BURANDIMANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 1. Type of work: DRILL 1. Type of work: DRILL 1. Type of work: DRILL 1. Type of Well: OI Well 1. Type of Completion: Hydraulic Fracturing 2. Name of Operator 9. API Well Mon. 2. Name of Operator 9. API Well Mon. 2. Name of Operator 9. API Well Mon. 3. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Bik, and Survey or 14. Distance in miles and freetion from nearest town or post office* 12. County or Parish 13. State 15. Distance from proposed trig. 16. No of acres in lease 17. Spacing Unit dedicated to this well 16. No of acres in lease 17. Spacing Unit dedicated to this well 10. Field and Pool, or Exploratory 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file 13. State 19. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file 16. No of acres in lease 17. Spacing Unit dedicated to this well 13. State	Form 3160-3 (June 2015) UNITED STATI DEPARTMENT OF THE		FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018 5. Lease Serial No.						
1a. Type of work: DRILL DRENTER 1b. Type of Well: Oti Well Gas Well Other 1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone 2. Name of Operator 9. API Well No. 2. Name of Operator 9. API Well No. 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 4. Location of Well (Report location clearly and it accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or At surface At proposed prod. zone 10. Field and Pool, or Exploratory 13. State 15. Distance in miles and direction from nearest town or post office* 12. Countly or Parish 13. State 15. Distance from proposed location* 10. No of acres in lease 17. Spacing Unit dedicated to this well 16. No of acres in lease: 17. Spacing Unit dedicated to this well 10. Elevations (Show whether DF, KDB, RT, GL, etc.) 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 23. Signature 14. Bord to cover the operations unless covered by an existing bond on filtem 20 above). 5. Operator certification. 24. Attachments 14. Bord to cover the operations unless or everead by an existing bond on filtem 20 above). <t< td=""><td></td><td></td><td></td><td></td><td>5. Lease Serial No.</td><td></td><td></td></t<>					5. Lease Serial No.				
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applicant to conduct operations thereon. Conditions of approval, if any, are attached.	Title	Offic	e						
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 ag	applicant to conduct operations thereon.	ant holds legal	or equitable title to the	nose rights	in the subject lease which	ch would	l entitle the		
of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.						/ departr	nent or agency		
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(Continued on page 2)

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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 Nu		² Poo	ol Code				³ Pool Nar	ne							
3	80-015	-53581	98	3220			PURPL	E SAGE; WOL	FCAMP	CAMP (GAS) ⁶ Well Number 4H ⁹ Elevation 3282' East/West line County EAST EDDY						
	rty Code			⁵ Property Name												
33383	39			FEW	16 21 F	ED STATE CO	OM P41			4H						
⁷ OGR	ID No.				⁸ O	perator Name					⁹ Elevation					
43	23			CHEVRON U.S.A. INC. 3282'												
¹⁰ Surface Location																
UL or lot no.	Section	n Township	Range		Lot Idn	Feet from the	North/South line	Feet from the	East/	West line	County					
Р	9	26 SOUTH	27 EAST, N.M.P.N	И.	889' SOUTH 1043' EAST H											
			¹¹ Bottom	Hole	Locat	tion If Diffe	erent From S	Surface								
UL or lot no.	Section	1 Township	Range		Lot Idn	Feet from the	North/South line	Feet from the	East/V	Vest line	County					
Р	21	26 SOUTH	27 EAST, N.M.P.N	И.		50'	SOUTH	330'	EA	ST	EDDY					
¹² Dedicated A	cres ¹³ Jo	int or Infill	¹⁴ Consolidation Code	¹⁵ Order	No.											
640		INFILL														

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.

16	FEW 16 21 FED STATE COM P41 NO. 4H WELL X = 544.557' (NAD27 NM E)	Sec. 9	в с	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including
PROPOSED FIRST TAKE POINT X = 545,294' (NAD27 NM E)	Y = 382,618' LAT. 32.051850° N (NAD27) LONG. 104.189519° W X = 585,740' (NAD83/86 NM E) Y = 382,675'	s	30°55'20" E 1,434.96' Proposed First Take	D 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.
Y = 381,387' LAT. 32.048463° N (NAD27) LONG. 104.187144° W X = 586,478' (NAD83/86 NM E) Y = 381,444' LAT. 32.048586° N (NAD83/86)	LAT. 32.051972° N (NAD83/86) LONG. 104.190012° W ELEV. +3282' (NAVD88)	Sec. 16 -	Point .+ 330' FNL, .7 330' FEL	<u>Carol Adler 06/13/2022</u> Signature Date
LONG. 104.187637° W PROPOSED MIDPOINT X = 545,323' (NAD27 NM E)	CORNER COORDINATES TABLE (NAD 27) A - Y=383035.99, X=545589.77 B - Y=381755.41, X=542963.00		00°20'25" E .	Carol Adler Printed Name <u>caroladler@chevron.com</u> E-mail Address
Y = 376,418' LAT. 32.034803° N (NAD27) LONG. 104.187071° W X = 586,507' (NAD83/86 NM E) Y = 376,475' LAT. 32.034925° N (NAD83/86)	C - Y=381733.50, X=544292.53 D - Y=381731.59, X=545622.05 E - Y=376443.90, X=545003.94 F - Y=376428.99, X=544328.73 G - Y=376414.09, X=545655.53		Proposed Midpoint E F	¹⁸ SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this</i>
LONG. 104.187563° W PROPOSED LAST TAKE POINT	H - Y=371133.78, X=543041.88 I - Y=371125.12, X=544367.30 J - Y=371116.46, X=545692.72		9.32'	plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
X = 545,360' (NAD27 NM E) Y = 371,449' LAT. 32.021142° N (NAD27) LONG. 104.186974° W X = 586,544' (NAD83/86 NM E) Y = 371,505'	PROPOSED BOTTOM HOLE LOCATION X = 555,362' (NAD27 NM E)		لے 2 ² ,24 Proposed 2,26 Last Take – 25	Date of Survey
LAT. 32.021265° N (NAD83/86) LONG. 104.187466° W	Y = 371,169' LAT. 32.020372° N (NAD27) LONG. 104.186968° W X = 586,546' (NAD83/86 NM E) Y = 371,225' LAT. 32.020495° N (NAD83/86)		Point 00 330' FSL, 00 330' FEL	23006 04/04/2022
	LONG. 104.187460° W		н, <u>330'</u>	Certificate Number

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Page 2 of 29

Rec	eived	bv	OCD:	3/13/20	023 3:3	33:39	PM
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Submit Electronically Via E-permitting

Date: <u>03</u> / 17 / <u>2022</u>

State of New Mexico Energy, Minerals and Natural Resources Department	
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.

<u>Section 1 – Plan Description</u> <u>Effective May 25, 2021</u>

OGRID: <u>4323</u>

I. Operator: <u>Chevron USA Inc</u>

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
FEW 16 21 FED STATE COM 41 #1H	Pending	UL:P-09-26S-27E	360' FSL, 454' FEL	BBL/D	MCF/D	BBL/D
FEW 16 21 FED STATE COM 41 #2H	Pending	UL:P-09-26S-27E	360' FNL, 429' FEL	BBL/D	MCF/D	BBL/D
FEW 16 21 FED STATE COM 41 #3H	Pending	UL:P-09-26S-27E	361' FNL, 404' FEL	BBL/D	MCF/D	BBL/D
FEW 16 21 FED STATE COM 41 #4H	Pending	UL:P-09-26S-27E	361' FNL, 379' FEL	BBL/D	MCF/D	BBL/D

IV. Central Delivery Point Name: _____ FEW 16 CTB _____ [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	Completion	Initial Flow	First Production
			Date	Commencement Date	Back Date	Date
FEW 16 21 FED STATE COM 41 #1H	Pending		<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
FEW 16 21 FED STATE COM 41 #2H	Pending		<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
FEW 16 21 FED STATE COM 41 #3H	Pending		<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N.A</u>
FEW 16 21 FED STATE COM 41 #4H	Pending		<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

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

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

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

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

XI. Map. \Box 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 \Box will \Box 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 \Box does \Box 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: \Box 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.

<u>Section 3 - Certifications</u> <u>Effective May 25, 2021</u>

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

 \blacktriangleright 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

 \Box 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. \Box 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. \Box 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: Cindy Herrera-Ma	rillo
Printed Name: Cindy Herrera-Murillo	
Title: Sn Regulatory Affairs	Coordinator
E-mail Address: eeof@chevron.com	
Date: 03/17/2022	
Phone: 575-263-0431	
(Only a	OIL CONSERVATION DIVISION applicable when submitted as a standalone form)
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

VI. Separation Equipment:

Separation equipment installed at each Chevron facility is designed for maximum anticipated throughput and pressure to minimize waste. Separation equipment is designed and built according to ASME Sec VIII Div I to ensure gas is separated from liquid streams according to projected production.

