

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 type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No.
1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. 30-015-54962
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

- | | |
|---|---|
| <ul style="list-style-type: none"> 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | <ul style="list-style-type: none"> 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the BLM. |
|---|---|

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

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

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



(Continued on page 2)

*(Instructions on page 2)

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

¹ API Number 30-015-54962		² Pool Code 98220		³ Pool Name PURPLE SAGE WOLFCAMP GAS POOL			
⁴ Property Code 335744		⁵ Property Name RETRIEVER 35-22-28 FED COM				⁶ Well Number 401H	
⁷ OGRID No. 246289		⁸ Operator Name WPX ENERGY PERMIAN, LLC				⁹ Elevation 3084.03'	

¹⁰ Surface Location

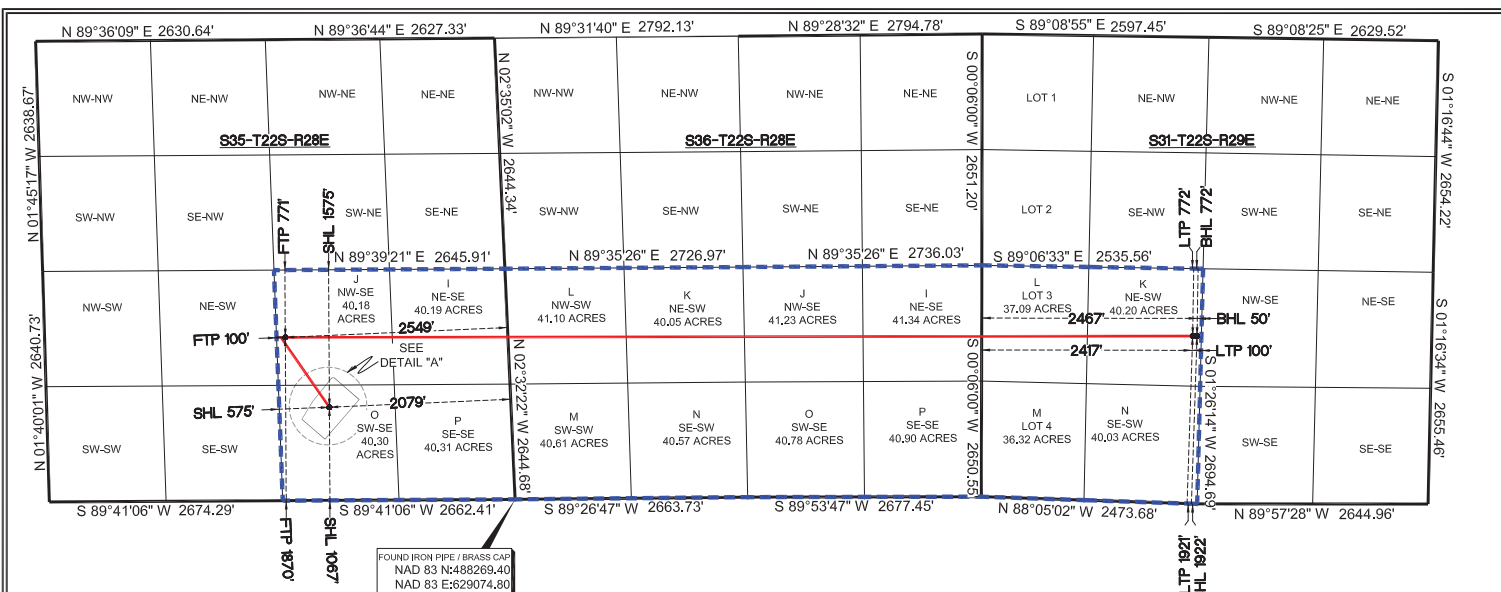
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	35	22 S	28 E		1067'	SOUTH	2079'	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	31	22 S	29 E		1922'	SOUTH	2467'	WEST	EDDY

¹² Dedicated Acres 633.85	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

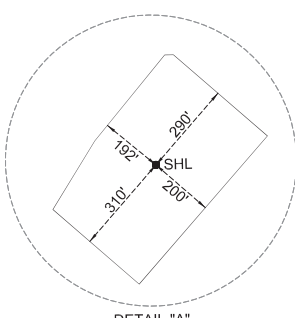


SURFACE HOLE LOCATION
LEASE LINE - 1067' FSL - 575' FWL
SECTION LINE - 1067' FSL - 2079' FEL
NEW MEXICO EAST-NAD 27
LAT: 32.344798 X: 585764.24
LON: -104.055625 Y: 489264.73
NEW MEXICO EAST-NAD 83
LAT: 32.344920 X: 626946.66
LON: -104.056122 Y: 489324.47

FIRST TAKE POINT
LEASE LINE - 771' FNL - 100' FWL
SECTION LINE - 1870' FSL - 2549' FEL
NEW MEXICO EAST-NAD 27
LAT: 32.347002 X: 585258.81
LON: -104.057255 Y: 490065.19
NEW MEXICO EAST-NAD 83
LAT: 32.347124 X: 626441.21
LON: -104.057752 Y: 490124.95

LAST TAKE POINT
LEASE LINE - 772' FNL - 100' FEL
SECTION LINE - 1921' FSL - 2417' FWL
NEW MEXICO EAST-NAD 27
LAT: 32.346967 X: 595653.84
LON: -104.023595 Y: 490080.65
NEW MEXICO EAST-NAD 83
LAT: 32.347088 X: 636836.37
LON: -104.024091 Y: 490140.53

BOTTOM HOLE LOCATION
LEASE LINE - 772' FNL - 50' FEL
SECTION LINE - 1922' FSL - 2467' FWL
NEW MEXICO EAST-NAD 27
LAT: 32.346966 X: 595703.86
LON: -104.023433 Y: 490080.73
NEW MEXICO EAST-NAD 83
LAT: 32.347088 X: 636886.39
LON: -104.023929 Y: 490140.61



NOTE: "Dedicated Acres" shown above is from the U.S. G.L.O. Original Survey as recorded August 05, 1944. Measured acreage may vary.

" OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.
Dana Thompson 9/26/19
Signature Date
Dana Thompson
Printed Name Date
dana.thompson@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.
GARY WALKER
NEW MEXICO
25036
Date of Survey
Signature and Seal of Professional Surveyor
9/20/19
Certificate Number

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:
Retriever 35-22-28 Fed Com 401H		35-22S-28E	1067	FSL	2079	FEL	(+/-) 1563	(+/-) 7190	(+/-) 8597	Retriever Pad 1
Retriever 35-22-28 Fed Com 402H		35-22S-28E	1044	FSL	2432	FWL	(+/-) 1563	(+/-) 7190	(+/-) 8597	Retriever 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
Retriever 35-22-28 Fed Com 401H		5/1/2023	5/31/2023	9/28/2023	9/28/2023	9/28/2023
Retriever 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
OIL CONSERVATION DIVISION (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 Retriever 35-22-28 FED COM 401H
 Location Surface: 1067 FSL 2079 FEL, Sec 35 T22S R28E S35
 Bottom Hole: 1922 FSL 2467 FWL Sec 31 T22S R29E S31
 County/State Eddy, NM

The elevation of the unprepared ground is 3,084 feet above sea level.

The geologic name of the surface formation is Quaternary

A rotary rig will be utilized to drill the well to 20080' 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 20,080 feet MD.

1) Estimated Tops:

Formation Name	MD	TVD	Bearing	BHP (psi)	MASP (psi)
Quaternary	0	0	Water		
Bell Canyon	2,799	2,798	Oil/Gas		
Cherry Canyon	3,801	3,786	Oil/Gas		
Brushy Canyon	4,852	4,821	Oil/Gas		
Bone Spring 1st	7,372	7,303	Oil/Gas		
Bone Spring 2nd	8,140	8,059	Oil/Gas		
Bone Spring 3rd	9,404	9,320	Oil/Gas		
KOP	9,258	9,175	Oil/Gas		
Wolfcamp	9,738	9,601	Oil/Gas		
Landing Point (Wolfcamp)	10,158	9,748	Oil/Gas		
TD	20,080	9,748	Oil/Gas	6,336	4,192

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 anchored. In the event the specific hose is not available, one of equal or higher rating will be used.

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	2,730	9-5/8"	40.0	J-55	BT&C
Int_2	8-3/4"	0	10,158	9,748	7"	29.0	VAXP P-110	BT&C
Liner	6-1/8"	9,258	20,080	9,748	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	2.63	6.45	3.58
Liner	2.49	5.79	3.03

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 _{Ann} (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 _{Ann} (cuft/ft)	Prev Csg ID	Cap _{Csg-Csg} (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 BWOW 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 _{Ann} (cuft/ft)	Prev Csg ID	Cap _{Csg-Csg} (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
	9258	2730	981		30%			
Tail	10158	9258	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 _{Ann} (cuft/ft)	Prev Csg ID	Cap _{Csg-Csg} (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	10158	9258	88	1.25	0%	968	14.2	Class H + 50% Poz + 0.15 BWOB Sodium Metasilicate + 0.15 BWOB Retarder + 0.30 BWOB Fluid Loss + 2.0 BWOB Bentonite
	20080	10158	934		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"	10,158	8.9 to 9.4	28 to 36	1 - 3	1 - 3	NC	Cut Brine
Liner	6-1/8"	20,080	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 6336 psi at 9748' 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 H2S to meet the BLM's minimum requirements for the submission of an "H2S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. However, since WPX Energy Permian, LLC has an H2S safety package on all wells, an "H2S 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.

