Form 3160-3 (June 2015) UNITED STATES	2			FORM APPRO OMB No. 100 <sup>2</sup> Expires: January	I-0137								
DEPARTMENT OF THE II BUREAU OF LAND MANA	NTERIOR			5. Lease Serial No.									
APPLICATION FOR PERMIT TO D	APPLICATION FOR PERMIT TO DRILL OR REENTER												
1a. Type of work: DRILL R		7. If Unit or CA Agreement, Name and No.											
	ther ngle Zone	Multiple Zone		8. Lease Name and Well N	o.								
2. Name of Operator				9. API Well No. 30-01	5-53738								
3a. Address	3b. Phone N	No. (include area cod	le)	10. Field and Pool, or Exp									
Location of Well (Report location clearly and in accordance was At surface     At proposed prod. zone	l with any State	e requirements.*)		11. Sec., T. R. M. or Blk. a	nd Survey or Area								
14. Distance in miles and direction from nearest town or post offi	ice*			12. County or Parish	13. State								
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of a	cres in lease	17. Spacin	ng Unit dedicated to this we	II								
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Propose	ed Depth	20. BLM/	/BIA Bond No. in file									
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approx	imate date work will	start*	23. Estimated duration									
	24. Attac	chments											
The following, completed in accordance with the requirements of (as applicable)	f Onshore Oil	and Gas Order No.	1, and the F	Hydraulic Fracturing rule per	43 CFR 3162.3-3								
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office</li> </ol>		Item 20 above). 5. Operator certific	cation.	ns unless covered by an existing transfer and/or plans as may b									
25. Signature	Name	e (Printed/Typed)		Date									
Title													
Approved by (Signature)	Name	e (Printed/Typed)		Date									
Title	Office	e		l .									
Application approval does not warrant or certify that the applicar applicant to conduct operations thereon.  Conditions of approval, if any, are attached.	t holds legal	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 1212, n of the United States any false, fictitious or fraudulent statements					partment or agency								
				Accepted for re	cord – NMOCI								

APPROVED WITH CONDITIONS
Approval Date: 04/17/2023

JRH \_\_\_04/27/2023 \_\_\_\_

(Continued on page 2)

\*(Instructions on page 2)

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

26 SOUTH

27 EAST, N.M.P.M.

District IV

M

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

**EDDY** 

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

	<sup>1</sup> API Numbe		<sup>2</sup> Pool Co	ode			³ Pool Nar	me				
	30-015-5	373854	98220	98220 PURPLE SAGE; WOLFCAMP (								
<sup>4</sup> Pro	perty Code		<sup>5</sup> Property Name									
3	33954		RYE ONE 16 21 FED STATE COM P40									
<sup>7</sup> O	GRID No.			<sup>8</sup> Operator Name								
	4323			CHEVR	ON U.S.A. IN	C.			3280'			
	<sup>10</sup> Surface Location											
UL or lot r	no. Section T	ownship	Range	Lot Idn	Feet from the	North/South line	East/West 1	ine	County			

324 Bottom Hole Location If Different From Surface

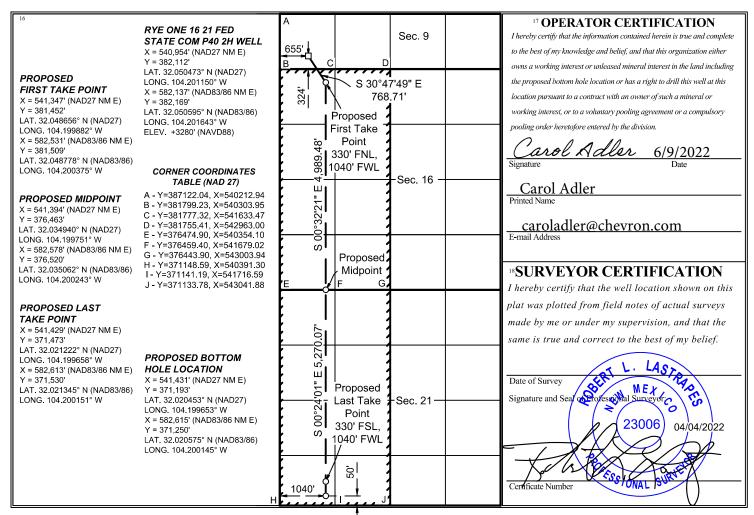
655

SOUTH

WEST

	Bottom Hole Education 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						
M	21	26 SOUTH	27 EAST, N.M.P.M		50'	SOUTH	1040'	WEST	EDDY						
12 Dedicated A	cres 13 Join	nt or Infill	<sup>14</sup> 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:Chevr	on USA Inc		_OGRID: _	4323	Da	te: <u>03</u> /_17_/_ <u>2022</u> _									
II. Type: ⊠ Original [	. <b>Type:</b> ⊠ Original □ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ Other.														
If Other, please describe	»:														
III. Well(s): Provide the be recompleted from a s					wells proposed to	be drilled or proposed to									
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D									
RI1 16 21 FED ST COM 40 #1H	Pending	UL:C-09-26S-27E	338' FSL, 1402' FWL	BBL/D	MCF/D	BBL/D									
RI1 16 21 FED STATE COM 40 #2H	Pending	UL:N-09-26S-27E	338' FNL, 1427' FWL	BBL/D	MCF/D	BBL/D									
RI1 16 21 FED STATE COM 40 #3H	Pending	UL:N-09-26S-27E	338' FNL, 1452' FEL	BBL/D	MCF/D	BBL/D									
RI1 16 21 FED STATE COM 40 #4H	Pending	UL:N-09-26S-27E	339' FNL, 1477' FEL	BBL/D	MCF/D	BBL/D									
IV. Central Delivery P	oint Name: _	RI1 16 CTB_		See 19.15.	27.9(D)(1) NMA	C]									
V. Anticipated Schedu proposed to be recomple					vell or set of wells	s proposed to be drilled or									

Well Name	API	Spud Date	TD Reached	Completion	Initial Flow	First Production
			Date	Commencement Date	Back Date	Date
RI1 16 21 FED ST COM 40 #1H	Pending		<u>N/A</u>	N/A	<u>N/A</u>	<u>N/A</u>
RI1 16 21 FED STATE COM 40 #2H	Pending		<u>N/A</u>	N/A	<u>N/A</u>	N/A
RI1 16 21 FED STATE COM 40 #3H	Pending		N/A	N/A	N/A	N.A
RI1 16 21 FED STATE COM 40 #4H	Pending		<u>N/A</u>	N/A	N/A	<u>N/A</u>

VI. Separation Equipment: 

Attach a complete description of how Operator will size separation equipment to optimize gas capture.

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

VIII. Best Management Practices: 

☐ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

### Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

#### IX. Anticipated Natural Gas Production:

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

#### X. Natural Gas Gathering System (NGGS):

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

**XI. Map.**  $\square$  Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system  $\square$  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 production.

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

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: 
Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

(h)

(i)

## Section 3 Cortifications

	Effective May 25, 2021
Operator certifies that, a	after reasonable inquiry and based on the available information at the time of submittal:
one hundred percent of	to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering
hundred percent of the a into account the current	able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. box, Operator will select one of the following:
   <b>Well Shut-In.</b> □ Opera	tor 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	
	lan. □ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential es for the natural gas until a natural gas gathering system is available, including:
(a)	power generation on lease;
(b)	power generation for grid;
(c)	compression on lease;
(d)	liquids removal on lease;
(e)	reinjection for underground storage;
<b>(f)</b>	reinjection for temporary storage;
(g)	reinjection for enhanced oil recovery;

### **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.

fuel cell production; and

- 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
Printed Name: Cindy Herrera-Murillo
Title: Sr HSE Regulatory affairs Coordinator
E-mail Address: eeof@chevron.com
Date: 03/17/2022
Phone: <b>575-263-0431</b>
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: RYE ONE 16 21 FED STATE COM P40 Well Number: 2H

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

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

#### **Choke Diagram Attachment:**

BLM\_5M\_Choke\_Manifold\_Diagram\_20210927173702\_20220610121408.pdf

BLM\_Choke\_Hose\_Test\_Specs\_and\_Pressure\_Test\_Continental\_20210927173713\_20220610121421.pdf

#### **BOP Diagram Attachment:**

NM\_Slim\_Hole\_Wellhead\_6650\_psi\_UH\_S\_20210927173753\_20220610121432.pdf

BLM\_5M\_Annular\_10M\_Rams\_Stackup\_and\_Test\_Plan\_20210928130917\_20220610121445.pdf

