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. 30-015-54329 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) Name (Printed/Typed) Date 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

APPROVED WITH CONDITIONS

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

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

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

640

1 API Number

**INFILL** 

# 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

Pool Name

R-20250, TOTAL UNIT ACRES 5119.76

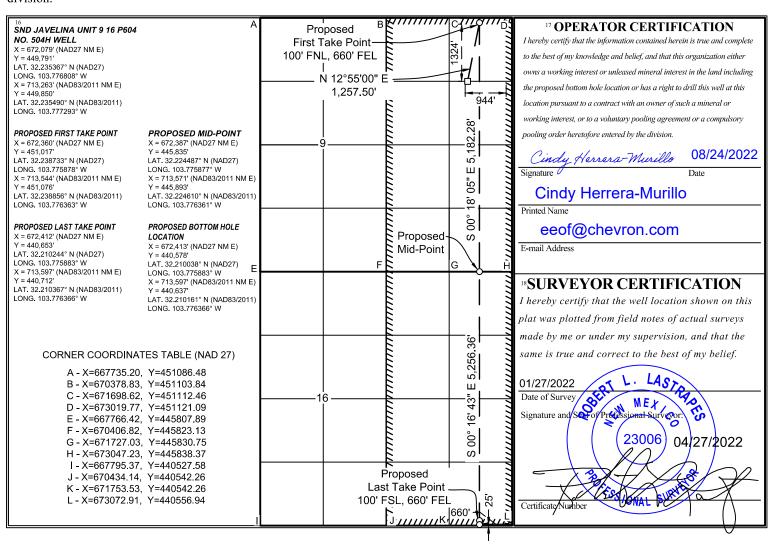
☐ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>2</sup> Pool Code

	Total Code													
3	<b>30-015-54329</b> 13367 COTTON DRAW; BONE SPRING													
<sup>4</sup> Proper	<sup>4</sup> Property Code <sup>5</sup> Property Name <sup>6</sup> V													
3346	677	7 SND JAVELINA UNIT 9 16 P604 504H												
<sup>7</sup> OGRID No. <sup>8</sup> Operator Name <sup>9</sup> Elevation														
4323 CHEVRON U.S.A. INC. 3438'														
		•		10 Sur	face Locat	ion								
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/V	Vest line	County				
Н	9	24 SOUTH	31 EAST, N.M.P.M.		1324'	NORTH	944'	EAS	ST	EDDY				
			11 Bottom H	lole Locat	ion If Diff	erent From S	Surface							
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	est line	County				
P	16	24 SOUTH	31 EAST, N.M.P.M.		25'	SOUTH	660'	EAS	ST	EDDY				
12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No.														

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

I. Operator: <u>Che</u>	vron USA_		OGRID:	4323		Date: 8 / 10 / 22
II. Type: ⊠ Original □ A	Amendment	due to 🗆 19.15.2	27.9.D(6)(a) NM	AC □ 19.15.27.9.D	(6)(b) NMAC □	Other.
If Other, please describe: _						
III. Well(s): Provide the for the form a sing					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
SND 9 16 FED COM PAD 604 503H	Pending	UL:H-9-24S- 31E	1323' FNL 1019' FEL	1780 BBL/D	4750 MCF/D	4780 BBL/D
SND 9 16 FED COM PAD 604 504H	Pending	UL:H-9-24S- 31E	1324' FNL 944' FEL	1780 BBL/D	4750 MCF/D	4780 BBL/D
SND 9 16 FED COM PAD 604 604H	Pending	UL:H-9-24S- 31E	1323' FNL 944' FEL	1780 BBL/D	4750 MCF/D	4780 BBL/D
SND 9 16 FED COM PAD 604 605H	Pending	UL:H-9-24S- 31E	1324' FNL 969' FEL	1780 BBL/D	4750 MCF/D	4780 BBL/D
SND 9 16 FED COM PAD 604 606H	Pending	UL:H-9-24S- 31E	1324' FNL 919' FEL	1780 BBL/D	4750 MCF/D	4780 BBL/D
IV. Central Delivery Poin	t Name: _	Sand Dur	nes CTB 10		[See 19.	15.27.9(D)(1) NMAC]

**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
SND 9 16 FED COM PAD 604 503H	<u>Pending</u>	7/23/2024	N/A	N/A	N/A	N/A
SND 9 16 FED COM PAD 604 504H	<u>Pending</u>	8/10/2024	N/A	N/A	N/A	N/A
SND 9 16 FED COM PAD 604 604H	<u>Pending</u>	8/28/2024	N/A	N/A	N/A	N/A
SND 9 16 FED COM PAD 604 605H	<u>Pending</u>	9/15/2024	N/A	N/A	N/A	N/A

Page 1 of 4

SND 9 16 FED COM PAD	Pending	09/01/2024	N/A	N/A	N/A	N/A
604 606H						

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.

(i)

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

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

Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including: power generation on lease; (a) **(b)** power generation for grid; compression on lease; (c) (d) liquids removal on lease; reinjection for underground storage; (e) **(f)** reinjection for temporary storage; **(g)** reinjection for enhanced oil recovery; fuel cell production; and (h)

#### **Section 4 - Notices**

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

other alternative beneficial uses approved by the division.

- (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-Murillo
Printed Name:	Cindy Herrera-Murillo
Title:	Sr HSE Regulatory affairs Coordinator
E-mail Address:	eeof@chevron.com
Date:	08/25/2022
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: SND JAVELINA UNIT 9 16 P604 Well Number: 504H

Pressure Rating (PSI): 5M Rating Depth: 11796

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

#### Requesting Variance? YES

Variance request: - Chevron respectfully 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 performed. A full BOP test will be completed prior to drilling the production liner hole sections, unless the BOP connection was not broken prior to drilling that hole section (example: drilling straight from production into production liner hole section). A break test will only be performed on operations where BLM documentation states a 5M or less BOP can be utilized. Break Tests will not be performed on Production hole sections. - 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 also requests a variance to use a CoFlex hose with a metal protective covering that will be utilized between the BOP and Choke manifold. Please refer to the attached testing and specification documents. -Authorization to follow Onshore Order 2 Section B - Casing and Cementing Requirements to wait to 500 psi comprehensive strength (CS) of the tail cement slurry, for primary cement operations in both the Surface and Intermediate casing string(s). WOC time is considered the time between bumping the plug (cement in place), until beginning to drill the shoe track. This will ensure that cement will be at sufficient strength prior to performing a shoe test and drilling ahead through the next hole section.

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

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

D2.1a\_BLM\_5M\_Choke\_Manifold\_Diagram\_20210823122058.pdf

D2.2a\_BLM\_Choke\_Hose\_Test\_Specs\_and\_Pressure\_Test\_Continental\_20210823122144.pdf

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

D2.1b\_NM\_Slim\_Hole\_Wellhead\_6650\_psi\_UH\_S\_20210823122152.pdf

D2.3a\_BLM\_5M\_Annular\_10M\_Rams\_Stackup\_and\_Test\_Plan\_20210823122216.pdf

Sundry\_Break\_Testing\_and\_WOC\_500\_psi\_SND\_Pad604\_20220825091437.pdf

Well Name: SND JAVELINA UNIT 9 16 P604 Well Number: 504H

## **Section 3 - Casing**

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	16	13.375	NEW	API	N	0	787	0	787	3438	2651	787	J-55	54.5	BUTT	2.13	1.43	DRY	2.09	DRY	3.46
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	4301	0	4261	3465	-823	4301	L-80	40	BUTT	1.24	1.64	DRY	3.16	DRY	3.26
3	PRODUCTI ON	8.75	7.0	NEW	API	N	0	11351	0	11134	3442	-7696	ı	OTH ER		OTHER - BLUE	1.63	1.15	DRY	2.3	DRY	2.3
4	LINER	6.12 5	5.0	NEW	API	N	10051	11801	10801	11534	-7363	-8096	1750	P- 110	_	OTHER - W513	1.39	1.1	DRY	1.63	DRY	2.54
5	PRODUCTI ON	6.12 5	4.5	NEW	API	N	11801	22166	11534	11796	-8096	-8358	10365	P- 110	1	OTHER - W521	1.39	1.1	DRY	1.63	DRY	2.54

