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. 30-025-51694 [4323] 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 NGMP Rec 07/06/2023 APPROVED WITH CONDITIONS SL (Continued on page 2) *(Instructions on page 2)

Approval Date: 03/09/2022

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District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

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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

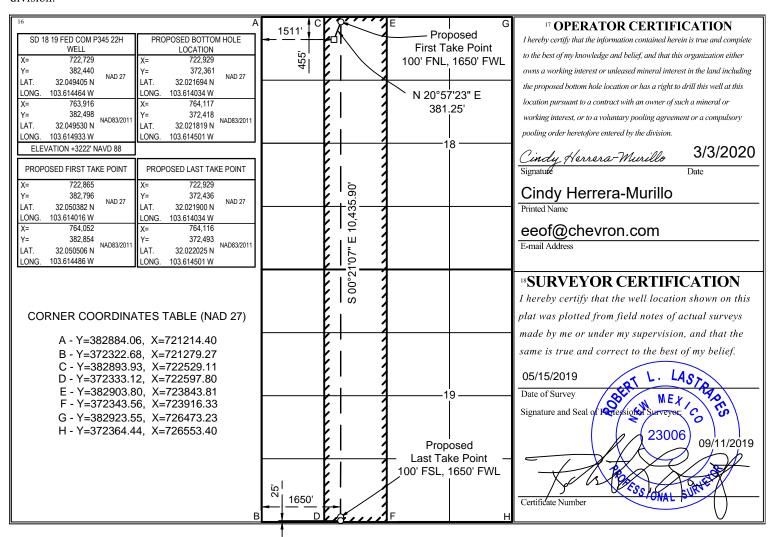
WELL LOCATION AND ACREAGE DEDICATION PLAT

30-025-51694	² Pool Code 97955	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					
⁴ Property Code	⁵ Pr	⁵ Property Name					
334294	SD 18 19	SD 18 19 FED COM P345					
⁷ OGRID No.	8 O ₁	perator Name	⁹ Elevation				
4323	CHEVR	3222'					
-	10 Cur	face Location					

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County					
C	18	26 SOUTH	33 EAST, N.M.P.M.		455'	455' NORTH 1511'		WEST	LEA					
	¹¹ Bottom Hole Location If Different From Surface													
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County					
N	19	26 SOUTH	33 EAST, N.M.P.M.		25'	SOUTH	1650'	WEST	LEA					
12 Dedicated A	cres 13 Jo	nt or Infill	¹⁴ Consolidation Code	¹⁵ Order No.										
320	IN	FILL												

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.



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.

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

1. Operator:cnev	vron USA_		OGKID: _	4323	บล	ite:/_	<u> </u>
II. Type: ⊠ Original □ A	amendment	due to □ 19.15.27	7.9.D(6)(a) NMA	C □ 19.15.27.9.D	(6)(b) NMAC □	Other.	
If Other, please describe: _							
III. Well(s): Provide the fo be recompleted from a sing					wells proposed to	o be dril	led or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D		Anticipated oduced Water BBL/D
SD 18 19 FED COM P345 21H	Pending	UL:C, Sec 18, T26S-R33E	455' FNL 1486' FWI		3625 MCF/D	3160	BBL/D
SD 18 19 FED COM P345 22H	Pending	UL:C ,Sec 18, T26S-R33E	455' FNL 1511' FWI		3625 MCF/D	3160	BBL/D
IV. Central Delivery Point	t Name:	Satellite 18 C	<u>ГВ</u>		[See	19.15.2	7.9(D)(1) NMAC]
V. Anticipated Schedule: I proposed to be recompleted					vell or set of well	ls propos	sed to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement			First Production Date
SD 18 19 FED COM P345 21H	Pending	Sept 2023	N/A	N/A	N/A		N/A
SD 18 19 FED COM P345 22H	Pending	<u>Sept 2023</u>	N/A	N/A	N/A		N/A
VI. Separation Equipmen VII. Operational Practice Subsection A through F of VIII. Best Management P during active and planned n	s: ⊠ Attac 19.15.27.8 Practices: □	ch a complete desc NMAC. ☑ Attach a comple	cription of the ac	tions Operator wil	l take to comply	y with th	ne requirements of
							Page 1 of 4

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Section 2 – Enhanced Plan <u>EFFECTIVE APRIL 1, 2022</u>

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.

Departor 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	ne
production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity	of
the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.	

XII. Line Capacity. The natural gas gathering system	\square will \square will not have capa	acity 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, of t	he
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 Se	ection 71-2-8	NMSA 1978	for the infor	mation p	rovided in
Section	on 2 as provided in Paragraph (2	2) of Subsection D of 19	9.15.27.9 NMA	C, and attach	es a full descri	iption of the	specific i	nformation
for w	nich confidentiality is asserted	and the basis for such a	ssertion.					

(i)

Section 3 - Certifications Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal: 🗵 Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system: or ☐ 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.

- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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

Signature: Cindy Herrera-Wurillo
Printed Name: Cindy Herrera-Murillo
Title: Sr HSE Regulatory affairs Coordinator
E-mail Address: eeof@chevron.com
Date: 07/05/2023
Phone: 575-263-0431
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Well Name: SD 18 19 FED COM P345 Well Number: 22H

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.

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:

CoFlex_Hose_Variance_20200312151808.pdf

Choke_Flex_Hose_Specs_20200312151819.pdf

BOP Diagram Attachment:

SD_P345_Break_Testing_Variance_20200312152013.pdf

Wellhead___SD_18_19_Fed_Com_P345_20200312151913.pdf

10K_and_5K_BOPE_and_Choke_Schematic_20200312151940.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
	SURFACE	17.5	13.375	NEW	API	N	0	850	0	850	3222	2372	850	J-55		OTHER - STC/BTC	2.84	5.46	DRY	5.94	DRY	5.94
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	8970	0	8953		-5731	8970	L-80	43.5	LT&C	4.31	2.19	DRY	3.51	DRY	3.51
;	PRODUCTI ON	8.5	5.5	NEW	API	Υ	0	20375	0	10158	3280	-6936	20375	OTH ER		OTHER - TXP-BTC	2.1	1.11	DRY	2.16	DRY	2.16

Casing Attachments

Well Name: SD 18 19 FED COM P345 Well Number: 22H

Casing Attachments

Casing ID: 1

String

SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $13.375_54.5ppf_J55_BTC_20200312153406.pdf$

13.375_54.5ppf_J55_STC_20200312153423.pdf

Casing ID: 2

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

9.625___43.5_L80_LTC_20200312153629.pdf

String

Casing ID: 3

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

5.5_20lb_TXP_P110lCY_20200312153707.pdf

Casing Design Assumptions and Worksheet(s):

P345_22H_9_Pt_Drilling_Plan_20200313083710.pdf

Section 4 - Cement

Well Name: SD 18 19 FED COM P345 Well Number: 22H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	0	0	0	0	0		NONE	NONE
SURFACE	Tail		0	850	1152	1.33	14.8	1528	100	CLASS C	Extender, Antifoam, Retarder
INTERMEDIATE	Lead		0	4431	705	2.56	11.9	1804	30	Class C	Extender, Antifoam, Retarder, Viscosifier
INTERMEDIATE	Tail		4431	4731	120	1.33	14.8	160	30	CLASS C	Extender, Antifoam, Retarder, Viscosifier
INTERMEDIATE	Lead		4731	7970	515	2.56	11.9	1319	30	CLASS C	Extender, Antifoam, Retarder, Viscosifier
INTERMEDIATE	Tail		7970	8970	334	1.33	14.8	445	30	CLASS C	Extender, Antifoam, Retarder, Viscosifier
PRODUCTION	Lead		7225	1887 5	4710	1.18	15.6	5572	35	CLASS H	Extender, Antifoam, Retarder, Viscosifier
PRODUCTION	Tail		1887 5	2037 5	173	2.19	15	378	10	ACID SOL CLASS H	Extender, Antifoam, Retarder, Viscosifier

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

Describe what will be on location to control well or mitigate other conditions: A closed system will be used consisting of above ground steel tanks. All wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in an approved sanitary landfill. Sanitary wastes will be contained in a chemical portatoilet and then hauled to an approved sanitary landfill. All fluids and cuttings will be disposed of in accordance with New Mexico Oil Conservation Division rules and regulations. And transporting of E&P waste will follow EPA regulations and accompanying manifests.