Operator Name: WPX ENERGY PERMIAN LLC

Well Name: RETRIEVER 35-22-28 FED COM

Well Number: 401H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
EXIT Leg #1	1922	FSL	2467	FWL	22S	29E	31	Aliquot NWSE	32.346966	-104.023929	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 061349	-6664	20079	9748	Y
BHL Leg #1	1922	FSL	2467	FWL	22S	29E	31	Aliquot NWSE	32.346966	-104.023929	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 061349	-6664	20079	9748	Y

Drilling Plan

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
863760	UNKNOWN	303	0	0	ALLUVIUM	USEABLE WATER	N
863761	BELL CANYON	-2496	2799	2800	SANDSTONE, SHALE	NATURAL GAS, OIL	N
863762	CHERRY CANYON	-3484	3787	3802	SANDSTONE, SHALE	NATURAL GAS, OIL	N
863763	BRUSHY CANYON	-4519	4822	4853	SANDSTONE, SHALE	NATURAL GAS, OIL	N
863764	BONE SPRING 1ST	-7001	7304	7373	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
863765	BONE SPRING 2ND	-7757	8060	8141	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
863766	BONE SPRING 3RD	-9018	9321	9405	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
863767	WOLFCAMP	-9446	9749	20081	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

WPX Energy
Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well Retriever 35-22-28 Fed Com 401H
Company:	WPX Energy Permian, LLC	TVD Reference:	GL:3084.03+26.50ft @ 3110.53usft (H&P 600)
Project:	Eddy NM	MD Reference:	GL:3084.03+26.50ft @ 3110.53usft (H&P 600)
Site:	Golden / Retriever Pad	North Reference:	Grid
Well:	Retriever 35-22-28 Fed Com 401H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1(1921'FSL)_WC Y_H&P600		

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	Latitude:	32.352342
From:	Map	Easting:	626,304.00 usft	Longitude:	-104.058181
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.15 °

Well	Retriever 35-22-28 Fed Com 401H					
Well Position	+N/-S	0.00 usft	Northing:	489,324.47 usft	Latitude:	32.344920
	+E/-W	0.00 usft	Easting:	626,946.66 usft	Longitude:	-104.056122
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,084.03 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.98	60.27	48,813.77495913

Design	Plan 1(1921'FSL)_WC Y_H&P600			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (bearing)
	0.00	0.00	0.00	89.91

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
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	
3,000.04	10.00	325.27	2,997.51	35.77	-24.80	2.00	2.00	0.00	325.27	
8,107.64	10.00	325.27	8,027.49	764.71	-530.20	0.00	0.00	0.00	0.00	
8,607.68	0.00	0.00	8,525.00	800.48	-555.00	2.00	-2.00	0.00	180.00	
9,257.72	0.00	0.00	9,175.04	800.48	-555.00	0.00	0.00	0.00	0.00	
10,157.72	90.00	89.91	9,748.00	801.33	17.96	10.00	10.00	0.00	89.91	
20,029.49	90.00	89.91	9,748.00	816.06	9,889.71	0.00	0.00	0.00	0.00	
20,079.51	90.00	89.91	9,748.00	816.13	9,939.73	0.00	0.00	0.00	0.00	BHL (Retriever 401H)

WPX Energy Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well Retriever 35-22-28 Fed Com 401H
Company:	WPX Energy Permian, LLC	TVD Reference:	GL:3084.03+26.50ft @ 3110.53usft (H&P 600)
Project:	Eddy NM	MD Reference:	GL:3084.03+26.50ft @ 3110.53usft (H&P 600)
Site:	Golden / Retriever Pad	North Reference:	Grid
Well:	Retriever 35-22-28 Fed Com 401H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1(1921'FSL)_WC Y_H&P600		

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	489,324.47	626,946.66	32.344920	-104.056122	
100.00	0.00	0.00	100.00	0.00	0.00	489,324.47	626,946.66	32.344920	-104.056122	
200.00	0.00	0.00	200.00	0.00	0.00	489,324.47	626,946.66	32.344920	-104.056122	
300.00	0.00	0.00	300.00	0.00	0.00	489,324.47	626,946.66	32.344920	-104.056122	
400.00	0.00	0.00	400.00	0.00	0.00	489,324.47	626,946.66	32.344920	-104.056122	
500.00	0.00	0.00	500.00	0.00	0.00	489,324.47	626,946.66	32.344920	-104.056122	
531.00	0.00	0.00	531.00	0.00	0.00	489,324.47	626,946.66	32.344920	-104.056122	
Salado										
600.00	0.00	0.00	600.00	0.00	0.00	489,324.47	626,946.66	32.344920	-104.056122	
700.00	0.00	0.00	700.00	0.00	0.00	489,324.47	626,946.66	32.344920	-104.056122	
800.00	0.00	0.00	800.00	0.00	0.00	489,324.47	626,946.66	32.344920	-104.056122	
900.00	0.00	0.00	900.00	0.00	0.00	489,324.47	626,946.66	32.344920	-104.056122	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	489,324.47	626,946.66	32.344920	-104.056122	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	489,324.47	626,946.66	32.344920	-104.056122	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	489,324.47	626,946.66	32.344920	-104.056122	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	489,324.47	626,946.66	32.344920	-104.056122	
1,340.00	0.00	0.00	1,340.00	0.00	0.00	489,324.47	626,946.66	32.344920	-104.056122	
Castile										
1,400.00	0.00	0.00	1,400.00	0.00	0.00	489,324.47	626,946.66	32.344920	-104.056122	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	489,324.47	626,946.66	32.344920	-104.056122	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	489,324.47	626,946.66	32.344920	-104.056122	
1,700.00	0.00	0.00	1,700.00	0.00	0.00	489,324.47	626,946.66	32.344920	-104.056122	
1,800.00	0.00	0.00	1,800.00	0.00	0.00	489,324.47	626,946.66	32.344920	-104.056122	
1,900.00	0.00	0.00	1,900.00	0.00	0.00	489,324.47	626,946.66	32.344920	-104.056122	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	489,324.47	626,946.66	32.344920	-104.056122	
2,100.00	0.00	0.00	2,100.00	0.00	0.00	489,324.47	626,946.66	32.344920	-104.056122	
2,200.00	0.00	0.00	2,200.00	0.00	0.00	489,324.47	626,946.66	32.344920	-104.056122	
2,300.00	0.00	0.00	2,300.00	0.00	0.00	489,324.47	626,946.66	32.344920	-104.056122	
2,400.00	0.00	0.00	2,400.00	0.00	0.00	489,324.47	626,946.66	32.344920	-104.056122	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	489,324.47	626,946.66	32.344920	-104.056122	
Start Nudge										
2,600.00	2.00	325.27	2,599.98	1.43	-0.99	489,325.91	626,945.67	32.344924	-104.056125	
2,700.00	4.00	325.27	2,699.84	5.73	-3.98	489,330.21	626,942.69	32.344935	-104.056135	
2,798.54	5.97	325.27	2,798.00	12.77	-8.86	489,337.24	626,937.81	32.344955	-104.056151	
Bell Canyon (Base of Salt)										
2,800.00	6.00	325.27	2,799.45	12.90	-8.94	489,337.37	626,937.72	32.344955	-104.056151	
2,900.00	8.00	325.27	2,898.70	22.91	-15.89	489,347.38	626,930.78	32.344983	-104.056173	
3,000.04	10.00	325.27	2,997.51	35.77	-24.80	489,360.24	626,921.86	32.345018	-104.056202	
Hold 10.00°										
3,100.00	10.00	325.27	3,095.95	50.04	-34.69	489,374.51	626,911.97	32.345057	-104.056234	
3,200.00	10.00	325.27	3,194.43	64.31	-44.59	489,388.78	626,902.08	32.345097	-104.056266	
3,300.00	10.00	325.27	3,292.91	78.58	-54.48	489,403.05	626,892.18	32.345136	-104.056298	
3,400.00	10.00	325.27	3,391.39	92.85	-64.38	489,417.32	626,882.29	32.345175	-104.056330	
3,500.00	10.00	325.27	3,489.87	107.12	-74.27	489,431.60	626,872.39	32.345215	-104.056362	
3,600.00	10.00	325.27	3,588.35	121.40	-84.17	489,445.87	626,862.50	32.345254	-104.056394	
3,700.00	10.00	325.27	3,686.83	135.67	-94.06	489,460.14	626,852.60	32.345293	-104.056426	
3,800.00	10.00	325.27	3,785.31	149.94	-103.96	489,474.41	626,842.71	32.345333	-104.056457	
3,800.70	10.00	325.27	3,786.00	150.04	-104.03	489,474.51	626,842.64	32.345333	-104.056458	
Cherry Canyon										
3,900.00	10.00	325.27	3,883.79	164.21	-113.85	489,488.68	626,832.81	32.345372	-104.056489	
4,000.00	10.00	325.27	3,982.27	178.48	-123.75	489,502.95	626,822.92	32.345411	-104.056521	
4,100.00	10.00	325.27	4,080.75	192.75	-133.64	489,517.23	626,813.02	32.345450	-104.056553	