VII./VIII. Operational & Best Management Practices:

1. General Requirements for Venting and Flaring of Natural Gas:

- In all circumstances, Chevron will flare rather than vent unless flaring is technically infeasible and venting of natural gas will avoid a risk of an immediate and substantial adverse impact on safety, public health, or the environment.
- Chevron installs and operates vapor recovery units (VRUs) in new facilities to minimize venting and flaring. If a VRU experiences operating issues, it is quickly assessed so that action can be taken to return the VRU to operation or, if necessary, facilities are shut-in to reduce the venting or flaring of natural gas.

2. During Drilling Operations:

- Flare stacks will be located a minimum of 110 feet from the nearest surface hole location.
- If an emergency or malfunction occurs, gas will be flared or vented to avoid a risk of an immediate and substantial adverse impact on public health, safety or the environment and be properly reported to the NMOCD pursuant to 19.15.27.8.G.
- Natural gas is captured or combusted if technically feasible using best industry practices and control technologies, such as the use of separators (e.g., Sand Commanders) during normal drilling and completions operations.

3. During Completions:

- Chevron typically does not complete traditional flowback, instead Chevron will flow produced oil, water, and gas to a centralized tank battery and continuously recover salable quality gas. If Chevron completes traditional flowback, Chevron conducts reduced emission completions as required by 40 CFR 60.5375a by routing gas to a gas flow line as soon as practicable once there is enough gas to operate a separator. Venting does not occur once there is enough gas to operate a separator
- Normally, during completions a flare is not on-site. A Snubbing Unit will have a flare on-site, and the flare volume will be estimated.
- If natural gas does not meet pipeline quality specification, the gas is sampled twice per week until the gas meets the specifications.

4. During Production:

- An audio, visual and olfactory (AVO) inspection will be performed daily (at minimum) for active wells and facilities to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC. Inactive, temporarily abandoned, or shut-in wells and facilities will be inspected weekly. Inspection records will be kept for a minimum of five years and will be available upon request by the division.
- Monitor manual liquid unloading for wells on-site, takes all reasonable actions to achieve a stabilized rate and pressure at the earliest practical time and takes reasonable actions to minimize venting to the maximum extent practicable.
- In all circumstances, Chevron will flare rather than vent unless flaring is technically infeasible and venting of natural gas will avoid a risk of an immediate and substantial adverse impact on safety, public health, or the environment.
- Chevron's design for new facilities utilizes air-activated pneumatic controllers and pumps.
- If natural gas does not meet pipeline quality specification, the gas is sampled twice per week until the gas meets the specifications.
- Chevron does not produce oil or gas until all flowlines, tank batteries, and oil/gas takeaway are installed, tested, and determined operational.

5. Performance Standards

- Equipment installed at each facility is designed for maximum anticipated throughput and pressure to minimize waste. Tank pressure relief systems utilize a soft seated or metal seated PSVs, as appropriate, which are both designed to not leak.
- Flare stack has been designed for proper size and combustion efficiency. New flares will have a continuous pilot and will be located at least 100 feet from the well and storage tanks and will be securely anchored.
- New tanks will be equipped with an automatic gauging system.
- An audio, visual and olfactory (AVO) inspection will be performed daily (at minimum) for active wells and facilities to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC. Inactive, temporarily abandoned, or shut-in wells and facilities will be inspected weekly. Inspection records will be kept for a minimum of five years and will be available upon request by the division.

6. Measurement or Estimation of Vented and Flared Natural Gas

- Chevron estimates or measures the volume of natural gas that is vented, flared, or beneficially used during drilling, operations, regardless of the reason or authorization for such venting or flaring.
- Where technically practicable, Chevron will install meters on flares installed after May 25, 2021. Meters will conform to industry standards. Bypassing the meter will only occur for inspecting and servicing of the meter.

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Operator Name: CHEVRON USA INCORPORATED

Well Name: FEW 16 21 FED STATE COM P41

Well Number: 4H

testing. A break test will consist of a 250 psi low / 5,000 psi high for 10 min each test against the connection that was broken when skidding the rig. Upon the first nipple up of the pad a full BOP test will be performed. A full BOP test will be completed prior to drilling the production lateral sections unless the BOP connection was not broken prior to drilling that hole section (example: drilling straight from production into production liner hole section). A break test will only be performed on operations where BLM documentation states a 5M or less BOP can be utilized. Chevron requests a variance to use a FMC Technologies UH-S Multibowl wellhead, which will be run through the rig floor on surface casing. BOPE will be nippled up and tested after cementing surface casing. Subsequent tests will be performed as needed, not to exceed 30 days. The field report from FMC Technologies and BOP test information will be provided in a subsequent report at the end of the well. Please see the attached wellhead schematic. An installation manual has been placed on file with the BLM office and remains unchanged from previous submittal. All tests performed by third party. Chevron requests to use high pressure flex hoses for all wells on the pad. Spec sheets attached to APD.

Testing Procedure: The stack will be tested as specified in the attached testing requirements. Batch drilling of the surface, production, and production liner will take place. Chevron proposes a digital BOP test method in lieu of the standard test chart. BOP test pressures and other documented tests will be recorded and documented via utilization of IPT SureTec Digital BOP Testing equipment and software. In the event the IPT system is unavailable, the standard test chart will be used. Test Test Time Test Pressure Criteria Additional Criteria Low Pressure Test 10 min 3 psi/min decline No visible leaks. Pressure shall not decrease below the intended test pressure. High Pressure Test 10 min 10 psi/min decline No visible leaks. Pressure shall not decrease below the intended test pressure. Pressure transducers are calibrated to the manufacturers specification. Each testing report will show information on the transducers including manufacturer, model, serial, and calibration date. IPT SureTec software will be used by knowledgeable personnel for BOP pressure testing. The software will be operated per IPT requirements and will not be used beyond the explicitly intended purpose. used by knowledgeable personnel for BOP pressure testing. The software will be operated per IPT requirements and will not be used beyond the explicitly intended purpose.

Choke Diagram Attachment:

BLM_5M_Choke_Manifold_Diagram_20210927173702.pdf

BLM_Choke_Hose_Test_Specs_and_Pressure_Test_Continental_20210927173713.pdf

CoFlex_Hose_Variance_Fisher_20220616092350.pdf

BOP Diagram Attachment:

NM_Slim_Hole_Wellhead_6650_psi_UH_S_20210927173753.pdf

BLM_5M_Annular_10M_Rams_Stackup_and_Test_Plan_20210928130917.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	450	0	450	3282	2832	450	J-55	54.5	BUTT	2.13	1.43	BUOY	2.09	BUOY	3.46
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	2258	0	2228	3143	1054	2258	L-80	-	OTHER - BTC/LTC	1.24	1.64	BUOY	3.16	BUOY	3.26
3	INTERMED IATE	8.75	7.0	NEW	API	N	0	8519	8519	8407		-5125	8519	P- 110	-	OTHER - BLUE	1.63	1.15	BUOY	2.3	BUOY	2.3

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Operator Name: CHEVRON USA INCORPORATED

Well Name: FEW 16 21 FED STATE COM P41

Well Number: 4H

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
4	PRODUCTI ON	6.12 5	5.0	NEW	API	N	8519	9119	7969	8957		-5675	600	P- 110		OTHER - W513	1.39	1.1	BUOY	1.63	BUOY	2.54
5	PRODUCTI ON	4.5	4.5	NEW	API	N	9119	19782	8957	9089		-5807	10663	P- 110		OTHER - W- 521	1.39	1.1	BUOY	1.63	BUOY	2.54

Casing Attachments

Casing ID: 1 String SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

13.375_casing_spec_sheet_20221027092904.pdf

Casing ID: 2 String INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $9.625_40.0lb_L80IC_BTC_20220616092458.pdf$

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Operator Name: CHEVRON USA INCORPORATED

Well Name: FEW 16 21 FED STATE COM P41

Well Number: 4H

Casing Attachments

Casing ID: 3	String	INTERMEDIATE
Inspection Document:		
Spec Document:		
Tanarad String Space		
Tapered String Spec:		
Casing Design Assump	otions and W	orksheet(s):
7in_Blue_vs_Blue	SD_20220616	6092538.pdf
Casing ID: 4	String	PRODUCTION
Inspection Document:		
Spec Document:		
Tapered String Spec:		
Casing Design Assump	otions and W	orksheet(s):
5in_Tenaris_Colla	pse_13470_2	0220616092609.pdf
Casing ID: 5	String	PRODUCTION
Inspection Document:		
Spec Document:		
T		
Tapered String Spec:		
Casing Design Assum	otions and W	orksheet(s):
		_20220411144013_20221027093221.pdf
·······		

Section 4 - Cement

Operator Name: CHEVRON USA INCORPORATED

Well Name: FEW 16 21 FED STATE COM P41

Well Number: 4H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	0	0	0	0	0	0	N/A	N/A
SURFACE	Tail		0	450	294	1.33	14.8	391	25	CLASS C	EXTENDER, ANTIFOAM, RETARDER, VISCOSIFER
INTERMEDIATE	Lead		0	1258	198	2.49	11.5	493	25	CLASS C	EXTENDER, ANTIFOAM, RETARDER, VISCOSIFER
INTERMEDIATE	Tail		1258	2258	323	1.33	13.6	429	25	CLASS C	EXTENDER, ANTIFOAM, RETARDER, VISCOSIFER
INTERMEDIATE	Lead		0	7519	612	2.2	11.5	1347	25	CLASS C	EXTENDER, ANTIFOAM, RETARDER, VISCOSIFER
INTERMEDIATE	Tail		7519	8519	134	1.4	14.5	188	25	CLASS C	EXTENDER, ANTIFOAM, RETARDER, VISCOSIFER
PRODUCTION	Lead		8319	1978 2	823	1.64	13.2	1349	25	CLASS H	EXTENDER, ANTIFOAM, RETARDER, VISCOSIFER

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

Describe what will be on location to control well or mitigate other conditions: If an open reserve pit is not approved by OCD, a closed system will be used consisting of above ground steel tanks and all wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in an approved sanitary landfill. If an open reserve pit is in place, pit construction, operation, and closure will follow all applicable rules and regulation. Sanitary wastes will be contained in a chemical porta-toilet and then hauled to an approved sanitary landfill. All fluids and cuttings will be disposed of in accordance with New Mexico Oil Conservation Division rules and regulations. And transporting of E&P waste will follow EPA regulations and accompanying manifests.

