Form 3160-3
(June 2015)

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☐ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.

2. Name of Operator

9. API Well No 30-015-54052

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.*)*

At surface

At proposed prod. zone

11. Sec., T. R. M. or Blk. and Survey or Area

14. Distance in miles and direction from nearest town or post office*	12. County or Parish	13. State

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
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.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

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

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 07/26/2023

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-015-54052	13367	COTTON DRAW;BONE SPRING

[4] Property Code	[5] Property Name	[6] Well Number
334558	SND JAVELINA UNIT 12 1 P306	320H

[7] OGRID No.	[8] Operator Name	[9] Elevation
4323	CHEVRON U.S.A. INC.	3587'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	12	24 SOUTH	31 EAST, N.M.P.M.		422'	SOUTH	745'	EAST	EDDY

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	1	24 SOUTH	31 EAST, N.M.P.M.		25'	NORTH	660'	EAST	EDDY

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
320	INFILL		R-20250, TOTAL UNIT ACRES 5119.76. DEFINING WELL IS SND JAVELINA UNIT 12 1 P3 228H (30-015-45421).

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.

[16]

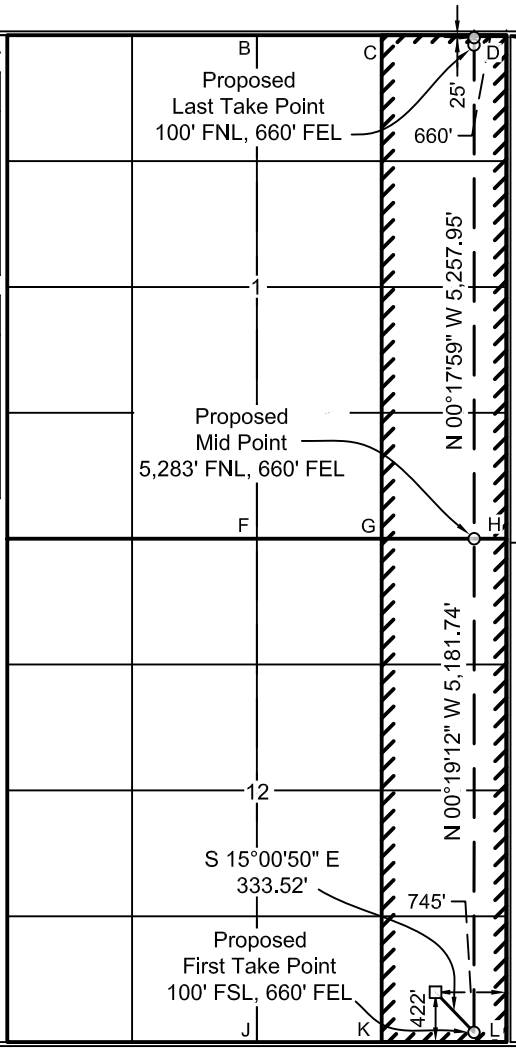
SND JAVELINA UNIT 12 1 P306 320H WELL		PROPOSED LAST TAKE POINT	
X= 688,145'	NAD 27	X= 688,175'	NAD 27
Y= 446,349'		Y= 456,391'	
LAT. 32.225666° N		LAT. 32.253270° N	
LONG. 103.724913° W		LONG. 103.724631° W	
X= 729,329'	NAD83/2011	X= 729,359'	NAD83/2011
Y= 446,408'		Y= 456,450'	
LAT. 32.225789° N		LAT. 32.253393° N	
LONG. 103.725396° W		LONG. 103.725115° W	
ELEV. +3587'	NAVD88		

PROPOSED FIRST TAKE POINT		PROPOSED BOTTOM HOLE LOCATION	
X= 688,231'	NAD 27	X= 688,175'	NAD 27
Y= 446,027'		Y= 456,466'	
LAT. 32.224779° N		LAT. 32.253476° N	
LONG. 103.724640° W		LONG. 103.724631° W	
X= 729,415'	NAD83/2011	X= 729,359'	NAD83/2011
Y= 446,085'		Y= 456,525'	
LAT. 32.224902° N		LAT. 32.253599° N	
LONG. 103.725122° W		LONG. 103.725115° W	

PROPOSED MID POINT	
X= 688,203'	NAD 27
Y= 451,208'	
LAT. 32.239023° N	
LONG. 103.724639° W	
X= 729,386'	NAD83/2011
Y= 451,267'	
LAT. 32.239146° N	
LONG. 103.725122° W	