WPX Energy
Planning Report - Geographic

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Company:	WPX Energy Permian, LLC	TVD Reference:	GL:3084.03+26.50ft @ 3110.53usft (H&P 600)
Project:	Eddy NM	MD Reference:	GL:3084.03+26.50ft @ 3110.53usft (H&P 600)
Site:	Golden / Retriever Pad	North Reference:	Grid
Well:	Retriever 35-22-28 Fed Com 401H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1(1921'FSL)_WC Y_H&P600		

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	
4,200.00	10.00	325.27	4,179.23	207.03	-143.54	489,531.50	626,803.13	32.345490	-104.056585	
4,300.00	10.00	325.27	4,277.71	221.30	-153.43	489,545.77	626,793.23	32.345529	-104.056617	
4,400.00	10.00	325.27	4,376.19	235.57	-163.33	489,560.04	626,783.34	32.345568	-104.056649	
4,500.00	10.00	325.27	4,474.67	249.84	-173.22	489,574.31	626,773.44	32.345608	-104.056681	
4,600.00	10.00	325.27	4,573.15	264.11	-183.12	489,588.58	626,763.55	32.345647	-104.056713	
4,700.00	10.00	325.27	4,671.63	278.38	-193.01	489,602.85	626,753.65	32.345686	-104.056745	
4,800.00	10.00	325.27	4,770.11	292.66	-202.91	489,617.13	626,743.76	32.345726	-104.056777	
4,851.67	10.00	325.27	4,821.00	300.03	-208.02	489,624.50	626,738.64	32.345746	-104.056793	
Brushy Canyon										
4,900.00	10.00	325.27	4,868.60	306.93	-212.80	489,631.40	626,733.86	32.345765	-104.056809	
5,000.00	10.00	325.27	4,967.08	321.20	-222.70	489,645.67	626,723.97	32.345804	-104.056840	
5,100.00	10.00	325.27	5,065.56	335.47	-232.59	489,659.94	626,714.07	32.345843	-104.056872	
5,200.00	10.00	325.27	5,164.04	349.74	-242.49	489,674.21	626,704.18	32.345883	-104.056904	
5,300.00	10.00	325.27	5,262.52	364.01	-252.38	489,688.48	626,694.28	32.345922	-104.056936	
5,400.00	10.00	325.27	5,361.00	378.28	-262.28	489,702.76	626,684.39	32.345961	-104.056968	
5,500.00	10.00	325.27	5,459.48	392.56	-272.17	489,717.03	626,674.49	32.346001	-104.057000	
5,600.00	10.00	325.27	5,557.96	406.83	-282.07	489,731.30	626,664.60	32.346040	-104.057032	
5,700.00	10.00	325.27	5,656.44	421.10	-291.96	489,745.57	626,654.70	32.346079	-104.057064	
5,800.00	10.00	325.27	5,754.92	435.37	-301.86	489,759.84	626,644.81	32.346119	-104.057096	
5,900.00	10.00	325.27	5,853.40	449.64	-311.75	489,774.11	626,634.91	32.346158	-104.057128	
6,000.00	10.00	325.27	5,951.88	463.91	-321.65	489,788.39	626,625.02	32.346197	-104.057160	
6,100.00	10.00	325.27	6,050.36	478.19	-331.54	489,802.66	626,615.12	32.346236	-104.057192	
6,200.00	10.00	325.27	6,148.84	492.46	-341.44	489,816.93	626,605.23	32.346276	-104.057224	
6,300.00	10.00	325.27	6,247.32	506.73	-351.33	489,831.20	626,595.33	32.346315	-104.057255	
6,351.46	10.00	325.27	6,298.00	514.07	-356.42	489,838.54	626,590.24	32.346335	-104.057272	
Bone Spring										
6,400.00	10.00	325.27	6,345.80	521.00	-361.23	489,845.47	626,585.44	32.346354	-104.057287	
6,500.00	10.00	325.27	6,444.28	535.27	-371.12	489,859.74	626,575.54	32.346394	-104.057319	
6,600.00	10.00	325.27	6,542.76	549.54	-381.02	489,874.01	626,565.65	32.346433	-104.057351	
6,700.00	10.00	325.27	6,641.24	563.82	-390.91	489,888.29	626,555.75	32.346472	-104.057383	
6,800.00	10.00	325.27	6,739.73	578.09	-400.81	489,902.56	626,545.86	32.346512	-104.057415	
6,900.00	10.00	325.27	6,838.21	592.36	-410.70	489,916.83	626,535.96	32.346551	-104.057447	
7,000.00	10.00	325.27	6,936.69	606.63	-420.60	489,931.10	626,526.07	32.346590	-104.057479	
7,005.40	10.00	325.27	6,942.00	607.40	-421.13	489,931.87	626,525.53	32.346592	-104.057481	
Avalon										
7,100.00	10.00	325.27	7,035.17	620.90	-430.49	489,945.37	626,516.17	32.346629	-104.057511	
7,200.00	10.00	325.27	7,133.65	635.17	-440.39	489,959.64	626,506.28	32.346669	-104.057543	
7,300.00	10.00	325.27	7,232.13	649.44	-450.28	489,973.92	626,496.38	32.346708	-104.057575	
7,371.97	10.00	325.27	7,303.00	659.72	-457.40	489,984.19	626,489.26	32.346736	-104.057598	
1st Bone Spring Sand										
7,400.00	10.00	325.27	7,330.61	663.72	-460.18	489,988.19	626,486.49	32.346747	-104.057607	
7,500.00	10.00	325.27	7,429.09	677.99	-470.07	490,002.46	626,476.59	32.346787	-104.057639	
7,600.00	10.00	325.27	7,527.57	692.26	-479.97	490,016.73	626,466.70	32.346826	-104.057670	
7,603.48	10.00	325.27	7,531.00	692.76	-480.31	490,017.23	626,466.35	32.346827	-104.057672	
2nd Bone Spring Lime										
7,700.00	10.00	325.27	7,626.05	706.53	-489.86	490,031.00	626,456.80	32.346865	-104.057702	
7,800.00	10.00	325.27	7,724.53	720.80	-499.76	490,045.27	626,446.91	32.346905	-104.057734	
7,900.00	10.00	325.27	7,823.01	735.07	-509.65	490,059.55	626,437.01	32.346944	-104.057766	
8,000.00	10.00	325.27	7,921.49	749.35	-519.55	490,073.82	626,427.12	32.346983	-104.057798	
8,107.64	10.00	325.27	8,027.49	764.71	-530.20	490,089.18	626,416.47	32.347025	-104.057833	
EOH										

WPX Energy
Planning Report - Geographic

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Company:	WPX Energy Permian, LLC	TVD Reference:	GL:3084.03+26.50ft @ 3110.53usft (H&P 600)
Project:	Eddy NM	MD Reference:	GL:3084.03+26.50ft @ 3110.53usft (H&P 600)
Site:	Golden / Retriever Pad	North Reference:	Grid
Well:	Retriever 35-22-28 Fed Com 401H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1(1921'FSL)_WC Y_H&P600		