BOPE\_Testing\_20220610121811.pdf

#### **Section 3 - Casing**

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	450	0	450	3280	2830	450	J-55	54.5	BUTT	2.13	1.43	BUOY	2.09	BUOY	3.46
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	2176	0	2163	3280	1117	2176	L-80	-	OTHER - BTC/LTC	1.24	1.64	BUOY	3.16	BUOY	3.26
3	INTERMED IATE	8.75	7.0	NEW	API	N	0	8343	0	8313	3280	-5033	8343	P- 110	-	OTHER - BLUE	1.63	1.15	BUOY	2.3	BUOY	2.3
4	PRODUCTI ON	6.12 5	5.0	NEW	API	N	8043	8943	7793	8863	-4513	-5583	900	P- 110	-	OTHER - W513	1.39	1.1	BUOY	1.63	BUOY	2.54

Well Name: RYE ONE 16 21 FED STATE COM P40

Well Number: 2H

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
5	PRODUCTI ON	4.5	4.5	NEW	API	N	8943	19674	8863	9008	-5583	-5728	10731	P- 110		OTHER - W- 521	1.39	1.1	BUOY	1.63	BUOY	2.54

Casing ID: 1

String

**SURFACE** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

13.375\_casing\_spec\_sheet\_20220610125938.pdf

Casing ID: 2

String

**INTERMEDIATE** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

9.625\_40.0lb\_L80IC\_BTC\_20220610130024.pdf

Well Name: RYE ONE 16 21 FED STATE COM P40 Well Number: 2H

Casing	Attachmen	ts
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Casing ID: 3 String INTERMEDIATE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

7in\_Blue\_vs\_BlueSD\_20220610130105.pdf

Casing ID: 4

String

**PRODUCTION** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

5.500\_20lb\_P110\_TXP\_20220610130212.pdf

Casing ID: 5

**String** 

**PRODUCTION** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

4.5\_W521\_Spec\_Sheet\_20220610130134.pdf

**Section 4 - Cement** 

Well Name: RYE ONE 16 21 FED STATE COM P40 Well Number: 2H

String Type	Lead/Tail	Stage Tool Depth	Тор МD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	0	0	0	0	0	0	N/A	N/A
SURFACE	Tail		0	450	294	1.33	14.8	391	25	CLASS C	EXTENDER; ANTIFOAM; RETARDER; VISCOSIFER
INTERMEDIATE	Lead		0	1176	185	2.49	11.9	460	25	CLASS C	EXTENDER; ANTIFOAM; RETARDER; VISCOSIFER
INTERMEDIATE	Tail		1176	2176	323	1.33	13.6	429	25	CLASS C	EXTENDER; ANTIFOAM; RETARDER; VISCOSIFER
INTERMEDIATE	Lead		0	7343	598	2.2	11.5	1316	25	CLASS C	EXTENDER; ANTIFOAM; RETARDER; VISCOSIFER
INTERMEDIATE	Tail		7343	8343	134	1.4	14.5	188	25	CLASS C	EXTENDER; ANTIFOAM; RETARDER; VISCOSIFER
PRODUCTION	Lead		8143	1967 4	828	1.64	13.2	1357	25	CLASS H	EXTENDER; ANTIFOAM; RETARDER; VISCOSIFER

## **Section 5 - Circulating Medium**

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

Describe what will be on location to control well or mitigate other conditions: closed system will be used consisting of above ground steel tanks and all wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in an approved sanitary landfill. If an open reserve pit is in place, pit construction, operation, and closure will follow all applicable rules and regulation. Sanitary wastes will be contained in a chemical 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.

Well Name: RYE ONE 16 21 FED STATE COM P40 Well Number: 2H

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

### **Circulating Medium Table**

Top Depth	Bottom Depth	Mud Type	Min Weight (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	450	SPUD MUD	8.3	9.1							VISCOSITY: 26-36 FILTRATE: N/C
450	2176	SALT SATURATED	8.9	10.5							VISCOSITY: 26-36 FILTRATE: 15-25 10 LB MINIMUM WILL BE UTILIZED IN THE SALT ZONE Saturated brine would be used through salt sections.
2176	8343	OTHER : WBM/BRINE	8.7	9.6							VISCOSITY: 26-36 FILTRATE: 15-25
8343	1967 4	OIL-BASED MUD	8.7	12.2							VISCOSITY: 50-70 FILTRATE: 5-10 Due to wellbore instability in the lateral, may exceed the MW weight window needed to maintain overburden stresses

### **Section 6 - Test, Logging, Coring**

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

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

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

GAMMA RAY LOG, DIRECTIONAL SURVEY,

Coring operation description for the well:

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

Well Name: RYE ONE 16 21 FED STATE COM P40 Well Number: 2H

#### Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5744 Anticipated Surface Pressure: 3752

Anticipated Bottom Hole Temperature(F): 165

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

#### Describe:

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

#### **Contingency Plans geoharzards description:**

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

#### Contingency Plans geohazards

#### Hydrogen Sulfide drilling operations plan required? YES

#### Hydrogen sulfide drilling operations

H2S\_Contingency\_Plan\_20220610125417.pdf

#### **Section 8 - Other Information**

#### Proposed horizontal/directional/multi-lateral plan submission:

DefPlan100ft\_RYEONE1621FEDSTATECOMP402H\_R0\_20220610125650.pdf

Gas\_Management\_Plan\_\_\_HH\_Pad\_40\_20220610125708.pdf

Operational\_Best\_Management\_Practices\_V2\_20220610125717.pdf

RYE\_ONE\_16\_21\_FED\_STATE\_COM\_P402H\_DP\_20220610125738.pdf

Surface\_Rig\_\_\_20220610125817.pdf

Rig Layout 20220610125829.pdf

#### Other proposed operations facets description:

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

- a. Batch drilling will be employed whereby the drilling rig may drill a specific hole section on all wells prior to moving to the next hole section.
- b. Shallow rig may be utilized to drill surface or intermediate sections. The production section will not be drilled by the shallow rig.
- c. Wait on cement time will use the tail slurry and will follow rules as laid out in Onshore Order 2.

#### Other proposed operations facets attachment:

#### Other Variance attachment:

<sup>\*\*\*</sup>Drilling plan attached contains a contingency cement program.

#### Schlumberger

#### RYE ONE 16 21 FED STATE COM P40 2H R0 mdv 05Apr22 Proposal **Geodetic Report**

(Def Plan)



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

Version / Patch:

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

April 06, 2022 - 11:15 AM Chevron Chevron HNM Pkg 40 RYE ONE / 2H RYE ONE 16 21 FED STATE COM P40 2H RYE ONE 16 21 FED STATE COM P40 2H Unknown / Unknown RYE ONE 16 21 FED STATE COM P40 2H R0 mdv 05Apr22

NYE UNE 16 21 FED 51ATE COM P40 2H RU mov 05A( April 05, 2021 10.401 \* / 11232.625 ft / 6.430 / 1.241 NAD27 New Mexico State Plane, Eastern Zone, US Feet N 32° 3' 1.69899', W 104° 12° 4.13634\* N 382112.000 ftUS, E 540954.000 ftUS 0.7010 \* 2.10.829.1

Survey / DLS Computation: Vertical Section Azimuth: Vertical Section Origin: TVD Reference Datum: TVD Reference Elevation: Seabed / Ground 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 179.530 ° (Grid North) 0.000 ft, 0.000 ft RKB = 28ft 3308.000 ft above MSL 3280.000 ft above MSL 6.894 ° 998.4277mgn (9.80665 Based) GARM 47499.057 nT 59.596 ° April 05, 2022 HDGM 2022 Grid North 0.0701 ° 6.8234