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Operator Name: CHEVRON USA INCORPORATED

Well Name: FEW 16 21 FED STATE COM P41

Well Number: 4H

Describe the mud monitoring system utilized: A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH. Visual mud monitoring equipment shall be in place to detect volume changes indicating loss or gain of circulating fluid volume. When abnormal pressures are anticipated -- a pit volume totalizer (PVT), stroke counter, and flow sensor will be used to detect volume changes indicating loss or gain of circulating fluid volume.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	450	SPUD MUD	8.3	9.1							VISCOSITY: 26-36 FILTRATE: N/C
450	2258	SALT SATURATED	8.9	10.5							VISCOSITY: 26-36 FILTRATE: 15-25 10 LB MINIMUM WILL BE UTILIZED IN THE SALT ZONE
2258	8519	OTHER : WBM/BRINE	8.7	9.6							VISCOSITY: 26-36 FILTRATE: 15-25
8519	1978 2	OIL-BASED MUD	8.7	12.2							VISCOSITY: 50-70 FILTRATE: 5-10 Due to wellbore stability, the mud program may exceed the MW weight window needed to maintain overburden of pore pressure.

Section 6 - Test, Logging, Coring

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

- a. Production tests are not planned.
- b. Logs run include: Gamma Ray Log; Directional Survey

c. Coring is not planned.

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

GAMMA RAY LOG, DIRECTIONAL SURVEY,

Coring operation description for the well:

Conventional whole core samples are not planned; direction survey will be run - will send log(s) when run.

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Operator Name: CHEVRON USA INCORPORATED

Well Name: FEW 16 21 FED STATE COM P41

Well Number: 4H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5786

Anticipated Surface Pressure: 3779

Anticipated Bottom Hole Temperature(F): 165

Anticipated abnormal pressures, temperatures, or potential geologic hazards? YES

Describe:

Pressure ramp begins in the Third Bonespring. Abnormal pressure will be observed in the Wolfcamp.

Contingency Plans geoharzards description:

- Casing design accounts for pressure ramp.
- Mud weighting agents available on location to increase drilling fluid density.
- BOP, choke, and well control drills.

- BOP functioned and pressure tested **Contingency Plans geohazards**

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

Chevron_Standard_H2S_Contingency_Plan_v2_20210927175659.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

DefPlan100ft_FEW1621FEDSTATECOMP41_4H_RO_20220616093501.pdf

FEW_16_21_FED_STATE_COM_P41_4H_DP_20220616093514.pdf

Other proposed operations facets description:

Chevron formally requests authorization to use the spudder rig to spud the well and set surface and intermediate casing. The drilling rig will move in less than 90 days to continue drilling operations. Rig layouts attached.

***Drilling plan attached contains a contingency cement program.

Other proposed operations facets attachment:

Operational_Best_Management_Practices_V2_20211006202241.pdf

Gas_Management_Plan___HH_Pad_41_20220614082407.pdf

Rig_Layout_20220411150452_20220614082416.pdf

Surface_Rig___20220614082422.pdf

Other Variance attachment:

Chevron

Schlumberger

FEW 16 21 FED STATE COM P41 4H mdv 05Apr22 Proposal Geodetic

Report

					(Def Plan	i)				
Report Date: Client: Field: Structure / Slot: Well: Borehole: UWI / API#: Survey Name: Survey Date: Tort / AHD / DDI / ERD Ratio: Coordinate Reference System: Location Laf / Long: Location Laf / Long: Location Grid N/E Y/X: CRS Grid Convergence Angle: Grid Scale Factor: Version / Patch:	Chevn NM, E Chevn FEW Unknc FEW Unknc FEW April (1 120.2) NAD2 N 32 ²	Eddy County (N. on HNM Pkg 4: 16 21 FED STA bwn / Unknown 16 21 FED STA bwn / Unknown 16 21 FED STA bwn / Unknown 16 21 FED STA 5, 2022 78 ° / 11778.43 7 New Mexico 3 ° 3 ° 6.66111", 618.000 ftUS, I 3 ° 91136		n Zone, US Feet	Vert Vert TVD Seala Grav Grav Tota Grav Dec Mag Nort Grid	vey / DLS Comput ical Section Azim ical Section Origi Reference Datum Reference Elevat bed / Ground Elev netic Declination: Il Gravity Field St insticn Dip Angle: instic Declination th Reference: I Convergence Us Il Convergence Us Il Convergence Us Il Convergence Us	uth: 17 n: 0.1 it: Ri ion: 32 ation: 32 string: 6. : 6. : 6. : 95 : 55 Model: HI : G : G : G : G : G : G : G : G : G	nimum Curvature 9.620 ° (Grid Nort 300 ft, 0.000 ft 8 = 28ft 10.000 ft above M 82.000 ft above M 873 ° 18.4274mgn (9.800 473 ° 18.4274mgn (9.800 475 ° 19.602 ° 19.602 ° 19.602 ° 19.602 ° 19.602 ° 19.612 ° 19.6	h) ISL ISL	
	MD	Incl	Azim Grid	TVD	Loc: VSEC	al Coord Referenc	ed To: W EW	ell Head DLS	Northing	Easting Latitude Longitude
Comments	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(ftUS)	(ftUS) (N/S ° ' ") (E/W ° ' ")
Surface Castile (CSTL)	0.00 100.00 200.00 300.00 400.00 500.00 518.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 131.81 131.81 131.81 131.81 131.81 131.81 131.81	0.00 100.00 200.00 300.00 400.00 500.00 518.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	N/A 0.00 0.00 0.00 0.00 0.00 0.00	382618.00 382618.00 382618.00 382618.00 382618.00 382618.00 382618.00	544557.00 N 32 3 6.66 W 104 11 22.26 544557.00 N 32 3 6.66 W 104 11 22.26 544557.00 N 32 3 6.66 W 104 11 22.26 544557.00 N 32 3 6.66 W 104 11 22.26 544557.00 N 32 3 6.66 W 104 11 22.26 544557.00 N 32 3 6.66 W 104 11 22.26 544557.00 N 32 3 6.66 W 104 11 22.26 544557.00 N 32 3 6.66 W 104 11 22.26 544557.00 N 32 3 6.66 W 104 12 2.26
	600.00	0.00	131.81	600.00	0.00	0.00	0.00	0.00	382618.00	544557.00 N 32 3 6.66 W 104 11 22.26
Build 1.5°/100ft	700.00 800.00 1000.00 1100.00 1200.00 1300.00 1400.00 1500.00	0.00 1.50 3.00 4.50 6.00 7.50 9.00 10.50 12.00	131.81 131.81 131.81 131.81 131.81 131.81 131.81 131.81 131.81	700.00 799.99 899.91 999.69 1099.27 1198.57 1297.54 1396.09 1494.16	0.00 0.88 3.52 7.91 14.05 21.95 31.58 42.95 56.05	0.00 -0.87 -3.49 -7.85 -13.95 -21.78 -31.35 -42.64 -55.64	0.00 0.98 3.90 8.78 15.60 24.36 35.05 47.68 62.22	0.00 1.50 1.50 1.50 1.50 1.50 1.50 1.50	382618.00 382617.13 382614.51 382604.05 382596.22 382586.65 382575.37 382562.36	544557.00 N 32 3 6.66 W 104 11 22.25 544556.09 N 32 3 6.65 W 104 11 22.25 544565.09 N 32 3 6.65 W 104 11 22.25 544565.78 N 32 3 6.58 W 104 11 22.25 544565.78 N 32 3 6.52 W 104 11 22.08 544581.36 N 32 3 6.45 W 104 11 21.08 544581.36 N 32 3 6.45 W 104 11 21.08 544592.05 N 32 3 6.42 W 104 11 21.08 544692.05 N 32 3 6.24 W 104 11 21.01 54619.21 N 32 3 6.11 <w< td=""> W 11</w<>
Hold	1600.00 1700.00 1800.00 1900.00 2000.00 2100.00 2200.00	13.50 15.00 15.00 15.00 15.00 15.00 15.00	131.81 131.81 131.81 131.81 131.81 131.81 131.81 131.81	1591.70 1688.61 1785.21 1881.80 1978.39 2074.99 2171.58	70.88 87.41 104.79 122.17 139.55 156.93 174.31	-70.36 -86.76 -104.02 -121.27 -138.52 -155.78 -173.03	78.67 97.01 116.31 135.60 154.89 174.18 193.48	1.50 1.50 0.00 0.00 0.00 0.00 0.00	382547.65 382531.24 382513.99 382496.74 382479.49 382462.24 382444.98	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Lamar (LMAR) Bell Canyon (BLCN)	2258.41 2287.40 2300.00 2500.00 2600.00 2700.00 2800.00 2900.00 3000.00 3100.00	15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00	131.81 131.81 131.81 131.81 131.81 131.81 131.81 131.81 131.81 131.81 131.81	2228.00 2256.00 2268.17 2364.76 2461.36 2557.95 2654.54 2751.13 2847.73 2944.32 3040.91	184.46 189.50 191.69 209.07 226.45 243.84 261.22 278.60 295.98 313.36 330.74	-183.11 -188.11 -190.29 -207.54 -224.79 -242.05 -259.30 -276.55 -293.81 -311.06 -328.31	204.74 210.34 212.77 232.06 251.35 270.64 289.94 309.23 328.52 347.81 367.10	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	382434.91 382429.91 382427.73 382410.48 382393.23 382375.98 382358.72 382341.47 382324.22 382306.97 382289.72	544761.73 N 32 3 4.85 W 104 11 19.82 544767.32 N 32 3 4.80 W 104 11 19.82 544769.75 N 32 3 4.78 W 104 11 19.79 544769.75 N 32 3 4.60 W 104 11 19.79 544769.72 N 32 3 4.60 W 104 11 19.35 544808.33 N 32 3 4.30 W 104 11 19.35 544808.31 N 32 3 4.26 W 104 11 19.12 544806.30 N 32 3 4.26 W 104 11 19.35 544806.20 N 32 3 3.92 W 104 11 18.05 544804.00 N 32 3 3.75 W 104 11 18.45 544904.78 N 32 3 3.58 W 104 11 18.45 544924.07 N 32 3 3.58 W 104 11 18.00
Cherry Canyon (CRCN)	3170.49 3200.00 3400.00 3500.00 3600.00 3700.00 3800.00 3800.00 3800.00	15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00	131.81 131.81 131.81 131.81 131.81 131.81 131.81 131.81 131.81	3109.00 3137.50 3234.10 3330.69 3427.28 3523.88 3620.47 3717.06 3813.65	342.99 348.12 365.50 382.88 400.27 417.65 435.03 452.41 469.79	-340.48 -345.57 -362.82 -380.07 -397.33 -414.58 -431.83 -449.09 -466.34	380.70 386.40 405.69 424.98 444.27 463.56 482.86 502.15 521.44	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	382277.56 382272.46 382255.21 382237.96 382220.71 382203.46 382186.20 382168.95 382151.70	544937.67 N 32 3 3.29 W 104 11 17.85 544943.36 N 32 3 3.24 W 104 11 17.76 544962.65 N 32 3 3.07 W 104 11 17.56 544962.65 N 32 3.07 W 104 11 17.56 544962.65 N 32 3.07 W 104 11 17.51 545001.23 N 32 2.72 W 104 11 17.51 5450201.25 N 32 3 2.72 W 104 11 16.168 545039.81 N 32 3 2.38 W 104 11 16.66 545059.10 N 32 3 2.21 W 104 11 16.41 545076.90 N 32 3 2.38 W 104 11 16.41
Drop .75°/100ft	3994.59 4000.00 4100.00 4200.00 4300.00	15.00 14.96 14.21 13.46 12.71	131.81 131.81 131.81 131.81 131.81 131.81	3905.02 3910.25 4007.02 4104.12 4201.52	486.23 487.17 504.08 520.14 535.34	-482.66 -483.59 -500.38 -516.32 -531.41	539.69 540.73 559.50 577.32 594.20	0.00 0.75 0.75 0.75 0.75	382135.38 382134.45 382117.67 382101.73 382086.64	545096.64 N 32 3 1.88 W 104 11 16.00 545097.68 N 32 3 1.87 W 104 11 15.99 545116.45 N 32 3 1.70 W 104 11 15.79 545134.27 N 32 3 1.54 W 104 11 15.76 545151.15 N 32 3 1.39 W 104 11 15.37 545151.15 N 32 3 1.39 W 104 11 15.37
Brushy Canyon (BCN)	4390.58 4400.00 4500.00 4700.00 4800.00 5000.00 5100.00 5100.00 5300.00 5300.00 5400.00 5500.00 5500.00 5500.00 5700.00 5800.00	12.03 11.96 11.21 10.46 9.71 8.96 8.21 7.46 6.71 5.96 5.21 4.46 3.71 2.96 2.21 1.46	137.81 131.81 131.81 131.81 131.81 131.81 131.81 131.81 131.81 131.81 131.81 131.81 131.81 131.81 131.81 131.81	4290.00 4299.22 4397.18 4495.39 4593.85 4692.52 4791.40 4890.47 4989.71 5089.09 5188.62 5288.26 5388.01 5487.84 5587.74 5687.68	548.37 549.69 563.17 575.80 587.55 598.45 608.47 617.62 625.91 633.32 639.85 645.51 650.29 654.20 657.23 659.38	-544.35 -544.35 -559.04 -571.57 -583.24 -594.05 -604.00 -613.09 -621.31 -622.67 -635.15 -640.77 -645.52 -649.40 -652.40 -654.54	608.66 610.12 625.09 639.10 662.15 664.24 675.37 685.53 694.72 702.95 710.20 716.48 721.79 726.13 729.49 731.87	0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75	382073.70 382072.40 382055.01 382046.48 382034.81 382024.00 382014.05 382044.95 38204.96 381996.74 381996.74 381982.90 381977.29 381977.29 381977.29 381977.54 381968.66 381963.52	545165.61 N 32 3 1.27 W 104 11 15.10 545167.07 N 32 3 1.25 W 104 11 15.10 545182.03 N 3 3 1.21 W 104 11 15.10 545182.03 N 3 3 0.00 W 104 11 14.50 54520.09 N 32 3 0.08 W 104 11 14.50 545221.18 N 32 3 0.68 W 104 11 14.50 545221.18 N 32 3 0.59 W 104 11 14.51 545224.71 N 32 3 0.59 W 104 11 14.51 545224.71 N 32 3 0.50 W 104 11 14.31 545254.71 N 32 3 0.37 W 104 11 14.20 545257.34.2 N 32 3 31 W 104 11 14.20 545278.72 N 32 3 31 W 104 11 14.20 545278.72 N 32 3 32 W 104 11 14.20
Bone Spring Lime (BSGL) Hold Vertical	5900.00 5993.34 5994.59	0.71 0.01 0.00	131.81 131.81 131.81 131.81	5787.66 5787.00 5882.25	660.65 661.04 661.04	-655.80 -656.19 -656.19	733.28 733.72 733.72	0.75 0.75 0.75	381963.52 381962.26 381961.87 381961.87	545290.22 N 32 3 0.16 W 104 11 13.75 545290.65 N 32 3 0.16 W 104 11 13.75 545290.65 N 32 3 0.16 W 104 11 13.75
Avalon Upper (AVU)	6000.00 6087.34 6100.00 6200.00 6300.00	0.00 0.00 0.00 0.00 0.00	131.81 <i>131.81</i> 131.81 131.81 131.81	5887.66 5975.00 5987.66 6087.66 6187.66	661.04 661.04 661.04 661.04 661.04	-656.19 -656.19 -656.19 -656.19 -656.19	733.72 733.72 733.72 733.72 733.72 733.72	0.00 <i>0.00</i> 0.00 0.00 0.00	381961.87 381961.87 381961.87 381961.87 381961.87 381961.87	545290.65 N 32 3 0.16 W 104 11 13.75 545290.65 N 32 3 0.16 W 104 11 13.75 545290.65 N 32 3 0.16 W 104 11 13.75 545290.65 N 32 3 0.16 W 104 11 13.75 545290.65 N 32 3 0.16 W 104 11 13.75 545290.65 N 32 3 0.16 W 104 11 13.75
Avalon Lower (AVL)	6400.00 6461.34 6500.00 6600.00 6700.00	0.00 0.00 0.00 0.00 0.00	131.81 <i>131.81</i> 131.81 131.81 131.81 131.81	6287.66 6349.00 6387.66 6487.66 6587.66	661.04 661.04 661.04 661.04 661.04	-656.19 -656.19 -656.19 -656.19 -656.19	733.72 733.72 733.72 733.72 733.72 733.72	0.00 0.00 0.00 0.00 0.00	381961.87 381961.87 381961.87 381961.87 381961.87 381961.87	545290.65 N 32 3 0.16 W 104 11 13.75 545290.65 N 32 3 0.16 W 104 11 13.75 545290.65 N 32 3 0.16 W 11 13.75 545290.65 N 32 3 0.16 W 11 13.75 545290.65 N 32 3 0.16 W 104 11 3.75 545290.65 N 32 3 0.16 W 104 11 3.75 545290.65 N 32 3 0.16 W 104 11 3.75 545290.65 N 32 3 0.16 W 104 11 3.75
First Bone Spring Upper (FBU)	6800.00 6873.34	0.00 0.00	131.81 <i>131.81</i>	6687.66 6761.00	661.04 661.04	-656.19 -656.19	733.72 733.72	0.00 0.00	381961.87 381961.87	545290.65 N 32 3 0.16 W 104 11 13.75 545290.65 N 32 3 0.16 W 104 11 13.75