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
8,139.60	9.36	325.27	8,059.00	769.12	-533.26	490,093.60	626,413.40	32.347038	-104.057842
2nd Bone Spring Sand									
8,200.00	8.15	325.27	8,118.70	776.68	-538.50	490,101.15	626,408.16	32.347058	-104.057859
8,300.00	6.15	325.27	8,217.91	786.91	-545.59	490,111.39	626,401.07	32.347087	-104.057882
8,400.00	4.15	325.27	8,317.50	794.30	-550.71	490,118.77	626,395.95	32.347107	-104.057899
8,500.00	2.15	325.27	8,417.35	798.82	-553.85	490,123.29	626,392.82	32.347119	-104.057909
8,510.66	1.94	325.27	8,428.00	799.13	-554.06	490,123.60	626,392.60	32.347120	-104.057910
3rd Bone Spring Lime									
8,607.68	0.00	0.00	8,525.00	800.48	-555.00	490,124.95	626,391.66	32.347124	-104.057913
Vertical									
8,700.00	0.00	0.00	8,617.32	800.48	-555.00	490,124.95	626,391.66	32.347124	-104.057913
8,800.00	0.00	0.00	8,717.32	800.48	-555.00	490,124.95	626,391.66	32.347124	-104.057913
8,900.00	0.00	0.00	8,817.32	800.48	-555.00	490,124.95	626,391.66	32.347124	-104.057913
9,000.00	0.00	0.00	8,917.32	800.48	-555.00	490,124.95	626,391.66	32.347124	-104.057913
9,100.00	0.00	0.00	9,017.32	800.48	-555.00	490,124.95	626,391.66	32.347124	-104.057913
9,200.00	0.00	0.00	9,117.32	800.48	-555.00	490,124.95	626,391.66	32.347124	-104.057913
9,257.72	0.00	0.00	9,175.04	800.48	-555.00	490,124.95	626,391.66	32.347124	-104.057913
KOP @9257.72'MD									
9,300.00	4.23	89.91	9,217.28	800.48	-553.44	490,124.95	626,393.22	32.347124	-104.057907
9,350.00	9.23	89.91	9,266.92	800.49	-547.59	490,124.96	626,399.08	32.347124	-104.057889
9,400.00	14.23	89.91	9,315.86	800.51	-537.43	490,124.98	626,409.24	32.347124	-104.057856
9,404.27	14.66	89.91	9,320.00	800.51	-536.36	490,124.98	626,410.30	32.347124	-104.057852
3rd Bone Spring Sand									
9,450.00	19.23	89.91	9,363.73	800.53	-523.04	490,125.00	626,423.63	32.347124	-104.057809
9,500.00	24.23	89.91	9,410.16	800.56	-504.53	490,125.03	626,442.13	32.347124	-104.057749
9,550.00	29.23	89.91	9,454.81	800.59	-482.05	490,125.06	626,464.61	32.347124	-104.057676
9,600.00	34.23	89.91	9,497.32	800.63	-455.77	490,125.10	626,490.90	32.347124	-104.057591
9,650.00	39.23	89.91	9,537.38	800.67	-425.88	490,125.14	626,520.79	32.347124	-104.057494
9,700.00	44.23	89.91	9,574.69	800.72	-392.61	490,125.19	626,554.06	32.347123	-104.057387
9,737.97	48.02	89.91	9,601.00	800.76	-365.24	490,125.23	626,581.42	32.347123	-104.057298
Wolfcamp Top									
9,750.00	49.23	89.91	9,608.95	800.78	-356.21	490,125.25	626,590.45	32.347123	-104.057269
9,781.74	52.40	89.91	9,629.00	800.81	-331.62	490,125.28	626,615.05	32.347123	-104.057189
WC_X									
9,800.00	54.23	89.91	9,639.91	800.84	-316.97	490,125.31	626,629.69	32.347123	-104.057142
9,850.00	59.23	89.91	9,667.33	800.90	-275.18	490,125.37	626,671.48	32.347123	-104.057006
9,900.00	64.23	89.91	9,691.01	800.96	-231.16	490,125.43	626,715.50	32.347123	-104.056864
9,950.00	69.23	89.91	9,710.76	801.03	-185.24	490,125.50	626,761.42	32.347123	-104.056715
9,991.30	73.36	89.91	9,724.00	801.09	-146.13	490,125.56	626,800.53	32.347123	-104.056589
WC_Y									
10,000.00	74.23	89.91	9,726.43	801.10	-137.78	490,125.57	626,808.88	32.347123	-104.056562
10,035.44	77.77	89.91	9,735.00	801.15	-103.40	490,125.62	626,843.26	32.347123	-104.056450
Top Target									
10,050.00	79.23	89.91	9,737.90	801.17	-89.13	490,125.65	626,857.53	32.347123	-104.056404
10,100.00	84.23	89.91	9,745.10	801.25	-39.67	490,125.72	626,907.00	32.347122	-104.056244
10,150.00	89.23	89.91	9,747.95	801.32	10.24	490,125.79	626,956.90	32.347122	-104.056082
10,157.72	90.00	89.91	9,748.00	801.33	17.96	490,125.81	626,964.62	32.347122	-104.056057
Landing Point @10157.72'MD - Landing Point									
10,200.00	90.00	89.91	9,748.00	801.40	60.24	490,125.87	627,006.90	32.347122	-104.055920
10,300.00	90.00	89.91	9,748.00	801.55	160.24	490,126.02	627,106.90	32.347122	-104.055596
10,400.00	90.00	89.91	9,748.00	801.70	260.23	490,126.17	627,206.90	32.347121	-104.055273

WPX Energy
Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well Retriever 35-22-28 Fed Com 401H
Company:	WPX Energy Permian, LLC	TVD Reference:	GL:3084.03+26.50ft @ 3110.53usft (H&P 600)
Project:	Eddy NM	MD Reference:	GL:3084.03+26.50ft @ 3110.53usft (H&P 600)
Site:	Golden / Retriever Pad	North Reference:	Grid
Well:	Retriever 35-22-28 Fed Com 401H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1(1921'FSL)_WC Y_H&P600		

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
10,500.00	90.00	89.91	9,748.00	801.85	360.23	490,126.32	627,306.90	32.347121	-104.054949
10,600.00	90.00	89.91	9,748.00	801.99	460.23	490,126.47	627,406.90	32.347121	-104.054625
10,700.00	90.00	89.91	9,748.00	802.14	560.23	490,126.61	627,506.90	32.347121	-104.054301
10,800.00	90.00	89.91	9,748.00	802.29	660.23	490,126.76	627,606.90	32.347120	-104.053977
10,900.00	90.00	89.91	9,748.00	802.44	760.23	490,126.91	627,706.90	32.347120	-104.053654
11,000.00	90.00	89.91	9,748.00	802.59	860.23	490,127.06	627,806.90	32.347120	-104.053330
11,100.00	90.00	89.91	9,748.00	802.74	960.23	490,127.21	627,906.90	32.347119	-104.053006
11,200.00	90.00	89.91	9,748.00	802.89	1,060.23	490,127.36	628,006.90	32.347119	-104.052682
11,300.00	90.00	89.91	9,748.00	803.04	1,160.23	490,127.51	628,106.90	32.347119	-104.052358
11,400.00	90.00	89.91	9,748.00	803.19	1,260.23	490,127.66	628,206.90	32.347118	-104.052035
11,500.00	90.00	89.91	9,748.00	803.34	1,360.23	490,127.81	628,306.90	32.347118	-104.051711
11,600.00	90.00	89.91	9,748.00	803.49	1,460.23	490,127.96	628,406.90	32.347118	-104.051387
11,700.00	90.00	89.91	9,748.00	803.64	1,560.23	490,128.11	628,506.90	32.347117	-104.051063
11,800.00	90.00	89.91	9,748.00	803.78	1,660.23	490,128.26	628,606.90	32.347117	-104.050739
11,900.00	90.00	89.91	9,748.00	803.93	1,760.23	490,128.40	628,706.90	32.347117	-104.050415
12,000.00	90.00	89.91	9,748.00	804.08	1,860.23	490,128.55	628,806.90	32.347117	-104.050092
12,100.00	90.00	89.91	9,748.00	804.23	1,960.23	490,128.70	628,906.90	32.347116	-104.049768
12,200.00	90.00	89.91	9,748.00	804.38	2,060.23	490,128.85	629,006.90	32.347116	-104.049444
12,300.00	90.00	89.91	9,748.00	804.53	2,160.23	490,129.00	629,106.90	32.347116	-104.049120
12,400.00	90.00	89.91	9,748.00	804.68	2,260.23	490,129.15	629,206.90	32.347115	-104.048796
12,500.00	90.00	89.91	9,748.00	804.83	2,360.23	490,129.30	629,306.90	32.347115	-104.048473
12,600.00	90.00	89.91	9,748.00	804.98	2,460.23	490,129.45	629,406.90	32.347115	-104.048149
12,700.00	90.00	89.91	9,748.00	805.13	2,560.23	490,129.60	629,506.90	32.347114	-104.047825
12,800.00	90.00	89.91	9,748.00	805.28	2,660.23	490,129.75	629,606.90	32.347114	-104.047501
12,900.00	90.00	89.91	9,748.00	805.43	2,760.23	490,129.90	629,706.90	32.347114	-104.047177
13,000.00	90.00	89.91	9,748.00	805.57	2,860.23	490,130.05	629,806.90	32.347113	-104.046853
13,100.00	90.00	89.91	9,748.00	805.72	2,960.23	490,130.19	629,906.90	32.347113	-104.046530
13,200.00	90.00	89.91	9,748.00	805.87	3,060.23	490,130.34	630,006.90	32.347113	-104.046206
13,300.00	90.00	89.91	9,748.00	806.02	3,160.23	490,130.49	630,106.90	32.347112	-104.045882
13,400.00	90.00	89.91	9,748.00	806.17	3,260.23	490,130.64	630,206.90	32.347112	-104.045558
13,500.00	90.00	89.91	9,748.00	806.32	3,360.23	490,130.79	630,306.90	32.347112	-104.045234
13,600.00	90.00	89.91	9,748.00	806.47	3,460.23	490,130.94	630,406.90	32.347111	-104.044911
13,700.00	90.00	89.91	9,748.00	806.62	3,560.23	490,131.09	630,506.90	32.347111	-104.044587
13,800.00	90.00	89.91	9,748.00	806.77	3,660.23	490,131.24	630,606.90	32.347111	-104.044263
13,900.00	90.00	89.91	9,748.00	806.92	3,760.23	490,131.39	630,706.90	32.347110	-104.043939
14,000.00	90.00	89.91	9,748.00	807.07	3,860.23	490,131.54	630,806.90	32.347110	-104.043615
14,100.00	90.00	89.91	9,748.00	807.22	3,960.23	490,131.69	630,906.89	32.347110	-104.043291
14,200.00	90.00	89.91	9,748.00	807.36	4,060.23	490,131.84	631,006.89	32.347109	-104.042968
14,300.00	90.00	89.91	9,748.00	807.51	4,160.23	490,131.98	631,106.89	32.347109	-104.042644
14,400.00	90.00	89.91	9,748.00	807.66	4,260.23	490,132.13	631,206.89	32.347109	-104.042320
14,500.00	90.00	89.91	9,748.00	807.81	4,360.23	490,132.28	631,306.89	32.347108	-104.041996
14,600.00	90.00	89.91	9,748.00	807.96	4,460.23	490,132.43	631,406.89	32.347108	-104.041672
14,700.00	90.00	89.91	9,748.00	808.11	4,560.23	490,132.58	631,506.89	32.347108	-104.041349
14,800.00	90.00	89.91	9,748.00	808.26	4,660.23	490,132.73	631,606.89	32.347107	-104.041025
14,900.00	90.00	89.91	9,748.00	808.41	4,760.23	490,132.88	631,706.89	32.347107	-104.040701
15,000.00	90.00	89.91	9,748.00	808.56	4,860.23	490,133.03	631,806.89	32.347107	-104.040377
15,100.00	90.00	89.91	9,748.00	808.71	4,960.23	490,133.18	631,906.89	32.347106	-104.040053
15,200.00	90.00	89.91	9,748.00	808.86	5,060.23	490,133.33	632,006.89	32.347106	-104.039730
15,300.00	90.00	89.91	9,748.00	809.01	5,160.23	490,133.48	632,106.89	32.347106	-104.039406
15,400.00	90.00	89.91	9,748.00	809.15	5,260.23	490,133.63	632,206.89	32.347105	-104.039082
15,500.00	90.00	89.91	9,748.00	809.30	5,360.23	490,133.77	632,306.89	32.347105	-104.038758
15,600.00	90.00	89.91	9,748.00	809.45	5,460.23	490,133.92	632,406.89	32.347105	-104.038434
15,700.00	90.00	89.91	9,748.00	809.60	5,560.23	490,134.07	632,506.89	32.347104	-104.038110