CORNER COORDINATES TABLE (NAD 27)

A - X=683556.77, Y=456465.72
B - X=686195.85, Y=456480.30
C - X=687515.39, Y=456487.58
D - X=688834.92, Y=456494.87
E - X=683583.61, Y=451187.99
F - X=686223.08, Y=451199.63
G - X=687542.82, Y=451205.44
H - X=688862.56, Y=451211.26
I - X=683610.86, Y=445905.30
J - X=686251.45, Y=445917.53
K - X=687571.75, Y=445923.64
L - X=688892.05, Y=445929.75



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Cindy Herrera-Murillo 09/13/2022
Signature Date

Cindy Herrera-Murillo
Printed Name

eeof@chevron.com
E-mail Address

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

06/22/2022
Date of Survey

Signature and Seal of Professional Surveyor:

ROBERT L. LASTRAPES
NEW MEXICO
23006
PROFESSIONAL SURVEYOR

Certificate Number

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: Chevron USA **OGRID:** 4323 **Date:** 9 / 01 / 22

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the 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	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
SND JAVELINA UNIT 12 1 P306 #319H	*Pending*	UL: P 12-T24S R31E	422' FSL 765' FEL	5000 BBL/D	1500 MCF/D	300 BBL/D
SND JAVELINA UNIT 12 1 P306 #320H	*Pending*	UL: P 12-T24S R31E	422' FSL 745' FEL	5000 BBL/D	1500 MCF/D	300 BBL/D
SND JAVELINA UNIT 12 1 P306 #478H	*Pending*	UL: P 12-T24S R31E	422' FSL 825' FEL	5000 BBL/D	1500 MCF/D	300 BBL/D
SND JAVELINA UNIT 12 1 P306 #479H	*Pending*	UL: P 12-T24S R31E	422' FSL 805' FEL	5000 BBL/D	1500 MCF/D	300 BBL/D
SND JAVELINA UNIT 12 1 P306 #480H	*Pending*	UL: P 12-T24S R31E	422' FSL 785' FEL	5000 BBL/D	1500 MCF/D	300 BBL/D

IV. Central Delivery Point Name: Sand Dunes CTB [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 JAVELINA UNIT 12 1 P306 #319H	*Pending*	11/26/2023	N/A	N/A	N/A	N/A
SND JAVELINA UNIT 12 1 P306 #320H	*Pending*	12/14/2023	N/A	N/A	N/A	N/A
SND JAVELINA UNIT 12 1 P306 #478H	*Pending*	1/1/2024	N/A	N/A	N/A	N/A
SND JAVELINA UNIT 12 1 P306 #479H	*Pending*	1/19/2024	N/A	N/A	N/A	N/A

SND JAVELINA UNIT 12 1 P306 #480H	*Pending*	1/24/2024	N/A	N/A	N/A	N/A

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.
VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.
VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

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. ☐ 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 ☐ will ☐ 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 ☐ does ☐ 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.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. ***If Operator checks this box, Operator will select one of the following:***

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- **(a)** power generation on lease;
- **(b)** power generation for grid;
- **(c)** compression on lease;
- **(d)** liquids removal on lease;
- **(e)** reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- **(i)** other alternative beneficial uses approved by the division.

Section 4 - Notices

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

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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

Signature:	Cindy Herrera-Murillo
Printed Name:	Cindy Herrera-Murillo
Title:	Sr HSE Regulatory affairs Coordinator
E-mail Address:	eeof@chevron.com
Date:	09/01/2022
Phone:	575-263-0431

OIL CONSERVATION DIVISION

(Only applicable when submitted as a standalone form)

Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 12 01 P306 **Well Number:** 320H

Variance request: Chevron requests a variance to use a FMC Technologies UH-S Multibowl wellhead, which will be run through the rig floor on surface casing. BOPE will be nippled up and tested after cementing surface casing. Subsequent tests will be performed as needed, not to exceed 30 days. The field report from FMC Technologies and BOP test information will be provided in a subsequent report at the end of the well. Please see the attached wellhead schematic. An installation manual has been placed on file with the BLM office and remains unchanged from previous submittal. All tests performed by third party. 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.

Testing Procedure: The stack will be tested as specified in the attached testing requirements. Batch drilling of the surface, production, and production liner will take place. A full BOP test will be performed per hole section, unless approval from BLM is received otherwise (see variance request). Flex choke hose will be used for all wells on the pad (see attached specs and variance). BOP test pressures and other documented tests may be recorded and documented via utilization of the IPT 'Suretec' Digital BOP Test Method in lieu of the standard test chart. In the event the IPT system is unavailable, the standard test chart will be used.

