*(Instructions on page 2)

Form 3160-3 (June 2015) UNITED STAT		FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018						
DEPARTMENT OF THI BUREAU OF LAND MA	E INTERIOF			5. Lease Serial No.				
APPLICATION FOR PERMIT TO	DRILL OR	REENTER		6. If Indian, Allotee or Trib	ne Name			
la. Type of work: DRILL	REENTER			7. If Unit or CA Agreemen	t, Name and No.			
lb. Type of Well: Oil Well Gas Well	Other			8. Lease Name and Well N	0.			
1c. Type of Completion: Hydraulic Fracturing	Single Zone	Multiple Zone		[3231	39]			
2. Name of Operator				9. API Well No.				
[4323] 3a. Address	3h Phone	No. (include area cod	le)		25-49784			
ou. Addiess	So. Thone	XXXXXX						
4. Location of Well (Report location clearly and in accordan At surface	ce with any Stat	te requirements.*)		11. Sec., T. R. M. or Blk. a	nd Survey or Area			
At proposed prod. zone 14. Distance in miles and direction from nearest town or post	office*			12. County or Parish	13. State			
<u> </u>			I					
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of a	acres in lease	17. Spacin	g Unit dedicated to this well				
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Propos	ed Depth	20. BLM/	/BIA Bond No. in file				
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approx	ximate date work will	start*	23. Estimated duration				
	24. Atta	chments						
The following, completed in accordance with the requirement (as applicable)	ts of Onshore O	il and Gas Order No.	1, and the H	Hydraulic Fracturing rule per	43 CFR 3162.3-3			
Well plat certified by a registered surveyor. A Drilling Plan.		Item 20 above).	•	as unless covered by an existing	ng bond on file (see			
 A Surface Use Plan (if the location is on National Forest Sy SUPO must be filed with the appropriate Forest Service Of 				rmation and/or plans as may be	e requested by the			
25. Signature	Nam	e (Printed/Typed)		Date				
Title								
Approved by (Signature)	Nam	e (Printed/Typed)		Date				
Title	Offic	ce						
Application approval does not warrant or certify that the appl applicant to conduct operations thereon. Conditions of approval, if any, are attached.	icant holds legal	l or equitable title to the	hose rights	in the subject lease which w	ould entitle the			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 121 of the United States any false, fictitious or fraudulent stateme					partment or agency			
NGMP Rec 02/21/2022								
			TONG	ド フ				
QI.	W	ITH CONDIT	IUND	02/21/20	022			
SL.	45 47 17 18 18	V "	The second second					

(Continued on page 2)

<u>District I</u> 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

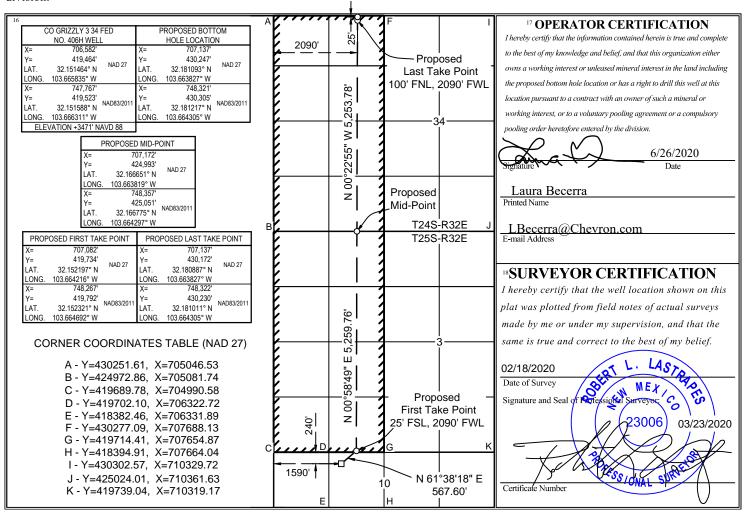
Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WC-025 G-05 T \$2532091. RONE SPRING

			WELL LOCAT	ION AND	ACREAG	E DEDICA	ΓΙΟΝ PLA	Γ S25	3209L	;BONE SPRI		
	¹ API Num		² Pool	Code			³ Pool Nar	ne [96	715]			
30-0	025-497	84	96715			_€0	TTON DRAW					
	ty Code		•	5 P	roperty Name				6 -	Well Number		
323139 CO GRIZZLY 3 34 FED 406H										406H		
⁷ OGR	ID No.			8 O	perator Name					⁹ Elevation		
4323 CHEVRON U.S.A. INC.										3471'		
				10 Sur	face Locat	ion		•				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/	West line	County		
C	10	25 SOUTH	32 EAST, N.M.P.M.		240'	NORTH	1590'	WE	ST	LEA		
			11 Bottom I	Hole Locat	ion If Diff	erent From S	Surface					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/V	West line	County		
C	34	24 SOUTH	32 EAST, N.M.P.M.		25'	NORTH	2090'	WE	ST	LEA		
12 Dedicated A	cres 13 Join	t or Infill	14 Consolidation Code	¹⁵ Order No.								
640												

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

I. Operator:Chevi	ron USA Inc		OGRID: _	<u>4323</u>		e: <u>02</u>	: <u>02</u> / <u>15</u> / <u>2022</u>			
II. Type: ⊠ Original [☐ Amendment	due to □ 19.15.27.9	9.D(6)(a) NMA	.C □ 19.15.27.9.D	(6)(b) 1	NMAC □ (Other.			
If Other, please describe	e:									
III. Well(s): Provide the be recompleted from a s					wells p	roposed to	be dri	lled or proposed to		
Well Name API		ULSTR	Footages	Anticipated Oil BBL/D		icipated MCF/D	Pı	Anticipated roduced Water BBL/D		
CO GRIZZLY 3 34 FED 404H	Pending	UL:C-10-25S-32E	240' FNL, 1540' FEL	2230 BBL/D	3980) MCF/D	3320 BBL/D			
CO GRIZZLY 3 34 FED 405H	Pending	UL:C-10-25S-32E	240' FNL, 1565' FEL	2230 BBL/D	3980) MCF/D	3320 BBL/D			
CO GRIZZLY 3 34 FED 406H	Pending 30-025-49784	UL:C-1025S-32H	E 240' FNL, 1590' FEL	2230 BBL/D	3980) MCF/D	MCF/D 3320 BBL/D			
IV. Central Delivery P	oint Name:	Cotton Drav	v Section 3 CT	<u>B</u>	[Se	e 19.15.27.	.9(D)(1	I) NMAC]		
V. Anticipated Schedu proposed to be recomple					vell or s	set of wells	propo	sed to be drilled or		
Well Name API		Spud Date	TD Reached Date	Completion Commencement		Initial F Back D		First Production Date		
CO GRIZZLY 3 34 FED 404H	Pending	7/11/2022	N/A	N/A		N/A		N/A		
CO GRIZZLY 3 34 FED 405H	Pending	7/29/2022	N/A	N/A		N/A		N/A		
CO GRIZZLY 3 34 FED 406H	Pending	8/16/2022	N/A	<u>N/A</u> 30-025-49	9784	<u>N/A</u>		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.

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	Available Maximum Daily Capacity
_	-		Start Date	of System Segment Tie-in

XI. Map. \square Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the	ıe
production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of	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	\square will \square will not have	capacity to gather 100%	% of the anticipated natural gas
production volume from the well prior to the date of first	st production.		

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

Γ	☐ ∆ttach	Opera	tor's	nlan i	to manage	production	in response	to the incre	ased line pressi	ure
L	- A Hach	Obera	IOI S	Dian	ю шапаче	DIOGUCTION	III TESDOUSE	to the incre	ased tille bless	ше

XIV. Confidentiality: Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information providentiality.	vided 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 info	rmation
for which confidentiality is asserted and the basis for such assertion.	