WPX Energy
Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well Retriever 35-22-28 Fed Com 401H
Company:	WPX Energy Permian, LLC	TVD Reference:	GL:3084.03+26.50ft @ 3110.53usft (H&P 600)
Project:	Eddy NM	MD Reference:	GL:3084.03+26.50ft @ 3110.53usft (H&P 600)
Site:	Golden / Retriever Pad	North Reference:	Grid
Well:	Retriever 35-22-28 Fed Com 401H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1(1921'FSL)_WC Y_H&P600		

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	
15,800.00	90.00	89.91	9,748.00	809.75	5,660.23	490,134.22	632,606.89	32.347104	-104.037787	
15,900.00	90.00	89.91	9,748.00	809.90	5,760.23	490,134.37	632,706.89	32.347104	-104.037463	
16,000.00	90.00	89.91	9,748.00	810.05	5,860.23	490,134.52	632,806.89	32.347103	-104.037139	
16,100.00	90.00	89.91	9,748.00	810.20	5,960.23	490,134.67	632,906.89	32.347103	-104.036815	
16,200.00	90.00	89.91	9,748.00	810.35	6,060.23	490,134.82	633,006.89	32.347102	-104.036491	
16,300.00	90.00	89.91	9,748.00	810.50	6,160.23	490,134.97	633,106.89	32.347102	-104.036168	
16,400.00	90.00	89.91	9,748.00	810.65	6,260.23	490,135.12	633,206.89	32.347102	-104.035844	
16,500.00	90.00	89.91	9,748.00	810.80	6,360.23	490,135.27	633,306.89	32.347101	-104.035520	
16,600.00	90.00	89.91	9,748.00	810.94	6,460.23	490,135.42	633,406.89	32.347101	-104.035196	
16,700.00	90.00	89.91	9,748.00	811.09	6,560.23	490,135.56	633,506.89	32.347101	-104.034872	
16,800.00	90.00	89.91	9,748.00	811.24	6,660.23	490,135.71	633,606.89	32.347100	-104.034548	
16,900.00	90.00	89.91	9,748.00	811.39	6,760.23	490,135.86	633,706.89	32.347100	-104.034225	
17,000.00	90.00	89.91	9,748.00	811.54	6,860.23	490,136.01	633,806.89	32.347100	-104.033901	
17,100.00	90.00	89.91	9,748.00	811.69	6,960.23	490,136.16	633,906.89	32.347099	-104.033577	
17,200.00	90.00	89.91	9,748.00	811.84	7,060.23	490,136.31	634,006.89	32.347099	-104.033253	
17,300.00	90.00	89.91	9,748.00	811.99	7,160.23	490,136.46	634,106.89	32.347099	-104.032929	
17,400.00	90.00	89.91	9,748.00	812.14	7,260.23	490,136.61	634,206.89	32.347098	-104.032606	
17,500.00	90.00	89.91	9,748.00	812.29	7,360.23	490,136.76	634,306.89	32.347098	-104.032282	
17,600.00	90.00	89.91	9,748.00	812.44	7,460.23	490,136.91	634,406.89	32.347097	-104.031958	
17,700.00	90.00	89.91	9,748.00	812.59	7,560.23	490,137.06	634,506.89	32.347097	-104.031634	
17,800.00	90.00	89.91	9,748.00	812.73	7,660.23	490,137.21	634,606.89	32.347097	-104.031310	
17,900.00	90.00	89.91	9,748.00	812.88	7,760.23	490,137.35	634,706.89	32.347096	-104.030986	
18,000.00	90.00	89.91	9,748.00	813.03	7,860.23	490,137.50	634,806.89	32.347096	-104.030663	
18,100.00	90.00	89.91	9,748.00	813.18	7,960.23	490,137.65	634,906.89	32.347096	-104.030339	
18,200.00	90.00	89.91	9,748.00	813.33	8,060.23	490,137.80	635,006.89	32.347095	-104.030015	
18,300.00	90.00	89.91	9,748.00	813.48	8,160.23	490,137.95	635,106.89	32.347095	-104.029691	
18,400.00	90.00	89.91	9,748.00	813.63	8,260.23	490,138.10	635,206.89	32.347095	-104.029367	
18,500.00	90.00	89.91	9,748.00	813.78	8,360.23	490,138.25	635,306.89	32.347094	-104.029044	
18,600.00	90.00	89.91	9,748.00	813.93	8,460.23	490,138.40	635,406.89	32.347094	-104.028720	
18,700.00	90.00	89.91	9,748.00	814.08	8,560.23	490,138.55	635,506.89	32.347093	-104.028396	
18,800.00	90.00	89.91	9,748.00	814.23	8,660.23	490,138.70	635,606.89	32.347093	-104.028072	
18,900.00	90.00	89.91	9,748.00	814.38	8,760.23	490,138.85	635,706.89	32.347093	-104.027748	
19,000.00	90.00	89.91	9,748.00	814.52	8,860.23	490,139.00	635,806.89	32.347092	-104.027425	
19,100.00	90.00	89.91	9,748.00	814.67	8,960.23	490,139.14	635,906.89	32.347092	-104.027101	
19,200.00	90.00	89.91	9,748.00	814.82	9,060.23	490,139.29	636,006.89	32.347092	-104.026777	
19,300.00	90.00	89.91	9,748.00	814.97	9,160.23	490,139.44	636,106.89	32.347091	-104.026453	
19,400.00	90.00	89.91	9,748.00	815.12	9,260.23	490,139.59	636,206.89	32.347091	-104.026129	
19,500.00	90.00	89.91	9,748.00	815.27	9,360.23	490,139.74	636,306.89	32.347090	-104.025805	
19,600.00	90.00	89.91	9,748.00	815.42	9,460.22	490,139.89	636,406.89	32.347090	-104.025482	
19,700.00	90.00	89.91	9,748.00	815.57	9,560.22	490,140.04	636,506.89	32.347090	-104.025158	
19,800.00	90.00	89.91	9,748.00	815.72	9,660.22	490,140.19	636,606.89	32.347089	-104.024834	
19,900.00	90.00	89.91	9,748.00	815.87	9,760.22	490,140.34	636,706.89	32.347089	-104.024510	
20,000.00	90.00	89.91	9,748.00	816.02	9,860.22	490,140.49	636,806.89	32.347088	-104.024186	
20,029.49	90.00	89.91	9,748.00	816.06	9,889.71	490,140.53	636,836.37	32.347088	-104.024091	
LTP @20029.49'MD										
20,079.51	90.00	89.91	9,748.00	816.13	9,939.73	490,140.61	636,886.39	32.347088	-104.023929	
BHL @20079.51'MD										

