Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. DRILL REENTER 1a. Type of work: 1b. Type of Well: Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone 2. Name of Operator 9. API Well No. 30-025-53497 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area At surface At proposed prod. zone 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the SUPO must be filed with the appropriate Forest Service Office). 25. Signature Name (Printed/Typed) Date Title Approved by (Signature) Date Name (Printed/Typed) Title Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction



(Continued on page 2)

*(Instructions on page 2)

<u>District I</u>
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
<u>District III</u>
811 S. First St., Artesia, NM 88210

Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u>

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

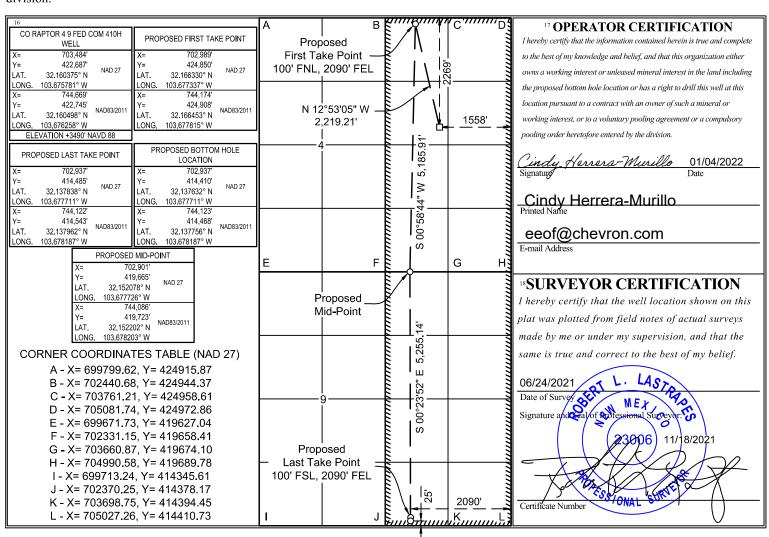
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

		umber	² Pool	Code			³ Pool Naı	ne					
30-0	25-53	497	967	715	WC-025 G-06 S253209L; BONE SPRING								
	ty Code		•	5 P1	roperty Name			⁶ Well Number					
3362	38			CO RAPT	OR 4 9 FED O	COM				410H			
⁷ OGRID No. ⁸ Operator Name ⁹ Elevation										⁹ Elevation			
43	4323 CHEVRON U.S.A. INC. 3490'												
¹⁰ Surface Location													
UL or lot no.	Secti	on Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/V	Vest line	County			
G	4	25 SOUTH	32 EAST, N.M.P.M		2269' NORTH 1558' EAST								
			11 Bottom	Hole Locat	ion If Diff	erent From S	Surface						
UL or lot no.	Secti	on Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	Vest line	County			
0	9	25 SOUTH	32 EAST, N.M.P.M		25'	SOUTH	2090'	EAS	ST	LEA			
12 Dedicated A	cres 13.	oint or Infill	¹⁴ Consolidation Code	15 Order No.									
640		Infill			DEFINING	WELL CO RA	PTOR 4 9 FI	ED COM	1 411H				

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.



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

		Effect	<u>ive May 25, 2021</u>			
I. Operator:Chevron US	SA Inc		OGRID: <u>43</u>	23_	Date: <u>_1</u> /_ <u>1</u>	4_/_2022_
II. Type: ⊠ Original □ Am	endment due t	to □ 19.15.27.9.D	(6)(a) NMAC □	19.15.27.9.D(6)(b) 1	NMAC □ Other.	
If Other, please describe:						
III. Well(s): Provide the follobe recompleted from a single				rell or set of wells p	roposed to be dr	illed or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
CO RAPTOR 4 9 FED CO 410H	M Pending	G-4-25S- 32E	2269' FNL, 1558' FEL	1730 BBL/D	3330 MCF/D	2570 BBL/D
CO RAPTOR 4 9 FED CO 411H	M Pending	G-4-25S- 32E	2269' FNL, 1553' FEL	1730 BBL/D	3330 MCF/D	2570 BBL/D
CO RAPTOR 4 9 FED CO 412H	M Pending	G-4-25S- 32E	2270' FNL, 1508' FEL	1730 BBL/D	3330 MCF/D	2570 BBL/D
IV. Central Delivery Point N	Name:	Cotton Draw Sa	atellite 4		_[See 19.15.27.	9(D)(1) NMAC]
V. Anticipated Schedule: Proproposed to be recompleted fr					set of wells prope	osed to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
CO RAPTOR 4 9 FED COM 410H	Pending	11/13/2023	N/A	N/A	<u>N/A</u>	N/A
CO RAPTOR 4 9 FED COM 411H	Pending	12/1/2023	N/A	N/A	N/A	N/A
CO RAPTOR 4 9 FED COM 412H	Pending	12/19/2023	<u>N/A</u>	<u>N/A</u>	N/A	N/A

- 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.

			Enhanced Plan E APRIL 1, 2022		
Beginning April 1, 2 reporting area must co			with its statewide natural ga	as cap	pture requirement for the applicable
☐ Operator certifies capture requirement f	-	-	tion because Operator is in o	comp	liance with its statewide natural gas
IX. Anticipated Nati	ural Gas Producti	on:			
We	11	API	Anticipated Average Natural Gas Rate MCF/D)	Anticipated Volume of Natural Gas for the First Year MCF
X. Natural Gas Gatl	hering System (NC	GGS):			
Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Av	vailable Maximum Daily Capacity of System Segment Tie-in
production operations the segment or portion	s to the existing or p n of the natural gas	planned interconnect of t gathering system(s) to v	he natural gas gathering syste which the well(s) will be con-	em(s) nected	
		the date of first produc		atner	100% of the anticipated natural gas
					the same segment, or portion, of the pressure caused by the new well(s).
☐ Attach Operator's	plan to manage pro	oduction in response to the	ne increased line pressure.		
Section 2 as provided	in Paragraph (2) of		27.9 NMAC, and attaches a f		978 for the information provided in escription of the specific information

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

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal: 🖂 Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or ☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. If Operator checks this box, Operator will select one of the following: Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or Venting and Flaring Plan.

Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including: power generation on lease; (a) **(b)** power generation for grid; compression on lease; (c) (d) liquids removal on lease; reinjection for underground storage; (e) **(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 House Muilb										
Printed Name: Cindy Herrera-Murillo										
Title: Senior HSE Regulatory Affairs Coordinator										
E-mail Address: eeof@chevron.com										
Date: 01/05/2022										
Phone: 575-263-0431										
OIL CONSERVATION DIVISION										
(Only 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.

Well Name: CO RAPTOR 4 9 FED COM Well Number: 410H

Variance request: 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. 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 break test will NOT be performed on our last production section. A break test will only be performed on operations where BLM documentation states a 5M or less BOP can be utilized. We will test seals that have been broken individually between full BOP tests. Time between tests for a single test or full test will not exceed 21 days. -Authorization to follow Onshore Order 2 Section B - Casing and Cementing Requirements to wait to 500 psi comprehensive strength (CS) of the tail cement slurry, for primary cement operations in both the Surface and Intermediate casing string(s). WOC time is considered the time between bumping the plug (cement in place), until beginning to drill the shoe track. This will ensure that cement will be at sufficient strength prior to performing a shoe test and drilling ahead through the next hole section.

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 the high pressure indicated above per Onshore Order 2 requirements. Batch drilling of the surface, intermediate, and production will take place. A full BOP test will be performed unless approval from the BLM is received otherwise. Flex choke hose will be used for all wells on the pad. BOP test will be conducted by a third party.

