626,786.74	32.355594	-104.056607
10,155.00	90.00	89.85	9,778.00	686.24	466.96	493,207.60	626,841.65	32.355594	-104.056430
<b>Top Target</b>									
10,200.00	90.00	89.85	9,778.00	686.36	511.96	493,207.72	626,886.65	32.355594	-104.056284
10,300.00	90.00	89.85	9,778.00	686.62	611.96	493,207.98	626,986.65	32.355594	-104.055960
10,400.00	90.00	89.85	9,778.00	686.88	711.96	493,208.24	627,086.65	32.355594	-104.055636
10,500.00	90.00	89.85	9,778.00	687.14	811.96	493,208.50	627,186.65	32.355594	-104.055312
10,600.00	90.00	89.85	9,778.00	687.40	911.96	493,208.76	627,286.65	32.355594	-104.054988
10,700.00	90.00	89.85	9,778.00	687.66	1,011.96	493,209.02	627,386.65	32.355594	-104.054665
10,800.00	90.00	89.85	9,778.00	687.92	1,111.96	493,209.28	627,486.65	32.355594	-104.054341

# WPX Energy

## Planning Report - Geographic

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Golden 35-22-28 Fed Com 402H
<b>Company:</b>	WPX Energy Permian, LLC	<b>TVD Reference:</b>	GL:3114.95+26.50ft @ 3141.45usft (H&P 314)
<b>Project:</b>	Eddy NM	<b>MD Reference:</b>	GL:3114.95+26.50ft @ 3141.45usft (H&P 314)
<b>Site:</b>	Golden / Retriever Pad	<b>North Reference:</b>	Grid
<b>Well:</b>	Golden 35-22-28 Fed Com 402H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 1 (330'FNL)_WC Y_H&P 314		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,900.00	90.00	89.85	9,778.00	688.18	1,211.96	493,209.54	627,586.65	32.355594	-104.054017
11,000.00	90.00	89.85	9,778.00	688.44	1,311.96	493,209.80	627,686.65	32.355594	-104.053693
11,100.00	90.00	89.85	9,778.00	688.70	1,411.96	493,210.06	627,786.65	32.355594	-104.053369
11,200.00	90.00	89.85	9,778.00	688.96	1,511.96	493,210.32	627,886.65	32.355594	-104.053045
11,300.00	90.00	89.85	9,778.00	689.22	1,611.96	493,210.58	627,986.65	32.355594	-104.052722
11,400.00	90.00	89.85	9,778.00	689.48	1,711.96	493,210.84	628,086.65	32.355594	-104.052398
11,500.00	90.00	89.85	9,778.00	689.74	1,811.96	493,211.11	628,186.65	32.355594	-104.052074
11,600.00	90.00	89.85	9,778.00	690.00	1,911.96	493,211.37	628,286.65	32.355594	-104.051750
11,700.00	90.00	89.85	9,778.00	690.27	2,011.96	493,211.63	628,386.65	32.355594	-104.051426
11,800.00	90.00	89.85	9,778.00	690.53	2,111.96	493,211.89	628,486.65	32.355594	-104.051102
11,900.00	90.00	89.85	9,778.00	690.79	2,211.96	493,212.15	628,586.65	32.355594	-104.050778
12,000.00	90.00	89.85	9,778.00	691.05	2,311.95	493,212.41	628,686.65	32.355594	-104.050455
12,100.00	90.00	89.85	9,778.00	691.31	2,411.95	493,212.67	628,786.65	32.355594	-104.050131
12,200.00	90.00	89.85	9,778.00	691.57	2,511.95	493,212.93	628,886.65	32.355594	-104.049807
12,300.00	90.00	89.85	9,778.00	691.83	2,611.95	493,213.19	628,986.65	32.355594	-104.049483
12,400.00	90.00	89.85	9,778.00	692.09	2,711.95	493,213.45	629,086.65	32.355594	-104.049159
12,500.00	90.00	89.85	9,778.00	692.35	2,811.95	493,213.71	629,186.65	32.355594	-104.048835
12,600.00	90.00	89.85	9,778.00	692.61	2,911.95	493,213.97	629,286.65	32.355594	-104.048512
12,700.00	90.00	89.85	9,778.00	692.87	3,011.95	493,214.23	629,386.65	32.355594	-104.048188