(i)

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; fuel cell production; and (h)

Section 4 - Notices

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

other alternative beneficial uses approved by the division.

- Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become (a) 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
- Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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

Signature: Cindy Herrera-Murillo
Printed Name: Cindy Herrera-Murillo
Title: Sn Regulatory Affairs Coordinator
E-mail Address: eeof@chevron.com
Date: 02/18/2022
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 GRIZZLY 3 34 FED Well Number: 406H

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 3rd party. - 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. Test BOP from 250 psi to 6,650 psi in Ram and Annular (annular and BOP will be 10M); 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. A full BOP test will be performed unless approval from 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:

BLM_Choke_Hose_Test_Specs_Pressure_Test_20200616142852.pdf

BLM_5M_Choke_Manifold_Diagram_20200616143140.pdf

Grizzly_P404_Break_Test_Variance_20200626100047.pdf

BOP Diagram Attachment:

BLM_5M_Annular_10M_Rams_Test_Plan_20200616142927.pdf

NM_Slim_Hole_Wellhead_6650_psi_UH_S_20200616143217.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	1110	0	1110	3471	2361	1110	J-55		OTHER - STC	2.13	1.43	DRY	4.07	DRY	4.07
2	1	12.2 5	9.625	NEW	API	N	0	4751	0	4751	3471	-1280	4751	L-80	40	OTHER - btc	1.24	1.64	DRY	2.78	DRY	2.78
3	PRODUCTI ON	8.75	7.0	NEW	API	N	0	10233	0	10181	3157	-6710	10233	OTH ER		OTHER - BLUE	1.63	1.15	DRY	2.39	DRY	2.39
4	LINER	6.12 5	5.0	NEW	API	Υ	9933	10733	9933	10733	-6462	-7262		P- 110		OTHER - W- 513	1.36	1.1	DRY	1.32	DRY	1.32
5	LINER	6.12 5	4.5	NEW	API	N	10733	21652	10733	10757	-7262	-7286	10919	P- 110		OTHER - w521	1.39	1.1	DRY	1.32	DRY	1.32

Operator Name: CHEVRON USA INCORPORATED Well Name: CO GRIZZLY 3 34 FED Well Number: 406H **Casing Attachments** Casing ID: 1 String Type: SURFACE **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): 13.375_54.5ppf_J55_BTC_20210817093617.pdf Casing ID: 2 String Type: INTERMEDIATE **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): 9.625_40ppf_L80_ICY_BTC_20210817080332.pdf Casing ID: 3 String Type: PRODUCTION **Inspection Document: Spec Document: Tapered String Spec:**

Casing Design Assumptions and Worksheet(s):

7_29ppf_P110_TSH_Blue_20200616144815.pdf

Well Name: CO GRIZZLY 3 34 FED Well Number: 406H

Casing Attachments

Casing ID: 4

String Type:LINER

Inspection Document:

Spec Document:

Tapered String Spec:

 $4.5_11.6ppf_P110_TSH_W521_20200616145927.pdf$

Casing Design Assumptions and Worksheet(s):

5_18ppf_P110_ICY_TSH_W521_20210817092443.pdf

Casing ID: 5

String Type:LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $CO_Grizzly_3_34_Fed_406H_9_point_r3_20210817092758.pdf$

 $4.5_11.6ppf_P110_TSH_W521_20210817092813.pdf$

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1110	519	1.34	14.8	695	100	Class C	Extender Antifoam Retarder

INTERMEDIATE	Lead	0	3751	1175	2	13.2	14.6	100	Class C	Extender, Antifoam, Retarder
INTERMEDIATE	Tail	3751	4751	336	1.4	14.8	470	50	Class C	Extender, Antifoam, Retarder

Well Name: CO GRIZZLY 3 34 FED Well Number: 406H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		4251	9233	562	2	13.2	1123	50		Extender, Antifoam, Retarder, Viscosifier
PRODUCTION	Tail		9233	1023 3	134	1.4	14.8	188	25	Class C	Extender, Antifoam, Retarder, Viscosifier
LINER	Lead		9933	2165 2	750	1.84	13.2	1380	25	Class C	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 by utilized 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.

Describe the mud monitoring system utilized: A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH. Visual mud monitoring equipment shall be in place to detect volume changes indicating loss or gain of circulating fluid volume. When abnormal pressures are anticipated -- a pit volume totalizer (PVT), stroke counter, and flow sensor will be used to detect volume changes indicating loss or gain of circulating fluid volume in compliance with Onshore Order # 2. A weighting 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 (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	4751	SALT SATURATED	8.3	10.6							
0	1110	SPUD MUD	8.3	8.9							VIS: 26-36 FILTRATE: 15-25

Well Name: CO GRIZZLY 3 34 FED Well Number: 406H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
4751	1023 3	OTHER : WBM/BRINE	8.7	10.6							VIS: 26-36 FILTRATE: 15-25
1023	2165	OIL-BASED MUD	8.7	10.6							VIS: 50-70 FILTRATE: 5-10 Due to wellbore stability, the mud program may exceed the MW weight window needed to maintain overburden of pore pressure.

Section 6 - Test, Logging, Coring

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

Type Logs Interval Timing

Mudlogs - 2 man mudlog - Surf csg shoe through prod hole TD - Drillout of Int Csg LWD - MWD Gamma - Int. and Prod. Hole - While Drilling

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

GAMMA RAY LOG, DIRECTIONAL SURVEY,

Coring operation description for the well:

Conventional whole core samples are not planned. A Directional Survey will be run.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5370 Anticipated Surface Pressure: 2998

Anticipated Bottom Hole Temperature(F): 180

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

H2S_Contingency_Plan_20210817093541.pdf

Well Name: CO GRIZZLY 3 34 FED Well Number: 406H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

CO_Grizzly_P404_Gas_Capture_Plan_20200626102540.pdf

CO_Grizzly_Pad_Rig_layout_20200701132926.pdf

CO_Grizzly_3_34_Fed_406H_Dir_Survey_20200701132947.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 and intermediate casing. The drilling rig will move in less than 90 days to continue drilling operations. Rig layouts attached.
- Authorization to follow Onshore Order 2 Section B Casing and Cementing Requirements to wait to 500 psi compressive 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.
- ***Drilling plan attached contains a contingency casing and cement program.

Other proposed operations facets attachment:

Other Variance attachment:

CUSA_Spudder_Rig_Data_20190802085518.pdf Grizzly_P404_WOC_Variance_20200626105854.pdf

Schlumberger

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:

Report Date: Client: Field:

UWI / API#:

Well:

Chevron CO Grizzly 3 34 Fed No. 406H Rev0 jjb 03Jun20 Proposal Geodetic Report

(Def Plan)



June 03, 2020 - 11:31 AM Chevron NM Lea County (NAD 27) Chevron CO Grizzly 3 34 Fed Pad / 406H CO Grizzly 3 34 Fed No. 406H CO Grizzly 3 34 Fed No. 406H Unknown / Unknown

Chevron CO Grizzly 3 34 Fed No. 406H Rev0 jjb 03Jun20

June 03, 2020 116.239 ° / 11663.793 ft / 6.435 / 1.082

NAD27 New Mexico State Plane, Eastern Zone, US Feet N 32° 9' 5.26643", W 103° 39' 57.00732" N 419464.000 ftUS, E 706582.000 ftUS