#### **Casing Attachments**

Casing ID: 1

**String** 

**SURFACE** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

 $13.375\_54.5ppf\_J55\_STC\_20220823114831.pdf$ 

Well Name: SND JAVELINA UNIT 9 16 P604 Well Number: 504H

Casing ID: 2

String

**INTERMEDIATE** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

 $9.625\_40.0 lb\_L80 lC\_BTC\_20220823115049.pdf$ 

Casing ID: 3

String

**PRODUCTION** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

7\_29ppf\_TN110SS\_TSH\_Blue\_20220825104824.pdf

Casing ID: 4

**String** 

**LINER** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

5\_18ppf\_P110\_Flush\_W513\_20220825105033.pdf

Well Name: SND JAVELINA UNIT 9 16 P604 Well Number: 504H

#### **Casing Attachments**

Casing ID: 5

String

**PRODUCTION** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

 $4.5\_11.6ppf\_P110\_TSH\_W521\_20220825105045.pdf$ 

## **Section 4 - Cement**

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	787	514	1.33	14.8	684	25		EXTENDER, ANTIFOAM, RETARDER
PRODUCTION	Lead		0	0	0	0	0	0		N/A	N/A

INTERMEDIATE	Lead	0	3301	519	2.49	11.9	1293	25	CLASS C	EXTENDER, ANTIFOAM, RETARDER
INTERMEDIATE	Tail	3301	4301	323	1.33	14.8	429	25	CLASS C	EXTENDER, ANTIFOAM, RETARDER
PRODUCTION	Lead	0	1035 1	730	2.49	11.9	1819	25	CLASS C	Extender, Antifoam, Retarder
PRODUCTION	Tail	1035 1	1135 1	141	1.33	14.8	188	25	CLASS C	Extender, Antifoam, Retarder
LINER	Lead	1105 1	2216 6	984	1.33	14.8	1308	25	CLASS H	Extender, Antifoam, Retarder, Viscosifier

Well Name: SND JAVELINA UNIT 9 16 P604 Well Number: 504H

## **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. If a reserve pit is approved, then the operation will utilize a open loop system via the permitted reserve pit and a closed system will be used consisting of above ground steel tanks 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.

## **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)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1135 1	2216 6	OIL-BASED MUD	10	12							Viscosity 50-70 Filtrate 5-10 -Due to wellbore instability in the lateral, may exceed the MW weight window needed to maintain overburden stresses
4301	1135 1	OTHER: WBM/SALT- STURATED	8.7	9							Viscosity: 26-36 Filtrate: 15-25
0	787	SPUD MUD	8.3	8.9							Viscosity: 26-36 Filtrate: 15-25
787	4301	SALT SATURATED	8.9	10							Viscosity: 26-36 Filtrate: 15-25

Well Name: SND JAVELINA UNIT 9 16 P604 Well Number: 504H

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

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

Production tests are not planned.

Logs run include: Gamma Ray Log, Directional Survey

Coring Operations are not planned.

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

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

#### Coring operation description for the well:

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

#### **Section 7 - Pressure**

Anticipated Bottom Hole Pressure: 7361 Anticipated Surface Pressure: 4826

Anticipated Bottom Hole Temperature(F): 165

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

#### Describe:

Pressure ramp begins in the bottom of the thirdbone spring. PP increases to approximately 12.0 ppg once into 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

Chevron Standard H2S Contingency Plan 20220823121507.pdf

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

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

SND\_Javelina\_Unit\_9\_16\_P604\_504H\_20220825105519.pdf

DefPlan100ft\_SNDJavelinaUnit916P604No.504H\_R0\_20220825105600.pdf

#### Other proposed operations facets description:

- Authorization to use the spudder rig to spud the well and set surface casing. The drilling rig will move in less than 90 days to continue drilling operations. Rig layouts attached.
- \*\*\*Drilling plan attached contains a contingency cement program.

#### Other proposed operations facets attachment:

5\_well\_rig\_layout\_patterson2\_20220823121351.pdf

SND\_Pad\_604\_Gas\_Management\_Plan\_\_\_NMOCD\_\_1\_20220825145512.pdf

Well Name: SND JAVELINA UNIT 9 16 P604 Well Number: 504H

Operational\_Best\_Management\_Practices\_V2\_20220825145609.pdf

**Other Variance attachment:** 

Chevron

Easting

(N/S ° ' ") (E/W ° ' ") 32 14 7.32 W 103 46 36.51 32 14 7.32 W 103 46 36.51

32 14 7.32 W 103 46 36.5 32 14 7.32 W 103 46 36.51 32 14 7.32 W 103 46 36.51 32 14 7.32 W 103 46 36.51

672079.00 N 32 14 7.32 W 103 46 36.51 672079.00 N 32 14 7.32 W 103 46 36.51

672079.00 N 32 14 7.32 W 103 46 36.51 672079.24 N 32 14 7.33 W 103 46 36.51 672079.46 N 32 14 7.35 W 103 46 36.50 672079.64 N 32 14 7.35 W 103 46 36.50 672079.97 N 32 14 7.37 W 103 46 36.50

(ftUS)

672079.00 672079 00 N

672079.00 672079.00 N

#### Schlumberger

Report Date:

Structure / Slot

Client

#### SND Javelina Unit 9 16 P604 No. 504H R0 mdv 05May22 Proposal **Geodetic Report**

(Def Plan)



NM, Eddy County (NAD 27 EZ) Chevron SND Javelina Unit Pad 604 / 504H Survey / DLS Computation: Vertical Section Origin:

Minimum Curvature / Lubinski 179.710 ° (Grid North) 0.000 ft, 0.000 ft RKB = 28ft