12,800.00	90.00	89.85	9,778.00	693.13	3,111.95	493,214.49	629,486.65	32.355594	-104.047864
12,900.00	90.00	89.85	9,778.00	693.39	3,211.95	493,214.75	629,586.65	32.355594	-104.047540
13,000.00	90.00	89.85	9,778.00	693.65	3,311.95	493,215.01	629,686.65	32.355594	-104.047216
13,100.00	90.00	89.85	9,778.00	693.91	3,411.95	493,215.27	629,786.64	32.355594	-104.046892
13,200.00	90.00	89.85	9,778.00	694.17	3,511.95	493,215.53	629,886.64	32.355594	-104.046568
13,300.00	90.00	89.85	9,778.00	694.43	3,611.95	493,215.79	629,986.64	32.355594	-104.046245
13,400.00	90.00	89.85	9,778.00	694.69	3,711.95	493,216.05	630,086.64	32.355594	-104.045921
13,500.00	90.00	89.85	9,778.00	694.95	3,811.95	493,216.31	630,186.64	32.355594	-104.045597
13,600.00	90.00	89.85	9,778.00	695.21	3,911.95	493,216.57	630,286.64	32.355594	-104.045273
13,700.00	90.00	89.85	9,778.00	695.47	4,011.95	493,216.83	630,386.64	32.355594	-104.044949
13,800.00	90.00	89.85	9,778.00	695.73	4,111.95	493,217.09	630,486.64	32.355594	-104.044625
13,900.00	90.00	89.85	9,778.00	695.99	4,211.95	493,217.35	630,586.64	32.355594	-104.044302
14,000.00	90.00	89.85	9,778.00	696.25	4,311.95	493,217.62	630,686.64	32.355594	-104.043978
14,100.00	90.00	89.85	9,778.00	696.51	4,411.95	493,217.88	630,786.64	32.355594	-104.043654
14,200.00	90.00	89.85	9,778.00	696.78	4,511.95	493,218.14	630,886.64	32.355594	-104.043330
14,300.00	90.00	89.85	9,778.00	697.04	4,611.95	493,218.40	630,986.64	32.355594	-104.043006
14,400.00	90.00	89.85	9,778.00	697.30	4,711.95	493,218.66	631,086.64	32.355594	-104.042682
14,500.00	90.00	89.85	9,778.00	697.56	4,811.95	493,218.92	631,186.64	32.355594	-104.042358
14,600.00	90.00	89.85	9,778.00	697.82	4,911.95	493,219.18	631,286.64	32.355594	-104.042035
14,700.00	90.00	89.85	9,778.00	698.08	5,011.95	493,219.44	631,386.64	32.355594	-104.041711
14,800.00	90.00	89.85	9,778.00	698.34	5,111.95	493,219.70	631,486.64	32.355594	-104.041387
14,900.00	90.00	89.85	9,778.00	698.60	5,211.94	493,219.96	631,586.64	32.355594	-104.041063
15,000.00	90.00	89.85	9,778.00	698.86	5,311.94	493,220.22	631,686.64	32.355594	-104.040739
15,100.00	90.00	89.85	9,778.00	699.12	5,411.94	493,220.48	631,786.64	32.355594	-104.040415
15,200.00	90.00	89.85	9,778.00	699.38	5,511.94	493,220.74	631,886.64	32.355594	-104.040092
15,300.00	90.00	89.85	9,778.00	699.64	5,611.94	493,221.00	631,986.64	32.355594	-104.039768
15,400.00	90.00	89.85	9,778.00	699.90	5,711.94	493,221.26	632,086.64	32.355594	-104.039444
15,500.00	90.00	89.85	9,778.00	700.16	5,811.94	493,221.52	632,186.64	32.355593	-104.039120
15,600.00	90.00	89.85	9,778.00	700.42	5,911.94	493,221.78	632,286.64	32.355593	-104.038796
15,700.00	90.00	89.85	9,778.00	700.68	6,011.94	493,222.04	632,386.64	32.355593	-104.038472
15,800.00	90.00	89.85	9,778.00	700.94	6,111.94	493,222.30	632,486.64	32.355593	-104.038148
15,900.00	90.00	89.85	9,778.00	701.20	6,211.94	493,222.56	632,586.64	32.355593	-104.037825
16,000.00	90.00	89.85	9,778.00	701.46	6,311.94	493,222.82	632,686.64	32.355593	-104.037501
16,100.00	90.00	89.85	9,778.00	701.72	6,411.94	493,223.08	632,786.63	32.355593	-104.037177