0.3552 ° 0.99995797 2.10.811.0 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 0.310 ° (Grid North) 0.000 ft, 0.000 ft RKB = 30ft 3501.000 ft above MSL 3471.000 ft above MSL 6.553 ° 998.4277mgn (9.80665 Based)

GARM 47726.536 nT 59.757 ° June 03, 2020 HDGM 2020 Grid North 0.3552 ° 6.1975 ° Well Head



Comments	MD (ft)	Incl (°)	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	419464.00		N 32 9 5.27	W 103 39 57.01
	100.00	0.00	121.73	100.00	0.00	0.00	0.00	0.00	419464.00	706582.00 I		W 103 39 57.01
	200.00	0.00	121.73	200.00	0.00	0.00	0.00	0.00	419464.00		N 32 9 5.27	W 103 39 57.01
	300.00	0.00	121.73	300.00	0.00	0.00	0.00	0.00	419464.00		N 32 9 5.27	W 103 39 57.01
	400.00 500.00	0.00	121.73 121.73	400.00	0.00	0.00	0.00	0.00	419464.00 419464.00		N 32 9 5.27 N 32 9 5.27	W 103 39 57.01 W 103 39 57.01
	600.00	0.00	121.73	500.00 600.00	0.00	0.00	0.00	0.00	419464.00		N 32 9 5.27 N 32 9 5.27	W 103 39 57.01 W 103 39 57.01
	700.00	0.00	121.73	700.00	0.00	0.00	0.00	0.00	419464.00			W 103 39 57.01
	800.00	0.00	121.73	800.00	0.00	0.00	0.00	0.00	419464.00			W 103 39 57.01
Rustler	813.00	0.00	121.73	813.00	0.00	0.00	0.00	0.00	419464.00	706582.00 /	V 32 9 5.27	W 103 39 57.01
9 5/8" Casing	900.00	0.00	121.73	900.00	0.00	0.00	0.00	0.00	419464.00			W 103 39 57.01
Build 1.5°/100ft	980.00	0.00	121.73	980.00	0.00	0.00	0.00	0.00	419464.00			W 103 39 57.01
	1000.00	0.30	121.73	1000.00	-0.03	-0.03	0.04	1.50	419463.97		N 32 9 5.27	W 103 39 57.01
	1100.00 1200.00	1.80 3.30	121.73 121.73	1099.98 1199.88	-0.98 -3.30	-0.99 -3.33	1.60 5.39	1.50 1.50	419463.01 419460.67		N 32 9 5.26 N 32 9 5.23	W 103 39 56.99 W 103 39 56.94
	1300.00	4.80	121.73	1299.63	-6.98	-7.05	11.39	1.50	419456.95		N 32 9 5.20	W 103 39 56.88
	1400.00	6.30	121.73	1399.15	-12.03	-12.13	19.62	1.50	419451.87			W 103 39 56.78
	1500.00	7.80	121.73	1498.40	-18.42	-18.59	30.06	1.50	419445.41	706612.06 I	N 32 9 5.08	W 103 39 56.66
	1600.00	9.30	121.73	1597.28	-26.18	-26.41	42.70	1.50	419437.59		N 32 9 5.00	W 103 39 56.51
	1700.00	10.80	121.73	1695.74	-35.27	-35.59	57.54	1.50	419428.42			W 103 39 56.34
Hold	1779.99 1800.00	12.00 12.00	121.73 121.73	1774.15 1793.73	-43.52 -45.68	-43.90 -46.09	70.99 74.53	1.50 0.00	419420.10 419417.91			W 103 39 56.18 W 103 39 56.14
	1900.00	12.00	121.73	1793.73	-45.68 -56.52	-46.09 -57.02	74.53 92.21	0.00	419417.91			W 103 39 56.14 W 103 39 55.94
	2000.00	12.00	121.73	1989.36	-56.52 -67.36	-67.96	109.89	0.00	419396.04		N 32 9 4.70 N 32 9 4.59	W 103 39 55.94 W 103 39 55.73
	2100.00	12.00	121.73	2087.17	-78.20	-78.89	127.58	0.00	419385.11		N 32 9 4.48	W 103 39 55.53
	2200.00	12.00	121.73	2184.99	-89.04	-89.83	145.26	0.00	419374.17			W 103 39 55.32
	2300.00	12.00	121.73	2282.80	-99.88	-100.76	162.94	0.00	419363.24		N 32 9 4.26	W 103 39 55.12
	2400.00	12.00	121.73	2380.62	-110.72	-111.70	180.63	0.00	419352.31		N 32 9 4.15	W 103 39 54.91
	2500.00	12.00	121.73	2478.43	-121.56	-122.63	198.31	0.00	419341.37			W 103 39 54.71
	2600.00	12.00	121.73	2576.25	-132.40	-133.57	215.99 233.67	0.00	419330.44	706797.98 I 706815.66 I	N 32 9 3.93 N 32 9 3.82	W 103 39 54.50 W 103 39 54.30
	2700.00 2800.00	12.00 12.00	121.73 121.73	2674.06 2771.88	-143.24 -154.08	-144.50 -155.44	251.36	0.00	419319.50 419308.57			W 103 39 54.30 W 103 39 54.10
	2900.00	12.00	121.73	2869.69	-164.92	-166.38	269.04	0.00	419297.63			W 103 39 53.89
	3000.00	12.00	121.73	2967.51	-175.76	-177.31	286.72	0.00	419286.70			W 103 39 53.69
	3100.00	12.00	121.73	3065.32	-186.60	-188.25	304.41	0.00	419275.76			W 103 39 53.48
	3200.00	12.00	121.73	3163.13	-197.44	-199.18	322.09	0.00	419264.83		N 32 9 3.28	W 103 39 53.28
	3300.00	12.00	121.73	3260.95	-208.27	-210.12	339.77	0.00	419253.89		N 32 9 3.17	W 103 39 53.07
Drop 0.75°/100ft	3347.22	12.00	121.73	3307.14	-213.39	-215.28	348.12	0.00	419248.73			W 103 39 52.97
