BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 1a. Type of work: DRILL Ia. Type of work: DRILL REENTER 7. If Unit of the second seco	FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018 5. Lease Serial No.				
APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If India 1a. Type of work: DRILL REENTER 7. If Unit / 1b. Type of Well: Oil Well Gas Well Other 8. Lease N 1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone 8. Lease N 2. Name of Operator 9. APJ Well 3b. Phone No. (include area code) 10. Field at 3a. Address 3b. Phone No. (include area code) 10. Field at 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec. T At proposed prod. zone 14. Distance from proposod* 12. Count 15. Distance from proposod* 19. Proposed Depth 20. BLM/BIA Bond 3t applied for, on this lease, ft. 19. Proposed Depth 20. BLM/BIA Bond 3t 17. Is pacing Unit ded 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimate 24. Attachments 4. Bond to cover the operations unless cov 16. Sho to nearest are superified in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fr (as applicable) 3. A Surface Use Plan (If the location is on National Forest System Lands, the Superified to now one of the appropriate Forest Service Office) 5. Operator certification. </td					
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of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.					
(Continued on page 2)	*(Instruc	ctions on page 2)			

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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 Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

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

Page 2 of 30

.

WELL LOCATION AND ACREAGE DEDICATION PLAT

	¹ API Nu		² Poo	ol Code		³ Pool Name							
30-0	015-50	178	13	TON DRAW;B	ONE SPRING								
⁴ Proper	•		⁵ Property Name										
333569	9		SND 14 23 FED COM P429 429H										
⁷ OGR	ID No.		⁸ Operator Name ⁹ Elevation										
43	23		CHEVRON U.S.A. INC. 3569'										
	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			
А	14	24 SOUTH	31 EAST, N.M.P.N	И.	1090'	NORTH	983'	EAST		EDDY			
			¹¹ Bottom	Hole Locat	tion If Diffe	erent From S	Surface						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line		County			
0	23	24 SOUTH	31 EAST, N.M.P.N	И.	25'	SOUTH	2310'	EA	ST	EDDY			
¹² Dedicated A	edicated Acres ¹³ Joint or Infill ¹⁴ Consolidation Code ¹⁵		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	A B C D	17 OPERATOR CERTIFICATION
SND 14 23 FED COM P429 429H PROPOSED FIRST TAKE POINT	Proposed	I hereby certify that the information contained herein is true and complete
X= 682,634' X= 681,301'		to the best of my knowledge and belief, and that this organization either
Y= 444,810' Y= 445,791' NAD 27	100' FNL 2310' FEL	owns a working interest or unleased mineral interest in the land including
LAT. 32.221520° N NOD 27 LAT. 32.224238° N NOD 27 LONG. 103.742762° W LONG. 103.747053° W		the proposed bottom hole location or has a right to drill this well at this
X= 723,818' X= 722,485'	N 53°37'32" W -	location pursuant to a contract with an owner of such a mineral or
Y= 444,869' Y= 445,850' NAD83/2011 LAT. 32.221643° N NAD83/2011 LAT. 32.224361° N NAD83/2011	1655.03'	working interest, or to a voluntary pooling agreement or a compulsory
LONG. 103.743244° W LONG. 103.747536° W		
ELEV. +3569' NAVD88		pooling order heretofore entered by the division.
PROPOSED LAST TAKE POINT PROPOSED BOTTOM HOLE LOCATION		Jennifer Van Curen 9/11/2021
X= 681,365' Y= 435,428' y= 435,353' y= 435,353'	00°19'25"	Signature Date
LAT. 32.195750° N NAD 27 LAT. 32.195544° N NAD 27	10	
LONG. 103.747032° W X= 722.549' X= 722.549'		
Y= 435,487' NAD83/2011 Y= 435,412' NAD83/2011	ι s s s s s s s s s s s s s s s s s s s	Printed Name
LAT. 32.195873° N (ND002011) LAT. 32.195667° N (ND002011) LONG. 103.747514° W LONG. 103.747513° W	Proposed	
	Mid-Point	E-mail Address
PROPOSED MID-POINT		
X= 681,331' Y= 440,610'		ISURVEYOR CERTIFICATION
LAT. 32.209994° N LAT. 32.209994° N		I hereby certify that the well location shown on this
LONG. 103.747050° W X= 722,515'		
Y= 440,668' LAT. 32.210117° N ^{NAD83/2011}	69	plat was plotted from field notes of actual surveys
LONG. 103.747532° W	2556.1	made by me or under my supervision, and that the
CORNER COORDINATES TABLE (NAD 27)	25	same is true and correct to the best of my belief.
A - X= 678324.50. Y= 445873.60		06/21/2021 CRT L. LASTRA
B - X= 680967.68, Y= 445889.45		06/21/2021
C - X= 682289.27, Y= 445897.38	−−−−−−−−−−−−−−−	Date of Survey
D - X= 683610.86, Y= 445905.30	23 20 0 0 0 0 0 0 0 0 0 0 0 0 0	Signature and Seal of Frofessional Surveyor.
E - X= 678357.86, Y= 440591.53	ι s s s s s s s s s s s s s s s s s s s	(23006) 11/04/2021
F - X= 680999.28, Y= 440607.68 G - X= 682319.99, Y= 440615.75		
H - X= 683640.70, Y= 440623.82	Proposed	AXXXX
I - X= 678390.49, Y= 435311.46	Last Take Point	ARTIC LEPY A
J - X= 681032.50, Y= 435326.28	100' FSL 2310' FEL	F3S/ONAL SURVE
K - X= 682353.98, Y= 435333.58		Certificate Number
L - X= 683675.14, Y= 435340.95		

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.

Rec	eived	by	OCD:	11/4/20)22 7:3	9:02 AM
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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: Chevron USA Inc

OGRID: 4323 Date: <u>1</u> / 31 / <u>2022</u>

II. Type: \square Original \square Amendment due to \square 19.15.27.9.D(6)(a) NMAC \square 19.15.27.9.D(6)(b) NMAC \square 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
SND 14 23 FED COM 429H	Pending	UL:A, Sec 14, T24S-R31E	1090' FNL, 983' FEL	2230 BBL/D	3980 MCF/D	3220 BBL/D
SND 14 23 FED COM 430H	Pending	UL:A, Sec 14, T24S-R31E	1089' FNL, 958' FEL	2230 BBL/D	3980 MCF/D	3220 BBL/D
SND 14 23 FED COM 431H	Pending	UL:A, Sec 14, T24S-R31E	1089' FNL, 933' FEL	2230 BBL/D	3980 MCF/D	3220 BBL/D
SND 14 23 FED COM 432H	Pending	UL:A, Sec 14, T24S-R31E	1090' FNL, 908' FEL	2230 BBL/D	3980 MCF/D	3220 BBL/D

IV. Central Delivery Point Name: <u>Sand Dunes CTB 12</u> [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	Date Commencement		Date	
				Date			
SND 14 23 FED COM 429H	Pending	7/14/2024	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	
SND 14 23 FED COM 430H	Pending	<u>8/1/2024</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	
SND 14 23 FED COM 431H	Pending	<u>8/19/2024</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	
SND 14 23 FED COM 432H	Pending	<u>9/6/2024</u>	<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: 🛛 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:

 \boxtimes 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: Cincly Herrera-Murillo Printed Name: Cincly Herrera-Murillo									
Printed Name: Cindy Herrera-Murillo									
Title: Sn Regulatory Affairs Coordinator									
E-mail Address: eeof@chevron.com									
Date: 01/31/2022									
Phone: 575-263-0431									
OIL CONSERVATION DIVISION									
(Only applicable when submitted as a standalone form)									
Approved By:									
Title:									
Approval Date:									
Conditions of Approval:									

Received by OCD: 11/4/2022 7:39:02 AM

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND 14 23 FED COM P429

Well Number: 429H

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. -A variance to use a CoFlex hose with a metal protective covering that will be utilized between the BOP and Choke manifold. Please refer to the attached testing and specification documents. -A variance 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 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 liner hole 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.

Testing Procedure: Stack will be tested as specified in the attached testing requirements, upon NU and not to exceed 30 days. Test BOP from 250 psi to 5000 psi in Ram and 250 psi to 3500 psi in annular. BOP/BOPE will be tested by an independent service company to 250 psi low and a minimum of the high pressure indicated above. Batch drilling of the surface, intermediate, and production will take place. A full BOP test will be performed each hole section unless approval from the BLM is received otherwise. Flex choke hose will be used for all wells on the pad (see attached specs). BOP test will be conducted by a third party.