# WPX Energy

## Planning Report - Geographic

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well Golden 35-22-28 Fed Com 402H
<b>Company:</b>	WPX Energy Permian, LLC	<b>TVD Reference:</b>	GL:3114.95+26.50ft @ 3141.45usft (H&P 314)
<b>Project:</b>	Eddy NM	<b>MD Reference:</b>	GL:3114.95+26.50ft @ 3141.45usft (H&P 314)
<b>Site:</b>	Golden / Retriever Pad	<b>North Reference:</b>	Grid
<b>Well:</b>	Golden 35-22-28 Fed Com 402H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 1 (330'FNL)_WC Y_H&P 314		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
16,200.00	90.00	89.85	9,778.00	701.98	6,511.94	493,223.34	632,886.63	32.355593	-104.036853
16,300.00	90.00	89.85	9,778.00	702.24	6,611.94	493,223.60	632,986.63	32.355593	-104.036529
16,400.00	90.00	89.85	9,778.00	702.50	6,711.94	493,223.86	633,086.63	32.355593	-104.036205
16,500.00	90.00	89.85	9,778.00	702.76	6,811.94	493,224.13	633,186.63	32.355593	-104.035882
16,600.00	90.00	89.85	9,778.00	703.02	6,911.94	493,224.39	633,286.63	32.355593	-104.035558
16,700.00	90.00	89.85	9,778.00	703.28	7,011.94	493,224.65	633,386.63	32.355593	-104.035234
16,800.00	90.00	89.85	9,778.00	703.55	7,111.94	493,224.91	633,486.63	32.355593	-104.034910
16,900.00	90.00	89.85	9,778.00	703.81	7,211.94	493,225.17	633,586.63	32.355593	-104.034586
17,000.00	90.00	89.85	9,778.00	704.07	7,311.94	493,225.43	633,686.63	32.355593	-104.034262
17,100.00	90.00	89.85	9,778.00	704.33	7,411.94	493,225.69	633,786.63	32.355593	-104.033938
17,200.00	90.00	89.85	9,778.00	704.59	7,511.94	493,225.95	633,886.63	32.355593	-104.033615
17,300.00	90.00	89.85	9,778.00	704.85	7,611.94	493,226.21	633,986.63	32.355593	-104.033291
17,400.00	90.00	89.85	9,778.00	705.11	7,711.94	493,226.47	634,086.63	32.355593	-104.032967
17,500.00	90.00	89.85	9,778.00	705.37	7,811.94	493,226.73	634,186.63	32.355593	-104.032643
17,600.00	90.00	89.85	9,778.00	705.63	7,911.94	493,226.99	634,286.63	32.355592	-104.032319
17,700.00	90.00	89.85	9,778.00	705.89	8,011.94	493,227.25	634,386.63	32.355592	-104.031995
17,800.00	90.00	89.85	9,778.00	706.15	8,111.94	493,227.51	634,486.63	32.355592	-104.031672
17,900.00	90.00	89.85	9,778.00	706.41	8,211.93	493,227.77	634,586.63	32.355592	-104.031348
18,000.00	90.00	89.85	9,778.00	706.67	8,311.93	493,228.03	634,686.63	32.355592	-104.031024
18,100.00	90.00	89.85	9,778.00	706.93	8,411.93	493,228.29	634,786.63	32.355592	-104.030700
18,200.00	90.00	89.85	9,778.00	707.19	8,511.93	493,228.55	634,886.63	32.355592	-104.030376
18,300.00	90.00	89.85	9,778.00	707.45	8,611.93	493,228.81	634,986.63	32.355592	-104.030052
18,400.00	90.00	89.85	9,778.00	707.71	8,711.93	493,229.07	635,086.63	32.355592	-104.029728
18,500.00	90.00	89.85	9,778.00	707.97	8,811.93	493,229.33	635,186.63	32.355592	-104.029405
18,600.00	90.00	89.85	9,778.00	708.23	8,911.93	493,229.59	635,286.63	32.355592	-104.029081
18,700.00	90.00	89.85	9,778.00	708.49	9,011.93	493,229.85	635,386.63	32.355592	-104.028757
18,800.00	90.00	89.85	9,778.00	708.75	9,111.93	493,230.11	635,486.63	32.355592	-104.028433
18,900.00	90.00	89.85	9,778.00	709.01	9,211.93	493,230.37	635,586.63	32.355592	-104.028109
19,000.00	90.00	89.85	9,778.00	709.27	9,311.93	493,230.64	635,686.63	32.355592	-104.027785
19,100.00	90.00	89.85	9,778.00	709.53	9,411.93	493,230.90	635,786.62	32.355592	-104.027462
19,200.00	90.00	89.85	9,778.00	709.79	9,511.93	493,231.16	635,886.62	32.355591	-104.027138
19,300.00	90.00	89.85	9,778.00	710.06	9,611.93	493,231.42	635,986.62	32.355591	-104.026814
19,400.00	90.00	89.85	9,778.00	710.32	9,711.93	493,231.68	636,086.62	32.355591	-104.026490
19,500.00	90.00	89.85	9,778.00	710.58	9,811.93	493,231.94	636,186.62	32.355591	-104.026166
19,600.00	90.00	89.85	9,778.00	710.84	9,911.93	493,232.20	636,286.62	32.355591	-104.025842
19,700.00	90.00	89.85	9,778.00	711.10	10,011.93	493,232.46	636,386.62	32.355591	-104.025518
19,800.00	90.00	89.85	9,778.00	711.36	10,111.93	493,232.72	636,486.62	32.355591	-104.025195
19,900.00	90.00	89.85	9,778.00	711.62	10,211.93	493,232.98	636,586.62	32.355591	-104.024871
20,000.00	90.00	89.85	9,778.00	711.88	10,311.93	493,233.24	636,686.62	32.355591	-104.024547
20,100.00	90.00	89.85	9,778.00	712.14	10,411.93	493,233.50	636,786.62	32.355591	-104.024223
20,200.00	90.00	89.85	9,778.00	712.40	10,511.93	493,233.76	636,886.62	32.355591	-104.023899
20,227.36	90.00	89.85	9,778.00	712.47	10,539.29	493,233.83	636,913.98	32.355591	-104.023811
20,277.38	90.00	89.85	9,778.00	712.60	10,589.31	493,233.96	636,964.00	32.355591	-104.023649