Describe the mud monitoring system utilized: A mud test shall be performed every 24 hours after muddling up to determine, as applicable: density, viscosity, gel strength, filtration, and pH. Visual mud monitoring equipment shall be in place to detect volume changes indicating loss or gain of circulating fluid volume. When abnormal pressures are anticipated a PVT, stroke counter, flow sensor will be used to detect volume changes indicating loss or gain of circulating 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. **After speaking the BLM Engineer Mandela Kamau, SD 18 19 Fed P345 and P346 were asked to be returned unchanged due to a misinterpretation of surface casing burst factors.02/3/2022

Circulating Medium Table

Well Name: SD 18 19 FED COM P345 Well Number: 22H

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
0	850	SPUD MUD	8.3	9.2							Viscosity: 28-30
850	8970	OTHER : BRINE/OBM	9.4	10.6							Viscosity: 28-70; Filtrate: 15- 25
8970	2037	OIL-BASED MUD	8.8	12							Viscosity: 50-70, Filtrate: 10- 25 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:

Drill stem tests are not planned

The logging program will be as follows:

Type: Mudlogs Logs: 2 man mudlog Interval: Surf csg shoe through Prod hole TD Timing: While drilling or circulating

Type: LWD Logs: MWD gamma Interval: Int & Prod Hole Timing: While drilling

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

GAMMA RAY LOG, MUD LOG/GEOLOGIC LITHOLOGY LOG, DIRECTIONAL SURVEY, MUD LOG/GEOLOGICAL LITHOLOGY LOG,

Coring operation description for the well:

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

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4443 Anticipated Surface Pressure: 2208

Anticipated Bottom Hole Temperature(F): 150

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? NO

Well Name: SD 18 19 FED COM P345 Well Number: 22H

Hydrogen sulfide drilling operations

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

SD_18_19_FED_COM_P345_Gas_Capture_Plan_20200312161244.pdf SD_18_19_Fed_Com_P345_H2S_Contingency_Plan_20200312161317.pdf SD_18_19_Fed_Com_P345_Rig_Layout_20200312161302.pdf

P345 22H Directional Survey 20200313092433.pdf

Other proposed operations facets description:

Chevron requests 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.

Chevron is also requesting a variance from the Onshore Order 2 to perform a break test on the BOP when able to finish the next hole section within 21 days of the previous full BOP test. 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 hole section. A break test will only be performed on operations where BLM documentation states a 5M or less BOP can be utilized. Summary with details attached below.

Other proposed operations facets attachment:

Other Variance attachment:

CUSA_Spudder_Rig_Data_20200219160835.pdf SD_P345_Break_Testing_Variance_20200312161354.pdf

Latitude

Longitude

Easting

Schlumberger

Chevron SD 18 19 Fed Com P345 22H Rev0 jjb 24Oct19 Proposal Geodetic Report

(Def Plan

VSEC



UWI / API#:
Survey Name:
Survey Date:
Tort / AHD / DDI / ERD Ratio:
Coordinate Reference System:
Location Lat / Long:
Location Grid NIE V/X:
CRS Grid Convergence Angle:
Grid Scale Factor:
Version / Patch:

October 28, 2019 - 12:52 PM Chevron NM Lea County (NAD 27) Chevron SD 18 19 Fed Com P345 / 22H SD 18 19 Fed Com P345 22H SD 18 19 Fed Com P345 22H Unknown / Unknown

Chevron SD 18 19 Fed Com P345 22H Rev0 jib 24Oct19 October 24, 2019 October 24, 2019 NAD27 New Mexico State Plane, Eastern Zone, US Feet N 32° 2'57 85506', W 103' 36' 52.06661' N 38240.000 ftUS, E 722729.000 ftUS

Azim Grid

TVD

N 382440.000 ftUS, E 0.3815 ° 0.99996591

Incl

2.10.782.0

MD

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 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 179.650 ° (Grid North) 0.000 ft, 0.000 ft RKB= 31.5ft 3253.500 ft above MSL 3222.000 ft above MSL 6.619 °

998.4357mgn (9.80665 Based) GARM 47664.164 nT 59.633 ° October 24, 2019 HDGM 2019 Grid Morth 0.3815 ° 6.2379 °