Well Head

Comments	MD (ft)	Incl	Azim Grid	TVD	VSEC	NS (ft)	EW	DLS	Northing	Easting Latit	
Surface	0.00	(°)	(°)	(ft) 0.00	(ft) 0.00	0.00	(ft) 0.00	(°/100ft) N/A	(ftUS) 382112.00	(ftUS) (N/S ° 540954.00 N 32 3 1	1.70 W 104 12 4 14
	100.00	0.00	102.29	100.00	0.00	0.00	0.00	0.00	382112.00	540954.00 N 32 3 1	
	200.00	0.00	102.29	200.00	0.00	0.00	0.00	0.00	382112.00	540954.00 N 32 3 1	
	300.00	0.00	102.29	300.00	0.00	0.00	0.00	0.00	382112.00	540954.00 N 32 3 1	
	400.00	0.00	102.29	400.00	0.00	0.00	0.00	0.00	382112.00	540954.00 N 32 3 1	
Castile (CSTL)	468.00 500.00	0.00	102.29 102.29	468.00 500.00	0.00	0.00	0.00	0.00	382112.00 382112.00	540954.00 N 32 3 1 540954.00 N 32 3 1	
	600.00	0.00	102.29	600.00	0.00	0.00	0.00	0.00	382112.00	540954.00 N 32 3 1 540954.00 N 32 3 1	
	700.00	0.00	102.29	700.00	0.00	0.00	0.00	0.00	382112.00	540954.00 N 32 3 1	
	800.00	0.00	102.29	800.00	0.00	0.00	0.00	0.00	382112.00	540954.00 N 32 3 1	
Build 1.5°/100ft	900.00	0.00	102.29	900.00	0.00	0.00	0.00	0.00	382112.00	540954.00 N 32 3 1	
	1000.00	1.50	102.29	999.99	0.29	-0.28	1.28	1.50	382111.72	540955.28 N 32 3 1	
	1100.00	3.00	102.29	1099.91	1.16	-1.11	5.11	1.50	382110.89	540959.11 N 32 3 1	
	1200.00 1300.00	4.50 6.00	102.29 102.29	1199.69 1299.27	2.60 4.62	-2.51 -4.45	11.50 20.45	1.50 1.50	382109.49 382107.55	540965.50 N 32 3 1 540974.44 N 32 3 1	
	1400.00	7.50	102.29	1398.57	7.22	-6.96	31.93	1.50	382105.04	540985.93 N 32 3 1	
	1500.00	9.00	102.29	1497.54	10.39	-10.01	45.95	1.50	382101.99	540999.94 N 32 3 1	
Hold	1566.73	10.00	102.29	1563.35	12.82	-12.36	56.71	1.50	382099.64	541010.71 N 32 3 1	1.58 W 104 12 3.48
	1600.00	10.00	102.29	1596.11	14.10	-13.59	62.36	0.00	382098.41	541016.35 N 32 3 1	
	1700.00	10.00	102.29	1694.59	17.93	-17.28	79.32	0.00	382094.72	541033.32 N 32 3 1	
	1800.00	10.00	102.29	1793.07	21.77	-20.98	96.29	0.00	382091.02	541050.28 N 32 3 1	
	1900.00 2000.00	10.00 10.00	102.29 102.29	1891.56 1990.04	25.61 29.44	-24.68 -28.38	113.26 130.23	0.00	382087.32 382083.63	541067.25 N 32 3 1 541084.22 N 32 3 1	
	2100.00	10.00	102.29	2088.52	33.28	-32.07	147.20	0.00	382079.93	541101.18 N 32 3 1	
Lamar (LMAR)	2175.63	10.00	102.29	2163.00	36.18	-34.87	160.03	0.00	382077.13	541114.02 N 32 3 1	
,	2200.00	10.00	102.29	2187.00	37.12	-35.77	164.17	0.00	382076.23	541118.15 N 32 3 1	1.34 W 104 12 2.23
Bell Canyon (BLCN)	2208.13	10.00	102.29	2195.00	37.43	-36.07	165.55	0.00	382075.93	541119.53 N 32 3 1	.34 W 104 12 2.21
	2300.00	10.00	102.29	2285.48	40.95	-39.47	181.13	0.00	382072.54	541135.12 N 32 3 1	
	2400.00	10.00	102.29	2383.96	44.79	-43.17	198.10	0.00	382068.84		1.27 W 104 12 1.84
	2500.00 2600.00	10.00 10.00	102.29 102.29	2482.44 2580.92	48.63 52.46	-46.86 -50.56	215.07 232.04	0.00	382065.14 382061.44	541169.05 N 32 3 1 541186.02 N 32 3 1	
	2700.00	10.00	102.29	2679.40	56.30	-54.26	249.01	0.00	382057.75	541202.99 N 32 3 1	
	2800.00	10.00	102.29	2777.88	60.13	-57.95	265.98	0.00	382054.05	541219.95 N 32 3 1	
Drop .75°/100ft	2848.45	10.00	102.29	2825.59	61.99	-59.75	274.20	0.00	382052.26	541228.17 N 32 3 1	
	2900.00	9.61	102.29	2876.39	63.93	-61.62	282.78	0.75	382050.39	541236.75 N 32 3 1	
	3000.00	8.86	102.29	2975.09	67.48	-65.03	298.47	0.75	382046.97	541252.44 N 32 3 1	
Cherry Canyon (CRCN)	3063.63	8.39 8.11	102.29	3038.00	69.59	-67.07	307.79	0.75	382044.94	541261.76 N 32 3 1	
	3100.00 3200.00	7.36	102.29 102.29	3074.00 3173.08	70.74 73.72	-68.18 -71.04	312.89 326.05	0.75 0.75	382043.83 382040.96	541266.86 N 32 3 1 541280.02 N 32 3 0	
	3300.00	6.61	102.29	3272.34	76.40	-73.63	337.94	0.75	382038.37	541291.91 N 32 3 C	
	3400.00	5.86	102.29	3371.75	78.80	-75.95	348.56	0.75	382036.06	541302.52 N 32 3 C	
	3500.00	5.11	102.29	3471.29	80.92	-77.98	357.90	0.75	382034.02		0.92 W 104 11 59.98
	3600.00	4.36	102.29	3570.95	82.74	-79.74	365.98	0.75	382032.26	541319.94 N 32 3 C	
	3700.00	3.61	102.29	3670.70	84.28	-81.22	372.77	0.75	382030.78	541326.74 N 32 3 0	
	3800.00	2.86 2.11	102.29	3770.54	85.53 86.49	-82.43 -83.35	378.29 382.54	0.75	382029.58	541332.26 N 32 3 0	
	3900.00 4000.00	1.36	102.29 102.29	3870.45 3970.40	87.16	-84.00	385.50	0.75 0.75	382028.65 382028.01	541336.50 N 32 3 0 541339.47 N 32 3 0	0.87 W 104 11 59.69
	4100.00	0.61	102.29	4070.38	87.54	-84.37	387.19	0.75	382027.64	541341.16 N 32 3 C	
Hold Vertical	4181.92	0.00	102.29	4152.30	87.64	-84.46	387.62	0.75	382027.55	541341.58 N 32 3 C	
	4200.00	0.00	102.29	4170.38	87.64	-84.46	387.62	0.00	382027.55	541341.58 N 32 3 C	
Brushy Canyon (BCN)	4237.62	0.00	102.29	4208.00	87.64	-84.46	387.62	0.00	382027.55	541341.58 N 32 3 0	
	4300.00 4400.00	0.00 0.00	102.29 102.29	4270.38 4370.38	87.64 87.64	-84.46 -84.46	387.62 387.62	0.00	382027.55 382027.55	541341.58 N 32 3 C 541341.58 N 32 3 C	
	4500.00	0.00	102.29	4470.38	87.64	-84.46	387.62	0.00	382027.55	541341.58 N 32 3 C	
	4600.00	0.00	102.29	4570.38	87.64	-84.46	387.62	0.00	382027.55	541341.58 N 32 3 C	
	4700.00	0.00	102.29	4670.38	87.64	-84.46	387.62	0.00	382027.55	541341.58 N 32 3 C	0.86 W 104 11 59.63
	4800.00	0.00	102.29	4770.38	87.64	-84.46	387.62	0.00	382027.55		0.86 W 104 11 59.63
	4900.00	0.00	102.29	4870.38	87.64	-84.46	387.62	0.00	382027.55		0.86 W 104 11 59.63
	5000.00 5100.00	0.00 0.00	102.29 102.29	4970.38 5070.38	87.64 87.64	-84.46 -84.46	387.62 387.62	0.00	382027.55 382027.55	541341.58 N 32 3 C 541341.58 N 32 3 C	0.86 W 104 11 59.63 0.86 W 104 11 59.63
	5200.00	0.00	102.29	5170.38	87.64	-84.46	387.62	0.00	382027.55		0.86 W 104 11 59.63
	5300.00	0.00	102.29	5270.38	87.64	-84.46	387.62	0.00	382027.55		0.86 W 104 11 59.63
	5400.00	0.00	102.29	5370.38	87.64	-84.46	387.62	0.00	382027.55	541341.58 N 32 3 0	
	5500.00	0.00	102.29	5470.38	87.64	-84.46	387.62	0.00	382027.55	541341.58 N 32 3 C	
	5600.00	0.00	102.29	5570.38	87.64	-84.46	387.62	0.00	382027.55	541341.58 N 32 3 C	
	5700.00 5800.00	0.00 0.00	102.29 102.29	5670.38 5770.38	87.64 87.64	-84.46 -84.46	387.62 387.62	0.00	382027.55 382027.55	541341.58 N 32 3 C 541341.58 N 32 3 C	
Bone Spring Lime (BSGL)	5831.62	0.00	102.29	5802.00	87.64	-84.46	387.62	0.00	382027.55	541341.58 N 32 3 0	
(/	5900.00	0.00	102.29	5870.38	87.64	-84.46	387.62	0.00	382027.55	541341.58 N 32 3 0	
Avalon Upper (AVU)	5924.62	0.00	102.29	5895.00	87.64	-84.46	387.62	0.00	382027.55	541341.58 N 32 3 0	
	6000.00	0.00	102.29	5970.38	87.64	-84.46	387.62	0.00	382027.55	541341.58 N 32 3 C	0.86 W 104 11 59.63
	6100.00	0.00	102.29	6070.38	87.64	-84.46	387.62	0.00	382027.55	541341.58 N 32 3 0	
	6200.00	0.00	102.29	6170.38	87.64	-84.46	387.62	0.00	382027.55		0.86 W 104 11 59.63
Avalon Lower (AVL)	6300.00 6399.62	0.00 0.00	102.29 102.29	6270.38 6370.00	87.64 87.64	-84.46 -84.46	387.62 387.62	0.00 0.00	382027.55 382027.55	541341.58 N 32 3 0 541341.58 N 32 3 0	
AVAIOTI LOWET (AVL)	6400.00	0.00	102.29	6370.00	87.64 87.64	-84.46 -84.46	387.62	0.00	382027.55	541341.58 N 32 3 0	
	6500.00	0.00	102.29	6470.38	87.64	-84.46	387.62	0.00	382027.55		0.86 W 104 11 59.63
	6600.00	0.00	102.29	6570.38	87.64	-84.46	387.62	0.00	382027.55	541341.58 N 32 3 C	
	6700.00	0.00	102.29	6670.38	87.64	-84.46	387.62	0.00	382027.55	541341.58 N 32 3 0	
First Bone Spring Upper (FBU)	6719.62	0.00	102.29	6690.00	87.64	-84.46	387.62	0.00	382027.55	541341.58 N 32 3 0	
	6800.00	0.00	102.29	6770.38	87.64	-84.46	387.62	0.00	382027.55	541341.58 N 32 3 C	
	6900.00	0.00	102.29	6870.38	87.64	-84.46	387.62	0.00	382027.55	541341.58 N 32 3 C	.oo vv 104 11 59.63