Choke Diagram Attachment:

Choke_Flex_Hose_2_20200326061721.pdf

CoFlex_Hose_Variance_Salanova_20200326061802.pdf

BLM_5M_Choke_Manifold_Diagram_20220106150741.pdf

BOP Diagram Attachment:

BLM 5M Annular 10M Rams Stackup and Test Plan 20220104100851.pdf

Sundry_Break_Testing_and_WOC_500_psi_Raptor_20220104115222.pdf

NM_Slim_Hole_Wellhead_6650_psi_UH_S_20220106150718.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	16	13.375	NEW	API	N	0	1027	0	1027	3490	2463	1027	J-55	54.5	ST&C	3.6	1.95	BUOY	15.2 4	BUOY	15.2 4

Well Name: CO RAPTOR 4 9 FED COM Well Number: 410H

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
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	4714	0	4674	3490	-1184	4714	L-80	40	BUTT	2.2	2.37	BUOY	4.9	BUOY	4.9
	PRODUCTI ON	8.75	7.0	NEW	API	N	0	9837	0	9801	3490	-6311	9837	OTH ER		OTHER - BLUE	2.82	4.01	BUOY	3.27	BUOY	3.27
	PRODUCTI ON	6.12 5	5.0	NEW	API	N	9537	10287	9287	10201	-5797	-6711	750	P- 110	-	OTHER - W513	2.2	3.79	BUOY	2	BUOY	2
1	PRODUCTI ON	6.12 5	4.5	NEW	API	N	10287	18611	10201	10287	-6711	-6797	8324	P- 110		OTHER - W521	2.26	3.79	BUOY	2	BUOY	2

Casing	Attachments
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Casing ID: 1	String	SURFACE
Inspection Document:		
Spec Document:		
-		

Casing Design Assumptions and Worksheet(s):

13_3_8_casing_spec_sheet_20210923070235.pdf

Casing ID: 2 **String INTERMEDIATE Inspection Document:**

Spec Document:

Tapered String Spec:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

9.625_40.0lb_L80IC_BTC_20210923070517.pdf

Well Name: CO RAPTOR 4 9 FED COM Well Number: 410H

Casing Attachments

Casing ID: 3

String

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

7in_Blue_vs_BlueSD_20210923070819.pdf

Casing ID: 4

String

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

5_18ppf_P110_Flush_W513_20210923071351.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_20210923071642.pdf

Section 4 - Cement

Well Name: CO RAPTOR 4 9 FED COM Well Number: 410H

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	1027	671	1.33	14.8	892	25	CLASS C	Extender, Antifoam, Retarder, Viscosifier
PRODUCTION	Lead		0	0	0	0	0	0	0	N/A	N/A

INTERMEDIATE	Lead	0	3714	854	2.49	11.9	1454	25	CLASS C	Extender, Antifoam, Retarder, Viscosifier
INTERMEDIATE	Tail	371	4714	323	1.33	14.8	429	25	CLASS C	Extender, Antifoam, Retarder, Viscosifier
PRODUCTION	Lead	0	8837	611	2.49	11.9	1522	25	Class C	Extender, Antifoam, Retarder, Viscosifier
PRODUCTION	Tail	883	7 9837	141	1.33	14.8	188	25	CLASS C	Extender, Antifoam, Retarder, Viscosifier
PRODUCTION	Lead	953	7 1861	803	1.33	14.8	1068	25	Class H	Extender, Antifoam, Retarder

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: 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. A weighting agent and lost circulating material (LCM) will be onsite to mitigate pressure or lost circulation as hole conditions dictate.

Describe the mud monitoring system utilized: 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 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. Transportation of E&P waste will follow EPA regulations and accompanying manifests. A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.

Circulating Medium Table

Well Name: CO RAPTOR 4 9 FED COM Well Number: 410H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	РН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
9837	1861 1	OIL-BASED MUD	9.2	9.5							Viscosity: 50-70 Filtrate: 5-10
0	1027	SPUD MUD	8.3	8.9							Viscosity: 26-36 Filtrate: 15-25
1027	4714	SALT SATURATED	8.9	10							Viscosity: 26-36 Filtrate: 15-25
4714	9837	OTHER : WBM/BRINE	8.7	9							Viscosity: 26-36 Filtrate: 15-25 Due to wellbore stability in the lateral well, MW will be adjusted as needed to ensure the hole doesn't collapse.

Section 6 - Test, Logging, Coring

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

Production tests are not planned.

Logs run include: Gamma Ray Log, Directional Survey

Coring Operations are not planned.

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

DIRECTIONAL SURVEY, GAMMA RAY LOG,

Coring operation description for the well:

Conventional whole core samples are not planned, a directional survey will be run and logs will be submitted.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5125 Anticipated Surface Pressure: 2842

Anticipated Bottom Hole Temperature(F): 165

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Well Name: CO RAPTOR 4 9 FED COM Well Number: 410H

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

Chevron_Standard_H2S_Contingency_Plan_20220104103953.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

3well_rig_layout_patterson_20220106151752.pdf
DefPlan100ft_CORaptor49FedCom410H_R2_20221103095054.pdf
CO_Raptor_410H_9pnt_new_20221206103701.pdf

Other proposed operations facets description:

Chevron formally requests the variances below:

- Authorization to use the spudder rig to spud the well and set surface 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:

Sundry_Break_Testing_and_WOC_500_psi_Raptor_20220104104738.pdf
CUSA_Spudder_Rig_Data_20220105100204.pdf
Gas_Management_Plan___Pad_410_20220106151832.pdf
Operational_Best_Management_Practices_20220106151839.pdf

Other Variance attachment:

Schlumberger

CO Raptor 4 9 Fed Com 410H R2 mdv 20May22 Proposal Geodetic Report



(Def Plan)

Report Date: Client: Field: Structure / Slot: Borehole: UWI / API#:

Survey Name: Survey Date: Tort / AHD / DDI / ERD Ratio: Coordinate Reference System: Location Lat / Long: Location Grid N/E Y/X: CRS Grid Convergence Angle: Grid Scale Factor:

Version / Patch:

May 20, 2022 - 04:11 PM Chevron NM Lea County (NAD 27)

Chevron CO Raptor 4 9 Fed Com Pad / 410H CO Raptor 4 9 Fed Com 410H CO Raptor 4 9 Fed Com 410H

Unknown / Unknown

CO Raptor 4 9 Fed Com 410H R2 mdv 20May22 May 20, 2022

may 2U, 2U/2 108.602 " / 9001.337 ft / 6.244 / 0.868 NAD27 New Mexico State Plane, Eastern Zone, US Feet N 32" 9' 37.34936", W 103" 40' 32.81268" N 422687.000 ftUS, E 703484.000 ftUS 0.3500 " 0.99995651

2.10.829.1

Survey / DLS Computation: Vertical Section Azimuth: Vertical Section Origin: TVD Reference Datum: TVD Reference Elevation: Seabed / Ground Elevation: Magnetic Declination: Total Gravity Field Strength: Gravity Model:

Total Magnetic Field Strength: Magnetic Dip Angle: Declination Date: Magnetic Declination Model: North Reference:

Grid Convergence Used: Total Corr Mag North->Grid North: Local Coord Referenced To: Minimum Curvature / Lubinski 180.060 ° (Grid North) 0.000 ft, 0.000 ft RKB = 28ft 3518.000 ft above MSL 3490.000 ft above MSL 6.360°

998.4278mgn (9.80665 Based) GARM GARM 47541.523 nT 59.747 ° May 20, 2022 HDGM 2021 Grid North 0.3500 ° 6.0102°