WPX Energy
Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well Retriever 35-22-28 Fed Com 401H
Company:	WPX Energy Permian, LLC	TVD Reference:	GL:3084.03+26.50ft @ 3110.53usft (H&P 600)
Project:	Eddy NM	MD Reference:	GL:3084.03+26.50ft @ 3110.53usft (H&P 600)
Site:	Golden / Retriever Pad	North Reference:	Grid
Well:	Retriever 35-22-28 Fed Com 401H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1(1921'FSL)_WC Y_H&P600		

Design Targets										
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
- hit/miss target	(°)	(bearing)	(usft)	(usft)	(usft)	(usft)	(usft)			
- Shape										
FTP (Retriever 401H) 1E - plan misses target center by 946.70usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	800.48	-505.45	490,124.95	626,441.21	32.347124	-104.057752	
BHL (Retriever 401H) 1E - plan misses target center by 0.01usft at 20079.51usft MD (9748.00 TVD, 816.13 N, 9939.73 E) - Point	0.00	0.00	9,748.00	816.14	9,939.73	490,140.61	636,886.39	32.347088	-104.023929	
LTP (Retriever 401H) 19 - plan hits target center - Point	0.00	0.00	9,748.00	816.06	9,889.71	490,140.53	636,836.37	32.347088	-104.024091	

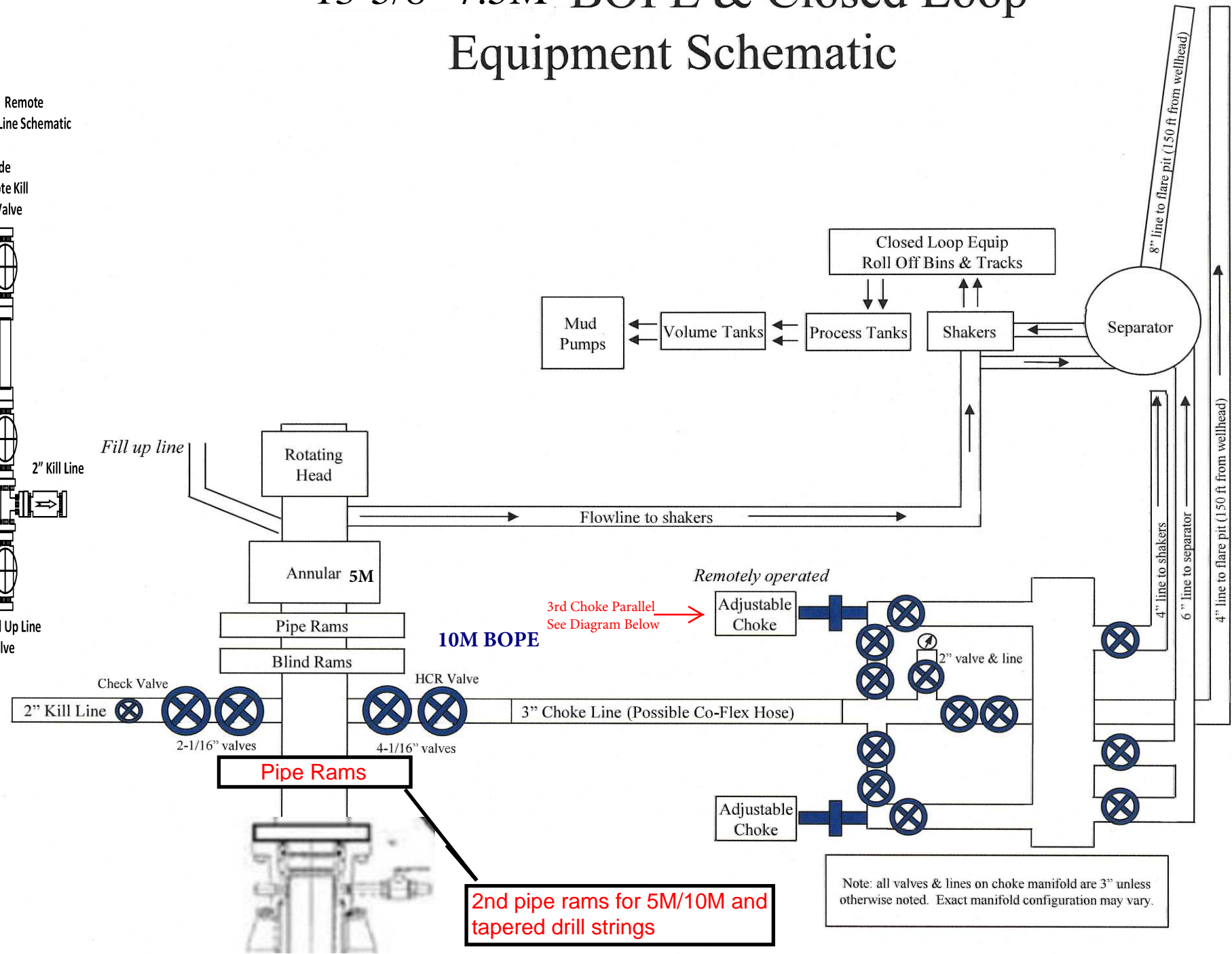
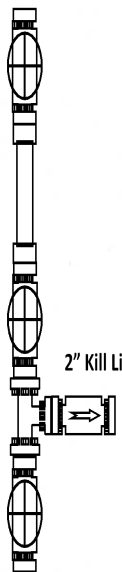
Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
531.00	531.00	Salado				
1,340.00	1,340.00	Castile				
2,798.54	2,798.00	Bell Canyon (Base of Salt)				
3,800.70	3,786.00	Cherry Canyon				
4,851.67	4,821.00	Brushy Canyon				
6,351.46	6,298.00	Bone Spring				
7,005.40	6,942.00	Avalon				
7,371.97	7,303.00	1st Bone Spring Sand				
7,603.48	7,531.00	2nd Bone Spring Lime				
8,139.60	8,059.00	2nd Bone Spring Sand				
8,510.66	8,428.00	3rd Bone Spring Lime				
9,404.27	9,320.00	3rd Bone Spring Sand				
9,737.97	9,601.00	Wolfcamp Top				
9,781.74	9,629.00	WC_X				
9,991.30	9,724.00	WC_Y				
10,035.44	9,735.00	Top Target				
10,157.72	9,748.00	Landing Point				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
2,500.00	2,500.00	0.00	0.00	Start Nudge	
3,000.04	2,997.51	35.77	-24.80	Hold 10.00°	
8,107.64	8,027.49	764.71	-530.20	EOH	
8,607.68	8,525.00	800.48	-555.00	Vertical	
9,257.72	9,175.04	800.48	-555.00	KOP @9257.72'MD	
10,157.72	9,748.00	801.33	17.96	Landing Point @10157.72'MD	
20,029.49	9,748.00	816.06	9,889.71	LTP @20029.49'MD	
20,079.51	9,748.00	816.13	9,939.73	BHL @20079.51'MD	