Structure / Siot.	Cilevi	OII SIND Javeill	ia 01111 Fau 004 / 30	411	140	Reference Datum.	IXI	ND = 2011		
Well:	SND	Javelina Unit 9	16 P604 No. 504H		TVD	Reference Elevation	on: 34	66.000 ft above N	MSL	
Borehole:	SND	Javelina Unit 9	16 P604 No. 504H		Seab	ed / Ground Eleva	tion: 34	38.000 ft above N	//SL	
UWI / API#:	Unkn	own / Unknown			Magı	netic Declination:	6.4	491 °		
Survey Name:	SND	Javelina Unit 9	16 P604 No. 504H F	R0 mdv 05May22	Total	Gravity Field Stre	ngth: 99	8.4404mgn (9.80	665 Based)	
Survey Date:	May (	5, 2022			Grav	ity Model:	G	ARM		
Tort / AHD / DDI / ERD Ratio:	116.4	34°/11787.40	9 ft / 6.415 / 1.021		Total	Magnetic Field St	rength: 47	622.220 nT		
Coordinate Reference System:	NAD2	7 New Mexico	State Plane, Eastern	Zone, US Feet	Magı	netic Dip Angle:	59	.853 °		
Location Lat / Long:	N 32	° 14' 7.32145",	W 103° 46' 36.5079	95"	Decli	ination Date:	M	ay 05, 2022		
Location Grid N/E Y/X:	N 449	791.000 ftUS,	E 672079.000 ftUS		Magı	netic Declination N	lodel: Hi	HDGM 2022		
CRS Grid Convergence Angle:	0.296	9°			Norti	h Reference:	Gı	Grid North		
Grid Scale Factor:	0.999	943			Grid	Convergence Use	d: 0.:	0.2969 °		
Version / Patch:	2.10.8	329.1			Total Norti	l Corr Mag North-> h:	Grid 6.	1941 °		
					Loca	I Coord Reference	d To: W	ell Head		
Comments	MD	Incl	Azim Grid	TVD	VSEC	NS	EW	DLS	Northing	
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(ftUS)	
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	449791.00	
	100.00	0.00	10.69	100.00	0.00	0.00	0.00	0.00	449791.00	
	200.00	0.00	10.69	200.00	0.00	0.00	0.00	0.00	449791.00	
	300.00	0.00	10.69	300.00	0.00	0.00	0.00	0.00	449791.00	
	400.00	0.00	10.69	400.00	0.00	0.00	0.00	0.00	449791.00	
	500.00	0.00	10.69	500.00	0.00	0.00	0.00	0.00	449791.00	
Rustler (RSLR)	522.00	0.00	10.69	522.00	0.00	0.00	0.00	0.00	449791.00	
Build 1.5°/100ft	600.00	0.00	10.69	600.00	0.00	0.00	0.00	0.00	449791.00	
	700.00	1.50	10.69	699.99	-1.28	1.29	0.24	1.50	449792.29	
Rustler Los Medaños Member	737.03	2.06	10.69	737.00	-2.41	2.41	0.46	1.50	449793.41	
Rustler Los Medaños M-1 Unit	762.05	2.43	10.69	762.00	-3.37	3.38	0.64	1.50	449794.38	
	800.00	3.00	10.69	799.91	-5.14	5.14	0.97	1.50	449796.14	
Salado (SLDO)	855.19	3.83	10.69	855.00	-8.37	8.37	1.58	1.50	449799.37	
	900.00	4.50	10.69	899.69	-11.56	11.57	2.18	1.50	449802.57	

672080.58 N 32 14 7.40 W 103 46 36.49 672081.18 N 32 14 7.44 W 103 46 36.48 672082.88 N 32 14 7.52 W 103 46 36.46 672085.06 N 32 14 7.64 W 103 46 36.44 1.50 1.50 1000.00 999.27 -20.54 20.56 3.88 449811.56 10.69 7.50 -32.08 1100.00 10.69 1098.57 32.11 6.06 449823.11 9.00 10.50 8.73 11.87 1.50 672087.73 N 32 14 7.78 W 103 46 36.40 672090.87 N 32 14 7.94 W 103 46 36.37 1200.00 10.69 1197.54 -46.17 46.21 449837.21 -62.79 1300.00 449853.85 62.85 10.69 1296.09 Hold 1393.72 11.91 10.69 1388.02 -80.66 80.74 15.25 1.50 449871.74 672094.25 N 32 14 8.12 W 103 46 36.33 82.02 449873.01 449893.28 672094.49 N 32 14 8.13 W 103 46 36.32 672098.31 N 32 14 8.33 W 103 46 36.28 1400.00 10.69 1394.17 -81.94 15.49 0.00 1500.00 11.91 10.69 1492.01 -102.19 102.29 19.32 0.00 1600.00 11.91 10.69 1589.86 -122.44 122.56 23.14 0.00 449913.55 672102.14 N 32 14 8.53 W 103 46 36.23 1700.00 1687.71 -142.69 142.83 449933.82 672105.97 N 32 14 8.73 W 103 46 36.19 672109.80 N 32 14 8.93 W 103 46 36.14 1800.00 11.91 10.69 1785.56 -162.95 163.10 30.80 0.00 449954.09 1900 00 11.91 10.69 1883 41 -183 20 183 38 34 63 0.00 449974.36 672113.62 N 32 14 9.13 W 103 46 36.09 11.91 11.91 672117.45 N 32 14 9.33 W 103 46 36.05 672121.28 N 32 14 9.54 W 103 46 36.00 2000.00 449994.64 10.69 1981.26 -203.45 203.65 0.00 2100.00 10.69 2079.11 -223.70 223.92 42.28 0.00 450014.91 2200.00 2300.00 11.91 11.91 672125.11 N 32 14 9.74 W 103 46 35.96 672128.94 N 32 14 9.94 W 103 46 35.91 10.69 2176.96 -243.95 244.19 46.11 0.00 450035.18 2274.80 -264.21 49.94 450055.45 264.46 10.69 0.00 2400.00 11.91 10.69 2372.65 -284.46 284.74 53.77 0.00 450075.72 672132.76 N 32 14 10.14 W 103 46 35.86 2500.00 2600.00 11.91 10.69 2470.50 2568.35 -304.71 305.01 57.59 0.00 450095.99 672136.59 N 32 14 10.34 W 103 46 35.82 32 14 10.54 W 103 46 35.77 11.91 -324.96 450116.26 672140.42 N 10.69 325.28 61.42 0.00 2700.00 11.91 10.69 2666.20 -345.22 345.55 65.25 0.00 450136.53 672144.25 N 32 14 10.74 W 103 46 35.73 2753.96 11.91 2719.00 -356.14 450147.47 672146.31 N 32 14 10.85 W 103 46 35.70 Castile (CSTL) 672148.07 N 672151.90 N 672155.73 N 2800.00 11.91 11.91 10.69 2764.05 -365.47 365.82 69.08 0.00 450156.80 32 14 10.94 W 103 46 35.68 0.00 32 14 11.14 W 103 46 35.64 32 14 11.34 