Well Head

Comments	MD	Incl	Azim Grid	TVD	VSEC	NS (ft)	EW	DLS	Northing	Easting	Latitude	Longitud
Surface	(ft) 0.00	(°) 0.00	(°) 0.00	(ft) 0.00	(ft) 0.00	(ft) 0.00	(ft) 0.00	(°/100ft) N/A	(ftUS) 422687.00	(ftUS) 703484.00 1	(N/S°'") N 32 9 37.35	(E/W ° ' ' W 103 40 32 8
, and o	100.00	0.00	287.61	100.00	0.00	0.00	0.00	0.00	422687.00		N 32 9 37.35	
	200.00	0.00	287.61	200.00	0.00	0.00	0.00	0.00	422687.00	703484.00	N 32 9 37.35	W 103 40 32.8
	300.00	0.00	287.61	300.00	0.00	0.00	0.00	0.00	422687.00	703484.00	N 32 9 37.35	W 103 40 32.8
	400.00	0.00	287.61	400.00	0.00	0.00	0.00	0.00	422687.00		N 32 9 37.35	
uild 1.5°/100ft	500.00	0.00	287.61	500.00	0.00	0.00	0.00	0.00	422687.00		N 32 9 37.35	
	600.00	1.50	287.61	599.99	-0.39	0.40	-1.25	1.50	422687.40		N 32 9 37.35	
	700.00	3.00	287.61	699.91	-1.58	1.58	-4.99	1.50	422688.58		N 32 9 37.37	
Rustler (RSLR)	800.00 804.32	4.50 4.56	287.61 287.61	799.69 804.00	-3.55 -3.65	3.56 3.67	-11.22 -11.55	1.50 1.50	422690.56 422690.67		N 32 9 37.39 I 32 9 37.39	
dister (NSLN)	900.00	6.00	287.61	899.27	-6.31	6.33	-19.94	1.50	422693.33		N 32 9 37.39	
	1000.00	7.50	287.61	998.57	-9.85	9.89	-31.15	1.50	422696.88		N 32 9 37.45	
Rustler Los Medaños Member	1004.47	7.57	287.61	1003.00	-10.03	10.06	-31.71	1.50	422697.06		1 32 9 37.45	
fold	1033.67	8.00	287.61	1031.93	-11.22	11.26	-35.48	1.50	422698.26		N 32 9 37.46	
Rustler Los Medaños M-1 siltstone unit	1034.74	8.00	287.61	1033.00	-11.27	11.30	-35.62	0.00	422698.30		1 32 9 37.46	
	1100.00	8.00	287.61	1097.62	-14.01	14.05	-44.28	0.00	422701.05		N 32 9 37.49	
Saldo (SLDO)	1132.70	8.00	287.61	1130.00	-15.38	15.43	-48.62	0.00	422702.43		1 32 9 37.50	
	1200.00	8.00	287.61	1196.64	-18.21	18.27	-57.55	0.00	422705.26		N 32 9 37.53	
	1300.00	8.00	287.61 287.61	1295.67	-22.40	22.48	-70.83	0.00	422709.48		N 32 9 37.58 N 32 9 37.62	
	1400.00 1500.00	8.00 8.00	287.61	1394.70 1493.72	-26.60 -30.80	26.69 30.90	-84.10 -97.37	0.00	422713.69 422717.90		N 32 9 37.62	
	1600.00	8.00	287.61	1592.75	-35.00	35.12	-110.65	0.00	422722.11		N 32 9 37.70	
	1700.00	8.00	287.61	1691.77	-39.20	39.33	-123.92	0.00	422726.33		N 32 9 37.75	
	1800.00	8.00	287.61	1790.80	-43.40	43.54	-137.20	0.00	422730.54	703346.81		W 103 40 34.4
	1900.00	8.00	287.61	1889.82	-47.60	47.75	-150.47	0.00	422734.75		N 32 9 37.83	
	2000.00	8.00	287.61	1988.85	-51.79	51.97	-163.74	0.00	422738.96	703320.27	N 32 9 37.87	W 103 40 34.7
	2100.00	8.00	287.61	2087.88	-55.99	56.18	-177.02	0.00	422743.18		N 32 9 37.92	
	2200.00	8.00	287.61	2186.90	-60.19	60.39	-190.29	0.00	422747.39		N 32 9 37.96	
	2300.00	8.00	287.61	2285.93	-64.39	64.60	-203.56	0.00	422751.60		N 32 9 38.00	
	2400.00	8.00	287.61	2384.95	-68.59	68.82	-216.84	0.00	422755.81		N 32 9 38.04	
	2500.00	8.00 8.00	287.61 287.61	2483.98	-72.79	73.03	-230.11	0.00	422760.03		N 32 9 38.09 N 32 9 38.13	
	2600.00 2700.00	8.00	287.61	2583.00 2682.03	-76.99 -81.18	77.24 81.45	-243.38 -256.66	0.00	422764.24 422768.45		N 32 9 38.17	
	2800.00	8.00	287.61	2781.05	-85.38	85.67	-269.93	0.00	422772.66		N 32 9 38.21	
	2900.00	8.00	287.61	2880.08	-89.58	89.88	-283.20	0.00	422776.87		N 32 9 38.26	
	3000.00	8.00	287.61	2979.11	-93.78	94.09	-296.48	0.00	422781.09		N 32 9 38.30	
	3100.00	8.00	287.61	3078.13	-97.98	98.30	-309.75	0.00	422785.30		N 32 9 38.34	
Castile (CSTL)	3196.81	8.00	287.61	3174.00	-102.04	102.38	-322.60	0.00	422789.38	703161.41 N	1 32 9 38.38	W 103 40 36.5
	3200.00	8.00	287.61	3177.16	-102.18	102.52	-323.02	0.00	422789.51		N 32 9 38.38	
	3300.00	8.00	287.61	3276.18	-106.38	106.73	-336.30	0.00	422793.72		N 32 9 38.43	
	3400.00	8.00	287.61	3375.21	-110.58	110.94	-349.57	0.00	422797.94		N 32 9 38.47	
	3500.00	8.00	287.61	3474.23	-114.77	115.15	-362.84	0.00	422802.15		N 32 9 38.51	
	3600.00 3700.00	8.00 8.00	287.61 287.61	3573.26 3672.28	-118.97 -123.17	119.37 123.58	-376.12 -389.39	0.00	422806.36 422810.57		N 32 9 38.55 N 32 9 38.60	
	3800.00	8.00	287.61	3771.31	-127.37	127.79	-402.67	0.00	422814.79		N 32 9 38.64	
	3900.00	8.00	287.61	3870.34	-131.57	132.00	-415.94	0.00	422819.00		N 32 9 38.68	
	4000.00	8.00	287.61	3969.36	-135.77	136.22	-429.21	0.00	422823.21		N 32 9 38.72	
	4100.00	8.00	287.61	4068.39	-139.97	140.43	-442.49	0.00	422827.42		N 32 9 38.77	
	4200.00	8.00	287.61	4167.41	-144.16	144.64	-455.76	0.00	422831.64	703028.26	N 32 9 38.81	W 103 40 38.1
0rop .75°/100ft	4219.96	8.00	287.61	4187.18	-145.00	145.48	-458.41	0.00	422832.48	703025.61	N 32 9 38.82	W 103 40 38.1
	4300.00	7.40	287.61	4266.50	-148.24	148.73	-468.64	0.75	422835.72		N 32 9 38.85	
	4400.00	6.65	287.61	4365.74	-151.93	152.43	-480.30	0.75	422839.42		N 32 9 38.89	
	4500.00	5.90	287.61	4465.14	-155.23	155.74	-490.73	0.75	422842.73		N 32 9 38.92	
	4600.00	5.15	287.61	4564.68	-158.13	158.65	-499.91	0.75	422845.65		N 32 9 38.95	
amar (LMAR)	4700.00 4732.76	4.40 4.16	287.61 287.61	4664.33 4697.00	-160.64 -161.38	161.17 161.91	-507.85 -510.19	0.75 0.75	422848.17 422848.91		N 32 9 38.97 I 32 9 38.98	
ell Canyon (BLCN)	4769.86	3.88	287.61	4734.00	-162.16	162.70	-512.66	0.75	422849.69		1 32 9 38.99	
	4800.00	3.65	287.61	4764.08	-162.76	163.30	-514.55	0.75	422850.29		N 32 9 39.00	
	4900.00	2.90	287.61	4863.92	-164.49	165.03	-520.00	0.75	422852.02		N 32 9 39.01	
	5000.00	2.15	287.61	4963.82	-165.82	166.37	-524.21	0.75	422853.36		N 32 9 39.03	
	5100.00	1.40	287.61	5063.77	-166.75	167.31	-527.17	0.75	422854.30		N 32 9 39.04	
	5200.00	0.65	287.61	5163.75	-167.30	167.85	-528.88	0.75	422854.84	702955.14	N 32 9 39.04	W 103 40 38.
old Vertical	5287.29	0.00	287.61	5251.04	-167.45	168.00	-529.36	0.75	422854.99		N 32 9 39.04	
	5300.00	0.00	287.61	5263.75	-167.45	168.00	-529.36	0.00	422854.99		N 32 9 39.04	
	5400.00	0.00	287.61	5363.75	-167.45	168.00	-529.36	0.00	422854.99		N 32 9 39.04	
	5500.00	0.00	287.61	5463.75	-167.45	168.00	-529.36	0.00	422854.99		N 32 9 39.04	
t (000)	5600.00	0.00	287.61	5563.75	-167.45	168.00	-529.36	0.00	422854.99		N 32 9 39.04	
herry Canyon (CRCN)	5659.25 5700.00	0.00 0.00	287.61 287.61	5623.00 5663.75	-167.45 -167.45	168.00 168.00	-529.36 -529.36	0.00 0.00	422854.99 422854.99		/ 32 9 39.04 N 32 9 39.04	
	5700.00 5800.00	0.00	287.61 287.61	5763.75	-167.45 -167.45	168.00	-529.36 -529.36	0.00	422854.99 422854.99		N 32 9 39.04 N 32 9 39.04	
	5800.00 5900.00	0.00	287.61	5763.75 5863.75	-167.45 -167.45	168.00	-529.36 -529.36	0.00	422854.99 422854.99		N 32 9 39.04 N 32 9 39.04	
	6000.00	0.00	287.61	5963.75	-167.45 -167.45	168.00	-529.36 -529.36	0.00	422854.99 422854.99		N 32 9 39.04 N 32 9 39.04	
	6100.00	0.00	287.61	6063.75	-167.45	168.00	-529.36	0.00	422854.99		N 32 9 39.04 N 32 9 39.04	
	6200.00	0.00	287.61	6163.75	-167.45	168.00	-529.36	0.00	422854.99		N 32 9 39.04	
	6300.00	0.00	287.61	6263.75	-167.45	168.00	-529.36	0.00	422854.99		N 32 9 39.04	
	6400.00	0.00	287.61	6363.75	-167.45	168.00	-529.36	0.00	422854.99		N 32 9 39.04	
	6500.00	0.00	287.61	6463.75	-167.45	168.00	-529.36	0.00	422854.99		N 32 9 39.04	
	6600.00	0.00	287.61	6563.75	-167.45	168.00	-529.36	0.00	422854.99	702954.66	N 32 9 39.04	W 103 40 38.
	6700.00	0.00	287.61	6663.75	-167.45	168.00	-529.36	0.00	422854.99		N 32 9 39.04	
	6800.00	0.00	287.61	6763.75	-167.45	168.00	-529.36	0.00	422854.99	702054.66	N 32 9 39.04	10/ 102 10 20