DLS

Northing

Well Head

EW

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	(°/100ft)	Northing (ftUS)	Easting Latitude Longitude (ftUS) (N/S ° ' ") (E/W ° ' ")
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	382440.00	722729.00 N 32 2 57.86 W 103 36 52.07
	100.00	0.00	3.87	100.00	0.00	0.00	0.00	0.00	382440.00	722729.00 N 32 2 57.86 W 103 36 52.07
	200.00	0.00	3.87	200.00	0.00	0.00	0.00	0.00	382440.00	722729.00 N 32 2 57.86 W 103 36 52.07
	300.00	0.00	3.87	300.00	0.00	0.00	0.00	0.00	382440.00	722729.00 N 32 2 57.86 W 103 36 52.07
	400.00	0.00	3.87	400.00	0.00	0.00	0.00	0.00	382440.00	722729.00 N 32 2 57.86 W 103 36 52.07
	500.00 600.00	0.00	3.87 3.87	500.00 600.00	0.00	0.00	0.00	0.00	382440.00 382440.00	722729.00 N 32 2 57.86 W 103 36 52.07 722729.00 N 32 2 57.86 W 103 36 52.07
	700.00	0.00	3.87	700.00	0.00	0.00	0.00	0.00	382440.00	722729.00 N 32 2 57.86 W 103 36 52.07
Rustler	744.94	0.00	3.87	744.94	0.00	0.00	0.00	0.00	382440.00	722729.00 N 32 2 57.86 W 103 36 52.07
	800.00	0.00	3.87	800.00	0.00	0.00	0.00	0.00	382440.00	722729.00 N 32 2 57.86 W 103 36 52.07
13 3/8" Casing	850.00	0.00	3.87	850.00	0.00	0.00	0.00	0.00	382440.00	722729.00 N 32 2 57.86 W 103 36 52.07
	900.00	0.00	3.87	900.00	0.00	0.00	0.00	0.00	382440.00	722729.00 N 32 2 57.86 W 103 36 52.07
	1000.00 1100.00	0.00	3.87 3.87	1000.00 1100.00	0.00	0.00	0.00	0.00	382440.00 382440.00	722729.00 N 32 2 57.86 W 103 36 52.07
	1200.00	0.00	3.87	1200.00	0.00	0.00	0.00	0.00	382440.00	722729.00 N 32 2 57.86 W 103 36 52.07 722729.00 N 32 2 57.86 W 103 36 52.07
	1300.00	0.00	3.87	1300.00	0.00	0.00	0.00	0.00	382440.00	722729.00 N 32 2 57.86 W 103 36 52.07
	1400.00	0.00	3.87	1400.00	0.00	0.00	0.00	0.00	382440.00	722729.00 N 32 2 57.86 W 103 36 52.07
	1500.00	0.00	3.87	1500.00	0.00	0.00	0.00	0.00	382440.00	722729.00 N 32 2 57.86 W 103 36 52.07
Build 1.5°/100ft	1600.00	0.00	3.87	1600.00	0.00	0.00	0.00	0.00	382440.00	722729.00 N 32 2 57.86 W 103 36 52.07
	1700.00	1.50 3.00	3.87 3.87	1699.99 1799.91	-1.31	1.31 5.22	0.09 0.35	1.50 1.50	382441.31 382445.22	722729.09 N 32 2 57.87 W 103 36 52.07 722729.35 N 32 2 57.91 W 103 36 52.06
	1800.00 1900.00	3.00 4.50	3.87	1799.91	-5.22 -11.74	5.22 11.75	0.35	1.50	382445.22	722729.79 N 32 2 57.91 W 103 36 52.06 722729.79 N 32 2 57.97 W 103 36 52.06
Hold	1933.34	5.00	3.87	1932.92	-14.50	14.50	0.98	1.50	382454.50	722729.98 N 32 2 58.00 W 103 36 52.05
	2000.00	5.00	3.87	1999.32	-20.29	20.30	1.37	0.00	382460.30	722730.37 N 32 2 58.06 W 103 36 52.05
	2100.00	5.00	3.87	2098.94	-28.98	29.00	1.96	0.00	382468.99	722730.96 N 32 2 58.14 W 103 36 52.04
	2200.00	5.00	3.87	2198.56	-37.67	37.69	2.55	0.00	382477.69	722731.55 N 32 2 58.23 W 103 36 52.03
	2300.00	5.00	3.87	2298.18	-46.37	46.39	3.14	0.00	382486.39	722732.14 N 32 2 58.31 W 103 36 52.03
	2400.00	5.00	3.87	2397.80	-55.06	55.08	3.73	0.00	382495.08	722732.73 N 32 2 58.40 W 103 36 52.02
	2500.00 2600.00	5.00 5.00	3.87 3.87	2497.42 2597.04	-63.75 -72.44	63.78 72.47	4.31 4.90	0.00	382503.78 382512.47	722733.31 N 32 2 58.49 W 103 36 52.01 722733.90 N 32 2 58.57 W 103 36 52.00
	2700.00	5.00	3.87	2696.66	-81.14	81.17	5.49	0.00	382521.17	722734.49 N 32 2 58.66 W 103 36 52.00
	2800.00	5.00	3.87	2796.28	-89.83	89.87	6.08	0.00	382529.86	722735.08 N 32 2 58.74 W 103 36 51.99
	2900.00	5.00	3.87	2895.90	-98.52	98.56	6.67	0.00	382538.56	722735.67 N 32 2 58.83 W 103 36 51.98
Castile	2911.86	5.00	3.87	2907.71	-99.55	99.59	6.74	0.00	382539.59	722735.74 N 32 2 58.84 W 103 36 51.98
	3000.00	5.00	3.87	2995.52	-107.21	107.26	7.26	0.00	382547.25	722736.25 N 32 2 58.92 W 103 36 51.97
	3100.00 3200.00	5.00 5.00	3.87 3.87	3095.14 3194.76	-115.90 -124.60	115.95 124.65	7.84 8.43	0.00	382555.95 382564.64	722736.84 N 32 2 59.00 W 103 36 51.97 722737.43 N 32 2 59.09 W 103 36 51.96
	3300.00	5.00	3.87	3294.38	-124.60	133.35	9.02	0.00	382573.34	722737.43 N 32 2 59.09 W 103 36 51.96 722738.02 N 32 2 59.17 W 103 36 51.95
	3400.00	5.00	3.87	3394.00	-141.98	142.04	9.61	0.00	382582.04	722738.61 N 32 2 59.26 W 103 36 51.94
	3500.00	5.00	3.87	3493.62	-150.67	150.74	10.20	0.00	382590.73	722739.20 N 32 2 59.35 W 103 36 51.94
	3600.00	5.00	3.87	3593.23	-159.36	159.43	10.78	0.00	382599.43	722739.78 N 32 2 59.43 W 103 36 51.93
	3700.00	5.00	3.87	3692.85	-168.06	168.13	11.37	0.00	382608.12	722740.37 N 32 2 59.52 W 103 36 51.92
	3800.00	5.00	3.87	3792.47	-176.75	176.82	11.96	0.00	382616.82	722740.96 N 32 2 59.60 W 103 36 51.91