W 103 46 35.59 2900.00 10.69 2861.90 -385.72 386.10 72.91 450177.07 10.69 450197.34 3100.00 11.91 10.69 3057.60 -426.23 426.64 80.56 0.00 450217.61 672159.56 N 32 14 11.54 W 103 46 35.54 672163.39 N 32 14 11.74 W 103 46 35.50 672167.21 N 32 14 11.94 W 103 46 35.45 672171.04 N 32 14 12.14 W 103 46 35.41 11.91 11.91 0.00 450237.88 450258.16 3200.00 10.69 3155.44 -446.48 446.91 84.39 3300.00 3253.29 -466.73 467.18 88.22 10.69 3400.00 11.91 10.69 3351.14 -486.98 487.46 92.05 0.00 450278.43 3448.99 3546.84 32 14 12.34 W 103 46 35.36 32 14 12.54 W 103 46 35.32 3500.00 10.69 -507.24 507.73 95.87 0.00 450298.70 672174.87 3600.00 11.91 -527.49 528.00 672178.70 N 10.69 99.70 0.00 450318.97 3700.00 11.91 10.69 3644.69 -547.74 548.27 103.53 0.00 450339.24 672182.52 N 32 14 12.74 W 103 46 35.27 3800.00 3742.54 -567.99 107.36 450359.51 672186.35 N 32 14 12.94 W 103 46 35.22 32 14 13.14 W 103 46 35.18 3900.00 11.91 10.69 3840.39 -588.24 588.82 111.19 0.00 450379.78 672190.18 N 4000 00 11 91 10.69 3938 23 -608 50 609 09 115.01 0.00 450400 05 672194 01 N 32 14 13 34 W 103 46 35 13 4100.00 11.91 4036.08 0.00 450420.32 672197.84 32 14 13.54 W 103 46 35.09 10.69 -628.75 629.36 118.84 4200.00 11.91 10.69 4133.93 -649.00 649.63 122.67 0.00 450440.59 672201.66 N 32 14 13.74 W 103 46 35.04 4231.78 4311.00 0.00 672205.49 N 32 14 13.94 W 103 46 34.99 672208.59 N 32 14 14.11 W 103 46 34.96 4300.00 11.91 10.69 -669.25 669.90 126.50 450460.86 11.91 -685.65 4380.96 129.60 450477.27 Lamar (LMAR) 10.69 686.32 672208.94 N 32 14 14.12 W 103 46 34.95 672209.32 N 32 14 14.14 W 103 46 34.95 672213.15 N 32 14 14.34 W 103 46 34.90 Bell Canyon (BLCN) 4390.16 11.91 10.69 4320.00 -687.51 688.18 129.95 0.00 450479.14 4329.63 4427.48 450481.13 450501.40 10.69 -689.51 690.17 130.33 0.00 4500.00 -709.76 11.91 10.69 134.15 0.00 710.45 4600.00 11.91 10.69 4525.33 -730.01 730.72 137.98 0.00 450521.68 672216.97 N 32 14 14 55 W 103 46 34 86 4700.00 11.91 10.69 4623.18 -750.26 750.99 141.81 0.00 450541.95 672220.80 N 32 14 14.75 W 103 46 34.81 4800.00 11.91 10.69 4721.03 -770.52 771.26 145.64 0.00 450562.22 672224.63 N 32 14 14.95 W 103 46 34.77 0.00 32 14 15.15 W 103 46 34.72 32 14 15.35 W 103 46 34.67 4900.00 11.91 10.69 4818.87 -790.77 791.53 149.47 450582.49 672228.46 N 5000.00 11.91 10.69 4916.72 153.29 450602.76 672232.29 N 5100.00 11.91 11.91 10.69 5014.57 -831.27 832.08 157.12 0.00 450623.03 672236.11 N 32 14 15.55 W 103 46 34.63 5200.00 10.69 5112.42 -851.53 -859.51 852.35 160.95 0.00 450643.30 450651.29 672239.94 N 672241.45 N 32 14 15.75 W 103 46 34.58 32 14 15.83 W 103 46 34.56 5239.43 11.91 5151.00 162.46 672241.45 N 672243.77 N Cherry Canyon (CRCN) 5300.00 11.91 10.69 5210.27 -871.78 872.62 164.78 0.00 450663.57 32 14 15.95 W 103 46 34.54 5400.00 5500.00 10.69 5308.12 5405.97 -892.03 168.61 0.00 450683.84 672247.60 N 672251.42 N 32 14 16.15 W 103 46 34.49 32 14 16.35 W 103 46 34.45 11.91 -912.28 0.00 450704.11 10.69 913.17 172.43 5600.00 11.91 10.69 5503.82 -932.53 933.44 176.26 0.00 450724.38 672255.25 N 32 14 16.55 W 103 46 34.40 5700.00 -952.79 953.71 180.09 450744.65 672259.08 N 32 14 16.75 W 103 46 34.35 5601.66 5800.00 11.91 10.69 5699.51 -973.04 973.98 183.92 0.00 450764.93 672262.91 N 32 14 16.95 W 103 46 34.31 5900 00 11 91 10.69 5797 36 -993 29 994 25 187 75 0.00 450785 20 672266 74 N 32 14 17 15 W 103 46 34 26 6000.00 11.91 10.69 5895.21 -1013.54 1014.53 191.57 0.00 450805.47 672270.56 32 14 17.35 W 103 46 34.22 6100.00 11.91 10.69 5993.06 -1033.80 1034.80 195.40 0.00 450825.74 672274.39 N 32 14 17.55 W 103 46 34.17 11.91 11.91 32 14 17.75 W 103 46 34.12 32 14 17.95 W 103 46 34.08 6200.00 10.69 6090 91 -1054.05 1055.07 199.23 0.00 450846 01 672278.22 N 6300.00 6188.76 -1074.30 1075.34 203.06 0.00 450866.28 672282.05 N 10.69 6400.00 11.91 10.69 6286.61 -1094.55 1095.61 206.89 0.00 450886.55 672285.87 N 32 14 18.15 W 103 46 34.03 6373.02 6384.46 210.27 210.71 450904.45 450906.81 32 14 18.33 W 103 46 33.99 32 14 18.35 W 103 46 33.99 Drop .75°/100ft 6488 31 11.91 10.69 -1112.44 1113.52 0.00 672289.25 N 6500.00 672289.70 N 11.82 10.69 -1114.80 1115.88 0.75 6600.00 11.07 10.69 6482.47 -1134.27 1135.37 214.39 0.75 450926.31 672293.38 N 32 14 18 55 W 103 46 33 94 6651.46 10.68 6533.00 -1143.80 1144.91 216.20 0.75 450935.84 672295.18 N 32 14 18.64 W 103 46 33.92 Brushy Canyon (BCN) 6700.00 10.32 10.69 6580.73 -1152.49 1153.61 217.84 0.75 450944.54 672296.82 672296.82 N 32 14 18.73 W 103 46 33.90 672300.03 N 32 14 18.89 W 103 46 33.86 6800.00 6679.23 -1169.44 1170.57 221.04 450961.50