Choke Diagram Attachment:

BLM_5M_Choke_Manifold_Diagram_20220124114308.pdf

BLM_Choke_Hose_Test_Specs_and_Pressure_Test_Continental_20220124114314.pdf

BOP Diagram Attachment:

BLM_5M_Annular_10M_Rams_Stackup_and_Test_Plan_20220124114322.pdf

Sundry_Break_Testing_and_WOC_500_psi_SND_Pad_429_20220124114332.pdf

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	16	13.37	NEW	API	N	0	1033	0	1033	3569	2536	1033	J-55	54.5	ST&C	2.13	1.43	BUOY	4.07	BUOY	4.07
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	4640	0	4540	3538	-971	4640	L-80		OTHER - BTC	1.24	1.64	BUOY	2.78	BUOY	2.78
3	PRODUCTI ON	8.75	7.0	NEW	API	N	0	9900	0	9685	3538	-6116	9900	OTH ER		OTHER - BLUE	1.63	1.15	BUOY	2.39	BUOY	2.39
4	PRODUCTI ON	6.12 5	5.0	NEW	API	N	9600	10400	9385	10085	-5816	-6516	800	P- 110	-	OTHER - W513	1.39	1.1	BUOY	1.32	BUOY	1.32
5	PRODUCTI ON	6.12 5	4.5	NEW	API	N	10400	20717	10085	10185	-6516	-6616	10317	P- 110		OTHER - W521	1.39	1.1	BUOY	1.32	BUOY	1.32

Section 3 - Casing

Received by OCD: 11/4/2022 7:39:02 AM

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND 14 23 FED COM P429

Well Number: 429H

Casing Attachments

Casing ID: 1 String SURFA	CE
Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet	(s):
13.375_54.5ppf_J55_STC_20220124144	010.pdf
6 6	MEDIATE
Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet	(s):
9.625_40.0lb_L80IC_BTC_20220124144	217.pdf
Casing ID: 3 String PRODU	JCTION
Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet	(s):

7_29ppf_TN110SS_TSH_Blue_20220124144304.pdf

Received by OCD: 11/4/2022 7:39:02 AM

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND 14 23 FED COM P429

Well Number: 429H

Casing ID: 4 String PRODUCTION

Inspection Document:

Spec Document:

Casing Attachments

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $5_18ppf_P110_Flush_W513_20220124144108.pdf$

Casing ID: 5 String PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

4.5_11.6ppf_P110_TSH_W521_20220124144430.pdf

Section	4 - Ce	men	L								
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		NONE	NONE
SURFACE	Tail		0	1033	483	1.34	14.8	647	100	CLASS C	Extender, Antifoam, Retarder
INTERMEDIATE	Lead		0	3640	1140	2	13.2	2280	100	Class C	Extender, Antifoam, Retarder
INTERMEDIATE	Tail		3640	4640	336	1.4	14.8	470	50	Class C	Extender, Antifoam, Retarder
PRODUCTION	Lead		4140	8900	537	2	13.2	1073	50	Class C	Extender, Antifoam, Retarder, Viscosifier

Section 4 - Cement

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND 14 23 FED COM P429

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		8900	9900	134	1.4	14.8	188	25		Extender, Antifoam, Retarder, Viscosifier
PRODUCTION	Lead		9600	2071 7	711	1.84	13.2	1309	25		Extender, Antifoam, Retarder, Viscosifier

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: A closed system will be used consisting of above ground steel tanks. 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. Sanitary wastes will be contained in a chemical portatoilet 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.

Describe the mud monitoring system utilized: A mud test shall be performed every 24 hours after muddling 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 PVT, stroke counter, flow sensor will be used to detect volume changes indicating loss or gain of circulating agent and lost circulating material (LCM) will be onsite to mitigate pressure or lost circulation as hole conditions dictate.

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)	НА	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1033	SPUD MUD	8.3	8.9							Viscosity: 26-36 Filtrate: 15-25
1033	4640	OTHER : Brine	8.3	10.6							Viscosity: 26-36, Filtrate: 15- 25 10# WILL BE USED IN SALT ZONE

Operator Name: CHEVRON USA INCORPORATED

Well Number: 429H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
4640	9900	OTHER : Water Based Mud / Brine	8.7	10.6							Viscosity: 26-36, Filtrate: 15- 25
9900	2071 7	OIL-BASED MUD	8.7	10.5							Viscosity: 50-70, Filtrate: 5-10

Section 6 - Test, Logging, Coring

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

Drill stem tests are not planned The logging program will be as follows:

Type: LWD Logs: MWD gamma Interval: Int. and Prod. Hole Timing: While drilling List of open and cased hole logs run in the well:

GAMMA RAY LOG, MUD LOG/GEOLOGIC LITHOLOGY 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.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5084

Anticipated Surface Pressure: 2843

Anticipated Bottom Hole Temperature(F): 150

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

 $Chevron_Standard_H2S_Contingency_Plan_20220124145025.pdf$

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND 14 23 FED COM P429

Well Number: 429H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

DefPlan100ft_SND_14_23_Fed_Com_P429_429H_R0_20220124145243.pdf

SND_14_23_Fed_Com_P429_429H_20220818102503.pdf

Other proposed operations facets description:

- 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 casing and cement program.

Other proposed operations facets attachment:

4well_rig_layout_20220124145318.pdf Surface_Rig___20220124145335.pdf

Other Variance attachment:

Schlumberger

Javelina Unit 429H R0 mdv 03Sep21 Proposal Geodetic Report



(Def Plan)

Report Date: Client:	September 08, 2021 - 10:37 AM Chevron	Survey / DLS Computation: Vertical Section Azimuth:	Minimum Curvature / Lubinski 179.655 ° (Grid North)
Field:	NM, Eddy County (NAD 27 EZ)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Chevron Javelina Unit Pad 429 / Javelina Unit 429H	TVD Reference Datum:	KB - 28ft (TBD)
Well:	Javelina Unit 429H	TVD Reference Elevation:	3597.000 ft above MSL
Borehole:	Javelina Unit 429H	Seabed / Ground Elevation:	3569.000 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	6.501 °
Survey Name:	Javelina Unit 429H R0 mdv 03Sep21	Total Gravity Field Strength:	998.4285mgn (9.80665 Based)
Survey Date:	September 03, 2021	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	123.984 ° / 12174.282 ft / 6.484 / 1.187	Total Magnetic Field Strength:	47674.721 nT
Coordinate Reference System:	NAD27 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	59.855 °
Location Lat / Long:	N 32° 13' 17.47245", W 103° 44' 33.94176"	Declination Date:	September 03, 2021
Location Grid N/E Y/X:	N 444810.000 ftUS, E 682634.000 ftUS	Magnetic Declination Model:	HDGM 2021
CRS Grid Convergence Angle:	0.3149 °	North Reference:	Grid North
Grid Scale Factor:	0.99994729	Grid Convergence Used:	0.3149 °
Version / Patch:	2.10.826.8	Total Corr Mag North->Grid North:	6.1857 °
		Local Coord Referenced To:	Well Head