WPX Energy  
Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well Golden 35-22-28 Fed Com 402H
Company:	WPX Energy Permian, LLC	TVD Reference:	GL:3114.95+26.50ft @ 3141.45usft (H&P 314)
Project:	Eddy NM	MD Reference:	GL:3114.95+26.50ft @ 3141.45usft (H&P 314)
Site:	Golden / Retriever Pad	North Reference:	Grid
Well:	Golden 35-22-28 Fed Com 402H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1 (330'FNL)_WC_Y_H&P 314		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(bearing	(usft)	(usft)	(usft)	(usft)	(usft)		
FTP (Golden 402H) 330'	0.00	0.01	0.00	684.75	-50.93	493,206.11	626,323.76	32.355594	-104.058107
- plan misses target center by 686.64usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
LTP (Golden 402H) 331	0.00	0.01	9,778.00	712.47	10,539.29	493,233.83	636,913.98	32.355591	-104.023811
- plan hits target center									
- Point									
BHL (Golden 402H) 330'	0.00	0.01	9,778.00	712.60	10,589.31	493,233.96	636,964.00	32.355591	-104.023649
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth					
(usft)	(usft)	Name	Lithology	Dip	Dip Direction	
				(°)	(bearing)	
561.00	561.00	Rustler				
1,370.00	1,370.00	Salado				
2,828.72	2,828.00	Castile				
3,145.43	3,141.45	Wolfcamp A				
3,827.48	3,816.00	Bell Canyon (Base of Salt)				
4,873.99	4,851.00	Cherry Canyon				
6,367.41	6,328.00	Brushy Canyon				
7,018.57	6,972.00	Bone Spring				
7,382.71	7,333.00	Avalon				
7,610.95	7,561.00	1st Bone Spring Sand				
8,138.95	8,089.00	2nd Bone Spring Lime				
8,507.95	8,458.00	2nd Bone Spring Sand				
9,401.55	9,350.00	3rd Bone Spring Lime				
9,735.25	9,631.00	3rd Bone Spring Sand				
9,779.01	9,659.00	Wolfcamp Top				
9,988.57	9,754.00	WC_X				
10,032.71	9,765.00	WC_Y				
10,155.00	9,778.00	Top Target				



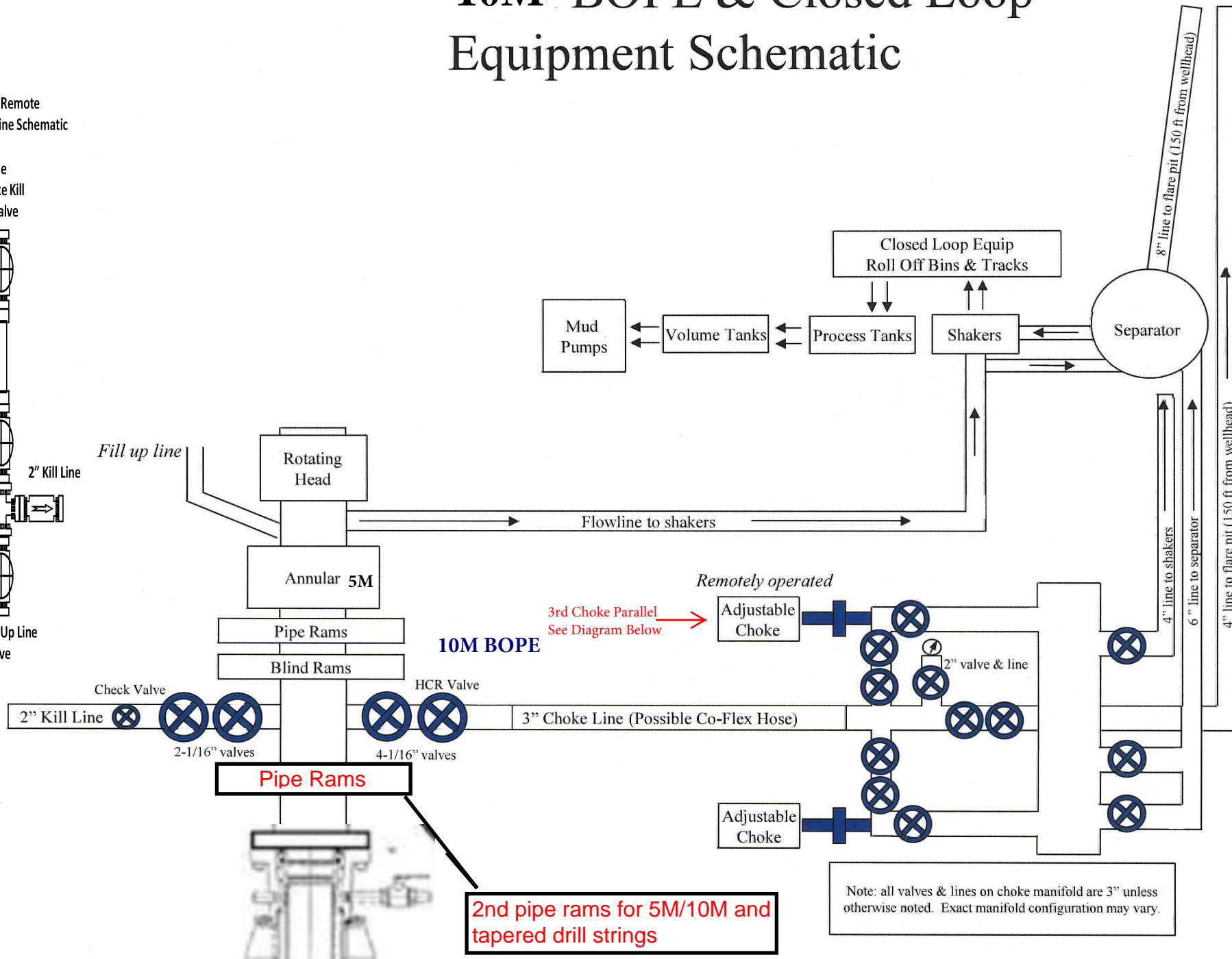
# 10M BOPE & Closed Loop Equipment Schematic