...RYE ONE 16 21 FED STATE COM P40 2H/RYE ONE 16 21 FED STATE COM P40 2H R0 mdv 05Apr22

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 ° ' ")
First Bone Spring Lower (FBL)	6912.62	0.00	102.29	6883.00	87.64	-84.46	387.62	0.00	382027.55	541341.58 N 32 3 0.86 W 104 11 59.63
	7000.00 7100.00	0.00 0.00	102.29 102.29	6970.38 7070.38	87.64 87.64	-84.46 -84.46	387.62 387.62	0.00 0.00	382027.55 382027.55	541341.58 N 32 3 0.86 W 104 11 59.63 541341.58 N 32 3 0.86 W 104 11 59.63
Second Bone Spring Upper (SBU)	7200.00 7242.62	0.00 0.00	102.29 102.29	7170.38 7213.00	87.64 87.64	-84.46 -84.46	387.62 387.62	0.00 0.00	382027.55 382027.55	541341.58 N 32 3 0.86 W 104 11 59.63 541341.58 N 32 3 0.86 W 104 11 59.63
coomic Bank opining oppor (GBC)	7300.00	0.00	102.29	7270.38	87.64	-84.46	387.62	0.00	382027.55	541341.58 N 32 3 0.86 W 104 11 59.63
	7400.00 7500.00	0.00 0.00	102.29 102.29	7370.38 7470.38	87.64 87.64	-84.46 -84.46	387.62 387.62	0.00	382027.55 382027.55	541341.58 N 32 3 0.86 W 104 11 59.63 541341.58 N 32 3 0.86 W 104 11 59.63
	7600.00 7700.00	0.00 0.00	102.29 102.29	7570.38 7670.38	87.64 87.64	-84.46 -84.46	387.62 387.62	0.00 0.00	382027.55 382027.55	541341.58 N 32 3 0.86 W 104 11 59.63 541341.58 N 32 3 0.86 W 104 11 59.63
Second Bone Spring Lower (SBL)	7700.00 7715.62	0.00	102.29	7670.38	87.64 87.64	-84.46 -84.46	387.62 387.62	0.00	382027.55	541341.58 N 32 3 0.86 W 104 11 59.63 541341.58 N 32 3 0.86 W 104 11 59.63
	7800.00 7900.00	0.00 0.00	102.29 102.29	7770.38 7870.38	87.64 87.64	-84.46 -84.46	387.62 387.62	0.00 0.00	382027.55 382027.55	541341.58 N 32 3 0.86 W 104 11 59.63 541341.58 N 32 3 0.86 W 104 11 59.63
	8000.00	0.00	102.29	7970.38	87.64	-84.46	387.62	0.00	382027.55	541341.58 N 32 3 0.86 W 104 11 59.63
	8100.00 8200.00	0.00 0.00	102.29 102.29	8070.38 8170.38	87.64 87.64	-84.46 -84.46	387.62 387.62	0.00	382027.55 382027.55	541341.58 N 32 3 0.86 W 104 11 59.63 541341.58 N 32 3 0.86 W 104 11 59.63
	8300.00	0.00	102.29	8270.38	87.64	-84.46	387.62	0.00	382027.55	541341.58 N 32 3 0.86 W 104 11 59.63
TB1C	8342.62 8400.00	0.00 0.00	102.29 102.29	8313.00 8370.38	87.64 87.64	-84.46 -84.46	387.62 387.62	0.00 0.00	382027.55 382027.55	541341.58 N 32 3 0.86 W 104 11 59.63 541341.58 N 32 3 0.86 W 104 11 59.63
Duil 4 40% (4 00%	8500.00	0.00	102.29	8470.38	87.64	-84.46	387.62	0.00	382027.55	541341.58 N 32 3 0.86 W 104 11 59.63
Build 10°/100ft Third Bone Spring	8510.92 8580.79	0.00 6.99	102.29 179.46	8481.30 8551.00	87.64 91.89	-84.46 -88.72	387.62 387.66	0.00 10.00	382027.55 382023.29	541341.58 N 32 3 0.86 W 104 11 59.63 541341.62 N 32 3 0.82 W 104 11 59.63
	8600.00	8.91	179.46	8570.02	94.55	-91.37	387.69	10.00 10.00	382020.64 381996.63	541341.65 N 32 3 0.79 W 104 11 59.63 541341.88 N 32 3 0.55 W 104 11 59.63
	8700.00 8800.00	18.91 28.91	179.46 179.46	8666.97 8758.27	118.55 159.03	-115.38 -155.85	387.91 388.29	10.00	381956.16	541341.88 N 32 3 0.55 W 104 11 59.63 541342.26 N 32 3 0.15 W 104 11 59.63
Wolfcamp A	8900.00 8977.50	38.91 46.66	179.46 179.46	8841.16 8898.00	214.75 267.35	-211.56 -264.16	388.82 389.31	10.00 10.00	381900.46 381847.86	541342.78 N 32 2 59.60 W 104 11 59.62 541343.28 N 32 2 59.08 W 104 11 59.62
vvoicamp A	9000.00	48.91	179.46	8913.11	284.01	-280.82	389.47	10.00	381831.20	541343.43 N 32 2 58.92 W 104 11 59.62
	9100.00 9200.00	58.91 68.91	179.46 179.46	8971.95 9015.87	364.71 454.41	-361.52 -451.22	390.23 391.07	10.00 10.00	381750.51 381660.83	541344.19 N 32 2 58.12 W 104 11 59.61 541345.04 N 32 2 57.23 W 104 11 59.60
	9300.00	78.91	179.46	9043.56	550.37	-547.17	391.98	10.00	381564.88	541345.94 N 32 2 56.28 W 104 11 59.59
WCA_TGT4	9393.73 9400.00	88.28 88.91	179.46 179.46	9054.00 9054.15	643.41 649.68	-640.21 -646.48	392.85 392.91	10.00 10.00	381471.85 381465.58	541346.82 N 32 2 55.36 W 104 11 59.58 541346.88 N 32 2 55.30 W 104 11 59.58
Landing Point	9413.53	90.26	179.46	9054.25	663.21	-660.00	393.04	10.00	381452.06	541347.01 N 32 2 55.16 W 104 11 59.58
FTP Cross WCA_TGT4	9413.59 9468.76	90.26 90.26	179.46 179.46	9054.25 9054.00	663.26 718.44	-660.06 -715.23	393.04 393.56	0.00 0.00	381452.00 381396.83	541347.01 N 32 2 55.16 W 104 11 59.58 541347.53 N 32 2 54.62 W 104 11 59.57
	9500.00	90.26	179.46	9053.86	749.68	-746.47	393.86	0.00	381365.60	541347.82 N 32 2 54.31 W 104 11 59.57
	9600.00 9700.00	90.26 90.26	179.46 179.46	9053.40 9052.95	849.67 949.67	-846.46 -946.46	394.80 395.74	0.00	381265.61 381165.63	541348.76 N 32 2 53.32 W 104 11 59.56 541349.70 N 32 2 52.33 W 104 11 59.55
	9800.00	90.26	179.46	9052.49	1049.67	-1046.45	396.68	0.00	381065.64	541350.65 N 32 2 51.34 W 104 11 59.54
	9900.00 10000.00	90.26 90.26	179.46 179.46	9052.03 9051.58	1149.67 1249.67	-1146.45 -1246.44	397.62 398.57	0.00	380965.66 380865.67	541351.59 N 32 2 50.35 W 104 11 59.53 541352.53 N 32 2 49.36 W 104 11 59.52
	10100.00	90.26	179.46	9051.12	1349.67	-1346.44	399.51	0.00	380765.69	541353.47 N 32 248.37 W 104 11 59.51
	10200.00 10300.00	90.26 90.26	179.46 179.46	9050.67 9050.21	1449.67 1549.67	-1446.43 -1546.43	400.45 401.39	0.00	380665.70 380565.71	541354.41 N 32 2 47.38 W 104 11 59.50 541355.35 N 32 2 46.39 W 104 11 59.50
	10400.00	90.26	179.46	9049.75	1649.67	-1646.42	402.33	0.00	380465.73	541356.30 N 32 2 45.40 W 104 11 59.49
	10500.00 10600.00	90.26 90.26	179.46 179.46	9049.30 9048.84	1749.66 1849.66	-1746.42 -1846.41	403.27 404.22	0.00	380365.74 380265.76	541357.24 N 32 2 44.41 W 104 11 59.48 541358.18 N 32 2 43.42 W 104 11 59.47
	10700.00	90.26	179.46	9048.39	1949.66	-1946.40	405.16	0.00	380165.77	541359.12 N 32 242.43 W 104 11 59.46
	10800.00 10900.00	90.26 90.26	179.46 179.46	9047.93 9047.47	2049.66 2149.66	-2046.40 -2146.39	406.10 407.04	0.00 0.00	380065.79 379965.80	541360.06 N 32 2 41.44 W 104 11 59.45 541361.01 N 32 2 40.45 W 104 11 59.44
	11000.00	90.26	179.46	9047.02	2249.66	-2246.39	407.98	0.00	379865.82	541361.95 N 32 2 39.46 W 104 11 59.43
	11100.00 11200.00	90.26 90.26	179.46 179.46	9046.56 9046.11	2349.66 2449.66	-2346.38 -2446.38	408.93 409.87	0.00	379765.83 379665.85	541362.89 N 32 2 38.47 W 104 11 59.42 541363.83 N 32 2 37.49 W 104 11 59.41