	3400.00 3500.00	11.60 10.85	121.73 121.73	3358.80 3456.89	-219.02 -229.17	-220.96 -231.20	357.30 373.86	0.75 0.75	419243.05 419232.81		N 32 9 3.06 N 32 9 2.96	W 103 39 52.87 W 103 39 52.68
	3600.00	10.85	121.73	3555.22	-229.17	-240.76	389.33	0.75	419232.01			W 103 39 52.66 W 103 39 52.50
	3700.00	9.35	121.73	3653.78	-247.46	-249.65	403.70	0.75	419214.36		N 32 9 2.77	W 103 39 52.33
	3800.00	8.60	121.73	3752.55	-255.60	-257.86	416.98	0.75	419206.15	706998.96	N 32 9 2.69	W 103 39 52.18
	3900.00	7.85	121.73	3851.52	-263.06	-265.39	429.15	0.75	419198.62	707011.13 I		W 103 39 52.04
Castile	3902.50	7.84	121.73	3854.00	-263.24	-265.57	429.44	0.75	419198.44			W 103 39 52.03
	4000.00	7.10	121.73	3950.67	-269.85	-272.24	440.22	0.75	419191.78			W 103 39 51.91
	4100.00 4200.00	6.35 5.60	121.73 121.73	4049.98 4149.44	-275.96 -281.39	-278.40 -283.88	450.19 459.05	0.75 0.75	419185.61 419180.14		N 32 9 2.48 N 32 9 2.43	W 103 39 51.79 W 103 39 51.69
	4300.00	4.85	121.73	4249.02	-286.14	-288.67	466.80	0.75	419175.34	707041.03		W 103 39 51.60
	4400.00	4.10	121.73	4348.71	-290.21	-292.78	473.44	0.75	419171.24			W 103 39 51.52
	4500.00	3.35	121.73	4448.50	-293.60	-296.20	478.97	0.75	419167.82	707060.95 I	N 32 9 2.31	W 103 39 51.46
	4600.00	2.60	121.73	4548.37	-296.31	-298.93	483.39	0.75	419165.08		N 32 9 2.28	W 103 39 51.41
	4700.00	1.85	121.73	4648.29	-298.34	-300.98	486.70	0.75	419163.04			W 103 39 51.37
Lamar	4750.73	1.47	121.73	4699.00 4740.00	-299.11 -299.60	-301.75	487.95 488.75	0.75 0.75	419162.26		V 32 9 2.25 V 32 9 2.25	W 103 39 51.35 W 103 39 51.34
Bell Canyon	4791.74 4800.00	1.17 1.10	121.73 121.73	4740.00 4748.26	-299.60 -299.68	-302.25 -302.33	488.75 488.89	0.75	419161.77 419161.68			W 103 39 51.34 W 103 39 51.34
	4900.00	0.35	121.73	4848.25	-300.35	-302.33	489.98	0.75	419161.01			W 103 39 51.34 W 103 39 51.33
Hold Vertical	4947.19	0.00	121.73	4895.44	-300.42	-303.08	490.10	0.75	419160.93			W 103 39 51.33
	5000.00	0.00	121.73	4948.25	-300.42	-303.08	490.10	0.00	419160.93			W 103 39 51.33
	5100.00	0.00	121.73	5048.25	-300.42	-303.08	490.10	0.00	419160.93			W 103 39 51.33
	5200.00	0.00	121.73	5148.25	-300.42	-303.08	490.10	0.00	419160.93		N 32 9 2.24	W 103 39 51.33
	5300.00	0.00	121.73	5248.25	-300.42	-303.08	490.10	0.00	419160.93			W 103 39 51.33
	5400.00	0.00	121.73	5348.25	-300.42	-303.08	490.10	0.00	419160.93			W 103 39 51.33
	5500.00 5600.00	0.00	121.73 121.73	5448.25 5548.25	-300.42 -300.42	-303.08 -303.08	490.10 490.10	0.00	419160.93 419160.93			W 103 39 51.33 W 103 39 51.33
Cherry Canyon	5600.00 5686.75	0.00	121.73	5548.25 5635.00	-300.42 -300.42	-303.08	490.10 490.10	0.00	419160.93			W 103 39 51.33 W 103 39 51.33
z, sanyon	5700.00	0.00	121.73	5648.25	-300.42	-303.08	490.10	0.00	419160.93		N 32 9 2.24	W 103 39 51.33
	5800.00	0.00	121.73	5748.25	-300.42	-303.08	490.10	0.00	419160.93			W 103 39 51.33
	5900.00	0.00	121.73	5848.25	-300.42	-303.08	490.10	0.00	419160.93	707072.08 I	N 32 9 2.24	W 103 39 51.33
	6000.00	0.00	121.73	5948.25	-300.42	-303.08	490.10	0.00	419160.93			W 103 39 51.33
	6100.00	0.00	121.73	6048.25	-300.42	-303.08	490.10	0.00	419160.93			W 103 39 51.33
	6200.00	0.00	121.73	6148.25	-300.42	-303.08	490.10	0.00	419160.93			W 103 39 51.33
	6300.00 6400.00	0.00	121.73 121.73	6248.25 6348.25	-300.42 -300.42	-303.08 -303.08	490.10 490.10	0.00	419160.93 419160.93		N 32 9 2.24 N 32 9 2.24	W 103 39 51.33 W 103 39 51.33
	6500.00	0.00	121.73	6448.25	-300.42	-303.08	490.10	0.00	419160.93			W 103 39 51.33 W 103 39 51.33
							490.10					W 103 39 51.33
	6600.00	0.00	121./3	6548.25	-300.42	-303.08	490.10	0.00	419160.93	/0/0/2.00 1	N 32 9 2.24	W 103 39 51.33
	6600.00 6700.00	0.00	121.73 121.73	6548.25 6648.25	-300.42 -300.42	-303.08 -303.08	490.10	0.00	419160.93 419160.93			W 103 39 51.33 W 103 39 51.33