...CO Raptor 4 9 Fed Com 410H\CO Raptor 4 9 Fed Com 410H\CO Raptor 4 9 Fed Com 410H R2 mdv 20May22

Mary	Comments	MD	Incl	Azim Grid	TVD	VSEC	NS	EW	DLS	Northing	Easting Latitude Longitude
March Marc											
Professor 1960 1961 19											
1962 1962 1962 1963 1964 1965 1966	Brushy Canyon (BCN)										
March Marc											
1962 1962 1964 1965 1966											
Property											
1,000 1,00		7600.00	0.00	287.61	7563.75	-167.45	168.00	-529.36		422854.99	702954.66 N 32 9 39.04 W 103 40 38.96
Professor Prof											
1900 100											
BEADLO 19 19 19 19 19 19 19 1			0.00			-167.45	168.00	-529.36			
10000 1000											
March Sanger S											
Marie Part Mar											
Serie No.											
Sept	Bone Spring (BSGL)										
	Unner Avelen (AVIII)										
Methods	Opper Avaion (AVO)										
1.000 1.00					8863.75						
Part											
	Lower Avalon (AVL)										
Part											
Part											
Part flows Spring Upper (700)		9500.00	0.00	287.61	9463.75	-167.45	168.00	-529.36	0.00	422854.99	702954.66 N 32 9 39.04 W 103 40 38.96
Fiel Print P											
March 1971/0000	First Bone Sprina Upper (FBS)										
## Brown Aponing Lower (PRL) ## Bro		9800.00	0.00	287.61	9763.75	-167.45	168.00	-529.36	0.00	422854.99	702954.66 N 32 9 39.04 W 103 40 38.96
Part Down Surrey Currey (FBU) Sept 106 1.3 sep 107 1.3 sep 107 1.5 sep 107 1.6 sep 107	Build 10°/100ft										
Mathematical Math	First Bone Spring Lower (FBL)										
1920000 1920 194000 19	, , , , , , , , , , , , , , , , , , ,	10000.00	16.27	180.96	9961.57	-144.50	145.05	-529.75	10.00	422832.05	702954.28 N 32 9 38.82 W 103 40 38.96
1980,000 1997 1998,000 19											
March Marc											
1600.00 1600											
1900.00 76.27 190.00 1905.27 190.00 1905.27 190.00 1905.27 190.00 1905.27 190.00 1905.27 190.00 1905.27 190.00 1905.27 190.00 1905.27 190.00 1905.27 1905.	Second Bone Spring Upper (SBU)										
Lending Pard 1073 at 3											
FPF Crises											
1,000,000 10,11 180,000											
110000 50.11 180.96 10371-35 786.12 -87.75 -54.44 -8.00 42019-84 7.029-96 18.2 9.376 1034 90.39-15 110000 1110000 10371-75 786.10 -7.75 -7	6.666										
111000											
112000 90.11 100.06 10373-12 886.09 487.52 544.78 0.00 421919.52 702907.24 32.9 2.9 26.00 103.00 30.22 103.00 11 103.00 10372.73 105.00 10372.73 105.00 10372.73 105.00 10372.73 105.00 10372.73 105.00 10372.73 105.00 10372.73 105.00 10372.73 105.00 10372.73 105.00 10372.73 105.00 10372.73 105.00 10372.73 105.00 10372.73 105.00 10372.73 105.00 10372.73 105.00 10372.74 105.0											
11400.00 50.11 109.06 10372.75 108607 -1097.46 -550.14 0.00 427619.86 70283.86 N 22 26.22 \ W 130.40 32.3 \ W 130.40 32.		11200.00	90.11	180.96	10373.12	868.09	-867.52	-546.78	0.00	421819.52	702937.24 N 32 9 28.80 W 103 40 39.23
1150.00 90.11 169.06 10372.54 1186.05 -1187.46 -554.31 0.00 -421519.89 70252.20 N. 22 22.53 W 103.49 29.31 1100.00 103.11 103.06 10372.56 1280.04 -1267.46 -556.31 0.00 -421519.61 70252.20 N. 32 22.53 W 103.49 20.33 1100.00 103.11 103.00 10371.76 1580.00 -1587.42 -556.31 0.00 -421519.61 70252.20 N. 32 22.53 W 103.49 20.33 W 1											
11700 00 90.11 189.96 10372.76 1386.03 -1467.45 -556.17 0.00 42119.65 702262.71 N. 32 22.85 \ Y103.03 33 33.0											
1860.00 90.11 189.96 10371-77 1586.00 -1567-43 -566.87 0.00 42119.68 70202-17 N 32 9.22 89 W 1034 0334 24 1200.00 0.01 169.96 10371-76 158.00 -1567-44 -560.24 0.00 42119.68 70202-17 N 32 9.28 89 W 1034 0334 24 1200.00 0.01 169.96 10371-76 169.96 169.96 169.96 169.96 169.96 169.96 169.96 169.96 169.96 169.96		11600.00								421419.60	
1900 00 90.11 180.96 10371.76 1586.00 1587.42 -588.55 0.00 4211196 702023.77 702023.73 1.00 2 30.18 70.00 4 30.00 4											
1200											
12200.00 90.11 100.66 10371.01 107.79 1-1867.38 5-96.52 0.00 42019.77 772596.48 N. 32 9 18.59 W 103.40 38.59 1240.00 90.11 100.66 10370.62 2067.94 -2067.35 -506.68 0.00 42019.77 772591.77 N. 32 9 17.59 W 103.40 38.55 1260.00 90.11 100.66 10370.62 2267.93 -2167.35 -506.68 0.00 42019.77 772591.70 N. 32 9 16.59 W 103.40 38.55 1260.00 0.01 100.06 10370.63 227.72 -227.73 -											