...SND Javelina Unit 9 16 P604 No. 504H\SND Javelina Unit 9 16 P604 No. 504H R0 mdv 05May22

Mary	Comments	MD	Incl	Azim Grid	TVD	VSEC	NS	EW	DLS	Northing	Easting Latitude Longitude
1966   16   16   16   16   16   16   1	Comments						(ft)				
1785   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786   1786											
1988   1988   1988   1988   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989		7100.00	7.32	10.69	6975.96	-1212.68	1213.85	229.21	0.75	451004.78	672308.20 N 32 14 19.32 W 103 46 33.77
Page   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988   1988											
1986   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0											
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1900   100	Hold										
Pee		8100.00		10.69	7973.31	-1273.77	1275.00	240.76		451065.92	672319.75 N 32 14 19.93 W 103 46 33.63
See											
Post	Bone Spring (BSGL)										
Part	Upper Avalon (AVU)										
Lines Anne Anne John   1800   1800   1800   1801   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912											
Control Plane   1900		8600.00	0.00	10.69	8473.31	-1273.77	1275.00	240.76	0.00	451065.92	672319.75 N 32 14 19.93 W 103 46 33.63
Lamer Alexes (All Lamer Alexes											
Prof.   Cont.   Cont	Lower Avalon (AVL)										
Fiel Store Spring Lover (PRU)											
Common   C											
Fine Spines Spines (PRISA)    \$13.60		9200.00	0.00	10.69	9073.31	-1273.77	1275.00	240.76	0.00	451065.92	672319.75 N 32 14 19.93 W 103 46 33.63
For Each Spring Laner (PEL)	First Bana Caring Hanar (FRII)										
Fine fixes garny Leaver (FRL)  Fix fix fix fixes garny Leaver (FRL)  Fix fix fixes garny Leaver (FRL)  Fix fix fixes garny Leaver (FRL)  Fix fix fix fixes garny Leaver (FRL)  Fix fix fix fix fixes garny Leaver (FRL)  Fix fix fix fixes garny Leaver (FRL)  Fix fix fix fix fixes garny Leaver (FRL)  Fix fix fix fix fixes garny Leaver (FRL)  Fix f	riist Bone Spring Opper (FBO)										
Per Run Guerra (Print)		9500.00		10.69	9373.31	-1273.77	1275.00	240.76		451065.92	
1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970	Eirst Pone Spring Lower (EPL)										
Second Bases Spring Lyper (PAUM)	This Bone Spring Lower (TBL)										
Second flows Spirely Ligans (SBL) 994-69 900 109 1999 985-00 1727-77 175-00 2070 100 41905-20 07270-77 N 22 14 193 W 1920 433.55 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											
1,000,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000	Second Bone Spring Lipper (SBLI)										
1000000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   10000   100000   100000   100000   100000   100000   100000   100000   100000   100000   100000   100000   100000   100000   100000   100000   1000000   10000000   1000000   1000000   10000000   1000000   1000000   100000000	occord Bank apring apper (aba)										
1000000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000											
Second Barre Spring Casers (SBL)    Model											
1900.00		10400.00	0.00	10.69	10273.31	-1273.77	1275.00	240.76	0.00	451065.92	672319.75 N 32 14 19.93 W 103 46 33.63
1900.00	Second Bone Spring Lower (SBL)										
1988.00											
1,000.00											
No.   Column   110000											
This Bows Syrvey (TBS)   11161 000   1517   1777   11792 001 - 1253.56   1256.06   10.00   451062.39   672316.98   N 22 14 139 0 W 100 4 53302   FFF Cross   17187.46   17187.77   11792 001 - 1253.66   1268.10   10.00   45106.59   67232.81   N 32 14 17 0 W 10 4 53302   FFF Cross   17187.47   1248.06   17187.71   11740.84   1248.68   1228.10   24.82   10.00   45107.07   07232.81   N 32 14 17 0 W 10 4 53302   FFF Cross   17187.40   17187.71   11740.84   11740.85   1183.24   24.70   10.00   45107.07   07232.81   N 32 14 17 0 W 10 46 33.04   FFF Cross   17187.40   17187.71   11840.85   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24   1183.24											
There Bows Syring (TBS)	KOP, Build 10°/100ft										
11200	Third Bone Spring (TBS)										
1100000		11200.00	16.43	176.77	11071.07	-1250.41	1251.65	242.08	10.00	451042.58	672321.06 N 32 14 19.69 W 103 46 33.61
118000   36.4   77.77   1194.02   1194.07   1195.24   247.07   10.00   46094.17   07.282.06   N 2.9 4 18.52   N 12.9 4 18.53   N 197.26   12.9 4 19.52   N	FTP Cross										
1950.00											
1980.00					11324.15			250.80		450888.20	
11800.00											
Landing Piret   1932-46   88-67   776-77   11482-00   -704-85   706-24   272-85   10.00   459497-19   672251-87   N 32 14 14.03   W 103-68 33.25   Third Blone Spring Target 1   1932-74   88-67   776-77   11482-39   -805-80   638-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   672-80   6						-835.86					
Third Bone Spring Target 1 1932.74 1930.00 1200.00 1836.77 176.77 11462.39 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 1462.36 146	Londing Daint										
Tum 27/100ft   12006.0											
121000											
Held (1220000 88.67 178.79 11483.53 437.55 438.00 249.56 20.0 45024.61 672384.07 32 141.15 5W 103.46 33.16 1240.00 88.67 178.70 11483.63 37.55 338.00 285.53 0.00 45022.69 67238.05 33.21 41.15 5W 103.46 33.16 1240.00 88.67 178.70 11484.11 3.37.55 338.00 285.53 0.00 45022.69 67238.05 32 14.15 5W 103.46 33.16 1240.00 88.67 178.70 11485.26 137.55 138.01 286.58 0.00 44933.00 67238.55 32 14.8 5.0W 103.46 33.16 1240.00 88.67 178.70 11485.26 137.55 138.01 286.58 0.00 44933.00 67238.55 32 14.8 5.0W 103.46 33.16 1240.00 88.67 178.70 11485.26 137.55 138.01 286.58 0.00 44933.00 67238.55 38 24.1 6.0W 103.46 33.16 1240.00 88.67 178.70 11485.27 14.2 5.0W 103.40 34.50 14.2 5.0W 103.46 33.16 1240.00 88.67 178.70 11485.27 124.2 5.0W 103.40 34.50 14.2 5.0W 103.46 33.16 1240.00 88.67 178.70 11485.27 124.2 5.0W 103.40 34.50 14.2 5.0W 10	Turn 2°/100ft										
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15400.00 89.67 179.70 11501.97 2762.40 -2760.91 301.76 0.00 447030.26 672380.74 N 32 13 39.99 W 103 46 33.16 15500.00 89.67 179.70 11503.12 2962.39 -2960.90 302.81 0.00 446930.27 672381.27 N 32 13 39.00 W 103 46 33.16 1500.00 89.67 179.70 11503.69 3062.39 -2960.90 302.81 0.00 446930.28 672381.27 N 32 13 39.01 W 103 46 33.16 15700.00 89.67 179.70 11503.69 3062.39 -3060.90 303.33 0.00 446730.28 672382.31 N 32 13 37.02 W 103 46 33.16 1500.00 89.67 179.70 11504.27 3162.39 -3160.89 303.85 0.00 446530.20 672382.84 N 32 13 36.03 W 103 46 33.16 1500.00 89.67 179.70 11504.85 3262.39 -3260.89 304.38 0.00 446530.30 672382.84 N 32 13 35.04 W 103 46 33.16 1500.00 89.67 179.70 11504.85 3262.39 3260.89 304.38 0.00 446530.30 672382.84 N 32 13 35.04 W 103 46 33.16 1500.00 89.67 179.70 11504.85 3262.39 3260.89 304.38 0.00 446530.30 672382.84 N 32 13 35.04 W 103 46 33.16 1500.00 89.67 179.70 11504.85 3262.39 3260.89 304.38 0.00 446530.30 672382.84 N 32 13 35.04 W 103 46 33.16 1500.00 89.67 179.70 11504.85 3262.39 3260.89 304.38 0.00 446530.30 672382.84 N 32 13 35.04 W 103 46 33.16 1500.00 89.67 179.70 11504.85 3262.39 3260.89 304.38 0.00 446530.30 672382.84 N 32 13 35.04 W 103 46 33.16 1500.00 89.67 179.70 11504.85 3262.39 3260.89 304.38 0.00 846530.30 672382.84 N 32 13 35.04 W 103 46 33.16 1500.00 89.67 179.70 11504.85 3262.39 3260.89 304.38 0.00 846530.30 672382.84 N 32 13 35.04 W 103 46 33.16 1500.00 89.67 179.70 11504.85 3260.39 3260.39 3260.89 304.38 0.00 846530.30 672382.84 N 32 13 35.04 W 103 46 33.16 1500.00 89.67 179.70 11504.85 3260.39 3260.39 3260.38 3260.39 3260.38 3260.00 846530.30 672382.84 N 32 13 35.04 W 103 46 33.16 1500.00 89.67 179.70 11504.85 3260.39 3260.39 3260.38 3260.00 846530.30 672382.84 N 32 13 35.04 W 103 46 33.16 1500.00 89.67 179.70 11504.85 3260.39 3260.39 3260.39 3260.39 3260.39 3260.30 3260.30 3260.00 846530.30 8260.30 8260.30 8260.30 8260.30 8260.30 8260.30 8260.30 8260.30 8260.30 8260.30 8260.30 8260.30 8260.30 8260.30 8260.30 8260.30 8260.30 8260.30 8260.30 8260.30 8260.30 8260.30 8260.30 8260.											
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15800.00 89.67 179.70 11504.27 3162.39 -3160.89 303.85 0.00 446630.29 672382.84 N 32 13 36.03 W 103 46 33.16 15900.00 89.67 179.70 11504.85 3262.39 -3260.89 304.38 0.00 446530.30 672383.36 N 32 13 35.04 W 103 46 33.16											
		15800.00	89.67	179.70	11504.27	3162.39	-3160.89	303.85	0.00	446630.29	672382.84 N 32 13 36.03 W 103 46 33.16
10000.00 03.01 113.00 11303.42 3302.39 3300.69 304.90 0.00 440430.31 072303.00 N 32 13 34.05 W 103 46 33.16											
		10000.00	10.60	115.10	11303.42	3302.39	-5500.09	JU4.8U	0.00	TTU40U.3 I	5. 2000.00 14 02 10 04.00 W 100 40 03.10