	11300.00	90.26	179.46	9045.65	2549.66	-2546.37	410.81	0.00	379565.86	541364.77 N 32 2 36.50 W 104 11 59.40
	11400.00 11500.00	90.26 90.26	179.46 179.46	9045.19 9044.74	2649.65 2749.65	-2646.37 -2746.36	411.75 412.69	0.00	379465.87 379365.89	541365.71 N 32 2 35.51 W 104 11 59.39 541366.66 N 32 2 34.52 W 104 11 59.38
	11600.00	90.26	179.46	9044.28	2849.65	-2846.35	413.64	0.00	379265.90	541367.60 N 32 2 33.53 W 104 11 59.37
	11700.00 11800.00	90.26 90.26	179.46 179.46	9043.83 9043.37	2949.65 3049.65	-2946.35 -3046.34	414.58 415.52	0.00 0.00	379165.92 379065.93	541368.54 N 32 2 32.54 W 104 11 59.36 541369.48 N 32 2 31.55 W 104 11 59.35
	11900.00	90.26 90.26	179.46 179.46	9042.91	3149.65	-3146.34 -3246.33	416.46 417.40	0.00 0.00	378965.95 378865.96	541370.42 N 32 2 30.56 W 104 11 59.34 541371.37 N 32 2 29.57 W 104 11 59.33
	12000.00 12100.00	90.26	179.46	9042.46 9042.00	3249.65 3349.65	-3346.33	418.35	0.00	378765.98	541372.31 N 32 2 28.58 W 104 11 59.32
	12200.00 12300.00	90.26 90.26	179.46 179.46	9041.55 9041.09	3449.65 3549.64	-3446.32 -3546.32	419.29 420.23	0.00 0.00	378665.99 378566.01	541373.25 N 32 2 27.59 W 104 11 59.31 541374.19 N 32 2 26.60 W 104 11 59.30
	12400.00	90.26	179.46	9040.63	3649.64	-3646.31	421.17	0.00	378466.02	541375.13 N 32 2 25.61 W 104 11 59.30
	12500.00 12600.00	90.26 90.26	179.46 179.46	9040.18 9039.72	3749.64 3849.64	-3746.31 -3846.30	422.11 423.05	0.00 0.00	378366.04 378266.05	541376.07 N 32 2 24.62 W 104 11 59.29 541377.02 N 32 2 23.63 W 104 11 59.28
	12700.00	90.26	179.46	9039.27	3949.64	-3946.29	424.00	0.00	378166.06	541377.96 N 32 2 22.64 W 104 11 59.27
	12800.00 12900.00	90.26 90.26	179.46 179.46	9038.81 9038.35	4049.64 4149.64	-4046.29 -4146.28	424.94 425.88	0.00 0.00	378066.08 377966.09	541378.90 N 32 2 21.65 W 104 11 59.26 541379.84 N 32 2 20.66 W 104 11 59.25
	13000.00	90.26	179.46	9037.90	4249.64	-4246.28	426.82	0.00	377866.11	541380.78 N 32 2 19.67 W 104 11 59.24
	13100.00 13200.00	90.26 90.26	179.46 179.46	9037.44 9036.99	4349.64 4449.63	-4346.27 -4446.27	427.76 428.71	0.00 0.00	377766.12 377666.14	541381.73 N 32 2 18.68 W 104 11 59.23 541382.67 N 32 2 17.69 W 104 11 59.22
	13300.00	90.26	179.46	9036.53	4549.63	-4546.26	429.65	0.00	377566.15	541383.61 N 32 2 16.71 W 104 11 59.21
	13400.00 13500.00	90.26 90.26	179.46 179.46	9036.07 9035.62	4649.63 4749.63	-4646.26 -4746.25	430.59 431.53	0.00 0.00	377466.17 377366.18	541384.55 N 32 2 15.72 W 104 11 59.20 541385.49 N 32 2 14.73 W 104 11 59.19
	13600.00	90.26	179.46	9035.16	4849.63	-4846.25	432.47	0.00	377266.20	541386.43 N 32 2 13.74 W 104 11 59.18
	13700.00 13800.00	90.26 90.26	179.46 179.46	9034.71 9034.25	4949.63 5049.63	-4946.24 -5046.23	433.42 434.36	0.00 0.00	377166.21 377066.22	541387.38 N 32 2 12.75 W 104 11 59.17 541388.32 N 32 2 11.76 W 104 11 59.16
	13900.00	90.26	179.46	9033.79	5149.63	-5146.23	435.30	0.00	376966.24	541389.26 N 32 2 10.77 W 104 11 59.15
	14000.00 14100.00	90.26 90.26	179.46 179.46	9033.34 9032.88	5249.63 5349.62	-5246.22 -5346.22	436.24 437.18	0.00 0.00	376866.25 376766.27	541390.20 N 32 2 9.78 W 104 11 59.14 541391.14 N 32 2 8.79 W 104 11 59.13
	14200.00	90.26	179.46	9032.43	5449.62	-5446.21	438.13	0.00	376666.28	541392.09 N 32 2 7.80 W 104 11 59.12 541393.03 N 32 2 6.81 W 104 11 59.11
	14300.00 14400.00	90.26 90.26	179.46 179.46	9031.97 9031.52	5549.62 5649.62	-5546.21 -5646.20	439.07 440.01	0.00	376566.30 376466.31	541393.03 N 32 2 6.81 W 104 11 59.11 541393.97 N 32 2 5.82 W 104 11 59.11
MP, Turn 2°/100ft	14403.31	90.26	179.46	9031.50	5652.93	-5649.51	440.04	0.00	376463.00	541394.00 N 32 2 5.79 W 104 11 59.10
Hold	14410.19 14500.00	90.26 90.26	179.60 179.60	9031.47 9031.05	5659.81 5749.62	-5656.39 -5746.20	440.10 440.73	2.00 0.00	376456.12 376366.32	541394.06 N 32 2 5.72 W 104 11 59.10 541394.69 N 32 2 4.83 W 104 11 59.10
	14600.00	90.26	179.60	9030.59	5849.62	-5846.19	441.43	0.00	376266.34	541395.39 N 32 2 3.84 W 104 11 59.09
	14700.00 14800.00	90.26 90.26	179.60 179.60	9030.13 9029.67	5949.62 6049.62	-5946.19 -6046.19	442.13 442.83	0.00 0.00	376166.35 376066.36	541396.09 N 32 2 2.85 W 104 11 59.08 541396.79 N 32 2 1.86 W 104 11 59.08
	14900.00	90.26	179.60	9029.20	6149.62	-6146.18	443.53	0.00	375966.38	541397.49 N 32 2 0.87 W 104 11 59.07
	15000.00 15100.00	90.26 90.26	179.60 179.60	9028.74 9028.28	6249.61 6349.61	-6246.18 -6346.18	444.24 444.94	0.00 0.00	375866.39 375766.40	541398.20 N 32 1 59.88 W 104 11 59.06 541398.90 N 32 1 58.89 W 104 11 59.06
	15200.00	90.26	179.60	9027.82	6449.61	-6446.17 -6546.17	445.64 446.34	0.00	375666.41	541399.60 N 32 1 57.90 W 104 11 59.05 541400.30 N 32 1 56.91 W 104 11 59.05
	15300.00 15400.00	90.26 90.26	179.60 179.60	9027.35 9026.89	6549.61 6649.61	-6646.17	447.04	0.00 0.00	375566.43 375466.44	541401.00 N 32 1 56.91 W 104 11 59.04 541401.00 N 32 1 55.92 W 104 11 59.04
	15500.00	90.26	179.60	9026.43	6749.61	-6746.16	447.75	0.00	375366.45	541401.71 N 32 1 54.94 W 104 11 59.03
	15600.00 15700.00	90.26 90.26	179.60 179.60	9025.97 9025.50	6849.61 6949.61	-6846.16 -6946.16	448.45 449.15	0.00 0.00	375266.46 375166.48	541402.41 N 32 1 53.95 W 104 11 59.02 541403.11 N 32 1 52.96 W 104 11 59.02
	15800.00	90.26	179.60	9025.04	7049.61	-7046.15	449.85	0.00	375066.49	541403.81 N 32 1 51.97 W 104 11 59.01
	15900.00 16000.00	90.26 90.26	179.60 179.60	9024.58 9024.12	7149.60 7249.60	-7146.15 -7246.15	450.55 451.26	0.00 0.00	374966.50 374866.51	541404.51 N 32 1 50.98 W 104 11 59.00 541405.21 N 32 1 49.99 W 104 11 59.00
	16100.00	90.26	179.60	9023.66	7349.60	-7346.14	451.96	0.00	374766.53	541405.92 N 32 1 49.00 W 104 11 58.99
	16200.00 16300.00	90.26 90.26	179.60 179.60	9023.19 9022.73	7449.60 7549.60	-7446.14 -7546.13	452.66 453.36	0.00 0.00	374666.54 374566.55	541406.62 N 32 1 48.01 W 104 11 58.98 541407.32 N 32 1 47.02 W 104 11 58.98
	16400.00 16500.00	90.26 90.26	179.60 179.60	9022.27 9021.81	7649.60 7749.60	-7646.13 -7746.13	454.06 454.77	0.00 0.00	374466.56 374366.58	541408.02 N 32 1 46.03 W 104 11 58.97 541408.72 N 32 1 45.04 W 104 11 58.96