10M Remote Kill Line Schematic

Outside Remote Kill Line Valve



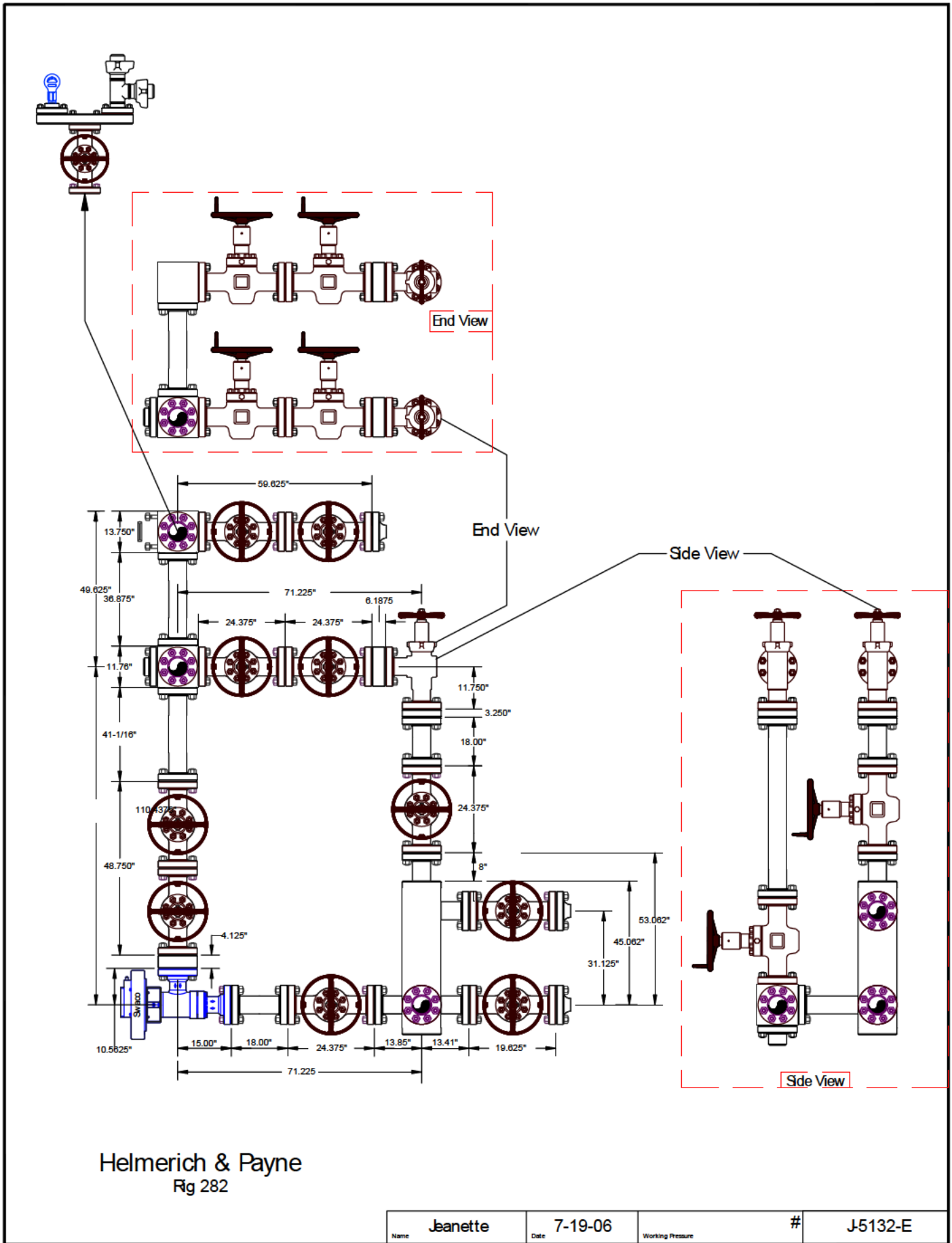
Fill Up Line Valve



10M BOPE

2nd pipe rams for 5M/10M and tapered drill strings





## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	<b>WPX Energy Permian LLC</b>
<b>LEASE NO.:</b>	<b>NMNM67980</b>
<b>WELL NAME &amp; NO.:</b>	Golden 35-22-28 Federal Com 402H
<b>SURFACE HOLE FOOTAGE:</b>	1015'/S & 2508'/E
<b>BOTTOM HOLE FOOTAGE:</b>	330'/N & 2540'/W
<b>LOCATION:</b>	Section 35, T.22 S., R.28 E., NMPM
<b>COUNTY:</b>	Eddy County, New Mexico

COA

H2S	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input type="checkbox"/> Fluid Filled	<input type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> 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

1. The **13-3/8 inch** surface casing shall be set at approximately **275 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.
2. The minimum required fill of cement behind the **9-5/8 inch** intermediate 1 casing and shall be set at approximately **2,730 feet** is:

- 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.**

- ❖ 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 **7 inch** intermediate 2 casing and shall be set at approximately **9,749 feet** with a tie-back into the previous casing at **2,330 feet** is:

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

**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.

4. The minimum required fill of cement behind the **4-1/2 inch** production liner with a tie-back into the previous casing at approximately **9,255 feet** is:

- Cement should tie-back **100 feet** into the previous casing. 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. 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, intermediate 1, and intermediate 2 casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) 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.