1200.00 90.11 109.66 10370.62 2076.94 -2067.36 -566.56 0.00 420719.75 702916.74 N 22 917.92 10340.3855 12500.00 90.11 109.66 10370.62 2067.93 -2067.33 -566.56 0.00 420519.77 702916.38 N 22 917.93 10340.3856 12500.00 90.11 109.56 10370.62 2067.93 -2067.93 -2067.03 -2											
120000		12300.00	90.11	180.96	10371.01	1967.95	-1967.36	-565.28	0.00	420719.73	702918.74 N 32 9 17.92 W 103 40 39.53
1,200,00											
12800.00 90.11 180.96 10370.06 2467.89 2467.89 573.69 0.00 420219.82 702306.38 3.2 91.97 70.39 439.86 2467.89 2467.89 2567.88 575.37 0.00 42019.86 702306.87 8.3 2 91.98 703.98 61											
12900.00 90.11 180.96 10386.87 2567.88 2567.86 2757.37 0.00 420119.84 702366.86 N 3.2 91.98 W 103.40 39.86 130.00 130.00 100.00											
13000.00 90.11 180.96 10388.68 2867.26 -557.06 0.00 42019.86 70296.97 N 32 91.09 V13.40 39.71											
13200											
MR_Tum 2/100ft											
MP, Tum 2/100ft 13354 93 90.11 180.96 10368.01 3022.75 -3062.14 -838.03 0.00 41965.00 70290.00 N 32 9 7.48 W 103 40 39.81 1 100.00 134.											
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FP1, Build 2 DLS		14700.00	90.11	179.60	10366.38	4367.77	-4367.17	-574.39	0.00	418320.02	702909.64 N 32 8 54.17 W 103 40 39.80
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15200.00 91.23 179.60 10360.05 4867.70 -4867.10 -570.88 0.00 417820.12 702913.15 N 32 849.22 W 103.40 38.80 15300.00 91.23 179.60 10355.77 5067.64 -5067.05 -569.48 0.00 417620.18 702914.54 N 32 847.24 W 103.40 38.80 15500.00 91.23 179.60 10355.77 5067.64 -5067.05 -569.48 0.00 417620.18 702914.54 N 32 847.24 W 103.40 38.80 15500.00 91.23 179.60 10351.49 5267.59 -5267.00 -568.08 0.00 417520.21 702915.24 N 32 846.25 W 103.40 39.79 1500.00 91.23 179.60 10351.49 5267.59 -5267.00 -568.08 0.00 417520.21 702915.24 N 32 845.26 W 103.40 39.79 1500.00 91.23 179.60 10349.35 5367.56 -5366.97 -567.38 0.00 41720.27 702916.64 N 32 845.26 W 103.40 39.79 1500.00 91.23 179.60 10347.20 5467.54 -5466.95 -566.68 0.00 417220.30 702917.34 N 32 843.29 W 103.40 39.79 1500.00 91.23 179.60 10347.20 5467.54 -5466.95 -566.68 0.00 417220.30 702917.34 N 32 843.29 W 103.40 39.79 1500.00 91.23 179.60 10347.20 5467.54 -5466.95 -566.98 0.00 417220.30 702917.34 N 32 843.29 W 103.40 39.79 1500.00 91.23 179.60 10345.05 5567.51 -5566.92 0.00 417220.30 702917.34 N 32 843.29 W 103.40 39.79 1500.00 91.23 179.60 10345.26 5667.51 -5566.92 0.00 417220.36 702918.74 N 32 843.29 W 103.40 39.79 1500.00 91.23 179.60 10345.26 5667.51 -5566.92 0.00 417220.36 702918.74 N 32 843.29 W 103.40 39.79 1500.00 91.23 179.60 10345.26 5667.51 -5566.92 0.00 417020.36 702918.74 N 32 843.30 W 103.40 39.79 1500.00 91.23 179.60 10345.26 5667.49 -5666.90 -566.29 0.00 417020.36 702918.74 N 32 843.30 W 103.40 39.79 1500.00 91.23 179.60 10345.26 5667.49 -5666.90 -566.29 0.00 417020.36 702918.74 N 32 843.30 W 103.40 39.79 1500.00 91.23 179.60 10345.26 5667.49 -5666.90 -566.29 0.00 417020.36 702918.74 N 32 843.30 W 103.40 39.79 1500.00 91.23 179.60 10345.26 5667.49 -5666.90 -566.29 0.00 417020.36 702918.74 N 32 843.30 W 103.40 39.79 1500.00 91.23 179.60 10345.26 5667.49 -5666.90 -566.29 0.00 417020.36 702918.74 N 32 843.30 W 103.40 39.79 1500.00 91.23 179.60 10345.26 5667.49 -5666.90 -566.29 0.00 417020.36 702918.74 N 32 843.30 W 103.40 39.79 1500.00 91.23 179.60 10345.26 5667.49 -566											
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15600.00 91.23 179.60 10351.49 5267.59 -5267.00 -568.08 0.00 417420.24 702915.94 N 32 845.26 W 103 40 39.79 15700.00 91.23 179.60 10349.35 5367.56 -5366.97 -567.38 0.00 417320.27 702916.64 N 32 844.28 W 103 40 39.79 15800.00 91.23 179.60 10347.20 5467.54 -5466.95 -566.68 0.00 417220.30 702917.34 N 32 844.28 W 103 40 39.79 15900.00 91.23 179.60 10345.06 5567.51 -5566.92 -566.98 0.00 41720.33 702918.04 N 32 843.29 W 103 40 39.79 16000.00 91.23 179.60 10342.92 5667.49 -5666.90 -566.29 0.00 417020.36 702918.74 N 32 841.31 W 103 40 39.79											
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16100.00 91.23 179.60 10340.78 5767.46 -5766.87 -564.59 0.00 416920.39 702919.44 N 32 840.32 W 103.40.39.79		16000.00	91.23	179.60	10342.92	5667.49	-5666.90	-565.29	0.00	417020.36	702918.74 N 32 8 41.31 W 103 40 39.79
		16100.00	91.23	179.60	10340.78	5767.46	-5766.87	-564.59	0.00	416920.39	702919.44 N 32 8 40.32 W 103 40 39.79