...SND Javelina Unit 9 16 P604 No. 504H\SND Javelina Unit 9 16 P604 No. 504H R0 mdv 05May22

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W°'")
3-	16100.00	89.67	179.70	11506.00	3462.39	-3460.88	305.42	0.00	446330.32		32 13 33.06 W	
	16200.00	89.67	179.70	11506.57	3562.38	-3560.88	305.95	0.00	446230.33		32 13 32.07 W	
	16300.00	89.67	179.70	11507.15	3662.38	-3660.88	306.47	0.00	446130.34	672385.45 N		
	16400.00	89.67	179.70	11507.72	3762.38	-3760.88	307.00	0.00	446030.35	672385.98 N	32 13 30.09 W	103 46 33.16
	16500.00	89.67	179.70	11508.30	3862.38	-3860.87	307.52	0.00	445930.36	672386.50 N	32 13 29.10 W	103 46 33.16
MP, Turn 2°/100ft	16595.36	89.67	179.70	11508.85	3957.74	-3956.23	308.02	0.00	445835.00		32 13 28.16 W	
Hold	16596.32	89.66	179.72	11508.86	3958.70	-3957.19	308.02	2.00	445834.04	672387.00 N		
	16600.00	89.66	179.72	11508.88	3962.38	-3960.87	308.04	0.00	445830.36	672387.02 N		
	16700.00	89.66	179.72	11509.47	4062.38	-4060.87	308.54	0.00	445730.37		32 13 27.12 W	
	16800.00	89.66	179.72	11510.06	4162.37	-4160.86	309.03	0.00	445630.38	672388.01 N		
	16900.00	89.66	179.72	11510.65	4262.37	-4260.86	309.52	0.00	445530.39	672388.51 N		
	17000.00	89.66	179.72	11511.25	4362.37	-4360.86	310.02	0.00	445430.40		32 13 24.15 W	
	17100.00 17200.00	89.66 89.66	179.72 179.72	11511.84 11512.43	4462.37 4562.37	-4460.85 -4560.85	310.51 311.01	0.00 0.00	445330.41 445230.42		32 13 23.16 W 32 13 22.17 W	
	17300.00	89.66	179.72	11512.43	4662.37	-4660.85	311.50	0.00	445230.42	672390.48 N		
	17400.00	89.66	179.72	11513.62	4762.36	-4760.85	312.00	0.00	445030.44		32 13 20.20 W	
	17500.00	89.66	179.72	11514.21	4862.36	-4860.84	312.49	0.00	444930.44	672391.47 N		
	17600.00	89.66	179.72	11514.80	4962.36	-4960.84	312.99	0.00	444830.45	672391.97 N		
	17700.00	89.66	179.72	11515.39	5062.36	-5060.84	313.48	0.00	444730.46		32 13 17.23 W	
	17800.00	89.66	179.72	11515.99	5162.36	-5160.83	313.98	0.00	444630.47	672392.96 N	32 13 16.24 W	103 46 33.16
	17900.00	89.66	179.72	11516.58	5262.35	-5260.83	314.47	0.00	444530.48	672393.45 N	32 13 15.25 W	103 46 33.16
	18000.00	89.66	179.72	11517.17	5362.35	-5360.83	314.97	0.00	444430.49	672393.95 N	32 13 14.26 W	103 46 33.17
	18100.00	89.66	179.72	11517.76	5462.35	-5460.82	315.46	0.00	444330.50		32 13 13.27 W	
	18200.00	89.66	179.72	11518.36	5562.35	-5560.82	315.95	0.00	444230.51	672394.94 N		
	18300.00	89.66	179.72	11518.95	5662.35	-5660.82	316.45	0.00	444130.52	672395.43 N		
	18400.00	89.66	179.72	11519.54	5762.35	-5760.82	316.94	0.00	444030.52		32 13 10.30 W	
	18500.00	89.66	179.72	11520.13	5862.34	-5860.81	317.44	0.00	443930.53		32 13 9.31 W	
	18600.00	89.66	179.72 179.72	11520.73	5962.34 6062.34	-5960.81	317.93	0.00	443830.54	672396.91 N		
	18700.00 18800.00	89.66 89.66	179.72	11521.32 11521.91	6162.34	-6060.81 -6160.80	318.43 318.92	0.00	443730.55 443630.56	672397.41 N 672397.90 N	32 13 7.33 W 32 13 6.34 W	
	18900.00	89.66	179.72	11521.91	6262.34	-6260.80	319.42	0.00	443530.57		32 13 5.35 W	
	19000.00	89.66	179.72	11523.10	6362.34	-6360.80	319.91	0.00	443430.58	672398.89 N		
	19100.00	89.66	179.72	11523.69	6462.33	-6460.79	320.41	0.00	443330.59		32 13 3.37 W	
	19200.00	89.66	179.72	11524.28	6562.33	-6560.79	320.90	0.00	443230.60		32 13 2.38 W	
	19300.00	89.66	179.72	11524.87	6662.33	-6660.79	321.39	0.00	443130.60	672400.38 N	32 13 1.39 W	103 46 33.17
	19400.00	89.66	179.72	11525.47	6762.33	-6760.79	321.89	0.00	443030.61	672400.87 N	32 13 0.40 W	103 46 33.17
	19500.00	89.66	179.72	11526.06	6862.33	-6860.78	322.38	0.00	442930.62	672401.36 N	32 12 59.42 W	103 46 33.17
	19600.00	89.66	179.72	11526.65	6962.33	-6960.78	322.88	0.00	442830.63	672401.86 N		
	19700.00	89.66	179.72	11527.24	7062.32	-7060.78	323.37	0.00	442730.64	672402.35 N		
	19800.00	89.66	179.72	11527.84	7162.32	-7160.77	323.87	0.00	442630.65		32 12 56.45 W	
	19900.00	89.66	179.72	11528.43	7262.32	-7260.77	324.36	0.00	442530.66		32 12 55.46 W	
	20000.00 20100.00	89.66 89.66	179.72 179.72	11529.02 11529.61	7362.32 7462.32	-7360.77 -7460.77	324.86 325.35	0.00 0.00	442430.67 442330.68	672403.84 N	32 12 54.47 W 32 12 53.48 W	
	20200.00	89.66	179.72	11530.21	7562.31	-7560.76	325.85	0.00	442330.68	672404.83 N		
	20300.00	89.66	179.72	11530.21	7662.31	-7660.76	326.34	0.00	442130.69		32 12 52.49 W	
	20400.00	89.66	179.72	11531.39	7762.31	-7760.76	326.83	0.00	442030.70	672405.82 N		
	20500.00	89.66	179.72	11531.98	7862.31	-7860.75	327.33	0.00	441930.71	672406.31 N		
	20600.00	89.66	179.72	11532.58	7962.31	-7960.75	327.82	0.00	441830.72		32 12 48.53 W	
	20700.00	89.66	179.72	11533.17	8062.31	-8060.75	328.32	0.00	441730.73	672407.30 N	32 12 47.54 W	103 46 33.17
	20800.00	89.66	179.72	11533.76	8162.30	-8160.74	328.81	0.00	441630.74	672407.79 N	32 12 46.55 W	103 46 33.17
	20900.00	89.66	179.72	11534.35	8262.30	-8260.74	329.31	0.00	441530.75	672408.29 N	32 12 45.56 W	103 46 33.17
	21000.00	89.66	179.72	11534.95	8362.30	-8360.74	329.80	0.00	441430.75	672408.78 N		
	21100.00	89.66	179.72	11535.54	8462.30	-8460.74	330.30	0.00	441330.76	672409.28 N		
	21200.00	89.66	179.72	11536.13	8562.30	-8560.73	330.79	0.00	441230.77	672409.77 N		
	21300.00	89.66	179.72	11536.72	8662.30	-8660.73	331.29	0.00	441130.78		32 12 41.60 W	
	21400.00	89.66	179.72	11537.32	8762.29	-8760.73	331.78	0.00	441030.79		32 12 40.61 W	
	21500.00	89.66	179.72 179.72	11537.91	8862.29 8962.29	-8860.72 -8960.72	332.27 332.77	0.00 0.00	440930.80 440830.81	672411.26 N 672411.75 N	32 12 39.62 W	
	21600.00 21700.00	89.66 89.66	179.72 179.72	11538.50 11539.09	9062.29	-8960.72 -9060.72	332.77 333.26	0.00	440830.81 440730.82	672411.75 N 672412.24 N		
LTP Cross	21770.00	89.66	179.72	11539.09	9140.07	-9060.72 -9138.50	333.26	0.00	440730.82		32 12 37.65 W	
L11 01033	21800.00	89.66	179.72	11539.69	9162.29	-9160.71	333.76	0.00	440630.83		32 12 36.66 W	
SND Javelina Unit 9 16 P604 No. 504H BHL	21852.83	89.66	179.72	11540.00	9215.12	-9213.54	334.02	0.00	440578.00	672413.00 N		