### D. SPECIAL REQUIREMENT (S)

#### Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

## GENERAL REQUIREMENTS

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

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

☒ Eddy County

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

☒ Lea County

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

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

## A. CASING

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

**B. PRESSURE CONTROL**

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



lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

**YJ (10/04/2021)**



# **WPX Energy Permian, LLC**

**3500 One Williams Center  
Tulsa, Oklahoma 74172**

## **Hydrogen Sulfide (H<sub>2</sub>S) Contingency Plan**

**For**

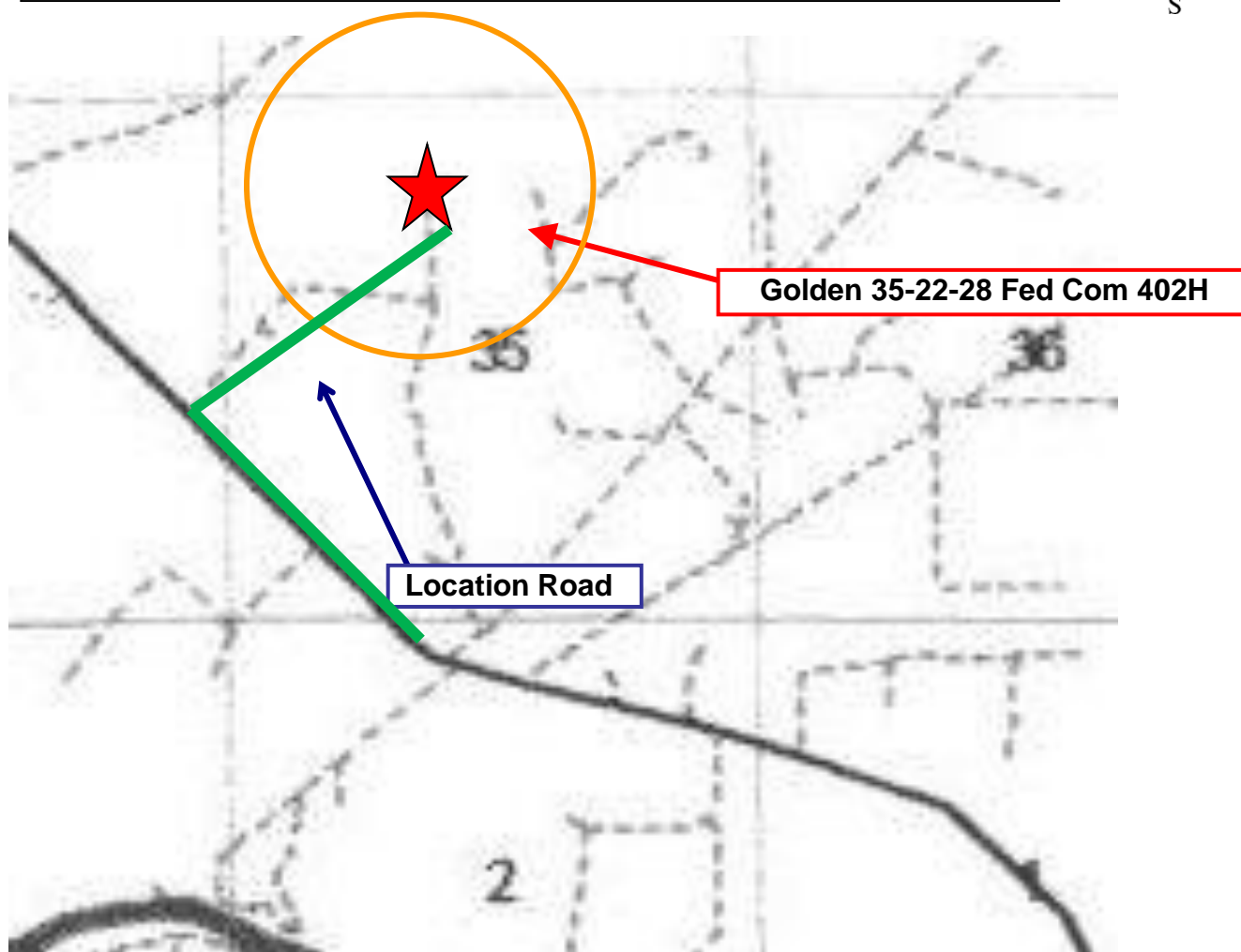
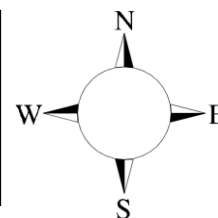
## **Golden 35-22-28 Fed Com 402H**

**Sec-35 T-22S R-28E  
1015' FNL & 2508' FEL  
LAT. = 32.353711' N (NAD83)  
LONG = 104.057947' W**

**Eddy County NM**

## Golden 35-22-28 Fed Com 402H

This is an open drilling site. H<sub>2</sub>S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H<sub>2</sub>S, including warning signs, wind indicators and H<sub>2</sub>S monitor.