Comments	MD (ft)	Inci (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	444810.00	682634.00		W 103 44 33.94
	100.00	0.00	307.71	100.00	0.00	0.00	0.00	0.00	444810.00		N 32 13 17.47	
	200.00	0.00	307.71	200.00	0.00	0.00	0.00	0.00	444810.00	682634.00	N 32 13 17.47	W 103 44 33.94
	300.00	0.00	307.71	300.00	0.00	0.00	0.00	0.00	444810.00		N 32 13 17.47	
	400.00	0.00	307.71	400.00	0.00	0.00	0.00	0.00	444810.00		N 32 13 17.47	
	500.00	0.00	307.71	500.00	0.00	0.00	0.00	0.00	444810.00		N 32 13 17.47	
	600.00	0.00	307.71	600.00	0.00	0.00	0.00	0.00	444810.00		N 32 13 17.47	
Puptlar (DSLD)	700.00	0.00	307.71	700.00 793.07	0.00	0.00	0.00	0.00	444810.00		N 32 13 17.47 N 32 13 17.47	
Rustler (RSLR) Build 1.5°/100ft	793.07 800.00	<i>0.00</i> 0.00	<i>307.71</i> 307.71	800.00	<i>0.00</i> 0.00	<i>0.00</i> 0.00	<i>0.00</i> 0.00	<i>0.00</i> 0.00	<i>444810.00</i> 444810.00		N 32 13 17.47	
Dullu 1.5 / TOOL	900.00	1.50	307.71	899.99	-0.81	0.80	-1.04	1.50	444810.80		N 32 13 17.48	
	1000.00	3.00	307.71	999.91	-3.23	3.20	-4.14	1.50	444813.20		N 32 13 17.50	
Rustler Los Medaños	1006.94	3.10	307.71	1006.84	-3.45	3.43	-4.43	1.50	444813.43	682629 57	N 32 13 17.51	W 103 44 33 99
Member	1000.04	0.70	307.77	1000.04	5.40	0.40	4.40	1.00	444070.40	002020.07	N 02 10 17.01	100 44 00.00
	1100.00	4.50	307.71	1099.69	-7.26	7.20	-9.31	1.50	444817.20	682624.69	N 32 13 17.54	W 103 44 34.05
Saldo (SLDO)	1101.01	4.52	307.71	1100.70	-7.31	7.25	-9.38	1.50	444817.25	682624.62	N 32 13 17.54	W 103 44 34.05
	1200.00	6.00	307.71	1199.27	-12.90	12.80	-16.55	1.50	444822.80	682617.45	N 32 13 17.60	W 103 44 34.13
	1300.00	7.50	307.71	1298.57	-20.14	19.99	-25.85	1.50	444829.99	682608.15	N 32 13 17.67	W 103 44 34.24
	1400.00	9.00	307.71	1397.54	-28.99	28.77	-37.20	1.50	444838.77		N 32 13 17.76	
	1500.00	10.50	307.71	1496.09	-39.43	39.13	-50.60	1.50	444849.12		N 32 13 17.86	
	1600.00	12.00	307.71	1594.16	-51.46	51.06	-66.03	1.50	444861.06		N 32 13 17.98	
	1700.00	13.50	307.71	1691.70	-65.06	64.56	-83.49	1.50	444874.56		N 32 13 18.12	
Hold	1800.00	15.00	307.71	1788.62	-80.24	79.62	-102.96	1.50	444889.61		N 32 13 18.27	
Hold	1866.56 1900.00	16.00 16.00	307.71 307.71	1852.75 1884.90	-91.20 -96.88	90.50 96.13	-117.03 -124.32	1.50 0.00	444900.49 444906.13		N 32 13 18.37 N 32 13 18.43	
	2000.00	16.00	307.71	1984.90	-96.88 -113.87	96.13 112.99	-124.32 -146.13	0.00	444906.13		N 32 13 18.43	
	2100.00	16.00	307.71	2077.15	-130.86	129.85	-167.93	0.00	444922.99 444939.85		N 32 13 18.00	
	2200.00	16.00	307.71	2173.28	-147.85	146.71	-189.73	0.00	444956.70		N 32 13 18.93	
	2300.00	16.00	307.71	2269.41	-164.84	163.57	-211.54	0.00	444973.56		N 32 13 19.10	
	2400.00	16.00	307.71	2365.53	-181.83	180.43	-233.34	0.00	444990.42		N 32 13 19.27	
	2500.00	16.00	307.71	2461.66	-198.82	197.29	-255.14	0.00	445007.28		N 32 13 19.44	
	2600.00	16.00	307.71	2557.79	-215.81	214.15	-276.94	0.00	445024.14		N 32 13 19.61	
	2700.00	16.00	307.71	2653.92	-232.80	231.01	-298.75	0.00	445041.00		N 32 13 19.77	
	2800.00	16.00	307.71	2750.04	-249.79	247.87	-320.55	0.00	445057.85	682313.47	N 32 13 19.94	W 103 44 37.66
	2900.00	16.00	307.71	2846.17	-266.78	264.73	-342.35	0.00	445074.71	682291.67	N 32 13 20.11	W 103 44 37.91
	3000.00	16.00	307.71	2942.30	-283.77	281.59	-364.16	0.00	445091.57		N 32 13 20.28	
	3100.00	16.00	307.71	3038.42	-300.77	298.45	-385.96	0.00	445108.43		N 32 13 20.45	
Castile (CSTL)	3107.51	16.00	307.71	3045.64	-302.04	299.71	-387.60	0.00	445109.70		N 32 13 20.46	
	3200.00	16.00	307.71	3134.55	-317.76	315.31	-407.76	0.00	445125.29		N 32 13 20.61	
	3300.00	16.00	307.71	3230.68	-334.75	332.17	-429.56	0.00	445142.15		N 32 13 20.78	
	3400.00	16.00	307.71	3326.80	-351.74	349.02	-451.37	0.00	445159.01		N 32 13 20.95	
	3500.00 3600.00	16.00 16.00	307.71 307.71	3422.93 3519.06	-368.73 -385.72	365.88 382.74	-473.17 -494.97	0.00 0.00	445175.86 445192.72		N 32 13 21.12 N 32 13 21.29	
	3700.00	16.00	307.71	3615.18	-402.71	399.60	-494.97 -516.78	0.00	445192.72		N 32 13 21.29	
	3800.00	16.00	307.71	3711.31	-419.70	416.46	-538.58	0.00	445226.44		N 32 13 21.43	
	3900.00	16.00	307.71	3807.44	-436.69	433.32	-560.38	0.00	445243.30		N 32 13 21.79	
	4000.00	16.00	307.71	3903.57	-453.68	450.18	-582.18	0.00	445260.16		N 32 13 21.96	
	4100.00	16.00	307.71	3999.69	-470.67	467.04	-603.99	0.00	445277.01		N 32 13 22.13	
	4200.00	16.00	307.71	4095.82	-487.66	483.90	-625.79	0.00	445293.87		N 32 13 22.29	
	4300.00	16.00	307.71	4191.95	-504.65	500.76	-647.59	0.00	445310.73	681986.44	N 32 13 22.46	W 103 44 41.45
	4400.00	16.00	307.71	4288.07	-521.64	517.62	-669.40	0.00	445327.59	681964.64	N 32 13 22.63	W 103 44 41.70
	4500.00	16.00	307.71	4384.20	-538.63	534.48	-691.20	0.00	445344.45		N 32 13 22.80	
	4600.00	16.00	307.71	4480.33	-555.62	551.34	-713.00	0.00	445361.31		N 32 13 22.97	
Lamar (LMAR)	4656.59	16.00	307.71	4534.73	-565.24	560.88	-725.34	0.00	445370.85		N 32 13 23.06	
Bell Canyon	4700.00	16.00	307.71	4576.45	-572.61	568.20	-734.81	0.00	445378.16		N 32 13 23.13	
(BLCN)	4704.18	16.00	307.71	4580.47	-573.32	568.90	-735.72	0.00	445378.87		N 32 13 23.14	
	4800.00	16.00	307.71	4672.58	-589.60	585.06	-756.61	0.00	445395.02		N 32 13 23.30	
	4900.00	16.00	307.71	4768.71	-606.59	601.91	-778.41	0.00	445411.88		N 32 13 23.47	
	5000.00	16.00	307.71	4864.84	-623.58	618.77	-800.21	0.00	445428.74		N 32 13 23.64	
	5100.00	16.00	307.71	4960.96	-640.57	635.63	-822.02	0.00	445445.60		N 32 13 23.81	
	5200.00	16.00	307.71	5057.09	-657.56	652.49	-843.82	0.00	445462.46		N 32 13 23.97	
	5300.00	16.00	307.71	5153.22	-674.55	669.35	-865.62	0.00	445479.32		N 32 13 24.14	
	5400.00 5500.00	16.00 16.00	307.71 307.71	5249.34 5345.47	-691.54 -708.53	686.21 703.07	-887.43 -909.23	0.00 0.00	445496.17 445513.03		N 32 13 24.31 N 32 13 24.48	
	5600.00	16.00	307.71	5441.60	-725.52	719.93	-931.03	0.00	445529.89		N 32 13 24.48	
Cherry Canyon	5624.35	16.00	307.71	5465.00	-729.66	724.03	-936.34	0.00	445534.00		N 32 13 24.69	
(CRCN)	5700.00	16.00	307.71	5537.72	-742.51	724.03	-952.83	0.00	445546.75		N 32 13 24.81	
	5800.00 5900.00	16.00 16.00	307.71 307.71	5633.85 5729.98	-759.50 -776.49	753.65 770.51	-974.64 -996.44	0.00 0.00	445563.61 445580.47		N 32 13 24.98 N 32 13 25.15	
	6000.00	16.00 16.00	307.71 307.71	5729.98 5826.11	-776.49 -793.48	770.51 787.37	-996.44 -1018.24		445580.47 445597.32		N 32 13 25.15 N 32 13 25.32	
	6100.00	16.00	307.71	5922.23	-793.48 -810.47	804.23	-1018.24 -1040.05	0.00 0.00	445597.32 445614.18		N 32 13 25.32	
	6200.00	16.00	307.71	6018.36	-810.47 -827.47	821.09	-1061.85	0.00	445631.04		N 32 13 25.49	
	6300.00	16.00	307.71	6114.49	-844.46	837.95	-1083.65	0.00	445631.04 445647.90		N 32 13 25.82	
Drop 0.75°/100ft	6371.85	16.00	307.71	6183.55	-856.66	850.06	-1099.32	0.00	445660.01		N 32 13 25.94	
0,75 / 100It		16.00	307.71	6183.55	-856.66 -861.41	850.06		0.00	445660.01 445664.73			
	6400.00	13.79	307.71	0210.03	-001.41	004.77	-1105.42	0.75	440004.13	001020.04	N 32 13 25.99	vv 103 44 40./5