Drilling Office 2.10.811.0

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting Latitude Longitude (ftUS) (N/S ° ' ") (E/W ° ' "
	6900.00 7000.00	0.00	121.73 121.73	6848.25 6948.25	-300.42 -300.42	-303.08 -303.08	490.10 490.10	0.00	419160.93 419160.93	707072.08 N 32 9 2.24 W 103 39 51.33 707072.08 N 32 9 2.24 W 103 39 51.33
Brushy Canyon	7037.75	0.00	121.73	6986.00	-300.42	-303.08	490.10	0.00	419160.93	707072.08 N 32 9 2.24 W 103 39 51.33
	7100.00	0.00	121.73	7048.25	-300.42	-303.08	490.10	0.00	419160.93	707072.08 N 32 9 2.24 W 103 39 51.33
	7200.00 7300.00	0.00	121.73 121.73	7148.25 7248.25	-300.42 -300.42	-303.08 -303.08	490.10 490.10	0.00	419160.93 419160.93	707072.08 N 32 9 2.24 W 103 39 51.33 707072.08 N 32 9 2.24 W 103 39 51.33
	7400.00	0.00	121.73	7348.25	-300.42	-303.08	490.10	0.00	419160.93	707072.08 N 32 9 2.24 W 103 39 51.33
	7500.00	0.00	121.73	7448.25	-300.42	-303.08	490.10	0.00	419160.93	707072.08 N 32 9 2.24 W 103 39 51.33
	7600.00 7700.00	0.00	121.73 121.73	7548.25 7648.25	-300.42 -300.42	-303.08 -303.08	490.10 490.10	0.00	419160.93 419160.93	707072.08 N 32 9 2.24 W 103 39 51.33 707072.08 N 32 9 2.24 W 103 39 51.33
	7800.00	0.00	121.73	7748.25	-300.42	-303.08	490.10	0.00	419160.93	707072.08 N 32 9 2.24 W 103 39 51.30 707072.08 N 32 9 2.24 W 103 39 51.30
	7900.00	0.00	121.73	7848.25	-300.42	-303.08	490.10	0.00	419160.93	707072.08 N 32 9 2.24 W 103 39 51.33
	8000.00	0.00	121.73	7948.25	-300.42	-303.08	490.10	0.00	419160.93	707072.08 N 32 9 2.24 W 103 39 51.33 707072.08 N 32 9 2.24 W 103 39 51.33
	8100.00 8200.00	0.00	121.73 121.73	8048.25 8148.25	-300.42 -300.42	-303.08 -303.08	490.10 490.10	0.00	419160.93 419160.93	707072.08 N 32 9 2.24 W 103 39 51.33 707072.08 N 32 9 2.24 W 103 39 51.33
	8300.00	0.00	121.73	8248.25	-300.42	-303.08	490.10	0.00	419160.93	707072.08 N 32 9 2.24 W 103 39 51.33
	8400.00	0.00	121.73	8348.25	-300.42	-303.08	490.10	0.00	419160.93	707072.08 N 32 9 2.24 W 103 39 51.33
	8500.00 8600.00	0.00	121.73 121.73	8448.25 8548.25	-300.42 -300.42	-303.08 -303.08	490.10 490.10	0.00	419160.93 419160.93	707072.08 N 32 9 2.24 W 103 39 51.33 707072.08 N 32 9 2.24 W 103 39 51.33
Bone Spring	8664.75	0.00	121.73	8613.00	-300.42	-303.08	490.10	0.00	419160.93	707072.08 N 32 9 2.24 W 103 39 51.33
, ,	8700.00	0.00	121.73	8648.25	-300.42	-303.08	490.10	0.00	419160.93	707072.08 N 32 9 2.24 W 103 39 51.33
7" Casing	8701.75	0.00	121.73	8650.00	-300.42	-303.08	490.10	0.00	419160.93	707072.08 N 32 9 2.24 W 103 39 51.33
Upper Avalon	8768.75 8800.00	0.00 0.00	121.73 121.73	8717.00 8748.25	-300.42 -300.42	-303.08 -303.08	490.10 490.10	0.00 0.00	419160.93 419160.93	707072.08 N 32 9 2.24 W 103 39 51.33 707072.08 N 32 9 2.24 W 103 39 51.33
	8900.00	0.00	121.73	8848.25	-300.42	-303.08	490.10	0.00	419160.93	707072.08 N 32 9 2.24 W 103 39 51.33
	9000.00	0.00	121.73	8948.25	-300.42	-303.08	490.10	0.00	419160.93	707072.08 N 32 9 2.24 W 103 39 51.33
	9100.00	0.00	121.73	9048.25	-300.42	-303.08	490.10	0.00	419160.93	707072.08 N 32 9 2.24 W 103 39 51.33
	9200.00 9300.00	0.00	121.73 121.73	9148.25 9248.25	-300.42 -300.42	-303.08 -303.08	490.10 490.10	0.00	419160.93 419160.93	707072.08 N 32 9 2.24 W 103 39 51.33 707072.08 N 32 9 2.24 W 103 39 51.33
	9400.00	0.00	121.73	9348.25	-300.42	-303.08	490.10	0.00	419160.93	707072.08 N 32 9 2.24 W 103 39 51.3. 707072.08 N 32 9 2.24 W 103 39 51.3.
	9500.00	0.00	121.73	9448.25	-300.42	-303.08	490.10	0.00	419160.93	707072.08 N 32 9 2.24 W 103 39 51.33
Ton Done One' 1	9600.00	0.00	121.73	9548.25	-300.42	-303.08	490.10	0.00	419160.93	707072.08 N 32 9 2.24 W 103 39 51.33
Top Bone Spring 1	9690.75 9700.00	0.00 0.00	121.73 121.73	9639.00 9648.25	-300.42 -300.42	-303.08 -303.08	490.10 490.10	0.00 0.00	419160.93 419160.93	707072.08 N 32 9 2.24 W 103 39 51.33 707072.08 N 32 9 2.24 W 103 39 51.33
	9800.00	0.00	121.73	9748.25	-300.42	-303.08	490.10	0.00	419160.93	707072.08 N 32 9 2.24 W 103 39 51.3.
	9900.00	0.00	121.73	9848.25	-300.42	-303.08	490.10	0.00	419160.93	707072.08 N 32 9 2.24 W 103 39 51.33
	10000.00	0.00	121.73	9948.25	-300.42	-303.08	490.10	0.00	419160.93	707072.08 N 32 9 2.24 W 103 39 51.33
	10100.00 10200.00	0.00	121.73 121.73	10048.25 10148.25	-300.42 -300.42	-303.08 -303.08	490.10 490.10	0.00	419160.93 419160.93	707072.08 N 32 9 2.24 W 103 39 51.33 707072.08 N 32 9 2.24 W 103 39 51.33
KOP, Build 10°/100ft	10232.79	0.00	121.73	10181.04	-300.42	-303.08	490.10	0.00	419160.93	707072.08 N 32 9 2.24 W 103 39 51.33
	10300.00	6.72	0.99	10248.09	-296.49	-299.14	490.17	10.00	419164.87	707072.15 N 32 9 2.28 W 103 39 51.33
Top Bone Spring 2	10313.02	8.02	0.99	10261.00	-294.82	-297.47	490.20	10.00	419166.54	707072.18 N 32 9 2.29 W 103 39 51.33
Bone Spring 2 Target 2	10400.00 10411.64	16.72 17.89	0.99 0.99	10345.88 10357.00	-276.20 -272.74	-278.86 -275.40	490.52 490.58	10.00 10.00	419185.15 419188.62	707072.50 N 32 9 2.48 W 103 39 51.32 707072.56 N 32 9 2.51 W 103 39 51.32
Bone Spring 2 Target 2	10500.00	26.72	0.99	10438.67	-239.24	-241.90	491.16	10.00	419222.11	707073.14 N 32 9 2.84 W 103 39 51.3
	10600.00	36.72	0.99	10523.62	-186.73	-189.40	492.07	10.00	419274.61	707074.05 N 32 9 3.36 W 103 39 51.30
	10700.00	46.72	0.99	10598.16	-120.27	-122.94	493.22	10.00	419341.06	707075.20 N 32 9 4.02 W 103 39 51.28
Bone Spring 2 Target 1	10800.00 10870.50	56.72 63.77	0.99 0.99	10660.04 10695.00	-41.88 19.28	-44.56 16.60	494.58 495.64	10.00 10.00	419419.45 419480.60	707076.55 N 32 9 4.80 W 103 39 51.20 707077.61 N 32 9 5.40 W 103 39 51.24
Bone Spring 2 Target 1	10900.00	66.72	0.99	10707.35	46.07	43.38	496.10	10.00	419507.38	707078.08 N 32 9 5.67 W 103 39 51.23
	11000.00	76.72	0.99	10738.68	140.89	138.20	497.74	10.00	419602.20	707079.72 N 32 9 6.60 W 103 39 51.2