Comments	MD	Incl	Azim Grid	TVD	VSEC	NS	EW	DLS	Northing	Easting Latitude	Longitude
Comments	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(ftUS)	(ftUS) (N/S ° ' ")	(E/W ° ' ")
	16600.00	90.26	179.60	9021.34	7849.60	-7846.12	455.47	0.00	374266.59	541409.43 N 32 1 44.05 W	
	16700.00	90.26	179.60	9020.88	7949.59	-7946.12	456.17	0.00	374166.60	541410.13 N 32 1 43.06 W	
	16800.00	90.26	179.60	9020.42	8049.59	-8046.12	456.87	0.00	374066.62	541410.83 N 32 1 42.07 W	
	16900.00	90.26	179.60	9019.96	8149.59	-8146.11	457.57	0.00	373966.63	541411.53 N 32 1 41.08 W	
	17000.00	90.26	179.60	9019.49	8249.59	-8246.11	458.27	0.00	373866.64	541412.23 N 32 1 40.09 W	
	17100.00	90.26	179.60	9019.03	8349.59	-8346.11	458.98	0.00	373766.65	541412.93 N 32 1 39.10 W	
	17200.00	90.26	179.60	9018.57	8449.59	-8446.10	459.68	0.00	373666.67	541413.64 N 32 1 38.11 W	
	17300.00	90.26	179.60	9018.11	8549.59	-8546.10	460.38	0.00	373566.68	541414.34 N 32 1 37.12 W	/ 104 11 58.91
	17400.00	90.26	179.60	9017.64	8649.59	-8646.10	461.08	0.00	373466.69	541415.04 N 32 1 36.13 W	/ 104 11 58.90
	17500.00	90.26	179.60	9017.18	8749.59	-8746.09	461.78	0.00	373366.70	541415.74 N 32 1 35.14 W	/ 104 11 58.90
	17600.00	90.26	179.60	9016.72	8849.58	-8846.09	462.49	0.00	373266.72	541416.44 N 32 1 34.15 W	/ 104 11 58.89
	17700.00	90.26	179.60	9016.26	8949.58	-8946.08	463.19	0.00	373166.73	541417.15 N 32 1 33.17 W	/ 104 11 58.88
	17800.00	90.26	179.60	9015.79	9049.58	-9046.08	463.89	0.00	373066.74	541417.85 N 32 1 32.18 W	/ 104 11 58.88
	17900.00	90.26	179.60	9015.33	9149.58	-9146.08	464.59	0.00	372966.75	541418.55 N 32 1 31.19 W	/ 104 11 58.87
	18000.00	90.26	179.60	9014.87	9249.58	-9246.07	465.29	0.00	372866.77	541419.25 N 32 1 30.20 W	/ 104 11 58.86
	18100.00	90.26	179.60	9014.41	9349.58	-9346.07	466.00	0.00	372766.78	541419.95 N 32 1 29.21 W	/ 104 11 58.86
	18200.00	90.26	179.60	9013.95	9449.58	-9446.07	466.70	0.00	372666.79	541420.66 N 32 1 28.22 W	/ 104 11 58.85
	18300.00	90.26	179.60	9013.48	9549.58	-9546.06	467.40	0.00	372566.80	541421.36 N 32 1 27.23 W	/ 104 11 58.84
	18400.00	90.26	179.60	9013.02	9649.58	-9646.06	468.10	0.00	372466.82	541422.06 N 32 1 26.24 W	/ 104 11 58.84
	18500.00	90.26	179.60	9012.56	9749.57	-9746.06	468.80	0.00	372366.83	541422.76 N 32 1 25.25 W	/ 104 11 58.83
	18600.00	90.26	179.60	9012.10	9849.57	-9846.05	469.51	0.00	372266.84	541423.46 N 32 1 24.26 W	/ 104 11 58.82
	18700.00	90.26	179.60	9011.63	9949.57	-9946.05	470.21	0.00	372166.86	541424.16 N 32 1 23.27 W	/ 104 11 58.82
	18800.00	90.26	179.60	9011.17	10049.57	-10046.05	470.91	0.00	372066.87	541424.87 N 32 1 22.28 W	/ 104 11 58.81
	18900.00	90.26	179.60	9010.71	10149.57	-10146.04	471.61	0.00	371966.88	541425.57 N 32 1 21.29 W	/ 104 11 58.80
	19000.00	90.26	179.60	9010.25	10249.57	-10246.04	472.31	0.00	371866.89	541426.27 N 32 1 20.30 W	/ 104 11 58.80
	19100.00	90.26	179.60	9009.78	10349.57	-10346.04	473.01	0.00	371766.91	541426.97 N 32 1 19.31 W	/ 104 11 58.79
	19200.00	90.26	179.60	9009.32	10449.57	-10446.03	473.72	0.00	371666.92	541427.67 N 32 1 18.32 W	/ 104 11 58.78
	19300.00	90.26	179.60	9008.86	10549.57	-10546.03	474.42	0.00	371566.93	541428.38 N 32 1 17.33 W	/ 104 11 58.78
LTP Cross	19393.94	90.26	179.60	9008.42	10643.51	-10639.97	475.08	0.00	371473.00	541429.03 N 32 1 16.40 W	/ 104 11 58.77
	19400.00	90.26	179.60	9008.40	10649.56	-10646.02	475.12	0.00	371466.94	541429.08 N 32 1 16.34 W	/ 104 11 58.77
	19500.00	90.26	179.60	9007.93	10749.56	-10746.02	475.82	0.00	371366.96	541429.78 N 32 1 15.35 W	/ 104 11 58.76
	19600.00	90.26	179.60	9007.47	10849.56	-10846.02	476.52	0.00	371266.97	541430.48 N 32 1 14.36 W	/ 104 11 58.76
RYE ONE 16 21 FED STATE COM P40 2H BHL	19673.98	90.26	179.60	9007.13	10923.54	-10919.99	477.04	0.00	371193.00	541431.00 N 32 1 13.63 W	/ 104 11 58.75