	3900.00 4000.00	5.00 5.00	3.87 3.87	3892.09 3991.71	-185.44 -194.13	185.52 194.22	12.55 13.14	0.00	382625.51 382634.21	722741.55 N 32 2 59.69 W 103 36 51.91 722742.14 N 32 2 59.78 W 103 36 51.90
	4100.00	5.00	3.87	4091.33	-202.82	202.91	13.73	0.00	382642.90	722742.14 N 32 2 59.76 W 103 36 51.90 722742.72 N 32 2 59.86 W 103 36 51.89
	4200.00	5.00	3.87	4190.95	-211.52	211.61	14.31	0.00	382651.60	722743.31 N 32 2 59.95 W 103 36 51.88
	4300.00	5.00	3.87	4290.57	-220.21	220.30	14.90	0.00	382660.30	722743.90 N 32 3 0.03 W 103 36 51.88
	4400.00	5.00	3.87	4390.19	-228.90	229.00	15.49	0.00	382668.99	722744.49 N 32 3 0.12 W 103 36 51.87
	4500.00	5.00	3.87	4489.81	-237.59	237.70	16.08	0.00	382677.69	722745.08 N 32 3 0.21 W 103 36 51.86
	4600.00	5.00	3.87	4589.43	-246.28	246.39	16.67	0.00	382686.38	722745.67 N 32 3 0.29 W 103 36 51.85
Lamar	4700.00 4731.43	5.00 5.00	3.87 3.87	4689.05 4720.36	-254.98 -257.71	255.09 257.82	17.25 17.44	0.00 0.00	382695.08 382697.81	722746.25 N 32 3 0.38 W 103 36 51.85 722746.44 N 32 3 0.41 W 103 36 51.84
Bell Canyon	4764.28	5.00	3.87	4753.08	-260.56	260.68	17.63	0.00	382700.67	722746.63 N 32 3 0.43 W 103 36 51.84
	4800.00	5.00	3.87	4788.67	-263.67	263.78	17.84	0.00	382703.77	722746.84 N 32 3 0.46 W 103 36 51.84
	4900.00	5.00	3.87	4888.29	-272.36	272.48	18.43	0.00	382712.47	722747.43 N 32 3 0.55 W 103 36 51.83
	5000.00	5.00	3.87	4987.91	-281.05	281.17	19.02	0.00	382721.16	722748.02 N 32 3 0.64 W 103 36 51.82
	5100.00 5200.00	5.00 5.00	3.87 3.87	5087.53 5187.15	-289.75 -298.44	289.87 298.57	19.61 20.20	0.00	382729.86 382738.56	722748.61 N 32 3 0.72 W 103 36 51.82 722749.20 N 32 3 0.81 W 103 36 51.81
	5300.00	5.00	3.87	5286.77	-307.13	307.26	20.78	0.00	382747.25	722749.20 N 32 3 0.81 W 103 36 51.81 722749.78 N 32 3 0.89 W 103 36 51.80
	5400.00	5.00	3.87	5386.38	-315.82	315.96	21.37	0.00	382755.95	722750.37 N 32 3 0.98 W 103 36 51.79
	5500.00	5.00	3.87	5486.00	-324.51	324.65	21.96	0.00	382764.64	722750.96 N 32 3 1.07 W 103 36 51.79
	5600.00	5.00	3.87	5585.62	-333.21	333.35	22.55	0.00	382773.34	722751.55 N 32 3 1.15 W 103 36 51.78
	5700.00	5.00	3.87	5685.24	-341.90	342.05	23.14	0.00	382782.03	722752.14 N 32 3 1.24 W 103 36 51.77
0. 0	5800.00	5.00	3.87 3.87	5784.86	-350.59	350.74	23.72	0.00	382790.73	722752.72 N 32 3 1.32 W 103 36 51.76
Cherry Canyon	5829.28 5900.00	5.00 5.00	3.87	5814.03 5884.48	-353.13 -359.28	353.29 359.44	23.90 24.31	0.00 0.00	382793.27 382799.42	722752.90 N 32 3 1.35 W 103 36 51.76 722753.31 N 32 3 1.41 W 103 36 51.76
	6000.00	5.00	3.87	5984.10	-367.97	368.13	24.90	0.00	382808.12	722753.90 N 32 3 1.50 W 103 36 51.75
	6100.00	5.00	3.87	6083.72	-376.67	376.83	25.49	0.00	382816.82	722754.49 N 32 3 1.58 W 103 36 51.74
	6200.00	5.00	3.87	6183.34	-385.36	385.52	26.08	0.00	382825.51	722755.08 N 32 3 1.67 W 103 36 51.73
Drop 1.5°/100ft	6275.01	5.00	3.87	6258.06	-391.88	392.05	26.52	0.00	382832.03	722755.52 N 32 3 1.73 W 103 36 51.73
	6300.00	4.63	3.87	6282.97	-393.97	394.14	26.66	1.50	382834.13	722755.66 N 32 3 1.75 W 103 36 51.73
	6400.00	3.13	3.87	6382.74 6482.65	-400.71	400.88 405.02	27.12	1.50 1.50	382840.87 382845.00	722756.12 N 32 3 1.82 W 103 36 51.72 722756.40 N 32 3 1.86 W 103 36 51.72
	6500.00 6600.00	1.63 0.13	3.87 3.87	6482.65 6582.63	-404.84 -406.37	405.02 406.54	27.40 27.50	1.50 1.50	382845.00 382846.53	722756.40 N 32 3 1.86 W 103 36 51.72 722756.50 N 32 3 1.88 W 103 36 51.72
Hold Vertical	6608.35	0.13	3.87	6590.98	-406.37 -406.37	406.55	27.50	1.50	382846.53	722756.50 N 32 3 1.88 W 103 36 51.72 722756.50 N 32 3 1.88 W 103 36 51.72
	6700.00	0.00	3.87	6682.63	-406.37	406.55	27.50	0.00	382846.54	722756.50 N 32 3 1.88 W 103 36 51.72
	6800.00	0.00	3.87	6782.63	-406.37	406.55	27.50	0.00	382846.54	722756.50 N 32 3 1.88 W 103 36 51.72
	6900.00	0.00	3.87	6882.63	-406.37	406.55	27.50	0.00	382846.54	722756.50 N 32 3 1.88 W 103 36 51.72
	7000.00	0.00	3.87	6982.63	-406.37	406.55	27.50	0.00	382846.54	722756.50 N 32 3 1.88 W 103 36 51.72
	7100.00	0.00	3.87	7082.63	-406.37	406.55	27.50	0.00	382846.54	722756.50 N 32 3 1.88 W 103 36 51.72
	7200.00 7300.00	0.00	3.87 3.87	7182.63 7282.63	-406.37 -406.37	406.55 406.55	27.50 27.50	0.00	382846.54 382846.54	722756.50 N 32 3 1.88 W 103 36 51.72 722756.50 N 32 3 1.88 W 103 36 51.72
Brushy Canyon	7382.35	0.00	3.87	7364.98	-406.37	406.55	27.50	0.00	382846.54	722756.50 N 32 3 1.88 W 103 36 51.72
	. 202.00	3.00	0.07					0.00		23.22 22 2 7.00 77 700 00 07.72