Assumed 100 ppm **ROE = 3000'** (**Radius of Exposure**)  
100 ppm H<sub>2</sub>S concentration shall trigger activation of this plan.

### Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated from the location entrance road. Crews should then block the entrance to the location from the lease road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. There are no homes or buildings in or near the ROE.

**Assumed 100 ppm ROE = 3000'**

**100 ppm H<sub>2</sub>S concentration shall trigger activation of this plan.**

### **Emergency Procedures**

In the event of a release of gas containing H<sub>2</sub>S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H<sub>2</sub>S monitors and air packs in order to control the release.
- Use the “buddy system” to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
  - Detection of H<sub>2</sub>S, and
  - Measures for protection against the gas,
  - Equipment used for protection and emergency response.

### **Ignition of Gas Source**

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO<sub>2</sub>). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

### **Characteristics of H<sub>2</sub>S and SO<sub>2</sub>**

<b>Common Name</b>	<b>Chemical Formula</b>	<b>Specific Gravity</b>	<b>Threshold Limit</b>	<b>Hazardous Limit</b>	<b>Lethal Concentration</b>
<b>Hydrogen Sulfide</b>	H <sub>2</sub> S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
<b>Sulfur Dioxide</b>	SO <sub>2</sub>	2.21 Air = 1	2 ppm	N/A	1000 ppm

### **Contacting Authorities**

WPX Energy Permian personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. WPX Energy Permian Company response must be in coordination with

the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

## **Hydrogen Sulfide Drilling Operation Plan**

### **I. HYDROGEN SULFIDE (H<sub>2</sub>S) TRAINING**

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

1. The hazards and characteristics of hydrogen sulfide (H<sub>2</sub>S)
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H<sub>2</sub>S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

1. The effects of H<sub>2</sub>S metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
3. The contents and requirements of the H<sub>2</sub>S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H<sub>2</sub>S zone (within 3 days or 500 feet) and weekly H<sub>2</sub>S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H<sub>2</sub>S Drilling Operations Plan and the Public Protection Plan.

### **II. HYDROGEN SULFIDE TRAINING**

Note: All H<sub>2</sub>S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H<sub>2</sub>S.

**1. Well Control Equipment**

- A. Flare line
- B. Choke manifold – Remotely Operated
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- D. Auxiliary equipment may include if applicable: annular preventer and rotating head.
- E. Mud/Gas Separator

**2. Protective equipment for essential personnel:**

30-minute SCBA units located at briefing areas, as indicated on well site diagram, with escape units available in the top doghouse. As it may be difficult to communicate audibly while wearing these units, hand signals shall be utilized.

**3. H<sub>2</sub>S detection and monitoring equipment:**

Portable H<sub>2</sub>S monitors positioned on location for best coverage and response. These units have warning lights which activate when H<sub>2</sub>S levels reach 10 ppm and audible sirens which activate at 15 ppm. Sensor locations:

- Bell nipple
- Possum Belly/Shale shaker
- Rig floor
- Choke manifold
- Cellar

**Visual warning systems:**

- A. Wind direction indicators as shown on well site diagram
- B. Caution/ Danger signs shall be posted on roads providing direct access to locations. Signs will be painted a high visibility yellow with black lettering of sufficient size to be reasonable distance from the immediate location. Bilingual signs will be used when appropriate.



**4. Mud program:**

The mud program has been designed to minimize the volume of H<sub>2</sub>S circulated to surface. Proper mud weight, safe drilling practices and the use of H<sub>2</sub>S scavengers will minimize hazards when penetrating H<sub>2</sub>S bearing zones.

**5. Metallurgy:**

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H<sub>2</sub>S trim.
- B. All elastomers used for packing and seals shall be H<sub>2</sub>S trim.

**6. Communication:**

- A. Company personnel have/use cellular telephones in the field.
- B. Land line (telephone) communications at Office