Survey Type:

Def Plan

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

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size Casir (in)	ng Diameter (in)	Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	28.000	1/100.000	30.000	30.000		B001Mb_MWD+HRGM-Depth Only	RYE ONE 16 21 FED STATE COM P40 2H / RYE ONE 16 21 FED STATE COM P40 2H R0
	1	28.000	19673.978	1/100.000	30.000	30.000		B001Mb_MWD+HRGM	RYE ONE 16 21 FED STATE COM P40 2H / RYE ONE 16 21

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Chevron
LEASE NO.: NMNM100549
LOCATION: Section 9, T.26 S., R.27 E., NMPM
COUNTY: Eddy County, New Mexico

WELL NAME & NO.: Rye One 16 21 Fed State Com P40 2H
SURFACE HOLE FOOTAGE: 324'/S & 655'/W
BOTTOM HOLE FOOTAGE 50'/S & 1040'/W

COA

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

#### A. HYDROGEN SULFIDE

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

#### **B. CASING**

- 1. The 13-3/8 inch surface casing shall be set at approximately 450 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **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.

## Operator is approved to use contingency cementing program for intermediate and production section.

- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst 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 7 inch production casing is:
  - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
- 4. The minimum required fill of cement behind the 5x 4-1/2 inch production liner is:
  - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

#### C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
  - 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000** (**5M**) psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

#### D. SPECIAL REQUIREMENT (S)

#### **Communitization Agreement**

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

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

- BOPE Break Testing is ONLY permitted for 5M BOPE or less.
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required.
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.

## GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
  - ☑ Eddy CountyCall the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
  - ✓ Lea CountyCall 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 2<sup>nd</sup> 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 cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
- 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 cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to 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.

ZS04112023



## **Training**

MCBU Drilling and Completions H<sub>2</sub>S 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<sub>2</sub>S.

#### **Awareness Level**

Employees and visitors to MCBU Drilling and Completions locations that have known concentrations of H<sub>2</sub>S, who are not required to perform work in H<sub>2</sub>S areas, will be provided with an awareness level of H<sub>2</sub>S training prior to entering any H<sub>2</sub>S areas. At a minimum, awareness level training will include:

- 1. Physical and chemical properties of H<sub>2</sub>S
- 2. Health hazards of H<sub>2</sub>S
- 3. Personal protective equipment
- 4. Information regarding potential sources of H<sub>2</sub>S
- 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 H<sub>2</sub>S Training

Employees and contractors required to work in areas that may contain H<sub>2</sub>S will be provided with Advanced Level H<sub>2</sub>S training prior to initial assignment. In addition to the Awareness Level requirements, Advanced Level H<sub>2</sub>S training will include:

- 1. H<sub>2</sub>S safe work practice procedures;
- 2. Emergency contingency plan procedures;
- 3. Methods to detect the presence or release of H<sub>2</sub>S (e.g., alarms, monitoring equipment), including hands-on training with direct reading and personal monitoring H<sub>2</sub>S equipment.
- 4. Basic overview of respiratory protective equipment suitable for use in H<sub>2</sub>S 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 H<sub>2</sub>S training;
- 6. Proficiency examination covering all course material.

Advanced H<sub>2</sub>S training courses will be instructed by personnel who have successfully completed an appropriate H<sub>2</sub>S train-the-trainer development course (ANSI/ASSE Z390.1-2006) or who possess significant past experience through educational or work-related background.