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 Casi (in)	ing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	28.000	1/100.000	30.000	30.000		B001Mb_MWD+HRGM-Depth Only	SND Javelina Unit 9 16 P604 No. 504H / SND Javelina Unit 9 16 P604 No. 504H R0 mdv 05May22
	1	28.000	21852.831	1/100.000	30.000	30.000		B001Mb_MWD+HRGM	SND Javelina Unit 9 16 P604 No.

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Chevron
LEASE NO.: NMNM63757
LOCATION: Section 9, T.24 S, R.31 E., NMPM
COUNTY: Eddy County, New Mexico
WELL NAME & NO.: SND Javelina Unit 9 16 P604 504H
SURFACE HOLE FOOTAGE: 1324'/N & 944'/E
BOTTOM HOLE FOOTAGE: 25'/S & 660'/E

COA

$H_2S$	O Yes	No		
Potash / WIPP	None	Secretary	<b>⊙</b> R-111-P	□ WIPP
Cave / Karst	• Low	Medium	C High	Critical
Wellhead	Conventional	<ul><li>Multibowl</li></ul>	O Both	<ul><li>Diverter</li></ul>
Cementing	☐ Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	□ DV Tool
Special Req	▼ Break Testing	☐ Water Disposal	□ COM	Unit
Variance	Flex Hose	☐ Casing Clearance	☐ Pilot Hole	☐ Capitan Reef
Variance	☐ Four-String	☐ Offline Cementing	☐ Fluid-Filled	☐ Open Annulus
		Batch APD / Sundry		

#### 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 must meet all requirements from **43 CFR 3176**, 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 787 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above.

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

- ❖ In <u>R111 Potash Areas</u> if cement does not circulate to surface on the first two salt protection casing strings, the cement on the 3rd casing salt string must come to surface.
- 3. The minimum required fill of cement behind the 7 inch production casing is:
  - 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.

- 4. The minimum required fill of cement behind the  $5 \times 4-1/2$  inch production liner is:
  - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

#### C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

#### D. SPECIAL REQUIREMENT (S)

#### **Unit Wells**

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

#### **Commercial Well Determination**

A commercial well determination shall be submitted after production has been established for at least six months. (This is not necessary for secondary recovery unit wells)

#### (Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system)

#### **BOPE Break Testing Variance**

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 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 must meet all requirements from **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

## **GENERAL REQUIREMENTS**

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
  - Eddy County
    Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, BLM\_NM\_CFO\_DrillingNotifications@BLM.GOV (575) 361-2822
- 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 **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. 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 integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-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 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 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 43 CFR part 3170 Subpart 3172 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 **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 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 43 CFR part 3170 Subpart 3172.