...Javelina Unit 429H\Javelina Unit 429H\Javelina Unit 429H R0 mdv 03Sep21

Drilling Office 2.10.826.8

Schlumberger-Private

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Comments	MD	Incl	Azim Grid	TVD	VSEC	NS	EW	DLS	Northing	Easting Latitude Longitude
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(ftUS)	(ftUS) (N/S ° ' ") (E/W ° ' ")
	6500.00	15.04	307.71	6307.03	-877.80	871.03	-1126.44	0.75	445680.98	681507.62 N 32 13 26.15 W 103 44 47.00
	6600.00	14.29	307.71	6403.77	-893.40	886.51	-1146.46	0.75	445696.47	681487.60 N 32 13 26.31 W 103 44 47.23
	6700.00	13.54	307.71	6500.84	-908.22	901.22	-1165.48	0.75	445711.17	681468.58 N 32 13 26.45 W 103 44 47.45
Brushy Canyon	6800.00	12.79	307.71	6598.21	-922.26	915.15	-1183.50	0.75	445725.10	681450.57 N 32 13 26.59 W 103 44 47.66
(BCN)	6881.85	12.17	307.71	6678.13	-933.17	925.97	-1197.49	0.75	445735.92	681436.58 N 32 13 26.70 W 103 44 47.82
	6900.00	12.04	307.71	6695.87	-935.51	928.30	-1200.50	0.75	445738.25	681433.57 N 32 13 26.72 W 103 44 47.86
	7000.00	11.29	307.71	6793.81	-947.97	940.66	-1216.49	0.75	445750.61	681417.58 N 32 13 26.85 W 103 44 48.04
	7100.00	10.54	307.71	6892.00	-959.64	952.24	-1231.47	0.75	445762.19	681402.60 N 32 13 26.96 W 103 44 48.22
	7200.00	9.79	307.71	6990.43	-970.52	963.04	-1245.42	0.75	445772.98	681388.64 N 32 13 27.07 W 103 44 48.38
	7300.00	9.04	307.71	7089.08	-980.60	973.04	-1258.36	0.75	445782.99	681375.71 N 32 13 27.17 W 103 44 48.53
	7400.00	8.29	307.71	7187.94	-989.88	982.25	-1270.28	0.75	445792.20	681363.79 N 32 13 27.26 W 103 44 48.67
	7500.00	7.54	307.71	7286.99	-998.37	990.67	-1281.16	0.75	445800.62	681352.91 N 32 13 27.34 W 103 44 48.79
	7600.00	6.79	307.71	7386.21	-1006.06	998.30	-1291.03	0.75	445808.25	681343.04 N 32 13 27.42 W 103 44 48.91
	7700.00	6.04	307.71	7485.58	-1012.94	1005.13	-1299.86	0.75	445815.08	681334.21 N 32 13 27.49 W 103 44 49.01
	7800.00	5.29	307.71	7585.09	-1019.02	1011.17	-1307.67	0.75	445821.11	681326.40 N 32 13 27.55 W 103 44 49.10
	7900.00	4.54	307.71	7684.73	-1024.30	1016.41	-1314.44	0.75	445826.35	681319.63 N 32 13 27.60 W 103 44 49.18
	8000.00	3.79	307.71	7784.46	-1028.78	1020.85	-1320.18	0.75	445830.79	681313.89 N 32 13 27.65 W 103 44 49.24
	8100.00	3.04	307.71	7884.28	-1032.45	1024.49	-1324.89	0.75	445834.43	681309.18 N 32 13 27.68 W 103 44 49.30
	8200.00	2.29	307.71	7984.17	-1035.31	1027.33	-1328.57	0.75	445837.27	681305.51 N 32 13 27.71 W 103 44 49.34
	8300.00	1.54	307.71	8084.12	-1037.37	1029.37	-1331.21	0.75	445839.31	681302.87 N 32 13 27.73 W 103 44 49.37
	8400.00	0.79	307.71	8184.10	-1038.62	1030.61	-1332.81	0.75	445840.55	681301.26 N 32 13 27.74 W 103 44 49.39
	8500.00	0.04	307.71	8284.09	-1039.06	1031.05	-1333.38	0.75	445840.99	681300.69 N 32 13 27.75 W 103 44 49.40
Hold Vertical	8504.96	0.00	307.71	8289.05	-1039.06	1031.05	-1333.38	0.75	445840.99	681300.69 N 32 13 27.75 W 103 44 49.40
	8600.00	0.00	307.71	8384.09	-1039.06	1031.05	-1333.38	0.00	445840.99	681300.69 N 32 13 27.75 W 103 44 49.40
Bone Spring	8625.20	0.00	307.71	8409.29	-1039.06	1031.05	-1333.38	0.00	445840.99	681300.69 N 32 13 27.75 W 103 44 49.40
(BSGL) Upper Avalon	8684.08	0.00	307.71	8468.17	-1039.06	1031.05	-1333.38	0.00	445840.99	681300.69 N 32 13 27.75 W 103 44 49.40
(AVN)	8700.00	0.00	307.71	8484.09	-1039.06	1031.05	-1333.38	0.00	445840.99	681300.69 N 32 13 27.75 W 103 44 49.40
	8800.00	0.00	307.71	8584.09	-1039.06	1031.05	-1333.38	0.00	445840.99	681300.69 N 32 13 27.75 W 103 44 49.40
	8900.00	0.00	307.71	8684.09	-1039.06	1031.05	-1333.38	0.00	445840.99	681300.69 N 32 13 27.75 W 103 44 49.40
	9000.00	0.00	307.71	8784.09	-1039.06	1031.05	-1333.38	0.00	445840.99	681300.69 N 32 13 27.75 W 103 44 49.40
Lower Avalon	9100.00	0.00	307.71	8884.09	-1039.06	1031.05	-1333.38	0.00	445840.99	681300.69 N 32 13 27.75 W 103 44 49.40
(AVL)	9163.71	<i>0.00</i>	307.71	8947.80	<i>-1039.06</i>	<i>1031.05</i>	<i>-1333.38</i>	<i>0.00</i>	445840.99	681300.69 N 32 13 27.75 W 103 44 49.40
	9200.00	0.00	307.71	8984.09	-1039.06	1031.05	-1333.38	0.00	445840.99	681300.69 N 32 13 27.75 W 103 44 49.40
	9200.00 9300.00	0.00	307.71	9084.09 9084.09	-1039.06	1031.05	-1333.38	0.00	445840.99 445840.99	681300.69 N 32 13 27.75 W 103 44 49.40 681300.69 N 32 13 27.75 W 103 44 49.40
	9400.00	0.00	307.71	9184.09	-1039.06	1031.05	-1333.38	0.00	445840.99	681300.69 N 32 13 27.75 W 103 44 49.40
	9500.00	0.00	307.71	9284.09	-1039.06	1031.05	-1333.38	0.00	445840.99	681300.69 N 32 13 27.75 W 103 44 49.40
	9600.00	0.00	307.71	9384.09	-1039.06	1031.05	-1333.38	0.00	445840.99	681300.69 N 32 13 27.75 W 103 44 49.40
First Bone Spring Upper (FBS)	9674.62	0.00	307.71	9458.71	-1039.06	1031.05	-1333.38	0.00	445840.99	681300.69 N 32 13 27.75 W 103 44 49.40
()	9700.00	0.00	307.71	9484.09	-1039.06	1031.05	-1333.38	0.00	445840.99	681300.69 N 32 13 27.75 W 103 44 49.40
	9800.00	0.00	307.71	9584.09	-1039.06	1031.05	-1333.38	0.00	445840.99	681300.69 N 32 13 27.75 W 103 44 49.40
	9900.00	0.00	307.71	9684.09	-1039.06	1031.05	-1333.38	0.00	445840.99	681300.69 N 32 13 27.75 W 103 44 49.40
Build 10°/100ft <i>First Bone</i>	9900.96	0.00	307.71	9685.05	-1039.06	1031.05	-1333.38	0.00	445840.99	681300.69 N 32 13 27.75 W 103 44 49.40
Spring Lower	<i>9952.4</i> 8	<i>5.15</i>	179.67	9736.50	- <i>1036.75</i>	1028.74	- <i>13</i> 33.37	<i>10.00</i>	445838.68	681300.71 N 32 13 27.72 W 103 44 49.40
(FBL)	10000.00	9.90	179.67	9783.60	-1030.52	1022.51	-1333.33	10.00	445832.46	681300.74 N 32 13 27.66 W 103 44 49.40
	10100.00	19.90	179.67	9880.11	-1004.83	996.82	-1333.18	10.00	445806.77	681300.89 N 32 13 27.41 W 103 44 49.40
FTP Cross	<i>10141.</i> 73	2 <i>4.08</i>	179.67	<i>9918.80</i>	<i>-989.21</i>	981.20	- <i>1333.09</i>	<i>10.00</i>	<i>44</i> 5791.15	681300.98 N 32 13 27.25 W 103 44 49.40
	10200.00	29.90	179.67	9970.70	-962.78	954.77	-1332.94	10.00	445764.71	681301.13 N 32 13 26.99 W 103 44 49.40