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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 ° ' ")
	7400.00 7500.00	0.00	3.87 3.87	7382.63 7482.63	-406.37 -406.37	406.55 406.55	27.50 27.50	0.00	382846.54 382846.54	722756.50 N 32 3 1.88 W 103 36 51.72 722756.50 N 32 3 1.88 W 103 36 51.72
	7600.00	0.00	3.87	7582.63	-406.37	406.55	27.50	0.00	382846.54	722756.50 N 32 3 1.88 W 103 36 51.72
	7700.00 7800.00	0.00	3.87 3.87	7682.63 7782.63	-406.37 -406.37	406.55 406.55	27.50 27.50	0.00	382846.54 382846.54	722756.50 N 32 3 1.88 W 103 36 51.72 722756.50 N 32 3 1.88 W 103 36 51.72
	7900.00	0.00	3.87	7882.63	-406.37	406.55	27.50	0.00	382846.54	722756.50 N 32 3 1.88 W 103 36 51.72
	8000.00 8100.00	0.00	3.87 3.87	7982.63 8082.63	-406.37 -406.37	406.55 406.55	27.50 27.50	0.00	382846.54 382846.54	722756.50 N 32 3 1.88 W 103 36 51.72 722756.50 N 32 3 1.88 W 103 36 51.72
	8200.00	0.00	3.87	8182.63	-406.37	406.55	27.50	0.00	382846.54	722756.50 N 32 3 1.88 W 103 36 51.72
	8300.00 8400.00	0.00	3.87 3.87	8282.63 8382.63	-406.37 -406.37	406.55 406.55	27.50 27.50	0.00	382846.54 382846.54	722756.50 N 32 3 1.88 W 103 36 51.72 722756.50 N 32 3 1.88 W 103 36 51.72
	8500.00 8600.00	0.00	3.87 3.87	8482.63 8582.63	-406.37 -406.37	406.55 406.55	27.50 27.50	0.00	382846.54 382846.54	722756.50 N 32 3 1.88 W 103 36 51.72 722756.50 N 32 3 1.88 W 103 36 51.72
	8700.00	0.00	3.87	8682.63	-406.37	406.55	27.50	0.00	382846.54	722756.50 N 32 3 1.88 W 103 36 51.72
	8800.00 8900.00	0.00	3.87 3.87	8782.63 8882.63	-406.37 -406.37	406.55 406.55	27.50 27.50	0.00	382846.54 382846.54	722756.50 N 32 3 1.88 W 103 36 51.72 722756.50 N 32 3 1.88 W 103 36 51.72
Bone Spring	8970.27	0.00	3.87	8952.90	-406.37	406.55	27.50	0.00	382846.54	722756.50 N 32 3 1.88 W 103 36 51.72
9 5/8" Casing	8970.37 9000.00	0.00 0.00	3.87 3.87	8953.00 8982.63	-406.37 -406.37	406.55 406.55	27.50 27.50	0.00 0.00	382846.54 382846.54	722756.50 N 32 3 1.88 W 103 36 51.72 722756.50 N 32 3 1.88 W 103 36 51.72
Upper Avalon	9011.17	0.00	3.87	8993.80	-406.37	406.55	27.50	0.00	382846.54	722756.50 N 32 3 1.88 W 103 36 51.72
	9100.00 9200.00	0.00	3.87 3.87	9082.63 9182.63	-406.37 -406.37	406.55 406.55	27.50 27.50	0.00	382846.54 382846.54	722756.50 N 32 3 1.88 W 103 36 51.72 722756.50 N 32 3 1.88 W 103 36 51.72
	9300.00 9400.00	0.00 0.00	3.87 3.87	9282.63 9382.63	-406.37 -406.37	406.55 406.55	27.50 27.50	0.00	382846.54 382846.54	722756.50 N 32 3 1.88 W 103 36 51.72 722756.50 N 32 3 1.88 W 103 36 51.72
	9500.00	0.00	3.87	9482.63	-406.37	406.55	27.50	0.00	382846.54	722756.50 N 32 3 1.88 W 103 36 51.72
KOP, Build 10°/100ft	9542.35 9600.00	0.00 5.77	3.87 159.65	9524.98 9582.53	-406.37 -403.65	406.55 403.83	27.50 28.51	0.00 10.00	382846.54 382843.82	722756.50 N 32 3 1.88 W 103 36 51.72 722757.51 N 32 3 1.85 W 103 36 51.70
	9700.00	15.77	159.65	9680.65	-386.12	386.34	35.00	10.00	382826.33	722764.00 N 32 3 1.68 W 103 36 51.63
FTP Cross	9793.34 9800.00	25.10 25.77	159.65 159.65	9768.02 9774.04	-355.54 -352.85	355.83 353.14	46.32 47.31	10.00 10.00	382795.81 382793.13	722775.32 N 32 3 1.37 W 103 36 51.50 722776.31 N 32 3 1.35 W 103 36 51.49
Top Bone Spring 1	9880.40	33.81	159.65	9843.76	-315.35	315.73	61.19	10.00	382755.72	722790.19 N 32 3 0.98 W 103 36 51.33
EOC	9900.00 9942.35	35.77 40.00	159.65 159.65	9859.85 9893.27	-304.84 -280.41	305.25 280.87	65.08 74.12	10.00 10.00	382745.24 382720.86	722794.08 N 32 3 0.87 W 103 36 51.29 722803.12 N 32 3 0.63 W 103 36 51.18
	10000.00	45.26	163.14	9935.68	-243.34	243.87	86.52	10.00	382683.87	722815.52 N 32 3 0.26 W 103 36 51.04
	10100.00 10200.00	54.58 64.04	167.90 171.67	10000.02 10051.01	-169.21 -84.59	169.86 85.32	105.41 120.50	10.00 10.00	382609.85 382525.32	722834.40 N 32 2 59.53 W 103 36 50.83 722849.50 N 32 2 58.69 W 103 36 50.66
	10300.00	73.59	174.86	10087.12	7.96	-7.16	131.34	10.00	382432.84	722860.34 N 32 2 57.78 W 103 36 50.54
Landing Point	10400.00 10468.01	83.18 89.71	177.75 179.65	10107.23 10111.45	105.63 173.45	-104.79 -172.61	137.60 139.13	10.00 10.00	382335.22 382267.40	722866.59 N 32 2 56.81 W 103 36 50.48 722868.13 N 32 2 56.14 W 103 36 50.46
· ·	10500.00	89.71	179.65	10111.61	205.45	-204.60	139.33	0.00	382235.41	722868.33 N 32 2 55.82 W 103 36 50.46
	10600.00 10700.00	89.71 89.71	179.65 179.65	10112.11 10112.61	305.45 405.44	-304.60 -404.59	139.95 140.57	0.00	382135.42 382035.42	722868.94 N 32 2 54.83 W 103 36 50.46 722869.56 N 32 2 53.84 W 103 36 50.46
	10800.00 10900.00	89.71 89.71	179.65 179.65	10113.11 10113.61	505.44 605.44	-504.59 -604.59	141.19 141.80	0.00	381935.43 381835.44	722870.18 N 32 2 52.85 W 103 36 50.47 722870.80 N 32 2 51.86 W 103 36 50.47
	11000.00	89.71	179.65	10114.11	705.44	-704.58	142.42	0.00	381735.44	722871.42 N 32 2 50.87 W 103 36 50.47
	11100.00 11200.00	89.71 89.71	179.65 179.65	10114.61 10115.11	805.44 905.44	-804.58 -904.58	143.04 143.66	0.00	381635.45 381535.46	722872.03 N 32 2 49.88 W 103 36 50.47 722872.65 N 32 2 48.89 W 103 36 50.47
	11300.00	89.71	179.65	10115.61	1005.44	-1004.57	144.27	0.00	381435.46	722873.27 N 32 2 47.90 W 103 36 50.47
	11400.00 11500.00	89.71 89.71	179.65 179.65	10116.11 10116.61	1105.43 1205.43	-1104.57 -1204.57	144.89 145.51	0.00	381335.47 381235.48	722873.89 N 32 2 46.92 W 103 36 50.47 722874.50 N 32 2 45.93 W 103 36 50.47
	11600.00	89.71	179.65	10117.11	1305.43	-1304.56	146.13	0.00	381135.48	722875.12 N 32 2 44.94 W 103 36 50.47
	11700.00 11800.00	89.71 89.71	179.65 179.65	10117.61 10118.11	1405.43 1505.43	-1404.56 -1504.56	146.74 147.36	0.00	381035.49 380935.50	722875.74 N 32 2 43.95 W 103 36 50.47 722876.36 N 32 2 42.96 W 103 36 50.47
	11900.00	89.71	179.65	10118.61	1605.43	-1604.55	147.98	0.00	380835.50	722876.97 N 32 2 41.97 W 103 36 50.47
	12000.00 12100.00	89.71 89.71	179.65 179.65	10119.11 10119.62	1705.43 1805.43	-1704.55 -1804.55	148.60 149.21	0.00	380735.51 380635.52	722877.59 N 32 2 40.98 W 103 36 50.47 722878.21 N 32 2 39.99 W 103 36 50.47
	12200.00	89.71	179.65	10120.12	1905.42	-1904.55	149.83	0.00	380535.52	722878.83 N 32 2 39.00 W 103 36 50.47