## H<sub>2</sub>S 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.

## H<sub>2</sub>S 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.

## H<sub>2</sub>S Detection and Monitoring System

- a) H<sub>2</sub>S 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

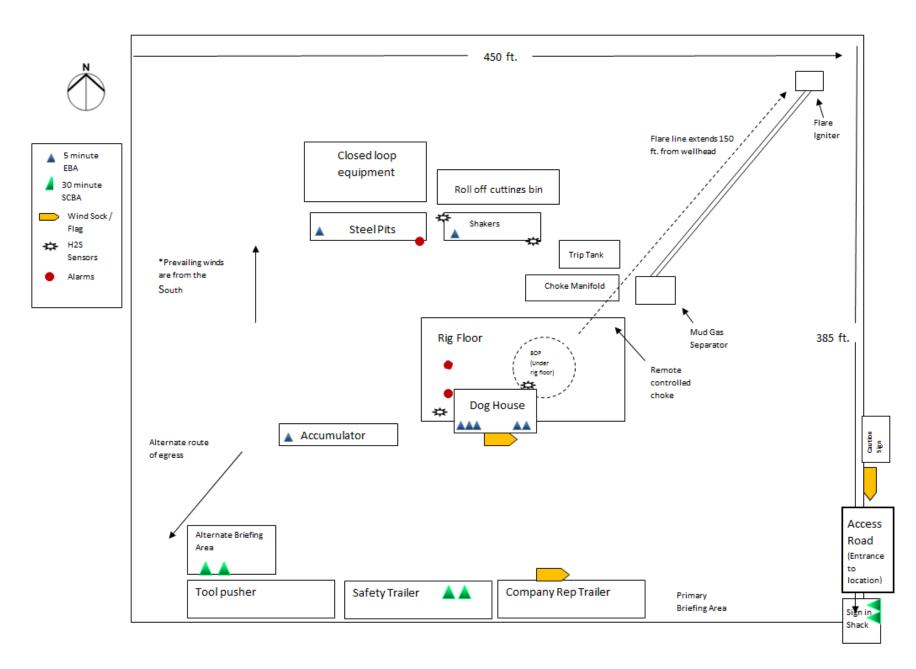


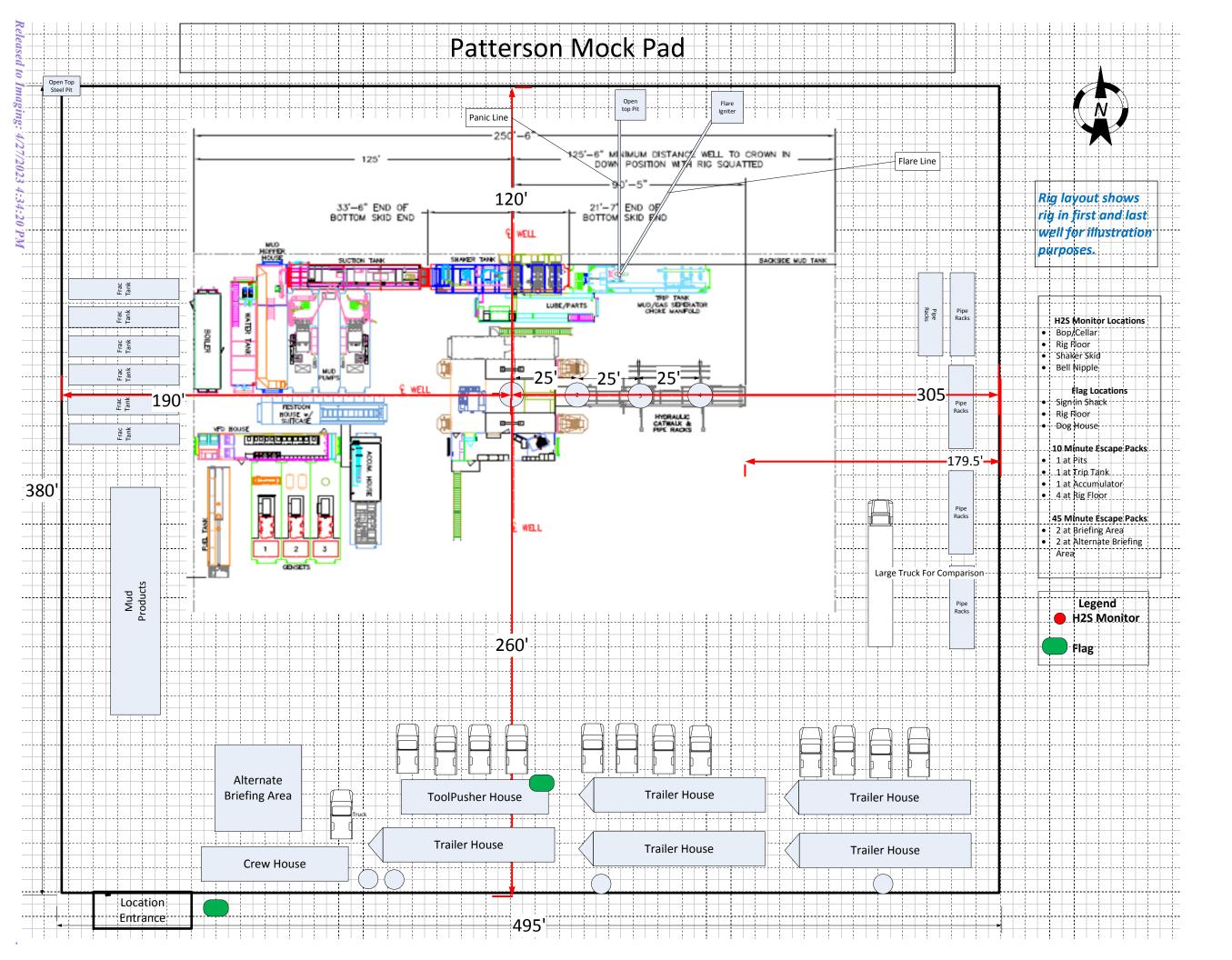
## **Chevron MCBU D&C Emergency Notifications**

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 <sup>-</sup>	t	As Dril	led									
API#												
Ope	rator Nai	me:				Property N		Well Number				
Kick C	Off Point	(KOP)										
UL	Section	Township	Range	Lot	Feet	From N	1/S	Feet	Fro	om E/W	County	
Latitu	ıde			Longitude NAD								
UL	Section	t (FTP)	Range	Lot	Feet	From N	1/S	Feet	Fro	om E/W	County	
Latitu	Latitude Longitude NAD											
Last T UL Latitu	Section	t (LTP) Township	Range	Lot	Feet Longitu	From N/S	Feet		From E/W	Coun	ty	
					Longico					, with		
s this	well the	defining w	vell for th	e Hori	zontal Տլ	pacing Unit?			]			
s this	well an	infill well?										
	l is yes p ng Unit.	lease provi	de API if	availal	ole, Ope	rator Name	and v	vell nu	umber fo	r Defini	ng well fo	or Horizontal
API#												
Ope	rator Nai	me:	ı			Property N	lame					Well Number

KZ 06/29/2018



APD ID: 10400086009

## U.S. Department of the Interior

## Drilling Plan Data Report 04/18/2023

BUREAU OF LAND MANAGEMENT

Submission Date: 06/13/2022

Highlighted data reflects the most recent changes

Operator Name: CHEVRON USA INCORPORATED

Well Number: 2H

Well Name: RYE ONE 16 21 FED STATE COM P40

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

**Show Final Text** 

#### **Section 1 - Geologic Formations**

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
8726034	CASTILE	3282	440	440	ANHYDRITE, SALT	NONE	N
8726037	LAMAR	1147	2135	2175	LIMESTONE, SHALE	NONE	N
8726036	BELL CANYON	1115	2167	2206	LIMESTONE, SANDSTONE	NONE	N
8726038	CHERRY CANYON	272	3010	3055	LIMESTONE, SANDSTONE, SILTSTONE	NONE	N
8726039	BRUSHY CANYON	-898	4180	4219	LIMESTONE, SANDSTONE, SILTSTONE	NONE	N
8726040	BONE SPRING LIME	-2492	5774	5814	SHALE, SILTSTONE	NONE	N
8726041	UPPER AVALON SHALE	-2585	5867	5912	SHALE	NONE	N
8726042	BONE SPRING 1ST	-3380	6662	6901	SANDSTONE, SHALE	NATURAL GAS, OIL	N
8726043	BONE SPRING 2ND	-3903	7185	7703	SANDSTONE, SHALE	NATURAL GAS, OIL	N
8726044	BONE SPRING 3RD	-5241	8523	8570	SANDSTONE, SHALE	NATURAL GAS, OIL	N
8726047	WOLFCAMP	-5588	8870	8927	SANDSTONE, SHALE	NATURAL GAS, OIL	Y

#### **Section 2 - Blowout Prevention**

Pressure Rating (PSI): 5M Rating Depth: 9054

**Equipment:** Chevron will have a minimum of a 5,000 psi rig stack for drill out below surface casing.

Requesting Variance? YES

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

## **BLOWOUT PREVENTER SCHEMATIC**

Operation: **Intermediate & Production Drilling Operations** 

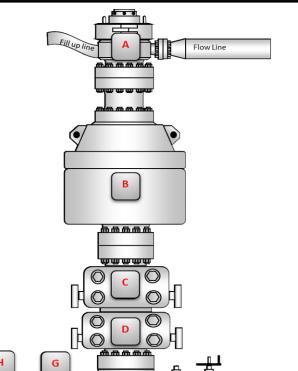
#### **BOP Stack Pressure Part** Size Description Rating 13-5/8" N/A Rotating Head/Bell nipple 13-5/8" 5,000 Annular В 13-5/8" C 10,000 Blind Ram

Minimum System operation pressure

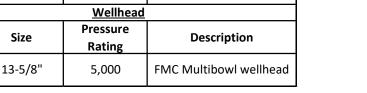
13-5/8" 10,000 D Pipe Ram Ē 13-5/8" 10,000 **Mud Cross** F 13-5/8" 10,000 Pipe Ram Kill Line

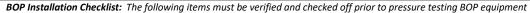
<u> </u>						
Part	Size	Pressure	Description			
Part	Size	Rating				
G	2"	10,000	Inside Kill Line Valve (gate			
G	2	10,000	valve)			
н	2"	10,000	Outside Kill Line Valve			
п	2	10,000	(gate valve)			
I	2"	10,000	Kill Line Check valve			





<u>Choke line</u>					
Part Size Pressure	Pressure	Description			
rait	Size	Rating	Description		
٦	3"	10,000	HCR (gate valve)		
K	3"	10,000	Manual HCR (gate valve)		
<u>Wellhead</u>					
Part	Size	Pressure	Description		
		Rating			





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.

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 209298

#### **CONDITIONS**

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	209298
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

#### CONDITIONS

Created By	Condition	Condition Date
john.harrison	Notify OCD 24 hours prior to casing & cement	
john.harrison	Will require a File As Drilled C-102 and a Directional Survey with the C-104	4/27/2023
john.harrison	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	4/27/2023
john.harrison	Cement is required to circulate on both surface and intermediate1 strings of casing	4/27/2023
john.harrison	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	4/27/2023