...CO Raptor 4 9 Fed Com 410H\CO Raptor 4 9 Fed Com 410H\CO Raptor 4 9 Fed Com 410H R2 mdv 20May22

Comments	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 ° ' ")
	16200.00	91.23	179.60	10338.64	5867.43	-5866.85	-563.89	0.00	416820.42		32 8 39.33 W	
	16300.00	91.23	179.60	10336.50	5967.41	-5966.82	-563.19	0.00	416720.45	702920.84 N	32 8 38.34 W	103 40 39.79
	16400.00	91.23	179.60	10334.35	6067.38	-6066.80	-562.49	0.00	416620.48	702921.54 N	32 8 37.35 W	103 40 39.79
	16500.00	91.23	179.60	10332.21	6167.36	-6166.77	-561.79	0.00	416520.51	702922.24 N	32 8 36.36 W	103 40 39.78
	16600.00	91.23	179.60	10330.07	6267.33	-6266.74	-561.09	0.00	416420.54	702922.94 N	32 8 35.37 W	103 40 39.78
	16700.00	91.23	179.60	10327.93	6367.30	-6366.72	-560.39	0.00	416320.57	702923.64 N	32 8 34.38 W	103 40 39.78
	16800.00	91.23	179.60	10325.79	6467.28	-6466.69	-559.69	0.00	416220.60	702924.33 N	32 8 33.39 W	103 40 39.78
	16900.00	91.23	179.60	10323.65	6567.25	-6566.67	-558.99	0.00	416120.63	702925.03 N	32 8 32.40 W	103 40 39.78
	17000.00	91.23	179.60	10321.50	6667.22	-6666.64	-558.29	0.00	416020.66	702925.73 N	32 8 31.41 W	103 40 39.78
	17100.00	91.23	179.60	10319.36	6767.20	-6766.62	-557.59	0.00	415920.69	702926.43 N	32 8 30.42 W	103 40 39.78
	17200.00	91.23	179.60	10317.22	6867.17	-6866.59	-556.89	0.00	415820.72	702927.13 N	32 8 29.44 W	103 40 39.78
	17300.00	91.23	179.60	10315.08	6967.15	-6966.57	-556.19	0.00	415720.75	702927.83 N	32 8 28.45 W	103 40 39.78
	17400.00	91.23	179.60	10312.94	7067.12	-7066.54	-555.49	0.00	415620.78	702928.53 N	32 8 27.46 W	103 40 39.77
	17500.00	91.23	179.60	10310.80	7167.09	-7166.52	-554.80	0.00	415520.81	702929.23 N	32 8 26.47 W	103 40 39.77
	17600.00	91.23	179.60	10308.66	7267.07	-7266.49	-554.10	0.00	415420.84	702929.93 N	32 8 25.48 W	103 40 39.77
	17700.00	91.23	179.60	10306.51	7367.04	-7366.47	-553.40	0.00	415320.87	702930.63 N	32 8 24.49 W	103 40 39.77
	17800.00	91.23	179.60	10304.37	7467.02	-7466.44	-552.70	0.00	415220.90	702931.33 N	32 8 23.50 W	103 40 39.77
	17900.00	91.23	179.60	10302.23	7566.99	-7566.41	-552.00	0.00	415120.93	702932.03 N	32 8 22.51 W	103 40 39.77
	18000.00	91.23	179.60	10300.09	7666.96	-7666.39	-551.30	0.00	415020.96	702932.73 N	32 8 21.52 W	103 40 39.77
	18100.00	91.23	179.60	10297.95	7766.94	-7766.36	-550.60	0.00	414920.99	702933.43 N	32 8 20.53 W	103 40 39.77
	18200.00	91.23	179.60	10295.81	7866.91	-7866.34	-549.90	0.00	414821.02	702934.12 N	32 8 19.54 W	103 40 39.77
	18300.00	91.23	179.60	10293.66	7966.88	-7966.31	-549.20	0.00	414721.05	702934.82 N	32 8 18.55 W	103 40 39.77
	18400.00	91.23	179.60	10291.52	8066.86	-8066.29	-548.50	0.00	414621.08	702935.52 N	32 8 17.56 W	103 40 39.76
	18500.00	91.23	179.60	10289.38	8166.83	-8166.26	-547.80	0.00	414521.11	702936.22 N	32 8 16.57 W	103 40 39.76
LTP Cross	18535.95	91.23	179.60	10288.61	8202.77	-8202.20	-547.55	0.00	414485.17	702936.47 N	32 8 16.22 W	103 40 39.76
	18600.00	91.23	179.60	10287.24	8266.81	-8266.24	-547.10	0.00	414421.14	702936.92 N	32 8 15.58 W	103 40 39.76
CO Raptor 4 9 Fed Com 410H - BHL	18611.14	91.23	179.60	10287.00	8277.94	-8277.38	-547.02	0.00	414410.00	702937.00 N	32 8 15.47 W	103 40 39.76

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)	ing Diameter (in)	Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	28.000	1/100.000	30.000	30.000		B001Mb_MWD+HRGM-Depth Only	CO Raptor 4 9 Fed Com 410H / CO Raptor 4 9 Fed Com 410H R2 mdv 20May22
	1	28.000	18611.142	1/100.000	30.000	30.000		B001Mb_MWD+HRGM	CO Raptor 4 9 Fed Com 410H / CO Raptor 4 9 Fed Com 410H R2

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Chevron
LEASE NO.:	NMNM054031
LOCATION:	Sec. 4, T.25 S, R 32 E
COUNTY:	Lea County, New Mexico
WELL NAME & NO.:	CO Raptor 4 9 Fed Com 410H
SURFACE HOLE FOOTAGE:	2269'/S & 1533'/E
BOTTOM HOLE FOOTAGE:	25'/S & 1210'/E
WELL NAME & NO.:	CO Raptor 4 9 Fed Com 411H
SURFACE HOLE FOOTAGE:	2269'/S & 1533'/E
BOTTOM HOLE FOOTAGE:	25'/S & 1210'/E
•	
WELL NAME & NO.:	CO Raptor 4 9 Fed Com 412H

Operator must not drill until Cotton Draw Unit contraction is approved by the BLM

SURFACE HOLE FOOTAGE: 2270'/S & 1508'/E **BOTTOM HOLE FOOTAGE:** 25'/S & 330'/E

 \mathbf{COA}

H ₂ S	•	No	0	Yes
Potash /	None	Secretary	© R-111-Q	☐ Open Annulus
WIPP	Choose	e an option (including bla	nk option.)	\square WIPP
Cave / Karst	• Low	Medium	C High	Critical
Wellhead	Conventional	Multibowl	O Both	O Diverter
Cementing	☐ Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	□ DV Tool
Special Req	☐ Capitan Reef	☐ Water Disposal	▼ COM	Unit
Waste Prev.	C Self-Certification	C Waste Min. Plan	APD Submitted p	rior to 06/10/2024
Additional	▼ Flex Hose	☐ Casing Clearance	☐ Pilot Hole	Break Testing
Language	☐ Four-String	☐ Offline Cementing	☐ Fluid-Filled	

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 43 CFR 3176 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 1072 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) 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>8 hours</u> or <u>500 pounds compressive strength</u>, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch 1st intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Excess calculates to 23%. Additional cement maybe required.

Wait on cement (WOC) time for a primary cement job is to include the tail cement slurry due to cave/karst.