	12300.00 12400.00	89.71 89.71	179.65 179.65	10120.62 10121.12	2005.42 2105.42	-2004.54 -2104.54	150.45 151.07	0.00	380435.53 380335.54	722879.44 N 32 2 38.01 W 103 36 50.47 722880.06 N 32 2 37.02 W 103 36 50.47
IFP1, Drop 2°/100ft	12500.00 12548.55	89.71 89.71	179.65 179.65	10121.62 10121.86	2205.42 2253.97	-2204.54 -2253.08	151.69 151.99	0.00	380235.54 380187.00	722880.68 N 32 2 36.03 W 103 36 50.47 722880.98 N 32 2 35.55 W 103 36 50.48
Hold	12581.66	89.05	179.65	10122.22	2287.08	-2286.19	152.19	2.00	380153.89	722881.18 N 32 2 35.22 W 103 36 50.48
First Bone Spring Target	12600.00 12624.10	89.05 89.05	179.65 179.65	10122.52 10122.92	2305.42 2329.51	-2304.53 -2328.63	152.30 152.45	0.00 0.00	380135.55 380111.46	722881.30 N 32 2 35.04 W 103 36 50.48 722881.45 N 32 2 34.80 W 103 36 50.48
r not Bone opring ranget	12700.00	89.05	179.65	10124.18	2405.40	-2404.51	152.92	0.00	380035.57	722881.91 N 32 2 34.05 W 103 36 50.48
	12800.00 12900.00	89.05 89.05	179.65 179.65	10125.83 10127.49	2505.39 2605.37	-2504.50 -2604.48	153.54 154.16	0.00	379935.59 379835.61	722882.53 N 32 2 33.06 W 103 36 50.48 722883.15 N 32 2 32.07 W 103 36 50.48
	13000.00	89.05	179.65	10129.15	2705.36	-2704.47	154.77	0.00	379735.63	722883.77 N 32 2 31.08 W 103 36 50.48
	13100.00 13200.00	89.05 89.05	179.65 179.65	10130.80 10132.46	2805.35 2905.33	-2804.45 -2904.43	155.39 156.01	0.00	379635.65 379535.67	722884.39 N 32 2 30.09 W 103 36 50.48 722885.00 N 32 2 29.10 W 103 36 50.48
	13300.00 13400.00	89.05 89.05	179.65 179.65	10134.11 10135.77	3005.32 3105.31	-3004.42 -3104.40	156.63 157.24	0.00	379435.69 379335.71	722885.62 N 32 2 28.11 W 103 36 50.48 722886.24 N 32 2 27.12 W 103 36 50.48
	13500.00	89.05	179.65	10137.43	3205.29	-3204.39	157.24	0.00	379235.73	722886.86 N 32 2 26.14 W 103 36 50.48
	13600.00 13700.00	89.05 89.05	179.65 179.65	10139.08 10140.74	3305.28 3405.27	-3304.37 -3404.36	158.48 159.10	0.00	379135.75 379035.77	722887.47 N 32 2 25.15 W 103 36 50.48 722888.09 N 32 2 24.16 W 103 36 50.48
	13800.00	89.05	179.65	10142.39	3505.25	-3504.34	159.71	0.00	378935.79	722888.71 N 32 2 23.17 W 103 36 50.48
	13900.00 14000.00	89.05 89.05	179.65 179.65	10144.05 10145.71	3605.24 3705.22	-3604.33 -3704.31	160.33 160.95	0.00	378835.80 378735.82	722889.33 N 32 2 22.18 W 103 36 50.48 722889.94 N 32 2 21.19 W 103 36 50.48
	14100.00	89.05	179.65	10147.36	3805.21	-3804.29	161.57	0.00	378635.84	722890.56 N 32 2 20.20 W 103 36 50.48
	14200.00 14300.00	89.05 89.05	179.65 179.65	10149.02 10150.68	3905.20 4005.18	-3904.28 -4004.26	162.18 162.80	0.00	378535.86 378435.88	722891.18 N 32 2 19.21 W 103 36 50.48 722891.80 N 32 2 18.22 W 103 36 50.49
	14400.00	89.05	179.65	10152.33	4105.17	-4104.25	163.42	0.00	378335.90	722892.41 N 32 2 17.23 W 103 36 50.49
	14500.00 14600.00	89.05 89.05	179.65 179.65	10153.99 10155.64	4205.16 4305.14	-4204.23 -4304.22	164.04 164.65	0.00	378235.92 378135.94	722893.03 N 32 2 16.24 W 103 36 50.49 722893.65 N 32 2 15.25 W 103 36 50.49
	14700.00 14800.00	89.05 89.05	179.65	10157.30	4405.13	-4404.20 -4504.18	165.27 165.89	0.00	378035.96	722894.27 N 32 2 14.26 W 103 36 50.49 722894.88 N 32 2 13.27 W 103 36 50.49
	14900.00	89.05	179.65 179.65	10158.96 10160.61	4505.11 4605.10	-4604.17	166.51	0.00	377935.98 377836.00	722895.50 N 32 2 12.28 W 103 36 50.49
	15000.00 15100.00	89.05 89.05	179.65 179.65	10162.27 10163.93	4705.09 4805.07	-4704.15 -4804.14	167.13 167.74	0.00	377736.02 377636.04	722896.12 N 32 2 11.29 W 103 36 50.49 722896.74 N 32 2 10.30 W 103 36 50.49
IFP2, Build 2°/100ft	15157.05	89.05	179.65	10164.87	4862.11	-4861.18	168.10	0.00	377579.00	722897.09 N 32 2 9.74 W 103 36 50.49
Hold	15190.43 15200.00	89.72 89.72	179.65 179.65	10165.23 10165.28	4895.50 4905.06	-4894.56 -4904.13	168.30 168.36	2.00 0.00	377545.62 377536.05	722897.30 N 32 2 9.41 W 103 36 50.49 722897.35 N 32 2 9.32 W 103 36 50.49
	15300.00	89.72	179.65	10165.77	5005.06	-5004.12	168.98	0.00	377436.06	722897.97 N 32 2 8.33 W 103 36 50.49
	15400.00 15500.00	89.72 89.72	179.65 179.65	10166.26 10166.75	5105.06 5205.06	-5104.12 -5204.12	169.59 170.21	0.00	377336.06 377236.07	722898.59 N 32 2 7.34 W 103 36 50.49 722899.21 N 32 2 6.35 W 103 36 50.49
	15600.00	89.72	179.65	10167.24	5305.06	-5304.11	170.83	0.00	377136.08	722899.82 N 32 2 5.36 W 103 36 50.49
	15700.00 15800.00	89.72 89.72	179.65 179.65	10167.73 10168.22	5405.06 5505.06	-5404.11 -5504.11	171.45 172.06	0.00	377036.08 376936.09	722900.44 N 32 2 4.37 W 103 36 50.49 722901.06 N 32 2 3.38 W 103 36 50.49
	15900.00	89.72	179.65	10168.71	5605.05	-5604.10	172.68	0.00	376836.10	722901.67 N 32 2 2.39 W 103 36 50.49
	16000.00 16100.00	89.72 89.72	179.65 179.65	10169.20 10169.69	5705.05 5805.05	-5704.10 -5804.10	173.30 173.92	0.00	376736.10 376636.11	722902.29 N 32 2 1.40 W 103 36 50.49 722902.91 N 32 2 0.41 W 103 36 50.50
	16200.00	89.72	179.65	10170.18	5905.05	-5904.09	174.53	0.00	376536.12	722903.53 N 32 1 59.42 W 103 36 50.50
	16300.00 16400.00	89.72 89.72	179.65 179.65	10170.67 10171.16	6005.05 6105.05	-6004.09 -6104.09	175.15 175.77	0.00	376436.12 376336.13	722904.14 N 32 1 58.43 W 103 36 50.50 722904.76 N 32 1 57.44 W 103 36 50.50
	16500.00 16600.00	89.72 89.72	179.65 179.65	10171.66 10172.15	6205.05 6305.05	-6204.09 -6304.08	176.38 177.00	0.00	376236.14 376136.14	722905.38 N 32 1 56.45 W 103 36 50.50 722906.00 N 32 1 55.46 W 103 36 50.50
	16700.00	89.72	179.65	10172.64	6405.04	-6404.08	177.62	0.00	376036.15	722906.61 N 32 1 54.47 W 103 36 50.50
	16800.00 16900.00	89.72 89.72	179.65 179.65	10173.13 10173.62	6505.04 6605.04	-6504.08 -6604.07	178.24 178.85	0.00	375936.16 375836.17	722907.23 N 32 1 53.48 W 103 36 50.50 722907.85 N 32 1 52.49 W 103 36 50.50
	17000.00	89.72	179.65	10174.11	6705.04	-6704.07	179.47	0.00	375736.17	722908.46 N 32 1 51.50 W 103 36 50.50
	17100.00 17200.00	89.72 89.72	179.65 179.65	10174.60 10175.09	6805.04 6905.04	-6804.07 -6904.06	180.09 180.71	0.00	375636.18 375536.19	722909.08 N 32 1 50.51 W 103 36 50.50 722909.70 N 32 1 49.52 W 103 36 50.50