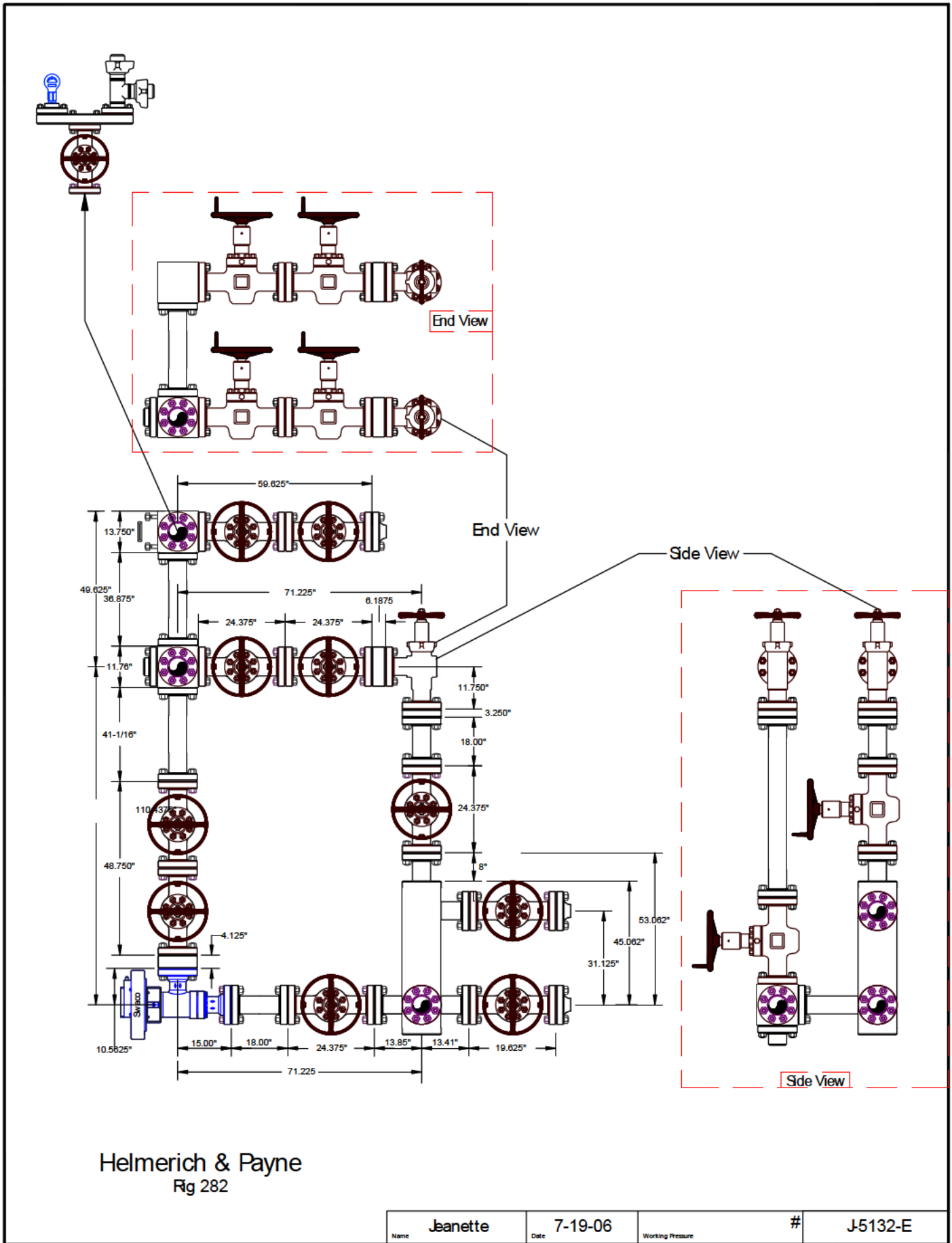
13-5/8" 7.5M BOPE & Closed Loop Equipment Schematic

10M Remote Kill Line Schematic

Outside Remote Kill Line Valve



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



CONTITECH RUBBER Industrial Kft.	No: QC-DB- 257 / 2018
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ContiTech

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE		CERT. N°: 735	
PURCHASER: Contitech Oil & Marine Corp.		P.O. N°: 4501120613	
CONTITECH RUBBER order N°: 1064135	HOSE TYPE: 3" ID Choke & Kill Hose		
HOSE SERIAL N°: 74907	NOMINAL / ACTUAL LENGTH: 10,67 m / 10,69 m		
W.P. 69,0 MPa 10000 psi	T.P. 103,5 MPa 15000 psi	Duration: 60 min.	
Pressure test with water at ambient temperature See attachment (1. page)			
COUPLINGS Type	Serial N°	Quality	Heat N°
3" coupling with 4 1/16" 10K API Swivel Flange and Hub	9719	AISI 4130	B42639
		AISI 4130	038272
		AISI 4130	52799
3" coupling with 4 1/16" 10K API b.w. Flange end	4155	AISI 4130	B42639
		AISI 4130	038721
Not Designed For Well Testing		API Spec 16 C 2nd Edition – FSL2	
		Temperature rate: "B"	
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 terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced STANDARDS, USULS and specifications and meet the relevant acceptance criteria and design requirements.			
Date: 05. July 2018.	Inspector	Quality Control ContiTech Rubber Industrial Kft. Quality Control Dept.	

INSPECTION AND TEST CERTIFICATE
 No: 730, 734, 735

CONTITECH RUBBER Industrial Kft.	No: QC-DB- 257 / 2018
	Page: 24 / 117

1/1

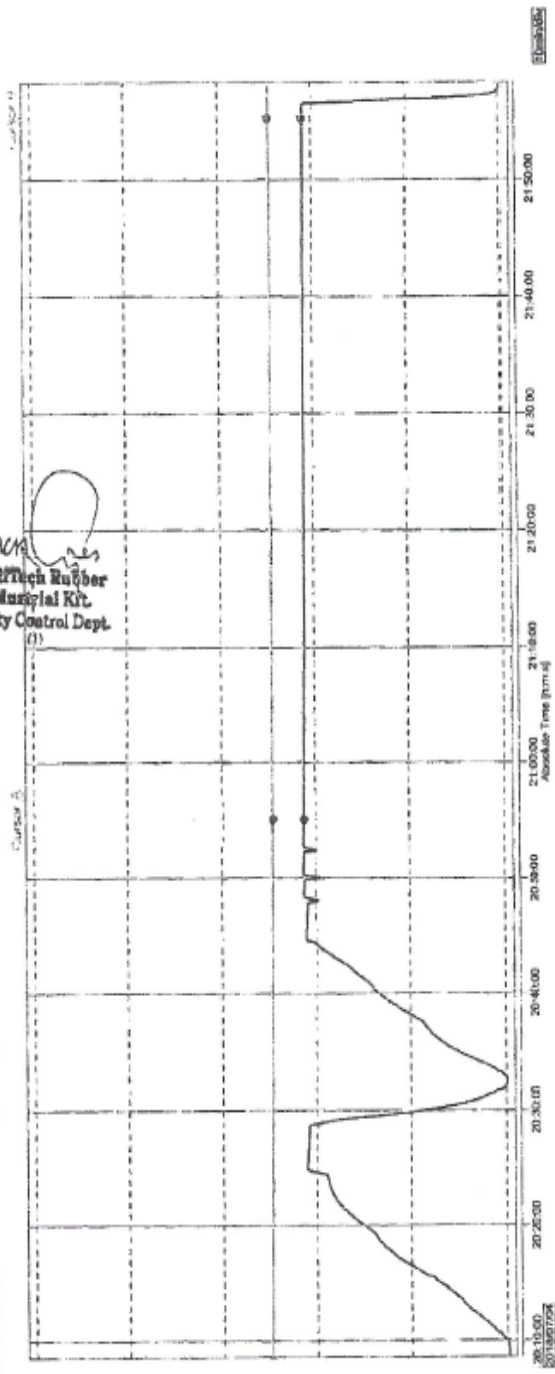
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 Start Time : 2018/07/04 20:06:40.000
 Stop Time : 2018/07/04 21:58:15.000

Sampling Int. : 5.000 sec
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 Stop Time : 2018/07/04 21:58:15.000

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 Serial No. : 068386
 Data Count : 1316
 Press-Temp : 2018/07/04 20:06:40.000 - 2018/07/04 21:58:15.000
 Print Range : 11080719E

	Cursor A	Cursor B	Difference
Date No.	599	1279	720
Absolute Time	2018/07/04 20:25:55.000	2018/07/04 21:58:15.000	01:00:00.000
Tap Comment	Value A	Value B	Value B-A
Pressure[bar]	1096.19	1050.96	-45.23
Ambient Temperature[°C]	24.65	24.70	0.05

Handwritten Signature
Contitech Rubber Industrial Kft.
 Quality Control Dept.



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	WPX Energy Permian LLC
LEASE NO.:	NMNM67980
WELL NAME & NO.:	Retriever 35-22-28 Federal Com 401H
SURFACE HOLE FOOTAGE:	1067'/S & 2079'/E
BOTTOM HOLE FOOTAGE:	1922'/S & 2467'/W
LOCATION:	Section 35, T.22 S., R.28 E., NMPM
COUNTY:	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 approximately **2,230 feet** is:

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

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 **9,258 feet** is:

- Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

**THE PRODUCTION LINER HAS AN EXCESS OF 19%.
ADDITIONAL CEMENT MAY BE NEEDED.**

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 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

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

B. PRESSURE CONTROL

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

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

YJ (09/23/2021)