FIF Gloss	11100.00	86.72	0.99	10753.06	239.72	237.02	499.45	10.00	419701.01	707081.43 N 32 9 7.58 W 103 39 51.18
Landing Point	11133.01 11200.00	90.02 90.02	0.99 0.99	10754.00 10753.97	272.71 339.70	270.01 336.99	500.02 501.18	10.00 0.00	419734.00 419800.97	707082.00 N 32 9 7.91 W 103 39 51.13 707083.16 N 32 9 8.57 W 103 39 51.13
	11300.00	90.02	0.99	10753.93	439.69	436.97	502.91	0.00	419900.95	707084.89 N 32 9 9.56 W 103 39 51.13
	11400.00	90.02	0.99	10753.90	539.68	536.96	504.65	0.00	420000.93	707086.62 N 32 9 10.55 W 103 39 51.10
	11500.00	90.02	0.99	10753.86	639.67	636.94	506.38	0.00	420100.92	707088.35 N 32 9 11.54 W 103 39 51.07
	11600.00 11700.00	90.02 90.02	0.99 0.99	10753.82 10753.78	739.67 839.66	736.93 836.91	508.11 509.84	0.00	420200.90 420300.88	707090.09 N 32 9 12.53 W 103 39 51.04 707091.82 N 32 9 13.52 W 103 39 51.02
	11800.00	90.02	0.99	10753.74	939.65	936.90	511.57	0.00	420400.86	707093.55 N 32 9 14.51 W 103 39 50.99
	11900.00	90.02	0.99	10753.71	1039.65	1036.88	513.30	0.00	420500.84	707095.28 N 32 9 15.50 W 103 39 50.96
	12000.00 12100.00	90.02 90.02	0.99 0.99	10753.67	1139.64 1239.63	1136.87	515.03	0.00	420600.82 420700.80	707097.01 N 32 9 16.48 W 103 39 50.93 707098.74 N 32 9 17.47 W 103 39 50.93
	12200.00	90.02	0.99	10753.63 10753.59	1339.62	1236.85 1336.84	516.76 518.50	0.00	420700.80	707100.47 N 32 9 17.47 W 103 39 50.9
	12300.00	90.02	0.99	10753.55	1439.62	1436.82	520.23	0.00	420900.76	707102.20 N 32 9 19.45 W 103 39 50.85
	12400.00	90.02	0.99	10753.52	1539.61	1536.81	521.96	0.00	421000.74	707103.94 N 32 9 20.44 W 103 39 50.83
	12500.00	90.02	0.99	10753.48	1639.60	1636.79	523.69	0.00	421100.72	707105.67 N 32 9 21.43 W 103 39 50.80
	12600.00 12700.00	90.02 90.02	0.99 0.99	10753.44 10753.40	1739.60 1839.59	1736.78 1836.76	525.42 527.15	0.00	421200.70 421300.68	707107.40 N 32 9 22.42 W 103 39 50.73 707109.13 N 32 9 23.41 W 103 39 50.74
	12800.00	90.02	0.99	10753.36	1939.58	1936.75	528.88	0.00	421400.66	707110.86 N 32 9 24.40 W 103 39 50.72
	12900.00	90.02	0.99	10753.33	2039.57	2036.73	530.61	0.00	421500.64	707112.59 N 32 9 25.39 W 103 39 50.69
	13000.00 13100.00	90.02 90.02	0.99 0.99	10753.29 10753.25	2139.57 2239.56	2136.72 2236.70	532.35 534.08	0.00	421600.62 421700.61	707114.32 N 32 9 26.38 W 103 39 50.66 707116.05 N 32 9 27.37 W 103 39 50.63
	13200.00	90.02	0.99	10753.25	2339.55	2336.69	534.08	0.00	421700.61	707117.78 N 32 9 28.36 W 103 39 50.6.
	13300.00	90.02	0.99	10753.18	2439.55	2436.67	537.54	0.00	421900.57	707119.52 N 32 9 29.35 W 103 39 50.58
	13400.00	90.02	0.99	10753.14	2539.54	2536.66	539.27	0.00	422000.55	707121.25 N 32 9 30.33 W 103 39 50.55
	13500.00 13600.00	90.02 90.02	0.99 0.99	10753.10 10753.06	2639.53 2739.53	2636.64 2736.63	541.00 542.73	0.00	422100.53 422200.51	707122.98 N 32 9 31.32 W 103 39 50.52 707124.71 N 32 9 32.31 W 103 39 50.50
	13700.00	90.02	0.99	10753.00	2839.52	2836.61	544.46	0.00	422300.49	707124.71 N 32 9 32.31 W 103 39 50.50 707126.44 N 32 9 33.30 W 103 39 50.41
IFP1, Drop 2°/100ft	13761.52	90.02	0.99	10753.00	2901.04	2898.13	545.53	0.00	422362.00	707127.51 N 32 9 33.91 W 103 39 50.45
Hold	13786.68	89.52	0.99	10753.10	2926.19	2923.28	545.97	2.00	422387.15	707127.94 N 32 9 34.16 W 103 39 50.45
	13800.00	89.52	0.99 0.99	10753.21	2939.51	2936.60	546.20	0.00	422400.47	707128.17 N 32 9 34.29 W 103 39 50.44
	13900.00 14000.00	89.52 89.52	0.99	10754.05 10754.89	3039.50 3139.49	3036.58 3136.56	547.93 549.66	0.00	422500.45 422600.42	707129.90 N 32 9 35.28 W 103 39 50.4 707131.64 N 32 9 36.27 W 103 39 50.39
	14100.00	89.52	0.99	10755.73	3239.48	3236.54	551.39	0.00	422700.40	707133.37 N 32 9 37.26 W 103 39 50.36
	14200.00	89.52	0.99	10756.57	3339.47	3336.52	553.12	0.00	422800.38	707135.10 N 32 9 38.25 W 103 39 50.33
	14300.00	89.52	0.99	10757.41	3439.46	3436.51	554.85 556.59	0.00	422900.35	707136.83 N 32 9 39.24 W 103 39 50.3
	14400.00 14500.00	89.52 89.52	0.99 0.99	10758.25 10759.09	3539.45 3639.44	3536.49 3636.47	556.59 558.32	0.00	423000.33 423100.31	707138.56 N 32 9 40.23 W 103 39 50.28 707140.29 N 32 9 41.22 W 103 39 50.28
	14600.00	89.52	0.99	10759.93	3739.43	3736.45	560.05	0.00	423200.29	707142.02 N 32 9 42.21 W 103 39 50.22
	14700.00	89.52	0.99	10760.77	3839.41	3836.43	561.78	0.00	423300.26	707143.76 N 32 9 43.19 W 103 39 50.20
	14800.00	89.52	0.99	10761.61	3939.40	3936.41	563.51	0.00	423400.24	707145.49 N 32 9 44.18 W 103 39 50.17
	14900.00 15000.00	89.52 89.52	0.99 0.99	10762.45 10763.30	4039.39 4139.38	4036.39 4136.38	565.24 566.98	0.00	423500.22 423600.19	707147.22 N 32 9 45.17 W 103 39 50.14 707148.95 N 32 9 46.16 W 103 39 50.11
	15100.00	89.52	0.99	10764.14	4239.37	4236.36	568.71	0.00	423700.17	707150.68 N 32 9 47.15 W 103 39 50.1
	15200.00	89.52	0.99	10764.98	4339.36	4336.34	570.44	0.00	423800.15	707152.41 N 32 9 48.14 W 103 39 50.06
	15300.00	89.52	0.99	10765.82	4439.35	4436.32	572.17	0.00	423900.12	707154.15 N 32 9 49.13 W 103 39 50.03
	15400.00	89.52	0.99	10766.66	4539.34	4536.30	573.90	0.00	424000.10	707155.88 N 32 9 50.12 W 103 39 50.00
	15500.00 15600.00	89.52 89.52	0.99 0.99	10767.50 10768.34	4639.33 4739.32	4636.28 4736.26	575.63 577.37	0.00	424100.08 424200.06	707157.61 N 32 9 51.11 W 103 39 49.98 707159.34 N 32 9 52.10 W 103 39 49.98
	15700.00	89.52	0.99	10769.18	4839.31	4836.25	579.10	0.00	424300.03	707161.07 N 32 9 53.09 W 103 39 49.93
	15800.00	89.52	0.99	10770.02	4939.30	4936.23	580.83	0.00	424400.01	707162.80 N 32 9 54.08 W 103 39 49.89
	15900.00 15900.00	89.52 89.52	0.99 0.99	10770.86 10771.70	5039.29 5139.28	5036.21 5136.19	582.56 584.29	0.00	424499.99 424599.96	707164.54 N 32 9 55.07 W 103 39 49.85 707166.27 N 32 9 56.06 W 103 39 49.84