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Commonte	MD	Incl	Azim Grid	TVD	VSEC	NS	EW	DLS	Northing	Easting Latitude Longitude
Comments	(ft) 6900.00	(°) 0.00	(°) 131.81	(ft) 6787.66	(ft) 661.04	(ft) -656.19	(ft) 733.72	(°/100ft) 0.00	(ftUS) 381961.87	(ftUS) (N/S ° ' ') (E/W ° ' ') 545290.65 N 32 3 0.16 W 104 11 13.75
	7000.00	0.00	131.81	6887.66	661.04	-656.19	733.72	0.00	381961.87	545290.65 N 32 3 0.16 W 104 11 13.75
First Bone Spring Lower (FBL)	7081.34	0.00	131.81	6969.00	661.04	-656.19	733.72	0.00	381961.87	545290.65 N 32 3 0.16 W 104 11 13.75
	7100.00 7200.00	0.00	131.81 131.81	6987.66 7087.66	661.04 661.04	-656.19 -656.19	733.72 733.72	0.00	381961.87 381961.87	545290.65 N 32 3 0.16 W 104 11 13.75 545290.65 N 32 3 0.16 W 104 11 13.75
	7300.00	0.00	131.81	7187.66	661.04	-656.19	733.72	0.00	381961.87	545290.65 N 32 3 0.16 W 104 11 13.75
On and Dama Ondra Urana (ODU)	7400.00	0.00	131.81	7287.66	661.04	-656.19	733.72	0.00	381961.87	545290.65 N 32 3 0.16 W 104 11 13.75 545290.65 N 32 3 0.16 W 104 11 13.75
Second Bone Spring Upper (SBU)	7440.34 7500.00	0.00 0.00	<i>131.81</i> 131.81	7328.00 7387.66	661.04 661.04	-656.19 -656.19	733.72 733.72	0.00 0.00	381961.87 381961.87	545290.65 N 32 3 0.16 W 104 11 13.75 545290.65 N 32 3 0.16 W 104 11 13.75
	7600.00	0.00	131.81	7487.66	661.04	-656.19	733.72	0.00	381961.87	545290.65 N 32 3 0.16 W 104 11 13.75
	7700.00 7800.00	0.00	131.81 131.81	7587.66 7687.66	661.04 661.04	-656.19 -656.19	733.72 733.72	0.00	381961.87 381961.87	545290.65 N 32 3 0.16 W 104 11 13.75 545290.65 N 32 3 0.16 W 104 11 13.75
Second Bone Spring Lower (SBL)	7872.34	0.00	131.81	7760.00	661.04	-656.19	733.72	0.00	381961.87	545290.65 N 32 3 0.16 W 104 11 13.75
	7900.00	0.00	131.81	7787.66	661.04	-656.19	733.72	0.00	381961.87	545290.65 N 32 3 0.16 W 104 11 13.75
	8000.00 8100.00	0.00	131.81 131.81	7887.66 7987.66	661.04 661.04	-656.19 -656.19	733.72 733.72	0.00	381961.87 381961.87	545290.65 N 32 3 0.16 W 104 11 13.75 545290.65 N 32 3 0.16 W 104 11 13.75
	8200.00	0.00	131.81	8087.66	661.04	-656.19	733.72	0.00	381961.87	545290.65 N 32 3 0.16 W 104 11 13.75
	8300.00 8400.00	0.00	131.81 131.81	8187.66 8287.66	661.04 661.04	-656.19 -656.19	733.72 733.72	0.00	381961.87 381961.87	545290.65 N 32 3 0.16 W 104 11 13.75 545290.65 N 32 3 0.16 W 104 11 13.75
	8500.00	0.00	131.81	8387.66	661.04	-656.19	733.72	0.00	381961.87	545290.65 N 32 3 0.16 W 104 11 13.75
TB1C	8519.34	0.00	<i>131.81</i> 131.81	8407.00	661.04	-656.19 -656.19	733.72 733.72	0.00 0.00	381961.87	545290.65 N 32 3 0.16 W 104 11 13.75 545290.65 N 32 3 0.16 W 104 11 13.75
Build 10°/100ft	8600.00 8660.59	0.00	131.81	8487.66 8548.25	661.04 661.04	-656.19	733.72	0.00	381961.87 381961.87	545290.65 N 32 3 0.16 W 104 11 13.75 545290.65 N 32 3 0.16 W 104 11 13.75
	8700.00	3.94	179.67	8587.63	662.40	-657.54	733.73	10.00	381960.51	545290.66 N 32 3 0.14 W 104 11 13.75
Third Bone Spring	8713.41 8800.00	5.28 13.94	179.67 179.67	8601.00 8686.29	663.48 677.92	-658.62 -673.07	733.73 733.82	10.00 10.00	381959.44 381944.99	545290.67 N 32 3 0.13 W 104 11 13.75 545290.75 N 32 2 59.99 W 104 11 13.75
	8900.00	23.94	179.67	8780.76	710.34	-705.49	734.01	10.00	381912.58	545290.94 N 32 2 59.67 W 104 11 13.75
	9000.00 9100.00	33.94 43.94	179.67 179.67	8868.16 8945.84	758.67 821.44	-753.81 -816.59	734.29 734.66	10.00 10.00	381864.25 381801.49	545291.22 N 32 2 59.19 W 104 11 13.74 545291.59 N 32 2 58.57 W 104 11 13.74
Wolfcamp A	9107.21	43.94 44.66	179.67	8951.00	826.48	-821.62	734.69	10.00	381796.45	545291.62 N 32 2 58.57 W 104 11 13.74 545291.62 N 32 2 58.52 W 104 11 13.74
· · · · · ·	9200.00	53.94	179.67	9011.44	896.75	-891.89	735.10	10.00	381726.19	545292.03 N 32 2 57.83 W 104 11 13.74
	9300.00 9400.00	63.94 73.94	179.67 179.67	9062.96 9098.85	982.30 1075.51	-977.45 -1070.65	735.59 736.14	10.00 10.00	381640.64 381547.45	545292.53 N 32 2 56.98 W 104 11 13.73 545293.07 N 32 2 56.06 W 104 11 13.73
WCA_TGT4	9463.49	80.29	179.67	9113.00	1137.37	-1132.51	736.50	10.00	381485.60	545293.43 N 32 2 55.44 W 104 11 13.72
	9500.00	83.94	179.67	9118.01	1173.52	-1168.66	736.71	10.00	381449.44	545293.64 N 32 2 55.09 W 104 11 13.72
Landing Point FTP Cross	9562.46 9562.56	90.19 90.19	179.67 179.67	9121.20 9121.20	1235.87 1235.97	-1231.01 -1231.11	737.07 737.07	10.00 0.00	381387.11 381387.00	545294.01 N 32 2 54.47 W 104 11 13.72 545294.01 N 32 2 54.47 W 104 11 13.72
	9600.00	90.19	179.67	9121.08	1273.41	-1268.55	737.29	0.00	381349.57	545294.23 N 32 2 54.10 W 104 11 13.72
	9700.00 9800.00	90.19 90.19	179.67 179.67	9120.76 9120.43	1373.41 1473.41	-1368.55 -1468.54	737.88 738.46	0.00	381249.58 381149.59	545294.81 N 32 2 53.11 W 104 11 13.71 545295.39 N 32 2 52.12 W 104 11 13.71
	9900.00	90.19	179.67	9120.10	1573.41	-1568.54	739.04	0.00	381049.60	545295.98 N 32 2 51.13 W 104 11 13.70
	10000.00	90.19	179.67	9119.78	1673.41	-1668.54	739.63	0.00	380949.61	545296.56 N 32 2 50.14 W 104 11 13.70
	10100.00 10200.00	90.19 90.19	179.67 179.67	9119.45 9119.13	1773.41 1873.41	-1768.54 -1868.54	740.21 740.79	0.00	380849.62 380749.63	545297.14 N 32 2 49.15 W 104 11 13.69 545297.73 N 32 2 48.16 W 104 11 13.69
	10300.00	90.19	179.67	9118.80	1973.41	-1968.53	741.38	0.00	380649.64	545298.31 N 32 2 47.17 W 104 11 13.68
	10400.00 10500.00	90.19 90.19	179.67 179.67	9118.47 9118.15	2073.41 2173.41	-2068.53 -2168.53	741.96 742.54	0.00	380549.66 380449.67	545298.89 N 32 2 46.18 W 104 11 13.68 545299.48 N 32 2 45.19 W 104 11 13.67
	10600.00	90.19	179.67	9117.82	2273.41	-2268.53	743.13	0.00	380349.68	545300.06 N 32 2 44.20 W 104 11 13.67
	10700.00	90.19	179.67	9117.50	2373.41	-2368.52	743.71	0.00	380249.69	545300.64 N 32 2 43.21 W 104 11 13.66
	10800.00 10900.00	90.19 90.19	179.67 179.67	9117.17 9116.84	2473.40 2573.40	-2468.52 -2568.52	744.29 744.88	0.00	380149.70 380049.71	545301.23 N 32 2 42.22 W 104 11 13.65 545301.81 N 32 2 41.23 W 104 11 13.65
	11000.00	90.19	179.67	9116.52	2673.40	-2668.52	745.46	0.00	379949.72	545302.39 N 32 2 40.24 W 104 11 13.64