...SD 18 19 Fed Com P345 22H\Chevron SD 18 19 Fed Com P345 22H Rev0 jjb 24Oct19

Comments	MD	Incl	Azim Grid	TVD	VSEC	NS	EW	DLS	Northing	Easting	Latitude	Longitude
-	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(ftUS)	(ftUS)	(N/S ° ' ")	(E/W ° ' ")
	17300.00	89.72	179.65	10175.58	7005.04	-7004.06	181.32	0.00	375436.19	722910.32 N		
	17400.00	89.72	179.65	10176.07	7105.04	-7104.06	181.94	0.00	375336.20	722910.93 N		
	17500.00	89.72	179.65	10176.56	7205.04	-7204.05	182.56	0.00	375236.21	722911.55 N		
	17600.00	89.72	179.65	10177.05	7305.03	-7304.05	183.17	0.00	375136.21	722912.17 N		
	17700.00	89.72	179.65	10177.54	7405.03	-7404.05	183.79	0.00	375036.22	722912.78 N		
IFP3, Build 2°/100ft	17766.22	89.72	179.65	10177.87	7471.26	-7470.27	184.20	0.00	374970.00	722913.19 N		
	17800.00	90.39	179.65	10177.84	7505.03	-7504.05	184.41	2.00	374936.23	722913.40 N		
EOC (Curve-Hold)	17802.22	90.44	179.65	10177.82	7507.25	-7506.26	184.42	2.00	374934.01	722913.42 N		
	17900.00	90.44	179.65	10177.07	7605.03	-7604.04	185.03	0.00	374836.23	722914.02 N		
	18000.00	90.44	179.65	10176.31	7705.03	-7704.04	185.64	0.00	374736.24	722914.64 N		
	18100.00	90.44	179.65	10175.54	7805.02	-7804.03	186.26	0.00	374636.25	722915.25 N		
	18200.00	90.44	179.65	10174.78	7905.02	-7904.03	186.88	0.00	374536.26	722915.87 N		
	18300.00	90.44	179.65	10174.01	8005.02	-8004.02	187.49	0.00	374436.27	722916.49 N		
	18400.00	90.44	179.65	10173.24	8105.01	-8104.02	188.11	0.00	374336.28	722917.10 N		
	18500.00	90.44	179.65	10172.48	8205.01	-8204.01	188.73	0.00	374236.28	722917.72 N	32 1 36.66 V	V 103 36 50.51
	18600.00	90.44	179.65	10171.71	8305.01	-8304.01	189.34	0.00	374136.29	722918.34 N	32 1 35.67 V	V 103 36 50.51
	18700.00	90.44	179.65	10170.95	8405.01	-8404.00	189.96	0.00	374036.30	722918.95 N	32 1 34.68 V	V 103 36 50.51
	18800.00	90.44	179.65	10170.18	8505.00	-8504.00	190.58	0.00	373936.31	722919.57 N		
	18900.00	90.44	179.65	10169.42	8605.00	-8603.99	191.20	0.00	373836.32	722920.19 N	32 1 32.70 V	V 103 36 50.51
	19000.00	90.44	179.65	10168.65	8705.00	-8703.99	191.81	0.00	373736.33	722920.81 N	32 1 31.71 V	V 103 36 50.51
	19100.00	90.44	179.65	10167.88	8804.99	-8803.98	192.43	0.00	373636.34	722921.42 N	32 1 30.72 V	V 103 36 50.51
	19200.00	90.44	179.65	10167.12	8904.99	-8903.98	193.05	0.00	373536.34	722922.04 N	32 1 29.73 V	V 103 36 50.51
	19300.00	90.44	179.65	10166.35	9004.99	-9003.97	193.66	0.00	373436.35	722922.66 N	32 1 28.74 V	V 103 36 50.51
	19400.00	90.44	179.65	10165.59	9104.99	-9103.97	194.28	0.00	373336.36	722923.27 N	32 1 27.75 V	V 103 36 50.51
	19500.00	90.44	179.65	10164.82	9204.98	-9203.96	194.90	0.00	373236.37	722923.89 N	32 1 26.76 V	V 103 36 50.51
	19600.00	90.44	179.65	10164.06	9304.98	-9303.96	195.52	0.00	373136.38	722924.51 N	32 1 25.77 V	V 103 36 50.51
	19700.00	90.44	179.65	10163.29	9404.98	-9403.95	196.13	0.00	373036.39	722925.13 N	32 1 24.78 V	V 103 36 50.52
	19800.00	90.44	179.65	10162.53	9504.97	-9503.95	196.75	0.00	372936.39	722925.74 N	32 1 23.80 V	V 103 36 50.52
	19900.00	90.44	179.65	10161.76	9604.97	-9603.94	197.37	0.00	372836.40	722926.36 N	32 1 22.81 V	V 103 36 50.52
	20000.00	90.44	179.65	10160.99	9704.97	-9703.94	197.98	0.00	372736.41	722926.98 N	32 1 21.82 V	V 103 36 50.52
	20100.00	90.44	179.65	10160.23	9804.96	-9803.93	198.60	0.00	372636.42	722927.59 N	32 1 20.83 V	V 103 36 50.52
	20200.00	90.44	179.65	10159.46	9904.96	-9903.93	199.22	0.00	372536.43	722928.21 N	32 1 19.84 V	V 103 36 50.52
LTP Cross	20220.76	90.44	179.65	10159.30	9925.72	-9924.69	199.35	0.00	372515.67	722928.34 N	32 1 19.63 V	V 103 36 50.52
	20300.00	90.44	179.65	10158.70	10004.96	-10003.92	199.83	0.00	372436.44	722928.83 N	32 1 18.85 V	V 103 36 50.52
SD 18 19 Fed Com P345 22H - PBHL	20375.44	90.44	179.65	10158.12	10080.40	-10079.36	200.30	0.00	372361.00	722929.29 N	32 1 18.10 V	V 103 36 50.52

Survey Type:

Dof Blon

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 (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	31.500	1/100.000	30.000	30.000		B001Mb_MWD+HRGM-Depth Only	SD 18 19 Fed Com P345 22H / Chevron SD 18 19 Fed Com P345 22H Rev0 iib 24Oct19
	1	31.500	20375.443	1/100.000	30.000	30.000		B001Mb_MWD+HRGM	SD 18 19 Fed Com P345 22H / Chevron SD 18 19 Fed Com P345

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Chevron USA Inc

LEASE NO.: NMNM

LOCATION: | Section 18, T. 26 S., R. 33 E., NMPM

COUNTY: Lea County, New Mexico

WELL NAME & NO.: | SD 18 19 Fed Com P345 21H

SURFACE HOLE FOOTAGE: 455'/N & 1486'/W **BOTTOM HOLE FOOTAGE** 25'/S & 330'/W

WELL NAME & NO.: SD 18 19 Fed Com P345 22H

SURFACE HOLE FOOTAGE: 455'/N & 1511'/W **BOTTOM HOLE FOOTAGE** 25'/S & 330'/W

COA

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

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

Casing Design:

1. The 13-3/8 inch surface casing shall be set at approximately 960 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.

Intermediate casing must be kept 1/2 fluid filled to meet BLM minimum collapse requirement.

2. The **9-5/8** inch intermediate casing shall be set at approximately **8970** feet. 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. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

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.
 - Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

3. The minimum required fill of cement behind the 5-1/2 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.

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 **3000 (3M)** 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)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

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.

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• 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)
 689-5981
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. 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.

NMK-3-7-2022



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

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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