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	16200.00	89.52	0.99	10773.38	5339.26	5336.15	587.76	0.00	424799.92			W 103 39 49.79
	16300.00	89.52	0.99	10774.22	5439.24	5436.13	589.49	0.00	424899.90			W 103 39 49.76
MP, Build & Turn 2°/100ft	16393.13	89.52	0.99	10775.00	5532.36	5529.24	591.10	0.00	424993.00			W 103 39 49.73
Wii , Build & Tuill 2 / Toolt	16400.00	89.58	0.87	10775.05	5539.23	5536.12	591.21	2.00	424999.87			W 103 39 49.73
Hold	16471.72	90.27	359.61	10775.14	5610.96	5607.84	591.52	2.00	425071.59			W 103 39 49.72
	16500.00	90.27	359.61	10775.01	5639.23	5636.11	591.32	0.00	425099.86			W 103 39 49.72
	16600.00	90.27	359.61	10774.53	5739.22	5736.11	590.65	0.00	425199.86			W 103 39 49.72
	16700.00	90.27	359.61	10774.05	5839.21	5836.11	589.97	0.00	425299.85			W 103 39 49.72
	16800.00	90.27	359.61	10773.58	5939.20	5936.10	589.30	0.00	425399.84	707171.27	N 32 10 3.97	W 103 39 49.72
	16900.00	90.27	359.61	10773.10	6039.20	6036.10	588.62	0.00	425499.83	707170.60	N 32 10 4.96	W 103 39 49.72
	17000.00	90.27	359.61	10772.62	6139.19	6136.10	587.95	0.00	425599.83	707169.92	N 32 10 5.95	W 103 39 49.72
	17100.00	90.27	359.61	10772.15	6239.18	6236.09	587.27	0.00	425699.82	707169.25	N 32 10 6.94	W 103 39 49.73
	17200.00	90.27	359.61	10771.67	6339.17	6336.09	586.60	0.00	425799.81			W 103 39 49.73
	17300.00	90.27	359.61	10771.20	6439.16	6436.09	585.92	0.00	425899.80			W 103 39 49.73
	17400.00	90.27	359.61	10770.72	6539.15	6536.08	585.25	0.00	425999.79	707167.22	N 32 10 9.91	W 103 39 49.73
	17500.00	90.27	359.61	10770.24	6639.14	6636.08	584.57	0.00	426099.79			W 103 39 49.73
	17600.00	90.27	359.61	10769.77	6739.14	6736.08	583.90	0.00	426199.78			W 103 39 49.73
	17700.00	90.27	359.61	10769.29	6839.13	6836.07	583.22	0.00	426299.77			W 103 39 49.73
	17800.00	90.27	359.61	10768.81	6939.12	6936.07	582.55	0.00	426399.76			W 103 39 49.73
	17900.00	90.27	359.61	10768.34	7039.11	7036.07	581.87	0.00	426499.76			W 103 39 49.73
	18000.00	90.27	359.61	10767.86	7139.10	7136.06	581.20	0.00	426599.75			W 103 39 49.73
	18100.00	90.27	359.61	10767.38	7239.09	7236.06	580.52	0.00	426699.74			W 103 39 49.73
	18200.00	90.27	359.61	10766.91	7339.08	7336.05	579.85	0.00	426799.73			W 103 39 49.73
	18300.00	90.27	359.61	10766.43	7439.08	7436.05	579.17	0.00	426899.72			W 103 39 49.73
	18400.00	90.27	359.61	10765.95	7539.07	7536.05	578.50	0.00	426999.72			W 103 39 49.73
	18500.00	90.27	359.61	10765.48	7639.06	7636.04	577.82	0.00	427099.71			W 103 39 49.73
	18600.00	90.27 90.27	359.61	10765.00	7739.05 7839.04	7736.04	577.15	0.00	427199.70			W 103 39 49.73 W 103 39 49.74
	18700.00 18800.00	90.27	359.61 359.61	10764.52 10764.05	7939.03	7836.04 7936.03	576.47 575.80	0.00	427299.69 427399.68			W 103 39 49.74 W 103 39 49.74
	18900.00	90.27	359.61	10763.57	8039.02	8036.03	575.12	0.00	427499.68			W 103 39 49.74 W 103 39 49.74
	19000.00	90.27	359.61	10763.09	8139.02	8136.03	574.45	0.00	427599.67			W 103 39 49.74 W 103 39 49.74
IFP2, Drop 2°/100ft	19019.33	90.27	359.61	10763.00	8158.35	8155.36	574.31	0.00	427619.00			W 103 33 49.74
Hold	19026.46	90.13	359.61	10762.97	8165.47	8162.48	574.27	2.00	427626.12			W 103 39 49.74
11010	19100.00	90.13	359.61	10762.81	8239.01	8236.02	573.77	0.00	427699.66			W 103 39 49.74
	19200.00	90.13	359.61	10762.58	8339.00	8336.02	573.10	0.00	427799.66			W 103 39 49.74
	19300.00	90.13	359.61	10762.35	8438.99	8436.02	572.42	0.00	427899.65	707154.39	N 32 10 28.71	W 103 39 49.74
	19400.00	90.13	359.61	10762.12	8538.99	8536.02	571.74	0.00	427999.64	707153.72	N 32 10 29.70	W 103 39 49.74
	19500.00	90.13	359.61	10761.90	8638.98	8636.01	571.07	0.00	428099.63	707153.04	N 32 10 30.69	W 103 39 49.74
	19600.00	90.13	359.61	10761.67	8738.97	8736.01	570.39	0.00	428199.63	707152.37	N 32 10 31.68	W 103 39 49.74
	19700.00	90.13	359.61	10761.44	8838.96	8836.01	569.72	0.00	428299.62	707151.69	N 32 10 32.67	W 103 39 49.74
	19800.00	90.13	359.61	10761.21	8938.96	8936.01	569.04	0.00	428399.61	707151.02	N 32 10 33.66	W 103 39 49.74
	19900.00	90.13	359.61	10760.98	9038.95	9036.00	568.37	0.00	428499.61			W 103 39 49.74
	20000.00	90.13	359.61	10760.76	9138.94	9136.00	567.69	0.00	428599.60			W 103 39 49.74
	20100.00	90.13	359.61	10760.53	9238.93	9236.00	567.02	0.00	428699.59			W 103 39 49.74
	20200.00	90.13	359.61	10760.30	9338.92	9336.00	566.34	0.00	428799.59			W 103 39 49.74
	20300.00	90.13	359.61	10760.07	9438.92	9435.99	565.67	0.00	428899.58			W 103 39 49.75
	20400.00	90.13	359.61	10759.84	9538.91	9535.99	564.99	0.00	428999.57			W 103 39 49.75
	20500.00	90.13	359.61	10759.62	9638.90	9635.99	564.32	0.00	429099.56			W 103 39 49.75
	20600.00	90.13	359.61	10759.39	9738.89	9735.99	563.64	0.00	429199.56			W 103 39 49.75
	20700.00 20800.00	90.13 90.13	359.61 359.61	10759.16 10758.93	9838.89 9938.88	9835.98 9935.98	562.97 562.29	0.00	429299.55 429399.54			W 103 39 49.75 W 103 39 49.75
	20800.00	90.13 90.13	359.61 359.61	10758.93	9938.88 10038.87	9935.98 10035.98	562.29 561.62	0.00	429399.54 429499.54			W 103 39 49.75 W 103 39 49.75
	21000.00	90.13	359.61	10758.70	10038.87	10035.98	560.94	0.00	429499.54 429599.53			W 103 39 49.75 W 103 39 49.75
	21100.00	90.13	359.61	10758.25	10238.86	10235.97	560.94	0.00	429699.52			W 103 39 49.75 W 103 39 49.75
	21200.00	90.13	359.61	10758.02	10338.85	10235.97	559.59	0.00	429799.52			W 103 39 49.75 W 103 39 49.75
	21300.00	90.13	359.61	10757.79	10438.84	10435.97	558.92	0.00	429799.52			W 103 39 49.75 W 103 39 49.75
	21400.00	90.13	359.61	10757.79	10538.83	10535.97	558.24	0.00	429999.50			W 103 39 49.75
	21500.00	90.13	359.61	10757.34	10638.82	10635.96	557.57	0.00	430099.50			W 103 33 49.75
LTP Cross	21572.26	90.13	359.61	10757.17	10711.08	10708.22	557.08	0.00	430171.75		N 32 10 51.19	
	21600.00	90.13	359.61	10757.11	10738.82	10735.96	556.89	0.00	430199.49			W 103 39 49.75
CO Grizzly 3 34 Fed No. 406H - PBHL	21647.51	90.13	359.61	10757.00	10786.33	10783.47	556.57	0.00	430247.00			W 103 39 49.75
,												