#### C. DRILLING MUD

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

#### D. WASTE MATERIAL AND FLUIDS

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

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

ZS 9/7/2023



## **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**

Agency	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

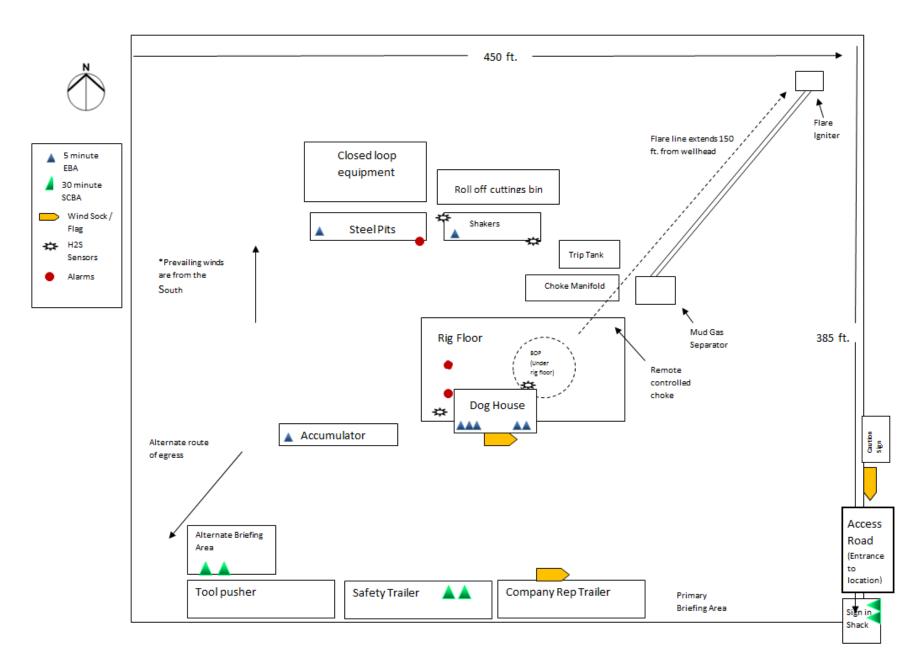


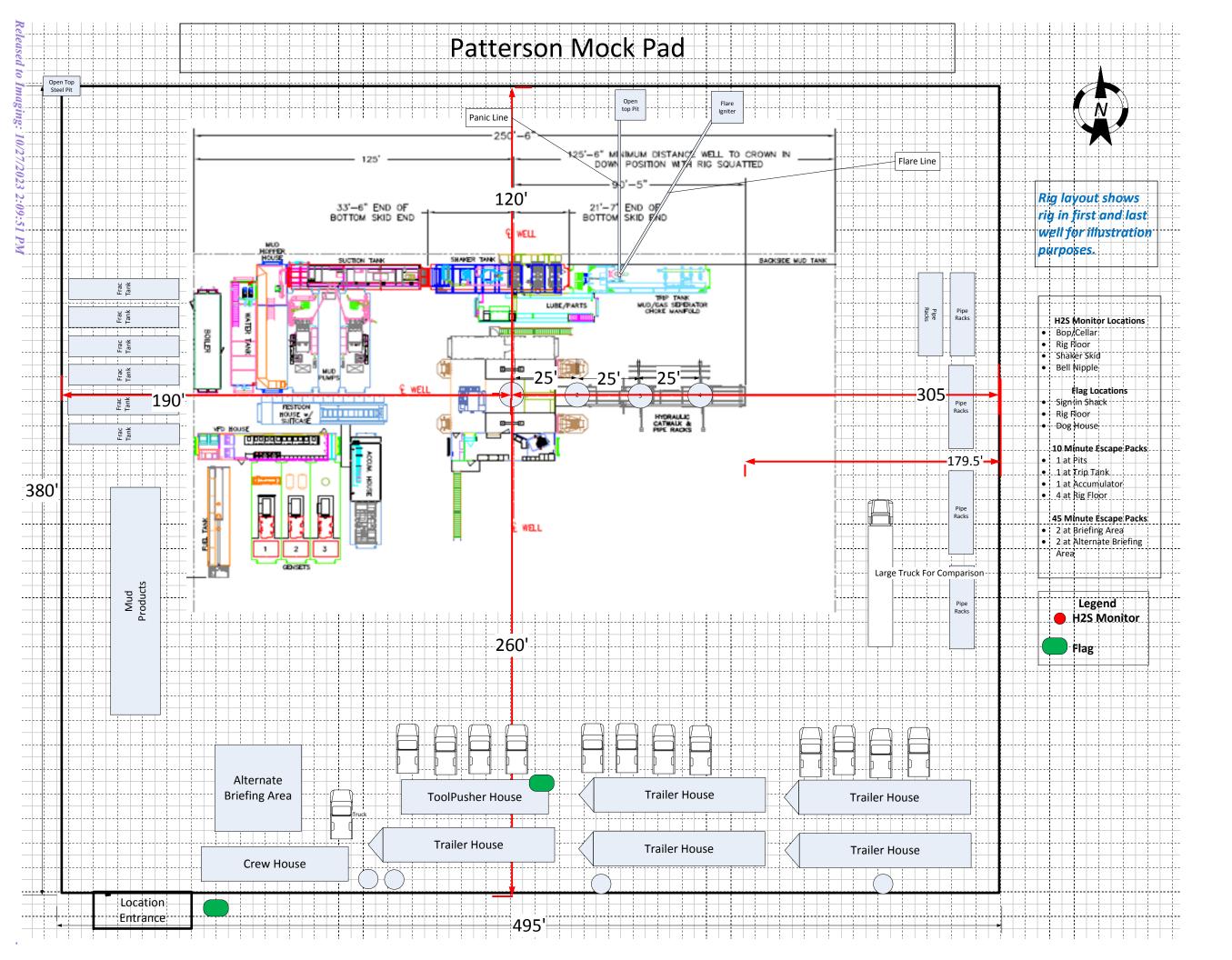
# **Chevron MCBU D&C Emergency Notifications**

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:				Property N	ame:					Well Number
Kick (	Off Point	(KOP)										
UL	Section	Township	Range	Lot	Feet	Feet From N/S Feet From E/W Co				County		
Latitu	ıde				Longitu	Longitude NA				NAD		
First -	Take Poir	nt (FTP)	Range	Lot	Feet	From N	I/S	Feet	F	rom E/W	County	
Latitu		,	80			Longitude NAD						
Last Take Point (LTP)												
UL	Section	Township	Range	Lot	Feet	From N/S	Feet		From E/\	W Cour	nty	
Latitu	ude			<u> </u>	Longitu	ıde	I	I		NAD		
Is this	s well the	defining v	vell for th	ie Hori	zontal S <sub>l</sub>	pacing Unit?			]			
Is this well the defining well for the Horizontal Spacing Unit?  Is this well an infill well?												
If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.												
API#	;											
Ope	rator Nai	me:	I			Property N	ame:					Well Number
												<u> </u>

KZ 06/29/2018



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

## Drilling Plan Data Report 10/25/2023

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 9 16 P604

Well Type: OIL WELL

**APD ID:** 10400087691

**Submission Date:** 08/30/2022

Well Number: 504H

Well Work Type: Drill

Highlighted data reflects the most recent changes

**Show Final Text** 

## **Section 1 - Geologic Formations**

Formation ID 12114006 12114026 12114023	Formation Name RUSTLER  SALADO  CASTILE	Elevation 3470 2616	521 854	Depth 762 854	Lithologies DOLOMITE	Mineral Resources  NONE	Producing Formatio N
12114006	RUSTLER SALADO	3470 2616		762	DOLOMITE	NONE	
			854	854		1	I .
12114023	CASTILE		I		HALITE, SALT	NONE	N
		754	2716	2716	ANHYDRITE	NONE	N
12114025	LAMAR	-816	4286	4326	LIMESTONE	NONE	N
12114007	BELL CANYON	-863	4333	4373	SANDSTONE	NONE	N
12114009	CHERRY CANYON	-1741	5211	5251	SANDSTONE	NONE	N
12114010	BRUSHY CANYON	-3048	6518	6618	SANDSTONE	NONE	N
12114011	BONE SPRING	-4719	8189	8289	LIMESTONE	NATURAL GAS, OIL	N
12114021 l	UPPER AVALON SHALE	-4769	8239	8339	LIMESTONE, SHALE	NATURAL GAS, OIL	N
12114013	BONE SPRING 1ST	-5716	9186	9403	SANDSTONE	NATURAL GAS, OIL	N
12114014	BONE SPRING 2ND	-6365	9835	10052	SANDSTONE	NATURAL GAS, OIL	N
12114027	BONE SPRING 3RD	-7592	11062	11279	SANDSTONE	NATURAL GAS, OIL	N
12114029	WOLFCAMP	-8035	11505	11722	SANDSTONE	NATURAL GAS, OIL	Y

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

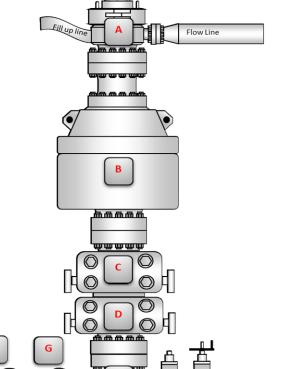
## **BLOWOUT PREVENTER SCHEMATIC**

**Intermediate & Production Drilling Operations** Operation:

#### Minimum System operation pressure **BOP Stack Pressure Part** Size Description Rating 13-5/8" N/A Rotating Head/Bell nipple 13-5/8" 5,000 Annular В 13-5/8" 10,000 Blind Ram 13-5/8" 10,000 D Pipe Ram Ē 13-5/8" 10,000 **Mud Cross** F 13-5/8" 10,000 Pipe Ram

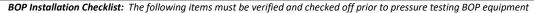
	<u>Kill Line</u>									
Part Size		Pressure	Description							
rait	Size	Rating	Description							
	2"	10,000	Inside Kill Line Valve (gate							
G 2"		10,000	valve)							
н	2"	10,000	Outside Kill Line Valve							
п	2	10,000	(gate valve)							
Ī	2"	10,000	Kill Line Check valve							





	<u>Choke line</u>								
Part	Size	Pressure	Doscription						
Part	3126	Rating	Description						
J	3"	10,000	HCR (gate valve)						
К	3"	10,000	Manual HCR (gate valve)						
		Wellhead							
Part	Size	Pressure Rating	Description						
L	13-5/8"	5.000	FMC Multibowl wellhead						





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.

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

CONDITIONS

Action 279143

#### **CONDITIONS**

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	279143
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

#### CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	10/27/2023
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	10/27/2023
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	10/27/2023
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	10/27/2023
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	10/27/2023
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	10/27/2023