Second Bone	10300.00	39.90	179.67	10052.61	-905.63	897.62	-1332.61	10.00	445707.57	681301.47 N 32 13 26.43 W 103 44 49.40
Spring Upper	10320.05	41.91	179.67	10067.76	-892.50	884.49	-1332.53	10.00	445694.44	681301.54 N 32 13 26.30 W 103 44 49.40
(SBU)	10400.00	49.90	179.67	10123.35	-835.12	827.12	-1332.20	10.00	445637.07	681301.87 N 32 13 25.73 W 103 44 49.40
	10500.00	59.90	179.67	10180.77	-753.41	745.40	-1331.73	10.00	445555.36	681302.35 N 32 13 24.92 W 103 44 49.40
	10600.00	69.90	179.67	10223.13	-662.96	654.96	-1331.20	10.00	445464.92	681302.87 N 32 13 24.03 W 103 44 49.40
	10700.00	79.90	179.67	10249.14	-566.54	558.54	-1330.64	10.00	445368.50	681303.43 N 32 13 23.07 W 103 44 49.39
Landing Point	10800.00	89.90	179.67	10258.01	-467.06	459.06	-1330.07	10.00	445269.03	681304.01 N 32 13 22.09 W 103 44 49.39
	10804.28	90.33	179.67	10258.00	-462.78	454.78	-1330.04	10.00	445264.75	681304.03 N 32 13 22.04 W 103 44 49.39
Ū	10900.00	90.33	179.67	10257.44	-367.06	359.06	-1329.49	0.00	445169.04	681304.59 N 32 13 21.10 W 103 44 49.39
	11000.00	90.33	179.67	10256.86	-267.06	259.07	-1328.91	0.00	445069.05	681305.17 N 32 13 20.11 W 103 44 49.39
	11100.00	90.33	179.67	10256.28	-167.06	159.07	-1328.33	0.00	444969.06	681305.74 N 32 13 19.12 W 103 44 49.39
	11200.00	90.33	179.67	10255.70	-67.07	59.07	-1327.75	0.00	444869.07	681306.32 N 32 13 18.13 W 103 44 49.39
	11300.00	90.33	179.67	10255.12	32.93	-40.92	-1327.17	0.00	444769.08	681306.90 N 32 13 17.14 W 103 44 49.39
	11400.00	90.33	179.67	10254.54	132.93	-140.92	-1326.59	0.00	444669.09	681307.48 N 32 13 16.15 W 103 44 49.39
	11500.00	90.33	179.67	10253.96	232.93	-240.92	-1326.01	0.00	444569.10	681308.06 N 32 13 15.16 W 103 44 49.39
	11600.00	90.33	179.67	10253.38	332.93	-340.91	-1325.43	0.00	444469.10	681308.64 N 32 13 14.17 W 103 44 49.39
	11700.00	90.33	179.67	10252.80	432.93	-440.91	-1324.85	0.00	444369.11	681309.22 N 32 13 13.18 W 103 44 49.39
	11800.00	90.33	179.67	10252.22	532.92	-540.91	-1324.27	0.00	444269.12	681309.80 N 32 13 12.19 W 103 44 49.39
	11900.00	90.33	179.67	10251.64	632.92	-640.90	-1323.69	0.00	444169.13	681310.38 N 32 13 11.20 W 103 44 49.39
	12000.00	90.33	179.67	10251.06	732.92	-740.90	-1323.11	0.00	444069.14	681310.96 N 32 13 10.21 W 103 44 49.39
	12100.00	90.33	179.67	10250.48	832.92	-840.90	-1322.53	0.00	443969.15	681311.54 N 32 13 9.22 W 103 44 49.39
	12200.00	90.33	179.67	10249.90	932.92	-940.89	-1321.96	0.00	443869.16	681312.12 N 32 13 8.23 W 103 44 49.39
	12300.00	90.33	179.67	10249.32	1032.92	-1040.89	-1321.38	0.00	443769.17	681312.70 N 32 13 7.24 W 103 44 49.39
	12400.00	90.33	179.67	10248.74	1132.91	-1140.89	-1320.80	0.00	443669.17	681313.28 N 32 13 6.25 W 103 44 49.39
	12500.00	90.33	179.67	10248.16	1232.91	-1240.88	-1320.22	0.00	443569.18	681313.86 N 32 13 5.27 W 103 44 49.39
	12600.00	90.33	179.67	10247.58	1332.91	-1340.88	-1319.64	0.00	443469.19	681314.43 N 32 13 4.28 W 103 44 49.39
	12700.00	90.33	179.67	10247.00	1432.91	-1440.88	-1319.06	0.00	443369.20	681315.01 N 32 13 3.29 W 103 44 49.39
	12800.00	90.33	179.67	10246.42	1532.91	-1540.87	-1318.48	0.00	443269.21	681315.59 N 32 13 2.30 W 103 44 49.39
	12900.00	90.33	179.67	10245.84	1632.91	-1640.87	-1317.90	0.00	443169.22	681316.17 N 32 13 1.31 W 103 44 49.39
	13000.00	90.33	179.67	10245.26	1732.90	-1740.87	-1317.32	0.00	443069.23	681316.75 N 32 13 0.32 W 103 44 49.39
	13100.00	90.33	179.67	10244.68	1832.90	-1840.86	-1316.74	0.00	442969.24	681317.33 N 32 12 59.33 W 103 44 49.39
	13200.00	90.33	179.67	10244.10	1932.90	-1940.86	-1316.16	0.00	442869.25	681317.91 N 32 12 58.34 W 103 44 49.39
	13300.00	90.33	179.67	10243.52	2032.90	-2040.86	-1315.58	0.00	442769.25	681318.49 N 32 12 57.35 W 103 44 49.38
	13400.00	90.33	179.67	10242.94	2132.90	-2140.85	-1315.00	0.00	442669.26	681319.07 N 32 12 56.36 W 103 44 49.38
	13500.00	90.33	179.67	10242.36	2232.90	-2240.85	-1314.42	0.00	442569.27	681319.65 N 32 12 55.37 W 103 44 49.38
	13600.00	90.33	179.67	10241.78	2332.89	-2340.85	-1313.84	0.00	442469.28	681320.23 N 32 12 54.38 W 103 44 49.38
	13700.00	90.33	179.67	10241.20	2432.89	-2440.84	-1313.26	0.00	442369.29	681320.81 N 32 12 53.39 W 103 44 49.38
	13800.00	90.33	179.67	10240.62	2532.89	-2540.84	-1312.69	0.00	442269.30	681321.39 N 32 12 52.40 W 103 44 49.38
	13900.00	90.33	179.67	10240.04	2632.89	-2640.84	-1312.11	0.00	442169.31	681321.97 N 32 12 51.41 W 103 44 49.38
	14000.00	90.33	179.67	10239.46	2732.89	-2740.83	-1311.53	0.00	442069.32	681322.55 N 32 12 50.42 W 103 44 49.38
	14100.00	90.33	179.67	10238.88	2832.89	-2840.83	-1310.95	0.00	441969.32	681323.12 N 32 12 49.43 W 103 44 49.38
	14200.00	90.33	179.67	10238.30	2932.88	-2940.83	-1310.37	0.00	441869.33	681323.70 N 32 12 48.44 W 103 44 49.38
	14300.00	90.33	179.67	10237.72	3032.88	-3040.82	-1309.79	0.00	441769.34	681324.28 N 32 12 47.45 W 103 44 49.38
	14400.00	90.33	179.67	10237.14	3132.88	-3140.82	-1309.21	0.00	441669.35	681324.86 N 32 12 46.46 W 103 44 49.38
	14500.00	90.33	179.67	10236.56	3232.88	-3240.82	-1308.63	0.00	441569.36	681325.44 N 32 12 45.47 W 103 44 49.38
	14600.00	90.33	179.67	10235.98	3332.88	-3340.81	-1308.05	0.00	441469.37	681326.02 N 32 12 44.48 W 103 44 49.38
	14700.00	90.33	179.67	10235.40	3432.88	-3440.81	-1307.47	0.00	441369.38	681326.60 N 32 12 43.50 W 103 44 49.38
	14800.00	90.33	179.67	10234.82	3532.87	-3540.81	-1306.89	0.00	441269.39	681327.18 N 32 12 42.51 W 103 44 49.38
	14900.00	90.33	179.67	10234.24	3632.87	-3640.80	-1306.31	0.00	441169.40	681327.76 N 32 12 41.52 W 103 44 49.38
	15000.00	90.33	179.67	10233.66	3732.87	-3740.80	-1305.73	0.00	441069.40	681328.34 N 32 12 40.53 W 103 44 49.38
	15100.00 15200.00	90.33 90.33	179.67 179.67	10233.08 10232.50	3832.87 3932.87	-3840.80 -3940.79	-1305.15 -1304.57	0.00	440969.41 440869.42	681328.92 N 32 12 39.54 W 103 44 49.38 681329.50 N 32 12 38.55 W 103 44 49.38
		30.00	113.01	10202.00	0002.01	JJTU.1 J	1004.07	0.00	-++UUUJ.4Z	001020.00 IN 02 IZ 00.00 IN IU0 44 49.00