Survey Type:

Def Plan

Survey Error Model: Survey Program:

ISCWSA Rev 3 *** 3-D 97.071% Confidence 3.0000 sigma

Desc	ription Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size Casi (in)	ing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	30.000	1/100.000	30.000	30.000		B001Mb_MWD+HRGM-Depth Only	CO Grizzly 3 34 Fed No. 406H / Chevron CO Grizzly 3 34 Fed No. 406H Rev0 jjb 03Jun20
	1	30.000	21647.515	1/100.000	30.000	30.000		B001Mb_MWD+HRGM	CO Grizzly 3 34 Fed No. 406H /

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: CHEVRON USA INC.

LEASE NO.: NMLC061936

LOCATION: | Section.10., T25S., R.32E., NMP

COUNTY: Lea County, New Mexico

WELL NAME & NO.: | CO GRIZZLY 3 34 FED 404H

SURFACE HOLE FOOTAGE: 240'/N & 1540'/W **BOTTOM HOLE FOOTAGE** 25'/N & 330'/W

WELL NAME & NO.: CO GRIZZLY 3 34 FED 405H

SURFACE HOLE FOOTAGE: 240'/N & 1565'/W **BOTTOM HOLE FOOTAGE** 25'/N & 1210'/W

WELL NAME & NO.: CO GRIZZLY 3 34 FED 406H

SURFACE HOLE FOOTAGE: 240'/N & 1590'/W **BOTTOM HOLE FOOTAGE** 25'/N & 2090'/W

COA

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

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Paduca** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Casing Design:

- 1. The 13-3/8 inch surface casing shall be set at approximately 900 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
- 3. The minimum required fill of cement behind the 7 inch production casing is:

Option 1 (Single Stage):

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

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
- 4. The minimum required fill of cement behind the $5 \times 4-1/2$ 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.

Option 1:

- a. 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.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **5000** (**5M**) psi.

Option 2:

1. 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)

BOPE Break Testing Variance

- 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 (575-393-3612 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 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 CountyCall the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - Lea County
 Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
 393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

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

B. PRESSURE CONTROL

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

NMK08232021

H₂S Preparedness and Contingency Plan Summary



Training

MCBU Drilling and Completions H_2S 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 H_2S .

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.

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H₂S Preparedness and Contingency Plan Summary



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

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.

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H₂S Preparedness and Contingency Plan Summary



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
Eddy County Sheriff's Department	575-887-7551
Carlsbad Fire Department	575-885-3125
Carlsbad Medical Center	575-887-4100
Eddy County Emergency Management	575-885-3581
Poison Control Center	800-222-1222

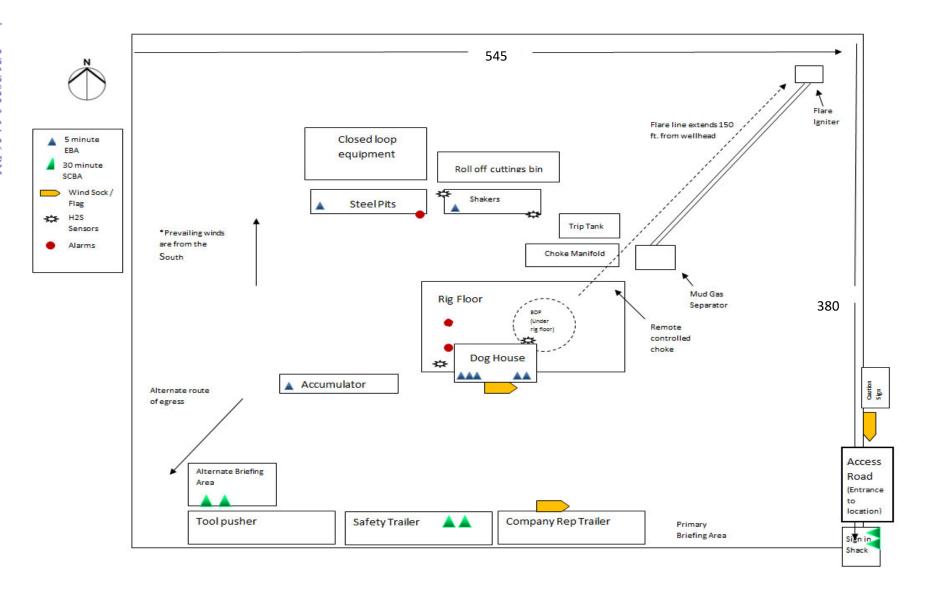
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H₂S Preparedness and Contingency Plan Summary





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

Well Name: CO GRIZZLY 3 34 FED

Drilling Plan Data Report

02/16/2022

APD ID: 10400058525

Submission Date: 07/01/2020

Highlighted data reflects the most recent changes

Operator Name: CHEVRON USA INCORPORATED

Well Number: 406H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing
772720	RUSTLER	3470	812	812	DOLOMITE	NONE	N
6873774	SALADO	2330	1140	1140	SALT	NONE	N
772721	CASTILE	-383	3853	3853	ANHYDRITE	NONE	N
772722	LAMAR	-1228	4698	4698	LIMESTONE	NONE	N
772723	BELL CANYON	-1269	4739	4739	SANDSTONE	NONE	N
772724	CHERRY CANYON	-2164	5634	5634	SANDSTONE	NONE	N
772725	BRUSHY CANYON	-3515	6985	6985	SANDSTONE	NONE	N
772726	BONE SPRING	-5142	8612	8612	LIMESTONE	NONE	N
772727	UPPER AVALON SHALE	-5246	8716	8716	LIMESTONE, SANDSTONE, SHALE	NONE	N
772728	BONE SPRING 1ST	-6168	9638	9638	SANDSTONE	NONE	N
772729	BONE SPRING 2ND	-6790	10260	10260	SANDSTONE	NONE	N
772735	BONE SPRING 2ND	-7310	10780	21652	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M Rating Depth: 10780

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, 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). Flex choke hose will be used for all wells on the pad. BOP test will be conducted by a 3rd party.

Requesting Variance? YES

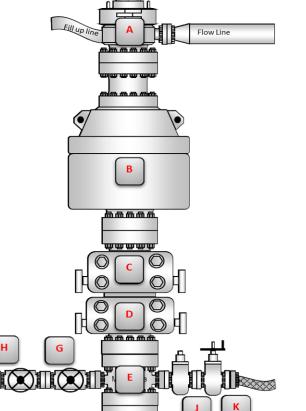
Variance request: Chevron requests the following variances: - Variance to use a CoFlex hose with a metal protective covering that will be utilized between the BOP and Choke manifold. - Variance to use an FMC Technologies UH-S Multibowl wellhead, which will be run through the rig floor on surface casing. BOPE will be nippled up and tested after cementing

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





<u>Choke line</u>					
Part	Size	Pressure	Description		
		Rating			
J	3"	10,000	HCR (gate valve)		
K	3"	10,000	Manual HCR (gate valve)		
Wellhead					
Part	Size	Pressure	Description		
		Rating			
L	13-5/8"	5,000	FMC Multibowl wellhead		

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

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.

Kill Line Check valve

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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 82200

CONDITIONS

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	82200
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	2/21/2022
pkautz	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	2/21/2022
pkautz	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	2/21/2022
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	2/21/2022