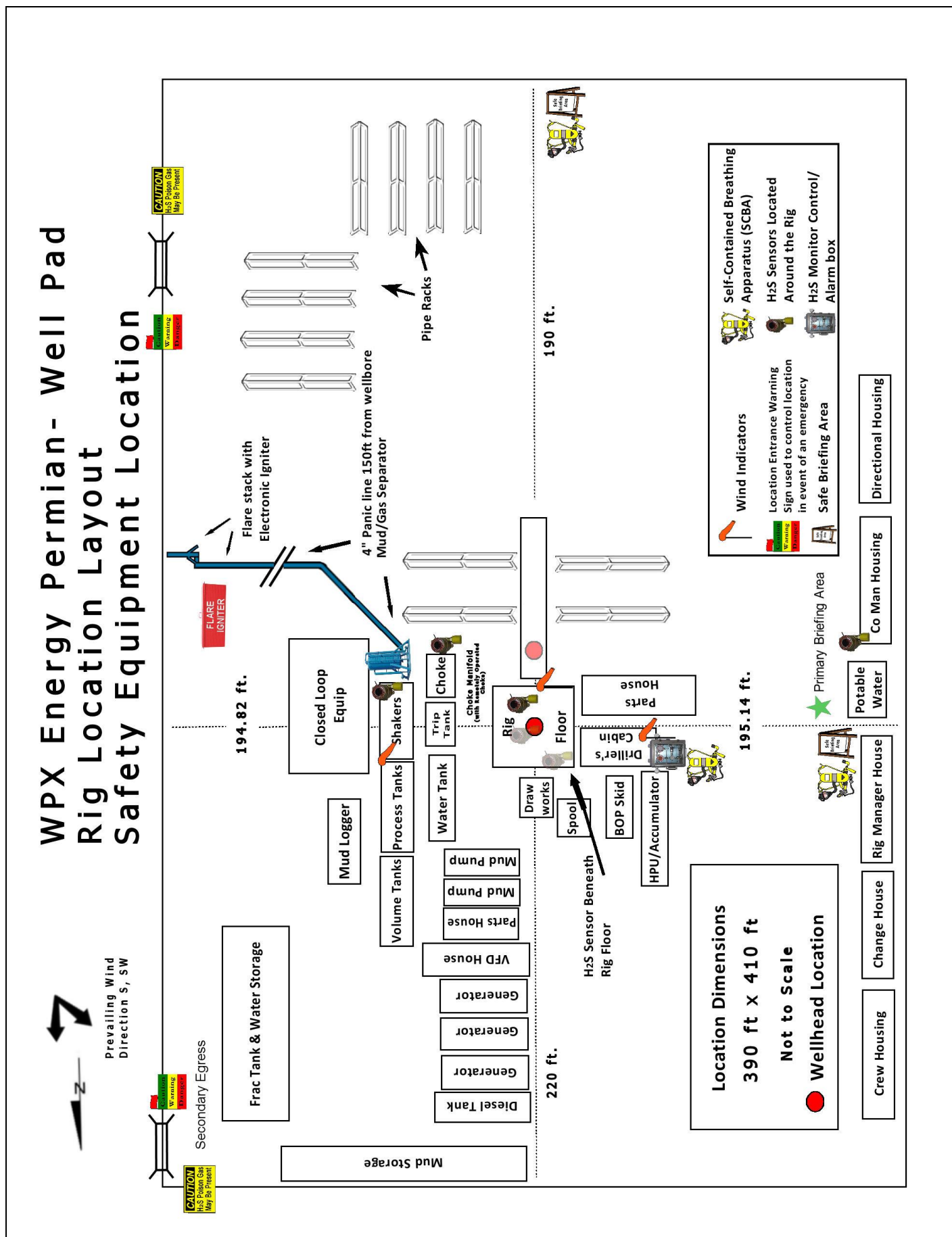
**7. Well testing:**

- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H<sub>2</sub>S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

<b><u>WPX Energy Permian. Company Call List</u></b>		
Drilling Supervisor – Keith Jordan		601-431-3739
Ian Ensell		719-761-2440
EHS Professional – Laura Wright		405-439-8129
<b><u>Agency Call List</u></b>		
<b><u>Lea County (575)</u></b>	<b>Hobbs</b>	
	Lea County Communication Authority	393-3981
	State Police	392-5588
	City Police	397-9265
	Sheriff's Office	393-2515
	<b>Ambulance</b>	<b>911</b>
	Fire Department	397-9308
	LEPC (Local Emergency Planning Committee)	393-2870
	NMOCD	393-6161
	US Bureau of Land Management	393-3612
<b><u>Eddy County (575)</u></b>	<b>Carlsbad</b>	
	State Police	885-3137
	City Police	885-2111
	Sheriff's Office	887-7551
	<b>Ambulance</b>	<b>911</b>
	Fire Department	885-3125
	LEPC (Local Emergency Planning Committee)	887-3798
	US Bureau of Land Management	887-6544
	NM Emergency Response Commission (Santa Fe)	(505) 476-9600
	24 HR	(505) 827-9126
	National Emergency Response Center	(800) 424-8802
	National Pollution Control Center: Direct	(703) 872-6000
	For Oil Spills	(800) 280-7118
	<b>Emergency Services</b>	
	Wild Well Control	(281) 784-4700
	Cudd Pressure Control	(915) 699-0139 (915) 563-3356
	Halliburton	(575) 746-2757
	B. J. Services	(575) 746-3569
<b><u>Give GPS position:</u></b>	Native Air – Emergency Helicopter – Hobbs (TX & NM)	(800) 642-7828
	Flight For Life - Lubbock, TX	(806) 743-9911
	Aerocare - Lubbock, TX	(806) 747-8923
	Med Flight Air Amb - Albuquerque, NM	(575) 842-4433
	Lifeguard Air Med Svc. Albuquerque, NM	(800) 222-1222
	Poison Control (24/7)	(575) 272-3115
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366
	NOAA – Website - <a href="http://www.nhc.noaa.gov">www.nhc.noaa.gov</a>	

Prepared in conjunction with  
Dave Small





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

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

CONDITIONS  
  
Action 328866

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:
	246289
	Action Number:
	328866
Action Type:	
[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)	

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	4/22/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	4/22/2024
ward.rikala	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	4/22/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	4/22/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	4/22/2024
ward.rikala	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	4/22/2024