	11100.00 11200.00	90.19 90.19	179.67 179.67	9116.19 9115.87	2773.40 2873.40	-2768.52 -2868.51	746.04 746.63	0.00	379849.74 379749.75	545302.98 N 32 2 39.25 W 104 11 13.64 545303.56 N 32 2 38.27 W 104 11 13.63
	11300.00	90.19	179.67	9115.54	2973.40	-2968.51	747.21	0.00	379649.76	545304.14 N 32 2 37.28 W 104 11 13.63
	11400.00 11500.00	90.19 90.19	179.67 179.67	9115.21 9114.89	3073.40 3173.40	-3068.51 -3168.51	747.80 748.38	0.00	379549.77 379449.78	545304.73 N 32 2 36.29 W 104 11 13.62 545305.31 N 32 2 35.30 W 104 11 13.62
	11600.00	90.19	179.67	9114.56	3273.40	-3268.50	748.96	0.00	379349.79	545305.89 N 32 2 34.31 W 104 11 13.61
	11700.00	90.19	179.67	9114.23	3373.40	-3368.50	749.55	0.00	379249.80	545306.48 N 32 2 33.32 W 104 11 13.61
	11800.00 11900.00	90.19 90.19	179.67 179.67	9113.91 9113.58	3473.40 3573.40	-3468.50 -3568.50	750.13 750.71	0.00	379149.81 379049.83	545307.06 N 32 2 32.33 W 104 11 13.60 545307.64 N 32 2 31.34 W 104 11 13.60
	12000.00	90.19	179.67	9113.26	3673.40	-3668.50	751.30	0.00	378949.84	545308.23 N 32 2 30.35 W 104 11 13.59
WCA_TGT4	12078.69 12100.00	90.19 90.19	179.67 179.67	9113.00 9112.93	3752.08 3773.40	-3747.18 -3768.49	751.75 751.88	0.00 0.00	378871.16 378849.85	545308.69 N 32 2 29.57 W 104 11 13.59 545308.81 N 32 2 29.36 W 104 11 13.59
	12200.00	90.19	179.67	9112.60	3873.40	-3868.49	752.46	0.00	378749.86	545309.39 N 32 2 28.37 W 104 11 13.58
	12300.00	90.19	179.67	9112.28	3973.40	-3968.49	753.05	0.00	378649.87	545309.98 N 32 2 27.38 W 104 11 13.58
	12400.00 12500.00	90.19 90.19	179.67 179.67	9111.95 9111.63	4073.40 4173.39	-4068.49 -4168.48	753.63 754.21	0.00	378549.88 378449.89	545310.56 N 32 2 26.39 W 104 11 13.57 545311.14 N 32 2 25.40 W 104 11 13.57
	12600.00	90.19	179.67	9111.30	4273.39	-4268.48	754.80	0.00	378349.90	545311.73 N 32 2 24.41 W 104 11 13.56
	12700.00 12800.00	90.19 90.19	179.67 179.67	9110.97 9110.65	4373.39 4473.39	-4368.48 -4468.48	755.38 755.96	0.00	378249.92 378149.93	545312.31 N 32 2 23.42 W 104 11 13.56 545312.89 N 32 2 22.43 W 104 11 13.55
	12900.00	90.19	179.67	9110.32	4573.39	-4568.48	756.55	0.00	378049.94	545313.48 N 32 2 21.44 W 104 11 13.55
	13000.00 13100.00	90.19 90.19	179.67 179.67	9110.00 9109.67	4673.39 4773.39	-4668.47 -4768.47	757.13 757.71	0.00	377949.95 377849.96	545314.06 N 32 2 20.45 W 104 11 13.54 545314.65 N 32 2 19.46 W 104 11 13.54
	13200.00	90.19	179.67	9109.87	4873.39	-4868.47	758.30	0.00	377749.90	545315.23 N 32 2 19.46 W 104 11 13.54 545315.23 N 32 2 18.47 W 104 11 13.53
	13300.00	90.19	179.67	9109.02	4973.39	-4968.47	758.88	0.00	377649.98	545315.81 N 32 2 17.48 W 104 11 13.52
	13400.00 13500.00	90.19 90.19	179.67 179.67	9108.69 9108.37	5073.39 5173.39	-5068.46 -5168.46	759.46 760.05	0.00	377550.00 377450.01	545316.40 N 32 2 16.49 W 104 11 13.52 545316.98 N 32 2 15.51 W 104 11 13.51
	13600.00	90.19	179.67	9108.04	5273.39	-5268.46	760.63	0.00	377350.02	545317.56 N 32 2 14.52 W 104 11 13.51
	13700.00 13800.00	90.19 90.19	179.67 179.67	9107.71 9107.39	5373.39 5473.39	-5368.46 -5468.46	761.21 761.80	0.00	377250.03 377150.04	545318.15 N 32 2 13.53 W 104 11 13.50 545318.73 N 32 2 12.54 W 104 11 13.50
	13900.00	90.19	179.67	9107.06	5573.39	-5568.45	762.38	0.00	377050.05	545319.31 N 32 2 11.55 W 104 11 13.49
	14000.00	90.19 90.19	179.67 179.67	9106.74	5673.39	-5668.45	762.96 763.55	0.00	376950.06	545319.90 N 32 2 10.56 W 104 11 13.49 545320.48 N 32 2 9.57 W 104 11 13.48
	14100.00 14200.00	90.19	179.67	9106.41 9106.08	5773.39 5873.39	-5768.45 -5868.45	763.55	0.00	376850.07 376750.09	545320.48 N 32 2 9.57 W 104 11 13.48 545321.06 N 32 2 8.58 W 104 11 13.48
	14300.00	90.19	179.67	9105.76	5973.38	-5968.44	764.72	0.00	376650.10	545321.65 N 32 2 7.59 W 104 11 13.47
	14400.00 14500.00	90.19 90.19	179.67 179.67	9105.43 9105.10	6073.38 6173.38	-6068.44 -6168.44	765.30 765.88	0.00	376550.11 376450.12	545322.23 N 32 2 6.60 W 104 11 13.47 545322.81 N 32 2 5.61 W 104 11 13.46
MP, Turn 2°/100ft	14532.12	90.19	179.67	9105.00	6205.51	-6200.56	766.07	0.00	376418.00	545323.00 N 32 2 5.29 W 104 11 13.46
Hold	14536.70 14600.00	90.19 90.19	179.57 179.57	9104.99 9104.78	6210.08 6273.38	-6205.13 -6268.44	766.10 766.57	2.00 0.00	376413.43 376350.13	545323.03 N 32 2 5.25 W 104 11 13.46 545323.50 N 32 2 4.62 W 104 11 13.46
	14600.00	90.19	179.57	9104.78 9104.45	6373.38	-6268.44 -6368.43	766.57	0.00	376350.13	545323.50 N 32 2 4.62 W 104 11 13.46 545324.24 N 32 2 3.63 W 104 11 13.45
	14800.00	90.19	179.57	9104.12	6473.38	-6468.43	768.06	0.00	376150.16	545324.99 N 32 2 2.64 W 104 11 13.44
	14900.00 15000.00	90.19 90.19	179.57 179.57	9103.79 9103.46	6573.38 6673.38	-6568.43 -6668.42	768.80 769.54	0.00	376050.17 375950.18	545325.73 N 32 2 1.65 W 104 11 13.43 545326.47 N 32 2 0.66 W 104 11 13.43
	15100.00	90.19	179.57	9103.13	6773.38	-6768.42	770.29	0.00	375850.19	545327.22 N 32 1 59.67 W 104 11 13.42
	15200.00	90.19	179.57	9102.80	6873.38	-6868.42	771.03	0.00	375750.21	545327.96 N 32 1 58.68 W 104 11 13.41
	15300.00 15400.00	90.19 90.19	179.57 179.57	9102.47 9102.14	6973.38 7073.38	-6968.41 -7068.41	771.77 772.51	0.00	375650.22 375550.23	545328.70 N 32 1 57.69 W 104 11 13.41 545329.44 N 32 1 56.70 W 104 11 13.40
	15500.00	90.19	179.57	9101.81	7173.38	-7168.41	773.26	0.00	375450.24	545330.19 N 32 1 55.71 W 104 11 13.39
	15600.00 15700.00	90.19 90.19	179.57 179.57	9101.48 9101.16	7273.38 7373.38	-7268.40 -7368.40	774.00 774.74	0.00	375350.25 375250.27	545330.93 N 32 1 54.72 W 104 11 13.39 545331.67 N 32 1 53.74 W 104 11 13.38
	15800.00	90.19	179.57	9100.83	7473.38	-7468.40	775.49	0.00	375150.28	545332.42 N 32 1 52.75 W 104 11 13.37
	15900.00	90.19	179.57	9100.50	7573.38	-7568.39	776.23	0.00	375050.29	545333.16 N 32 1 51.76 W 104 11 13.36
	16000.00 16100.00	90.19 90.19	179.57 179.57	9100.17 9099.84	7673.37 7773.37	-7668.39 -7768.39	776.97 777.72	0.00	374950.30 374850.32	545333.90 N 32 1 50.77 W 104 11 13.36 545334.65 N 32 1 49.78 W 104 11 13.35
	16200.00	90.19	179.57	9099.51	7873.37	-7868.38	778.46	0.00	374750.33	545335.39 N 32 1 48.79 W 104 11 13.34