...Javelina Unit 429H\Javelina Unit 429H\Javelina Unit 429H R0 mdv 03Sep21

Drilling Office 2.10.826.8

Schlumberger-Private

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IFP1, Build/Turn 2°/100ft Hold	(ft) 15300.00 15400.00 15459.44 15492.85 15500.00 15600.00 15700.00 15800.00 15900.00 16000.00 16100.00 16300.00 16500.00 16500.00 16600.00 16700.00 16800.00 16900.00	90.33 90.33 90.33 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00	179.67 179.67 179.67 179.63 179.63 179.63 179.63 179.63 179.63 179.63 179.63 179.63 179.63 179.63 179.63 179.63 179.63 179.63	(ft) 10231.92 10231.34 10231.00 10230.61 10230.49 10228.74 10227.00 10225.26 10223.51 10221.77 10220.02 10218.28 10216.54	(ft) 4032.87 4132.86 4192.31 4225.71 4232.86 4332.84 4432.83 4532.81 4632.80 4732.78 4832.77 4932.75	(ft) -4040.79 -4140.79 -4200.23 -4233.63 -4240.78 -4340.76 -4340.76 -4440.75 -4540.73 -4540.71 -4740.69	-1304.00 -1303.42 -1303.07 -1302.87 -1302.82 -1302.17 -1301.52 -1300.86	(°/100ft) 0.00 0.00 2.00 0.00 0.00 0.00	440769.43 440669.44 440610.00 440576.60 440569.45 440469.47 440369.50		 N 32 12 36.57 N 32 12 35.98 N 32 12 35.65 N 32 12 35.58 N 32 12 34.59 	 V 103 44 49.38 V 103 44 49.37 V 103 44 49.37 V 103 44 49.37
2°/100ft	15459.44 15492.85 15500.00 15600.00 15700.00 15900.00 16900.00 16100.00 16200.00 16300.00 16500.00 16500.00 16600.00 16800.00 16900.00	90.33 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00	179.67 179.63 179.63 179.63 179.63 179.63 179.63 179.63 179.63 179.63 179.63 179.63 179.63	10231.00 10230.61 10230.49 10228.74 10227.00 10225.26 10223.51 10221.77 10220.02 10218.28	4192.31 4225.71 4232.86 4332.84 4432.83 4532.81 4632.80 4732.78 4832.77	-4200.23 -4233.63 -4240.78 -4340.76 -4440.75 -4540.73 -4640.71	-1303.07 -1302.87 -1302.82 -1302.17 -1301.52 -1300.86	0.00 2.00 0.00 0.00 0.00	440610.00 440576.60 440569.45 440469.47	681331.00 681331.21 681331.25 681331.90	 N 32 12 35.98 N 32 12 35.65 N 32 12 35.58 N 32 12 34.59 	V 103 44 49.38 V 103 44 49.38 V 103 44 49.38 V 103 44 49.37 V 103 44 49.37
2°/100ft	$15492.85 \\ 15500.00 \\ 15600.00 \\ 15700.00 \\ 15700.00 \\ 15900.00 \\ 16000.00 \\ 16100.00 \\ 16200.00 \\ 16300.00 \\ 16400.00 \\ 16500.00 \\ 16600.00 \\ 16700.00 \\ 16800.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 1000 \\ $	91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00	179.63 179.63 179.63 179.63 179.63 179.63 179.63 179.63 179.63 179.63 179.63	10230.61 10230.49 10228.74 10227.00 10225.26 10223.51 10221.77 10220.02 10218.28	4225.71 4232.86 4332.84 4432.83 4532.81 4632.80 4732.78 4832.77	-4233.63 -4240.78 -4340.76 -4440.75 -4540.73 -4640.71	-1302.87 -1302.82 -1302.17 -1301.52 -1300.86	2.00 0.00 0.00 0.00	440576.60 440569.45 440469.47	681331.21 681331.25 681331.90	N 32 12 35.65 N 32 12 35.58 N 32 12 34.59	V 103 44 49.38 V 103 44 49.38 V 103 44 49.37 V 103 44 49.37
Hold	$15500.00 \\ 15600.00 \\ 15700.00 \\ 15800.00 \\ 15900.00 \\ 16000.00 \\ 16100.00 \\ 16200.00 \\ 16300.00 \\ 16300.00 \\ 16500.00 \\ 16600.00 \\ 16600.00 \\ 16800.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 1000 \\ 1$	91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00	179.63 179.63 179.63 179.63 179.63 179.63 179.63 179.63 179.63 179.63	10230.49 10228.74 10227.00 10225.26 10223.51 10221.77 10220.02 10218.28	4232.86 4332.84 4432.83 4532.81 4632.80 4732.78 4832.77	-4240.78 -4340.76 -4440.75 -4540.73 -4640.71	-1302.82 -1302.17 -1301.52 -1300.86	0.00 0.00 0.00	440569.45 440469.47	681331.25 681331.90	N 32 12 35.58 N 32 12 34.59	V 103 44 49.38 V 103 44 49.37 V 103 44 49.37
	$15500.00 \\ 15600.00 \\ 15700.00 \\ 15800.00 \\ 15900.00 \\ 16000.00 \\ 16100.00 \\ 16200.00 \\ 16300.00 \\ 16300.00 \\ 16500.00 \\ 16600.00 \\ 16600.00 \\ 16800.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 1000 \\ 1$	91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00	179.63 179.63 179.63 179.63 179.63 179.63 179.63 179.63 179.63 179.63	10230.49 10228.74 10227.00 10225.26 10223.51 10221.77 10220.02 10218.28	4232.86 4332.84 4432.83 4532.81 4632.80 4732.78 4832.77	-4240.78 -4340.76 -4440.75 -4540.73 -4640.71	-1302.82 -1302.17 -1301.52 -1300.86	0.00 0.00 0.00	440569.45 440469.47	681331.90	N 32 12 35.58 N 32 12 34.59	V 103 44 49.38 V 103 44 49.37 V 103 44 49.37
	$15700.00 \\ 15800.00 \\ 15900.00 \\ 16000.00 \\ 16100.00 \\ 16200.00 \\ 16300.00 \\ 16400.00 \\ 16500.00 \\ 16600.00 \\ 16700.00 \\ 16800.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 1000 $	91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00	179.63 179.63 179.63 179.63 179.63 179.63 179.63 179.63	10227.00 10225.26 10223.51 10221.77 10220.02 10218.28	4432.83 4532.81 4632.80 4732.78 4832.77	-4440.75 -4540.73 -4640.71	-1301.52 -1300.86	0.00				V 103 44 49.37
	$\begin{array}{c} 15800.00\\ 15900.00\\ 16000.00\\ 16100.00\\ 16200.00\\ 16300.00\\ 16400.00\\ 16500.00\\ 16600.00\\ 16700.00\\ 16800.00\\ 16900.00\\ \end{array}$	91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00	179.63 179.63 179.63 179.63 179.63 179.63 179.63	10225.26 10223.51 10221.77 10220.02 10218.28	4532.81 4632.80 4732.78 4832.77	-4540.73 -4640.71	-1300.86		440369.50	681332 55	N 32 12 33.60	
	$15900.00 \\ 16000.00 \\ 16100.00 \\ 16200.00 \\ 16300.00 \\ 16400.00 \\ 16500.00 \\ 16600.00 \\ 16700.00 \\ 16800.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 16900.00 \\ 100$	91.00 91.00 91.00 91.00 91.00 91.00 91.00 91.00	179.63 179.63 179.63 179.63 179.63 179.63	10223.51 10221.77 10220.02 10218.28	4632.80 4732.78 4832.77	-4640.71						
	16000.00 16100.00 16200.00 16300.00 16400.00 16500.00 16600.00 16700.00 16800.00 16900.00	91.00 91.00 91.00 91.00 91.00 91.00 91.00	179.63 179.63 179.63 179.63 179.63	10221.77 10220.02 10218.28	4732.78 4832.77			0.00	440269.52	681333.21		
	16100.00 16200.00 16300.00 16400.00 16500.00 16600.00 16700.00 16800.00 16900.00	91.00 91.00 91.00 91.00 91.00 91.00	179.63 179.63 179.63 179.63	10220.02 10218.28	4832.77	-4740.09	-1300.21 -1299.56	0.00 0.00	440169.54 440069.57	681333.86 681334.51	N 32 12 31.62 N 32 12 30.63	
	16200.00 16300.00 16400.00 16500.00 16600.00 16700.00 16800.00 16900.00	91.00 91.00 91.00 91.00 91.00	179.63 179.63 179.63	10218.28		-4840.68	-1299.50	0.00	439969.59		N 32 12 30.03	
	16300.00 16400.00 16500.00 16600.00 16700.00 16800.00 16900.00	91.00 91.00 91.00 91.00	179.63 179.63			-4940.66	-1298.26	0.00	439869.61	681335.81		