- 3. The minimum required fill of cement behind the 7 inch 2nd Intermediate casing is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification. Excess calculates to 13%. Additional cement maybe required.

Wait on cement (WOC) time for a primary cement job is to include the tail cement slurry due to cave/karst.

- 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. 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 43 CFR 3172 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.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- 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 (575-706-2779) 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. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-689-5981 Lea 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 **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

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)

Contact Lea County Petroleum Engineering Inspection Staff:

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
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. 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.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** 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. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

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.

Page 5 of 9

- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-Q 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 43 CFR 3172.
- 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:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. 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.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. 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.
 - i. 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 cement), 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).
 - ii. 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 cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve

- open. (only applies to single stage cement jobs, prior to the cement setting up.)
- iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to 43 CFR 3172 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 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- iv. 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.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. 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.
- vii. 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.
- viii. 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 43 CFR 3172.

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.

Approved by Zota Stevens on 8/5/2024 575-234-5998 / zstevens@blm.gov



Training

MCBU Drilling and Completions H₂S training requirements are intended to define the minimum level of training required for employees, contractors and visitors to enter or perform work at MCBU Drilling and Completions locations that have known concentrations of H₂S.

Awareness Level

Employees and visitors to MCBU Drilling and Completions locations that have known concentrations of H₂S, who are not required to perform work in H₂S areas, will be provided with an awareness level of H₂S training prior to entering any H₂S areas. At a minimum, awareness level training will include:

- 1. Physical and chemical properties of H₂S
- 2. Health hazards of H₂S
- 3. Personal protective equipment
- 4. Information regarding potential sources of H₂S
- 5. Alarms and emergency evacuation procedures

Awareness level training will be developed and conducted by personnel who are qualified either by specific training, educational experience and/or work-related background.

Advanced Level H₂S Training

Employees and contractors required to work in areas that may contain H₂S will be provided with Advanced Level H₂S training prior to initial assignment. In addition to the Awareness Level requirements, Advanced Level H₂S training will include:

- 1. H₂S safe work practice procedures;
- 2. Emergency contingency plan procedures;
- 3. Methods to detect the presence or release of H₂S (e.g., alarms, monitoring equipment), including hands-on training with direct reading and personal monitoring H₂S equipment.
- 4. Basic overview of respiratory protective equipment suitable for use in H₂S environments. Note: Employees who work at sites that participate in the Chevron Respirator User program will require separate respirator training as required by the MCBU Respiratory Protection Program;
- 5. Basic overview of emergency rescue techniques, first aid, CPR and medical evaluation procedures. Employees who may be required to perform "standby" duties are required to receive additional first aid and CPR training, which is not covered in the Advanced Level H₂S training;
- 6. Proficiency examination covering all course material.

Advanced H₂S training courses will be instructed by personnel who have successfully completed an appropriate H₂S train-the-trainer development course (ANSI/ASSE Z390.1-2006) or who possess significant past experience through educational or work-related background.



H₂S Training Certification

All employees and visitors will be issued an H_2S training certification card (or certificate) upon successful completion of the appropriate H_2S training course. Personnel working in an H_2S environment will carry a current H_2S training certification card as proof of having received the proper training on their person at all times.

Briefing Area

A minimum of two briefing areas will be established in locations that at least one area will be upwind from the well at all times. Upon recognition of an emergency situation, all personnel should assemble at the designated upwind briefing areas for instructions.

H₂S Equipment

Released to Imaging: 9/8/2024 8:55:47 AM

Respiratory Protection

- a) Six 30 minute SCBAs 2 at each briefing area and 2 in the Safety Trailer.
- b) Eight 5 minute EBAs 5 in the dog house at the rig floor, 1 at the accumulator, 1 at the shale shakers and 1 at the mud pits.

Visual Warning System

- a) One color code sign, displaying all possible conditions, will be placed at the entrance to the location with a flag displaying the current condition.
- b) Two windsocks will be on location, one on the dog house and one on the Drill Site Manager's Trailer.

H₂S Detection and Monitoring System

- a) H₂S monitoring system (sensor head, warning light and siren) placed throughout rig.
 - Drilling Rig Locations: at a minimum, in the area of the Shale shaker, rig floor, and bell nipple.
 - Workover Rig Locations: at a minimum, in the area of the Cellar, rig floor and circulating tanks or shale shaker.



Well Control Equipment

- a) Flare Line 150' from wellhead with igniter.
- b) Choke manifold with a remotely operated choke.
- c) Mud / gas separator

Mud Program

In the event of drilling, completions, workover and well servicing operations involving a hydrogen sulfide concentration of 100 ppm or greater the following shall be considered:

- 1. Use of a degasser
- 2. Use of a zinc based mud treatment
- 3. Increasing mud weight

Public Safety - Emergency Assistance

<u>Agency</u>	Telephone Number
Lea County Sheriff's Department	575-396-3611
Fire Department:	
Carlsbad	575-885-3125
Artesia	575-746-5050
Lea County Regional Medical Center	575-492-5000
Jal Community Hospital	505-395-2511
Lea County Emergency Management	575-396-8602
Poison Control Center	800-222-1222