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Schlumberger-Private

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0	MD	Incl	Azim Grid	TVD	VSEC	NS	EW	DLS	Northing	Easting	Latitude	Longitude
Comments	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(ftUS)	(ftUS)	(N/S ° ' ")	(E/W ° ' ")
	16300.00	90.19	179.57	9099.18	7973.37	-7968.38	779.20	0.00	374650.34		32 1 47.80	
	16400.00	90.19	179.57	9098.85	8073.37	-8068.38	779.94	0.00	374550.35		32 1 46.81	
	16500.00	90.19	179.57	9098.52	8173.37	-8168.37	780.69	0.00	374450.37	545337.62 N	32 1 45.82	N 104 11 13.32
	16600.00	90.19	179.57	9098.19	8273.37	-8268.37	781.43	0.00	374350.38	545338.36 N	32 1 44.83	N 104 11 13.31
	16700.00	90.19	179.57	9097.86	8373.37	-8368.37	782.17	0.00	374250.39	545339.10 N	32 1 43.84	N 104 11 13.31
	16800.00	90.19	179.57	9097.53	8473.37	-8468.36	782.92	0.00	374150.40		32 1 42.85	
	16900.00	90.19	179.57	9097.20	8573.37	-8568.36	783.66	0.00	374050.42		32 1 41.86	
	17000.00	90.19	179.57	9096.88	8673.37	-8668.36	784.40	0.00	373950.43	545341.33 N	32 1 40.87	N 104 11 13.29
	17100.00	90.19	179.57	9096.55	8773.37	-8768.35	785.15	0.00	373850.44	545342.08 N	32 1 39.88	N 104 11 13.28
	17200.00	90.19	179.57	9096.22	8873.37	-8868.35	785.89	0.00	373750.45	545342.82 N	32 1 38.89	N 104 11 13.27
	17300.00	90.19	179.57	9095.89	8973.37	-8968.35	786.63	0.00	373650.47	545343.56 N	32 1 37.90	N 104 11 13.27
	17400.00	90.19	179.57	9095.56	9073.37	-9068.34	787.38	0.00	373550.48		32 1 36.91	
	17500.00	90.19	179.57	9095.23	9173.37	-9168.34	788.12	0.00	373450.49	545345.05 N	32 1 35.92	N 104 11 13.25
	17600.00	90.19	179.57	9094.90	9273.37	-9268.34	788.86	0.00	373350.50		32 1 34.93	
	17700.00	90.19	179.57	9094.57	9373.37	-9368.33	789.60	0.00	373250.51	545346.53 N	32 1 33.94	N 104 11 13.24
	17800.00	90.19	179.57	9094.24	9473.36	-9468.33	790.35	0.00	373150.53	545347.28 N	32 1 32.95	N 104 11 13.23
	17900.00	90.19	179.57	9093.91	9573.36	-9568.33	791.09	0.00	373050.54	545348.02 N	32 1 31.96	N 104 11 13.22
	18000.00	90.19	179.57	9093.58	9673.36	-9668.32	791.83	0.00	372950.55	545348.76 N	32 1 30.98	N 104 11 13.22
	18100.00	90.19	179.57	9093.25	9773.36	-9768.32	792.58	0.00	372850.56	545349.50 N	32 1 29.99	N 104 11 13.21
	18200.00	90.19	179.57	9092.92	9873.36	-9868.32	793.32	0.00	372750.58	545350.25 N	32 1 29.00	N 104 11 13.20
	18300.00	90.19	179.57	9092.60	9973.36	-9968.31	794.06	0.00	372650.59	545350.99 N	32 1 28.01	N 104 11 13.19
	18400.00	90.19	179.57	9092.27	10073.36	-10068.31	794.81	0.00	372550.60	545351.73 N	32 1 27.02	N 104 11 13.19
	18500.00	90.19	179.57	9091.94	10173.36	-10168.31	795.55	0.00	372450.61	545352.48 N	32 1 26.03	N 104 11 13.18
	18600.00	90.19	179.57	9091.61	10273.36	-10268.30	796.29	0.00	372350.63	545353.22 N	32 1 25.04	N 104 11 13.17
	18700.00	90.19	179.57	9091.28	10373.36	-10368.30	797.03	0.00	372250.64	545353.96 N	32 1 24.05	N 104 11 13.17
	18800.00	90.19	179.57	9090.95	10473.36	-10468.30	797.78	0.00	372150.65	545354.71 N	32 1 23.06	N 104 11 13.16
	18900.00	90.19	179.57	9090.62	10573.36	-10568.29	798.52	0.00	372050.66	545355.45 N	32 1 22.07	N 104 11 13.15
	19000.00	90.19	179.57	9090.29	10673.36	-10668.29	799.26	0.00	371950.68	545356.19 N	32 1 21.08	N 104 11 13.15
	19100.00	90.19	179.57	9089.96	10773.36	-10768.29	800.01	0.00	371850.69	545356.93 N	32 1 20.09	N 104 11 13.14
	19200.00	90.19	179.57	9089.63	10873.36	-10868.28	800.75	0.00	371750.70	545357.68 N	32 1 19.10	N 104 11 13.13
	19300.00	90.19	179.57	9089.30	10973.36	-10968.28	801.49	0.00	371650.71	545358.42 N	32 1 18.11	N 104 11 13.12
	19400.00	90.19	179.57	9088.97	11073.36	-11068.28	802.24	0.00	371550.72	545359.16 N	32 1 17.12	N 104 11 13.12
	19500.00	90.19	179.57	9088.64	11173.35	-11168.28	802.98	0.00	371450.74	545359.91 N	32 1 16.13	N 104 11 13.11
LTP Cross	19501.74	90.19	179.57	9088.64	11175.09	-11170.01	802.99	0.00	371449.00	545359.92 N	1 32 1 16.11 N	V 104 11 13.11
	19600.00	90.19	179.57	9088.32	11273.35	-11268.27	803.72	0.00	371350.75	545360.65 N	32 1 15.14	N 104 11 13.10
	19700.00	90.19	179.57	9087.99	11373.35	-11368.27	804.47	0.00	371250.76	545361.39 N	32 1 14.15	N 104 11 13.10
FEW 16 21 FED STATE COM P41 4H BHL	19781.77	90.19	179.57	9087.72	11455.13	-11450.04	805.07	0.00	371169.00	545362.00 N	32 1 13.34	N 104 11 13.09

Survey Type:

Def Plan

Survey Error Model: Survey Program: ISCWSA Rev 3 *** 3-D 97.071% Confidence 3.0000 sigma

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size Cas (in)	sing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	28.000	1/100.000	30.000	30.000		B001Mb_MWD+HRGM-Depth Only	FEW 16 21 FED STATE COM P41 4H / FEW 16 21 FED STATE COM P41 4H R0 mdv 05Apr22
	1	28.000	19781.772	1/100.000	30.000	30.000		B001Mb_MWD+HRGM	FEW 16 21 FED STATE COM P41 4H / FEW 16 21 FED STATE

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PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Chervon
LEASE NO.:	NMNM138827
WELL NAME & NO.:	Few 16 21 Fed State Com 4H
SURFACE HOLE FOOTAGE:	889'/S & 1043'/E
BOTTOM HOLE FOOTAGE	50'/S & 330'/E
LOCATION:	Section 9, T.26 S., R.27 E., NMPM
COUNTY:	Eddy County, New Mexico

COA

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

Break Testing	• Yes	🗘 No

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 **450** 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 $\underline{\mathbf{8}}$ <u>hours</u> 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.

Operator is approvd to use contingency cementing plan for production and intermediate casing.

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

- 3. The minimum required fill of cement behind the 7 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
- 4. The minimum required fill of cement behind the **5 x 4-1/2**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).'
- Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi. Variance is approved to use a Choose an item. Annular which shall be tested to Choose an item. 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.

PM Approval Date: 03/02/2023

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. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

BOPE Break Testing Variance (Note: For 5M BOPE or less)

- BOPE Break Testing is ONLY permitted for 5M BOPE or less.
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required.
- The BLM is to be contacted Choose an item. 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.