	16400.00 16500.00 16600.00 16700.00 16800.00 16900.00	91.00 91.00 91.00	179.63		5032.74	-5040.64	-1297.61	0.00	439769.63		N 32 12 27.66	
	16600.00 16700.00 16800.00 16900.00	91.00	179 63	10214.79	5132.72	-5140.62	-1296.96	0.00	439669.66	681337.11		
	16700.00 16800.00 16900.00		110.00	10213.05	5232.71	-5240.61	-1296.31	0.00	439569.68	681337.77	N 32 12 25.69	V 103 44 49.36
	16800.00 16900.00	91 00	179.63	10211.31	5332.69	-5340.59	-1295.65	0.00	439469.70		N 32 12 24.70	
	16900.00		179.63	10209.56	5432.68	-5440.57	-1295.00	0.00	439369.72	681339.07		
		91.00	179.63	10207.82	5532.66	-5540.56	-1294.35	0.00	439269.75		N 32 12 22.72	
		91.00	179.63	10206.08	5632.65	-5640.54	-1293.70	0.00	439169.77		N 32 12 21.73	
	17000.00	91.00	179.63	10204.33	5732.63	-5740.52	-1293.05	0.00	439069.79		N 32 12 20.74	
	17100.00	91.00	179.63	10202.59	5832.62	-5840.50	-1292.40	0.00	438969.82	681341.67		
	17200.00 17300.00	91.00 91.00	179.63 179.63	10200.84 10199.10	5932.60 6032.59	-5940.49 -6040.47	-1291.75 -1291.09	0.00 0.00	438869.84 438769.86		N 32 12 18.76 N 32 12 17.77	
	17400.00	91.00	179.63	10199.10	6132.59	-6140.47	-1291.09	0.00	438669.88		N 32 12 17.77	
	17500.00	91.00	179.63	10197.50	6232.55	-6240.43	-1290.44	0.00	438569.91	681344.28		V 103 44 49.35 V 103 44 49.35
	17600.00	91.00	179.63	10193.87	6332.54	-6340.42	-1289.14	0.00	438469.93		N 32 12 13.79	
	17700.00	91.00	179.63	10192.13	6432.52	-6440.40	-1288.49	0.00	438369.95		N 32 12 13.81	
	17800.00	91.00	179.63	10190.38	6532.51	-6540.38	-1287.84	0.00	438269.98		N 32 12 12.82	
	17900.00	91.00	179.63	10188.64	6632.49	-6640.36	-1287.19	0.00	438170.00	681346.88	N 32 12 11.83	V 103 44 49.35
	18000.00	91.00	179.63	10186.89	6732.48	-6740.35	-1286.53	0.00	438070.02	681347.54	N 32 12 10.84	V 103 44 49.34
IFP2, Drop 2°/100ft	18051.28	91.00	179.63	10186.00	6783.75	-6791.62	-1286.20	0.00	438018.75	681347.87	N 32 12 10.34	V 103 44 49.34
271001	18100.00	90.02	179.63	10185.56	6832.47	-6840.33	-1285.88	2.00	437970.04	681348.19	N 32 12 9.85	V 103 44 49.34
Hold	18100.62	90.01	179.63	10185.56	6833.09	-6840.96	-1285.88	2.00	437969.42		N 32 12 9.85	
	18200.00	90.01	179.63	10185.54	6932.47	-6940.33	-1285.24	0.00	437870.05	681348.83	N 3212 8.87	V 103 44 49.34
	18300.00	90.01	179.63	10185.52	7032.47	-7040.33	-1284.60	0.00	437770.05	681349.47	N 3212 7.88	V 103 44 49.34
	18400.00	90.01	179.63	10185.50	7132.47	-7140.33	-1283.96	0.00	437670.06		N 3212 6.89	
	18500.00	90.01	179.63	10185.48	7232.47	-7240.33	-1283.31	0.00	437570.07		N 3212 5.90	
	18600.00	90.01	179.63	10185.46	7332.47	-7340.32	-1282.67	0.00	437470.08		N 3212 4.91	
	18700.00	90.01	179.63	10185.44	7432.47	-7440.32	-1282.03	0.00	437370.08		N 32 12 3.92	
	18800.00	90.01	179.63	10185.41	7532.47	-7540.32	-1281.39	0.00	437270.09		N 32 12 2.93	
	18900.00	90.01	179.63	10185.39	7632.47	-7640.32	-1280.74	0.00	437170.10		N 32 12 1.94	
	19000.00 19100.00	90.01 90.01	179.63 179.63	10185.37 10185.35	7732.47 7832.47	-7740.32 -7840.31	-1280.10 -1279.46	0.00 0.00	437070.11 436970.11		N 32 12 0.95 N 32 11 59.96	
	19200.00	90.01	179.63	10185.33	7932.47	-7940.31	-1278.82	0.00	436870.12		N 32 11 58.97	
	19300.00	90.01	179.63	10185.31	8032.47	-8040.31	-1278.17	0.00	436770.13		N 32 11 57.98	
	19400.00	90.01	179.63	10185.28	8132.47	-8140.31	-1277.53	0.00	436670.14		N 32 11 56.99	
	19500.00	90.01	179.63	10185.26	8232.47	-8240.31	-1276.89	0.00	436570.14		N 32 11 56.00	
	19600.00	90.01	179.63	10185.24	8332.47	-8340.30	-1276.25	0.00	436470.15	681357.82	N 32 11 55.01	V 103 44 49.33
	19700.00	90.01	179.63	10185.22	8432.47	-8440.30	-1275.61	0.00	436370.16	681358.46	N 32 11 54.02	V 103 44 49.33
	19800.00	90.01	179.63	10185.20	8532.47	-8540.30	-1274.96	0.00	436270.17	681359.11	N 32 11 53.03	V 103 44 49.32
	19900.00	90.01	179.63	10185.18	8632.47	-8640.30	-1274.32	0.00	436170.17		N 32 11 52.04	
	20000.00	90.01	179.63	10185.15	8732.47	-8740.30	-1273.68	0.00	436070.18		N 32 11 51.05	
	20100.00	90.01	179.63	10185.13	8832.47	-8840.29	-1273.04	0.00	435970.19		N 32 11 50.06	
	20200.00	90.01	179.63	10185.11	8932.47	-8940.29	-1272.39	0.00	435870.20		N 32 11 49.07	
	20300.00	90.01	179.63	10185.09	9032.47	-9040.29	-1271.75	0.00	435770.21		N 32 11 48.08	
	20400.00 20500.00	90.01 90.01	179.63 179.63	10185.07	9132.47 9232.47	-9140.29	-1271.11	0.00	435670.21		N 32 11 47.10	
	20500.00 20600.00	90.01 90.01	179.63 179.63	10185.05 10185.03	9232.47 9332.47	-9240.29 -9340.28	-1270.47 -1269.82	0.00 0.00	435570.22 435470.23		N 32 11 46.11 N 32 11 45.12	
LTP Cross	20600.00 20642.23	90.01 90.01	179.63	10185.03	9332.47 9374.70	-9340.28 -9382.51	-1269.82 -1269.55	0.00	435470.23 435428.00		N 32 11 45.12 N 32 11 44.70	
	20042.23	90.01	179.63	10185.02	9432.47	-9440.28	-1269.18	0.00	435370.24		N 32 11 44.13	
Javelina Unit												
429H - BHL	20717.24	90.01	179.63	10185.00	9449.70	-9457.52	-1269.07	0.00	435353.00	681365.00	N 32 11 43.96	103 44 49.31
Survey Type:	Def F	Plan										
Survey Error Model: Survey Program:	ISCV	/SA Rev 3 *** 3-	-D 97.071% Confi	dence 3.0000 sign	a							
Description		Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size Ca (in)	asing Diameter (in)	Expected Max Inclination (deg)	Survey Too	І Туре	Borehole /	Survey
		1	0.000	28.000	1/100.000	30.000	30.000	(ueg)	B001Mb_MWD+F Only	RGM-Depth	Javelina Unit 429H 429H R0 mdv	
		1	28.000	20717.237	1/100.000	30.000	30.000		B001Mb_MWI)+HRGM	Javelina Unit 429F 429H R0 mdv	/ Javelina Unit

...Javelina Unit 429H\Javelina Unit 429H\Javelina Unit 429H R0 mdv 03Sep21

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PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Chevron
LEASE NO.:	NMNM141882
WELL NAME & NO.:	SND 14 23 FED COM P249 429H
SURFACE HOLE FOOTAGE:	1090'/N & 983'/E
BOTTOM HOLE FOOTAGE	25'/S & 2310'/E
LOCATION:	Section 14, T.24 S., R.31 E., NMPM
COUNTY:	Eddy County, New Mexico

COA

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

Dieak Testing	165	NO 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 **1033** 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 <u>24 hours in the Potash Area</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 approved to use contingency cement for the Intermediate and Production section. BLM shall be notify before proceeding with operation.