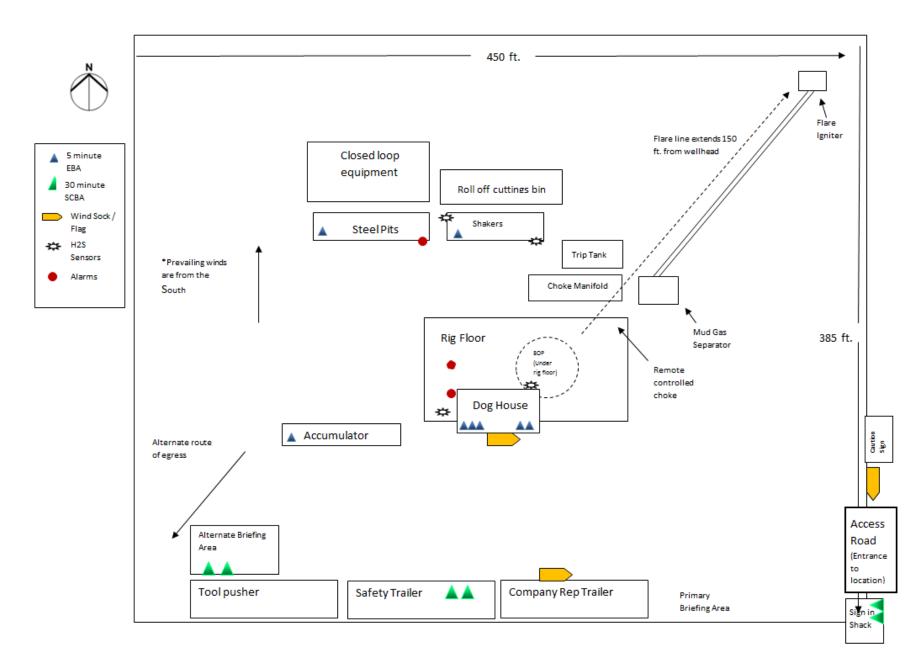


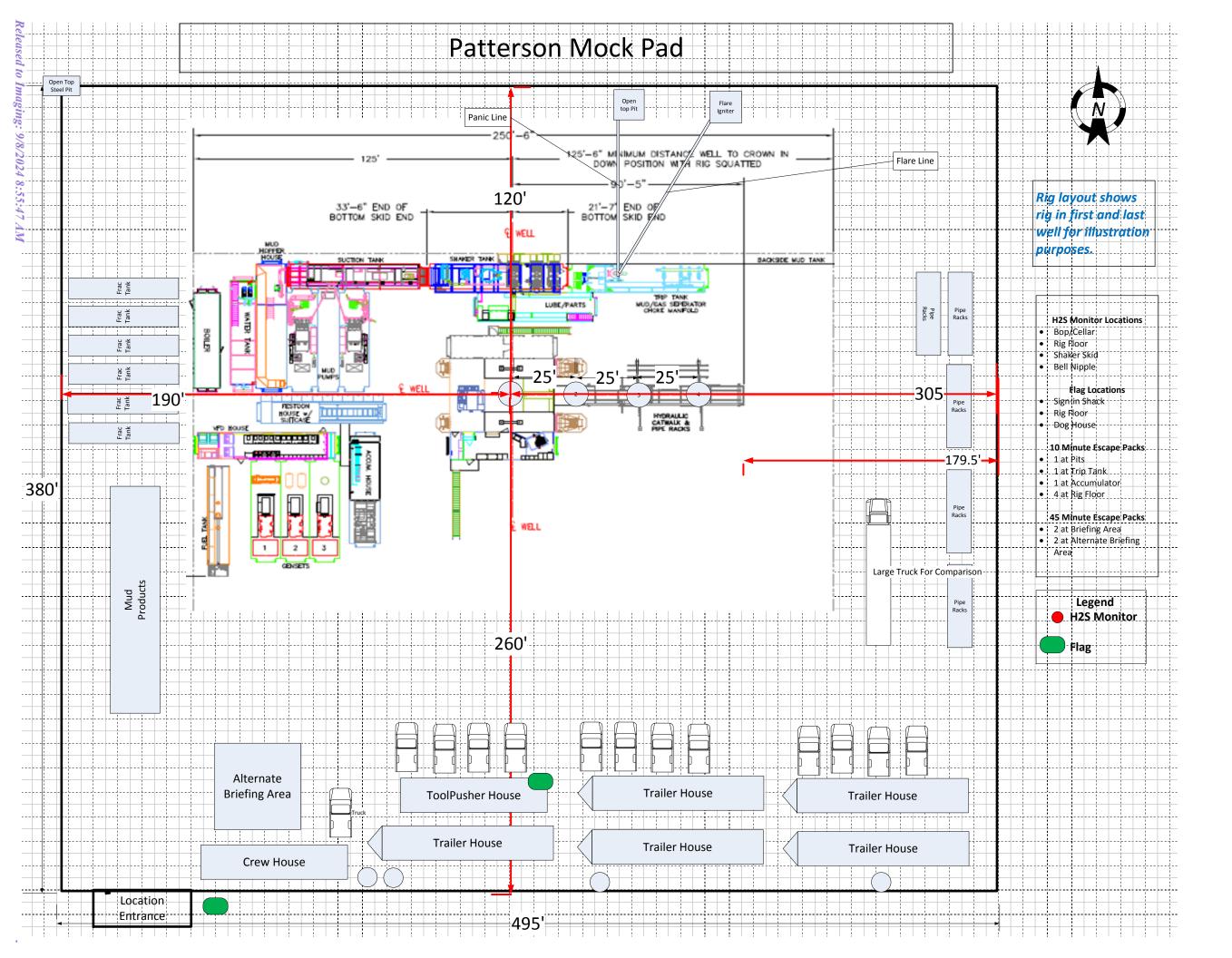
Chevron MCBU D&C Emergency Notifications

Below are lists of contacts to be used in emergency situations.

	Name	Title	Office Number	Cell Phone
1.	TBD	Drilling Engineer		
2.	Sergio Hernandez	Superintendent	713 372 1402	
5.	Dennis Mchugh	Drilling Manager	(713) 372-4496	
6.	Kyle Eastman	Operations Manager	713-372-5863	
7.	TBD	D&C HES		
8.	TBD	Completion Engineer		







Inten	t	As Dril	led										
API#													
Ope	rator Nai	me:				Propert	y Nam	ne:					Well Number
/ick (Off Doint	(KOD)											
UL	Off Point Section	Township	Range	Lot	Feet	Fro	m N/S	Feet		From	E/W	County	
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irst ⁻	Гаke Poir	nt (FTP)											
UL	Section	Township	Range	Lot	Feet	From N/S Feet From E/W County				County	County		
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UL Latitu	Section	t (LTP) Township	Range	Lot	Feet Longitu	From N/	'S Fe	eet	From E/		Count	у	
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	ll is yes p ng Unit.	lease provi	ide API if	availal	ble, Opei	rator Nan	ne and	d well n	umber f	or D	efinir	ng well fo	or Horizontal
API#													
Ope	rator Nai	me:	1			Propert	y Nan	ne:					Well Number

KZ 06/29/2018



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

Drilling Plan Data Report

Operator Name: CHEVRON USA INCORPORATED

Well Name: CO RAPTOR 4 9 FED COM

Well Type: OIL WELL

APD ID: 10400082527

Submission Date: 01/06/2022

Well Number: 410H

Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
13930998	RUSTLER	3474	804	804	DOLOMITE	NONE	N
13930999	RUSTLER	2472	1002	1002	MUDSTONE, SANDSTONE	NONE	N
13931000	SALADO	2345	1129	1129	HALITE	NONE	N
13931001	CASTILE	297	3177	3177	ANHYDRITE	NONE	N
13931002	LAMAR	-1225	4699	4739	LIMESTONE	NONE	N
13931004	BELL CANYON	-1261	4735	4775	SANDSTONE	NONE	N
13931005	CHERRY CANYON	-2154	5628	5668	SANDSTONE	NONE	N
13931009	BRUSHY CANYON	-3582	7056	7131	SANDSTONE	NONE	N
13931010	BONE SPRING	-5145	8619	8655	LIMESTONE	NONE	N
13931011	UPPER AVALON SHALE	-5261	8735	8771	LIMESTONE, SHALE	NATURAL GAS, OIL	Y
13931012	BONE SPRING 1ST	-6225	9699	9735	SANDSTONE	NATURAL GAS, OIL	Y
13931013	BONE SPRING 2ND	-6827	10301	10337	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M Rating Depth: 10374

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

Requesting Variance? YES

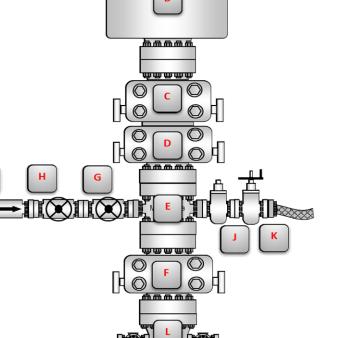
BLOWOUT PREVENTER SCHEMATIC

Operation: Intermediate & Production Drilling Operations

Minimum System operation pressure **BOP Stack Pressure Part** Size Description Rating 13-5/8" N/A Rotating Head/Bell nipple 13-5/8" 5,000 Annular В 13-5/8" C 10,000 Blind Ram 13-5/8" 10,000 D Pipe Ram Ē 13-5/8" 10,000 **Mud Cross** F 13-5/8" 10,000 Pipe Ram **Kill Line Pressure Part** Size Description Rating Inside Kill Line Valve (gate 2" G 10,000 valve) Outside Kill Line Valve 2" 10,000 (gate valve) 2" 10,000 Kill Line Check valve



Flow Line



Pressure Part Size Description Rating 3" 10,000 HCR (gate valve) 3" K 10,000 Manual HCR (gate valve) Wellhead Pressure **Part** Size Description Rating 13-5/8" 5,000 FMC Multibowl wellhead

Choke line

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.

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

CONDITIONS

Action 376151

CONDITIONS

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	376151
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	9/8/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	9/8/2024
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	9/8/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	9/8/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	9/8/2024
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	9/8/2024
ward.rikala	Submit C-102 on new form.	9/8/2024