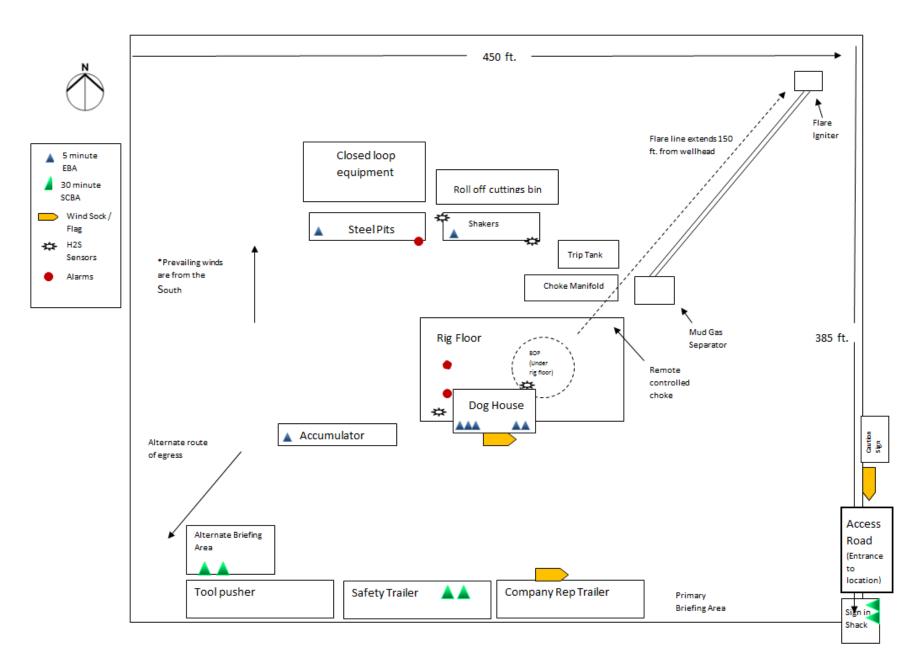


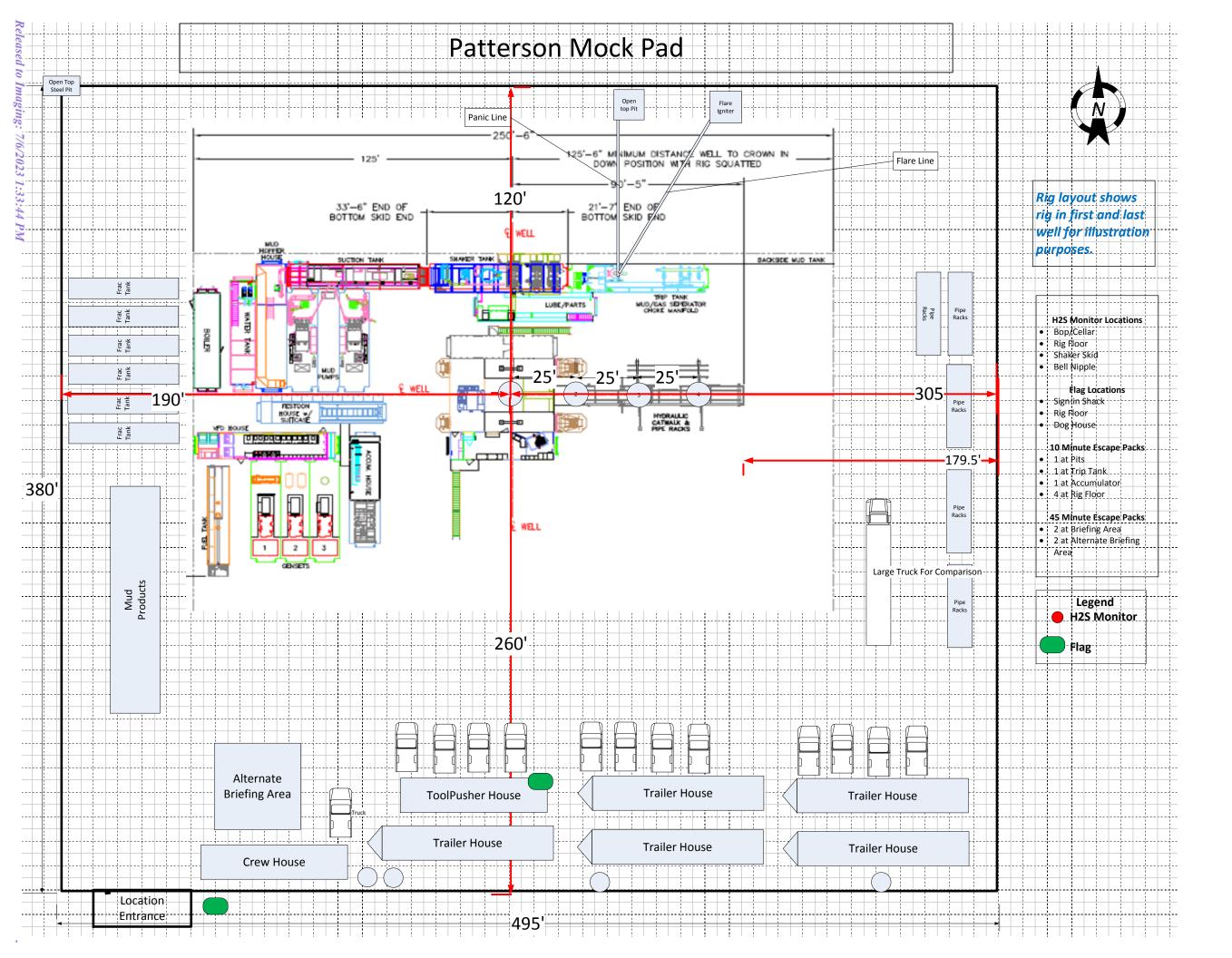
Chevron MCBU D&C Emergency Notifications

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	
Latitu	nde				Longitu	ıde						NAD	
irst ⁻	Гаke Poir	nt (FTP)											
UL	Section	Township	Range	Lot	Feet	Feet From N/S Feet From E/W County							
Latitu	ıde	l		Longitude NAD									
UL Latitu	Section	t (LTP) Township	Range	Lot	Feet Longitu	From N/	'S Fe	eet	From E/		Count	у	
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KZ 06/29/2018



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

Drilling Plan Data Report 05/31/2023

APD ID: 10400055114 Submission Date: 03/13/2020

Operator Name: CHEVRON USA INCORPORATED

Well Name: SD 18 19 FED COM P345 Well Number: 22H

Show Final Text Well Type: OIL WELL Well Work Type: Drill

Highlighted data reflects the most recent changes

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
688875	RUSTLER	3222	744	744	DOLOMITE	NONE	N
688892	CASTILE	315	2907	2911	ANHYDRITE	NONE	N
688893	LAMAR	-1498	4720	4731	LIMESTONE	NONE	N
688876	BELL CANYON	-1531	4753	4764	SANDSTONE	NONE	N
688878	CHERRY CANYON	-2592	5814	5829	SANDSTONE	NONE	N
688895	BRUSHY CANYON	-4142	7364	7382	SANDSTONE	NONE	N
688880	BONE SPRING LIME	-5730	8952	8970	LIMESTONE	NONE	N
688890	AVALON SAND	-5771	8993	9011	LIMESTONE, SHALE	NONE	N
688882	BONE SPRING 1ST	-6621	9843	9880	SANDSTONE	NONE	N
688883	BONE SPRING 1ST	-6936	10158	20375	SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M Rating Depth: 10158

Equipment: Chevron will have a minimum of a 5,000 psi rig stack (see proposed schematic) for drill out below surface casing. The stack will be tested as specified in the attached testing requirements. Batch drilling of the surface, 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

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

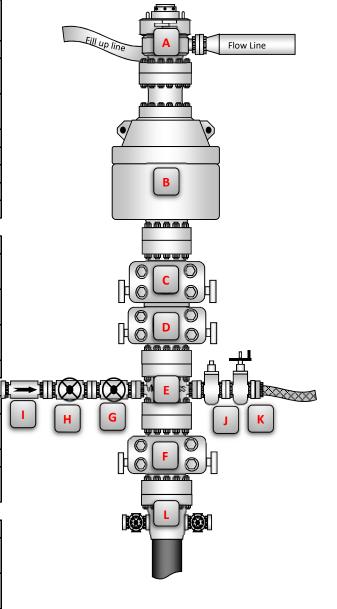
BLOWOUT PREVENTER SCHEMATIC

			on Hole Section
I	Minimum S	ystem	10 000:
О	peration p	10,000 psi	
		BOP Stack	<u>(</u>
Dout	Size	Pressure	Description
Part	Size	Rating	Description
Α	13-5/8"	N/A	Rotating Head/Bell
A	15-5/6	IN/A	nipple
В	13-5/8"	10,000	Annular
С	13-5/8"	10,000	Blind Ram
D	13-5/8"	10,000	Pipe Ram
E	13-5/8"	10,000	Mud Cross
F	13-5/8"	10,000	Pipe Ram

<u>Kill Line</u>					
Part	Size	Pressure	Description		
		Rating			
G	2"	10,000	Inside Kill Line Valve		
			(gate valve)		
н	2"	10,000	Outside Kill Line Valve		
			(gate valve)		
- 1	2"	10,000	Kill Line Check valve		

<u>Choke line</u>				
Part	Size	Pressure	Doscription	
		Rating	Description	
J	3"	10,000	HCR (gate valve)	
K	3"	10,000	Manual HCR (gate	
			valve)	

<u>Wellhead</u>					
Part	Size	Pressure Rating	Description		
L	13-5/8"	10,000	FMC 5M/10M wellhead		



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.

The kill line and choke line will be straight unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and reduce vibration

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

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

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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 236352

CONDITIONS

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	236352
	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	7/6/2023
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	7/6/2023
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	7/6/2023
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	7/6/2023