2. The minimum required fill of cement behind the **9-5/8**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 <u>Secretary Potash Areas</u> 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 production casing is:
 - Cement should tie-back at least **500 feet** into previous casing string. Operator shall provide method of verification.
- 4. The minimum required fill of cement behind the $5 \times 4-1/2$ inch production liner is:
 - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **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. <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 (575-361-2822 Eddy County) 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 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. Operator has is approve 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. Operator is approved 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.
- <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 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

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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.

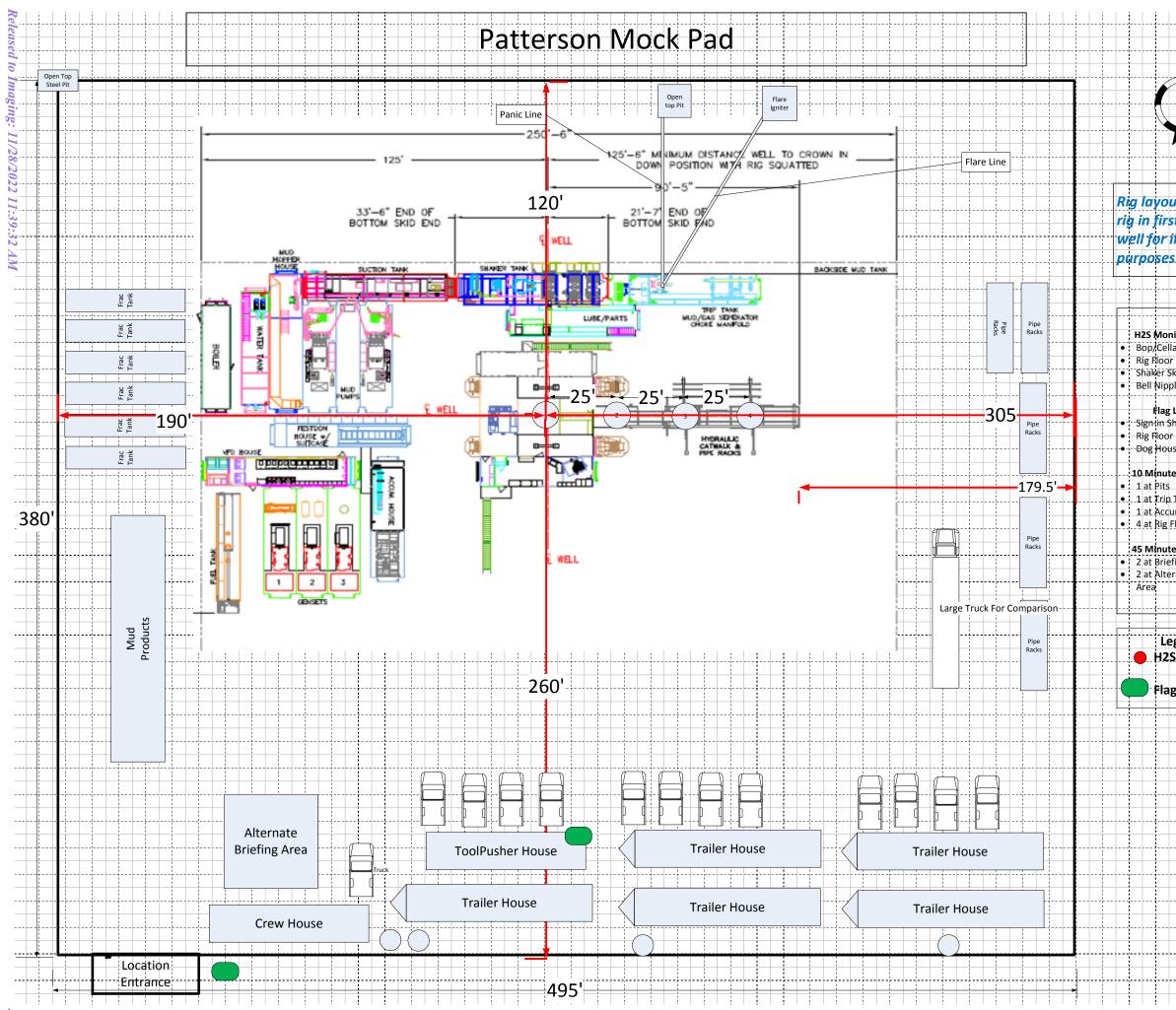
D. WASTE MATERIAL AND FLUIDS

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.

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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				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.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018



Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies		Producing Formatio
7923980	RUSTLER	3538	794	794	DOLOMITE	NONE	N
8058128	SALADO	2435	1103	1103	HALITE, SALT	NONE	N
7923997	CASTILE	489	3049	3099	ANHYDRITE	NONE	N
7923999	LAMAR	-1002	4540	4640	LIMESTONE	NONE	N
7923981	BELL CANYON	-1045	4583	4683	SANDSTONE	NONE	N
7923983	CHERRY CANYON	-1931	5469	5619	SANDSTONE	NONE	N
7923984	BRUSHY CANYON	-3140	6678	6828	SANDSTONE	NONE	N
7923985	BONE SPRING LIME	-4876	8414	8629	LIMESTONE	NONE	N
7923995	UPPER AVALON SHALE	-5413	8951	9166	LIMESTONE, SHALE	OIL	N
8058129	BONE SPRING 1ST	-5927	9465	9680	SANDSTONE	NATURAL GAS, OIL	N
8058130	BONE SPRING 2ND	-6535	10073	20717	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

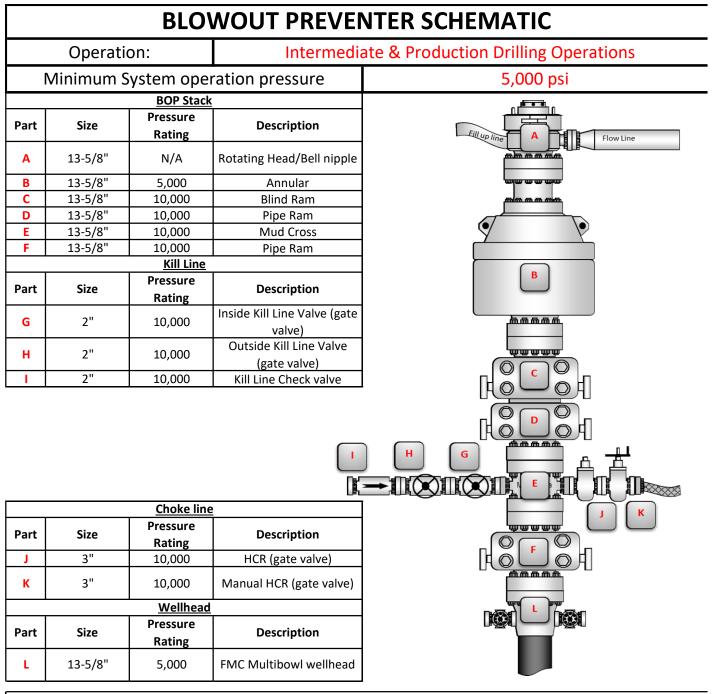
Pressure Rating (PSI): 5M

Rating Depth: 10185

Equipment: Chevron will have a minimum of a 5,000 psi rig stack (see proposed schematic) for drill out below surface casing. The stack will be tested as specified in the attached testing requirements. Batch drilling of the surface, production, and production liner will take place. A full BOP test will be performed per hole section, unless approval from BLM is received otherwise (see variance request below). Flex choke hose will be used for all wells on the pad. BOP test will be conducted by a third party.

Requesting Variance? YES

Variance request: Chevron requests the following variances: -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.



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

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CONDITIONS

Action 156235

CONDITIONS

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	156235
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

	-	
Created By	Condition	Condition Date
kpickford	Will require administrative order for non-standard spacing unit	11/28/2022
kpickford	Will require a name change prior to putting well into production	11/28/2022
kpickford	Notify OCD 24 hours prior to casing & cement	11/28/2022
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	11/28/2022
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	11/28/2022
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	11/28/2022
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	11/28/2022