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

Page 3 of 7

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981

- 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. <u>Wait on cement (WOC) for Potash Areas:</u> 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 <u>24</u>

<u>hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

- 3. <u>Wait on cement (WOC) for Water Basin:</u> 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 <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to

Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

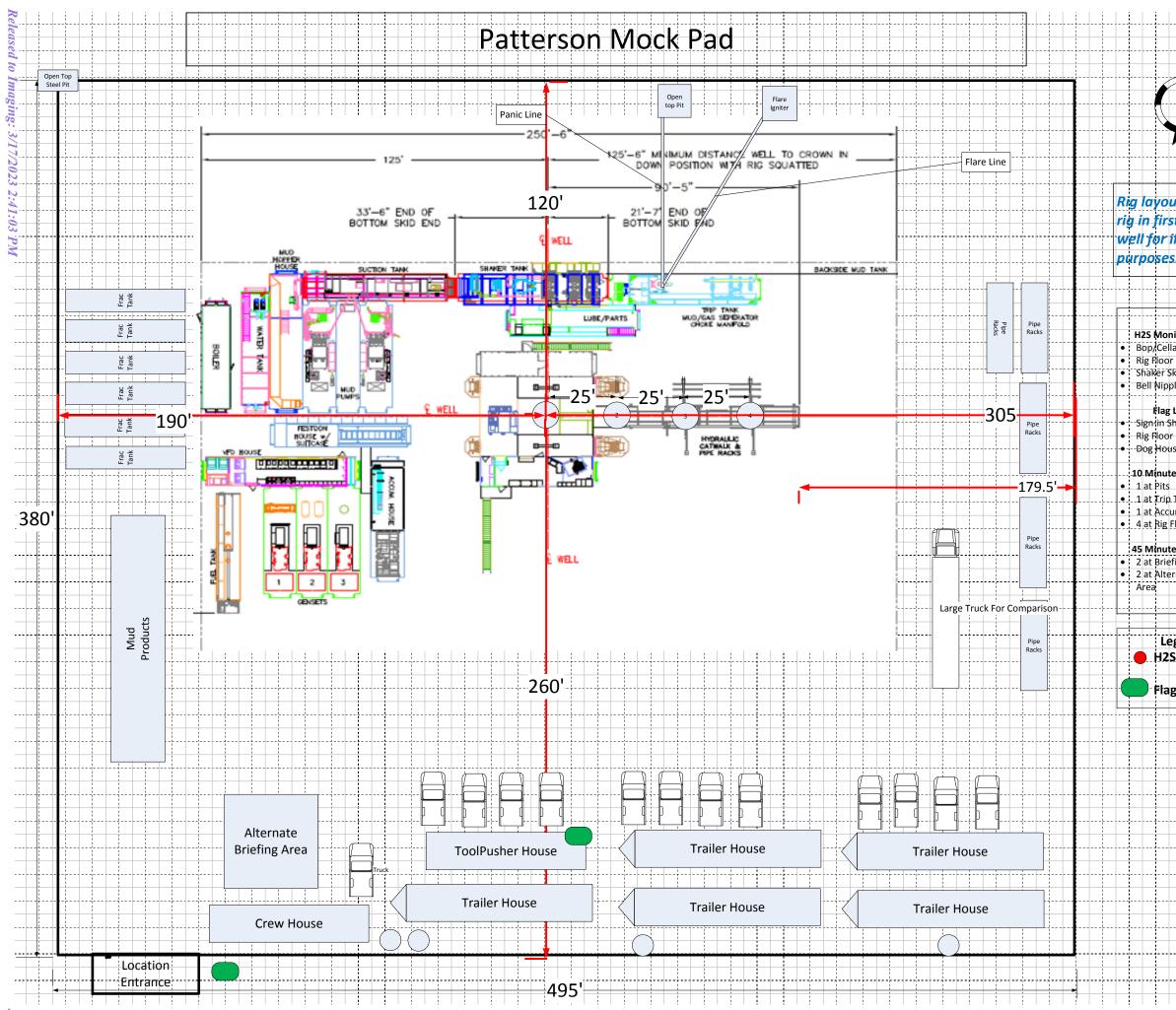
Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

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

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations. **ZS112122**

Approval Date: 03/02/2023



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Intent As Drilled		
API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitu	de				Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitu	de			<u>.</u>	Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitu	de				Longituc	le			NAD

Is this well the defining well for the Horizontal Spacing Unit?	

Is this well an infill well?

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

Operator Name: Property Name: Well Numb	API #		
	Operator Name:	Property Name:	Well Number

KZ 06/29/2018



Section 1 - Geologic Formations

Formation	_		True Vertical			Mineral Resources	Producing
ID	Formation Name	Elevation		Depth	Lithologies		Formatio
8740988	SALADO	3281	100	400	ANHYDRITĒ, SALT	NONE	N
8741000	CASTILE	2793	488	490	ANHYDRITE, SALT	NONE	N
8740991	LAMAR	1081	2200	2258	LIMESTONE, SHALE	NONE	N
8740990	BELL CANYON	1053	2228	2287	LIMESTONE, SANDSTONE	NONE	N
8740992	CHERRY CANYON	200	3081	3170	LIMESTONE, SANDSTONE, SILTSTONE	NONE	N
8740993	BRUSHY CANYON	-981	4262	4391	LIMESTONE, SANDSTONE, SILTSTONE	NONE	N
8740994	BONE SPRING LIME	-2572	5853	5993	SHALE, SILTSTONE	NONE	N
8740995	UPPER AVALON SHALE	-2666	5947	6087	SHALE	NONE	N
8740996	BONE SPRING 1ST	-3452	6733	6873	SANDSTONE, SHALE	NATURAL GAS, OIL	N
8740997	BONE SPRING 2ND	-4019	7300	7440	SANDSTONE, SHALE	NATURAL GAS, OIL	N
8740998	BONE SPRING 3RD	-5292	8573	8713	SANDSTONE, SHALE	NATURAL GAS, OIL	N
8741001	WOLFCAMP	-5642	8923	9107	SANDSTONE, SHALE	NATURAL GAS, OIL	Y
8741001	WOLFCAMP	-5642	8923	9107	SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

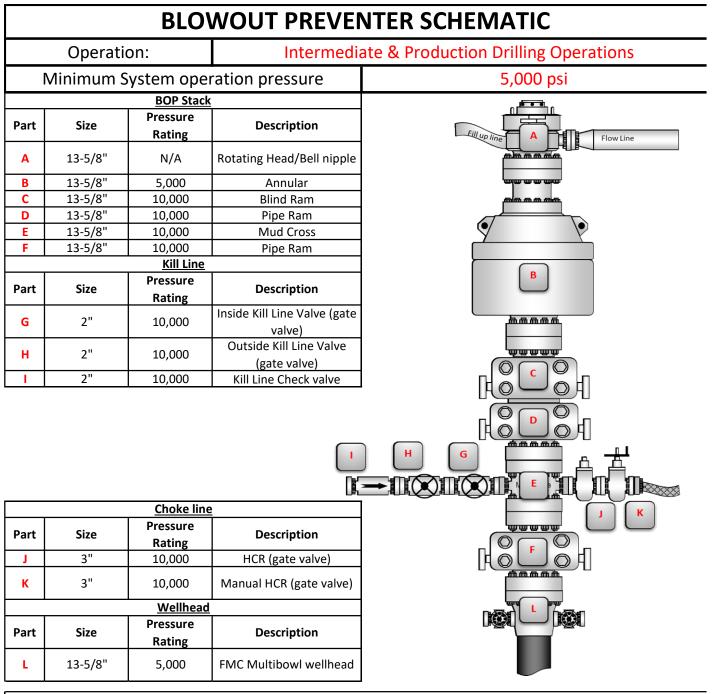
Pressure Rating (PSI): 5M

Rating Depth: 9121

Equipment: Chevron will have a minimum of a 5,000 psi rig stack (see proposed schematic) for drill out below surface casing.

Requesting Variance? YES

Variance request: Chevron is requesting the following variances: Chevron request to vary from the Onshore Order 2 where it states: "(A full BOP Test) shall be performed: when initially installed and whenever any seal subject to test pressure is broken." We propose to break test if able to finish the next hole section within 21 days of the previous full BOP test. No BOP components nor any break will ever surpass 21 days between



BOP Installation Checklist: The following items must be verified and checked off prior to pressure testing BOP equipment

The installed BOP equipment meets at least the minimum requirements (rating, type, size, configuration) as shown on this schematic. Components may be substituted for equivalent equipment rated to higher pressures. Additional components may be put into place as long as they meet or exceed the minimum pressure rating of the system.

All valves on the kill line and choke line will be full opening and will allow straight flow through.

Manual (hand wheels) or automatic locking devices will be installed on all ram preventers. Hand wheels will also be install on all manual valves on the choke and kill line.

A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will remain open unless accumulator is inoperative.

Upper kelly cock valve with handle will be available on rig floor along with saved valve and subs to fit all drill string connections in use.

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

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	196497
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Will require a name change complying with OCD policy prior to putting the well into production.	3/15/2023
kpickford	Notify OCD 24 hours prior to casing & cement	3/15/2023
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	3/15/2023
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	3/15/2023
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	3/15/2023
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	3/15/2023

Action 196497