WPX Energy Permian, LLC

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

Hydrogen Sulfide (H₂S) Contingency Plan

For

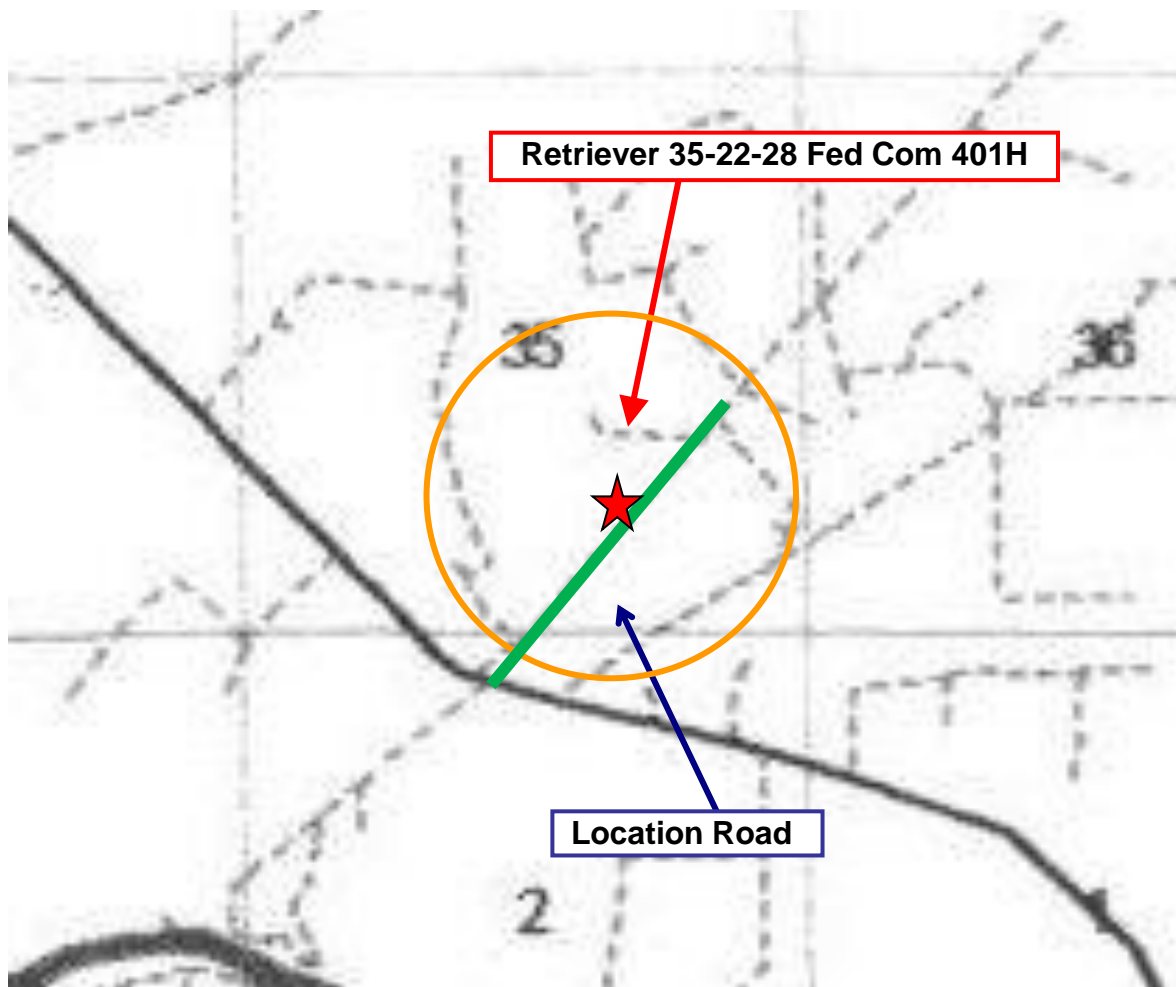
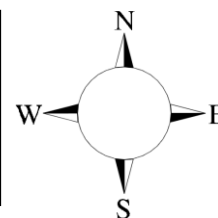
Retriever 35-22-28 Fed Com 401H

**Sec-35 T-22S R-28E
1067' FSL & 2079' FEL
LAT. = 32.344920' N (NAD83)
LONG = 104.056122' W**

Eddy County NM

Retriever 35-22-28 Fed Com 401H

This is an open drilling site. H₂S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H₂S, including warning signs, wind indicators and H₂S monitor.



Assumed 100 ppm ROE = 3000' (Radius of Exposure)
100 ppm H₂S 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 H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, 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 H₂S 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 H₂S, 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 (SO₂). 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 H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	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 (H₂S) 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 (H₂S)
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H₂S 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 H₂S 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 H₂S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan.

II. HYDROGEN SULFIDE TRAINING

Note: All H₂S 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 H₂S.

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. H₂S detection and monitoring equipment:

Portable H₂S monitors positioned on location for best coverage and response. These units have warning lights which activate when H₂S 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 H₂S circulated to surface. Proper mud weight, safe drilling practices and the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones.

5. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H₂S trim.
- B. All elastomers used for packing and seals shall be H₂S trim.

6. Communication:

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

7. Well testing:

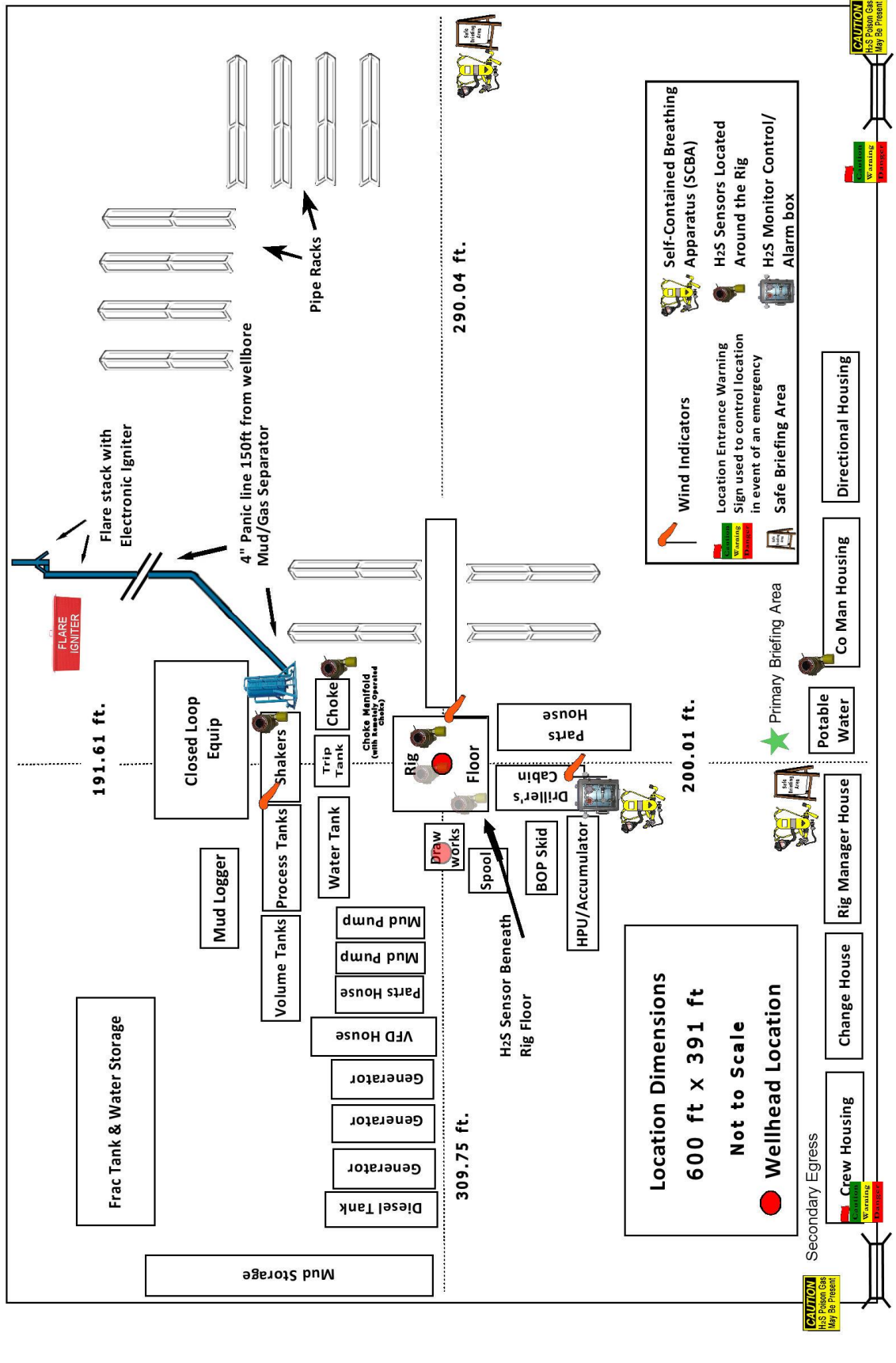
- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H₂S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

<u>WPX Energy Permian. Company Call List</u>		
Drilling Supervisor – Keith Jordan		601-431-3739
Ian Ensell		719-761-2440
EHS Professional – Laura Wright		405-439-8129
<u>Agency Call List</u>		
<u>Lea County (575)</u>	Hobbs	
	Lea County Communication Authority	393-3981
	State Police	392-5588
	City Police	397-9265
	Sheriff's Office	393-2515
	Ambulance	911
	Fire Department	397-9308
	LEPC (Local Emergency Planning Committee)	393-2870
	NMOCD	393-6161
	US Bureau of Land Management	393-3612
	<u>Eddy County (575)</u>	Carlsbad
State Police		885-3137
City Police		885-2111
Sheriff's Office		887-7551
Ambulance		911
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
Emergency Services		
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
<u>Give GPS position:</u>	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 - www.nhc.noaa.gov	

Prepared in conjunction with
Dave Small



WPX Energy Permian - Well Pad Rig Location Layout Safety Equipment Location



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 328874

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:	246289
	Action Number:	328874
	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