Choke Diagram Attachment:

BLM_5M_Annular_10M_Rams_Stackup_and_Test_Plan_20220914090219.pdf

Continental_Test_Specs_and_Pressure_Test_20200207124424.pdf

BOP Diagram Attachment:

NM_Slim_Hole_Wellhead_6650_psi_UH_S_20210111164222.pdf

UHS_Multibowl_Wellhead_2017_20191219114507.pdf

BOP_Testing_Procedure_20191219114442.pdf

Sundry_Break_Testing_and_WOC_500_psi_SND_P306B_20220914144850.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	16	13.375	NEW	API	N	0	1056	0	1056	3587	2531	1056	J-55	54.5	OTHER - STC	3.5	1.98	BUOY	14.82	BUOY	14.82
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	4585	0	4585		-998	4585	L-80	40	BUTT	2.24	2.52	BUOY	4.99	BUOY	4.99
3	PRODUCTION	8.75	7.0	NEW	API	N	0	9216	0	9202	3583	-5615	9216	OTHER	40	OTHER - BLUE	3	4.19	BUOY	3.48	BUOY	3.48
4	PRODUCTION	6.125	5.0	NEW	API	N	8916	9666	8666	9602	-5079	-6015	750	P-110	18	OTHER - W513	2.35	3.92	BUOY	2.12	BUOY	2.12
5	PRODUCTION	6.25	4.5	NEW	API	N	9666	20033	9602	9775	-6015	-6188	10367	P-110	11.6	OTHER - W521	2.35	3.92	BUOY	2.12	BUOY	2.12

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 12 01 P306 **Well Number:** 320H

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_20220914144949.pdf

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

9.625_40.0lb_L80IC_BTC_20220914145025.pdf

Casing ID: 3 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

7_29ppf_TN110SS_TSH_Blue_20220914145107.pdf

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 12 01 P306 **Well Number:** 320H

Casing Attachments

Casing ID: 4 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

5in_18ppf_TSH_W513_box_x_4.5in_11.6ppf_TSH_W521_20220914145704.pdf

Casing ID: 5 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

4.5_11.6ppf_P110_TSH_W521_20220914145510.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	0	0	0	0	0		NONE	NONE
SURFACE	Tail		0	1056	689	1.33	14.8	917	25	CLASS C	Extender, Antifoam, Retarder
INTERMEDIATE	Lead		0	3585	564	1.33	14.8	1404	25	CLASS C	Extender, Antifoam, Retarder, Viscosifier
INTERMEDIATE	Tail		3585	4585	323	1.33	14.8	429	25	CLASS C	Extender, Antifoam, Retarder, Viscosifier
PRODUCTION	Lead		0	8216	566	2.49	11.9	1409	25	Class C	Extender, Antifoam, Retarder, Viscosifier

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 12 01 P306 **Well Number:** 320H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		8216	9216	141	1.33	14.8	188	25	CLASS C	Extender, Antifoam, Retarder, Viscosifier
PRODUCTION	Lead		8916	20233	984	1.33	14.8	1309	25	CLASS H	Extender, Antifoam, Retarder, Viscosifier

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

Describe what will be on location to control well or mitigate other conditions: A closed system will be used consisting of above ground steel tanks. All wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in an approved sanitary landfill. Sanitary wastes will be contained in a chemical portatoilet and then hauled to an approved sanitary landfill. All fluids and cuttings will be disposed of in accordance with New Mexico Oil Conservation Division rules and regulations. And transporting of E&P waste will follow EPA regulations and accompanying manifests.
Describe the mud monitoring system utilized: A mud test shall be performed every 24 hours after muddling up to determine, as applicable: density, viscosity, gel strength, filtration, and pH. Visual mud monitoring equipment shall be in place to detect volume changes indicating loss or gain of circulating fluid volume. When abnormal pressures are anticipated a PVT, stroke counter, flow sensor will be used to detect volume changes indicating loss or gain of circulating fluid volume in compliance with Onshore Order #2. A weighting agent and lost circulating material (LCM) will be onsite to mitigate pressure or lost circulation as hole conditions dictate.

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)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
9216	20033	OIL-BASED MUD	9	9.6							Viscosity: 50-70 Filtrate: 5-10 -Due to wellbore instability in the lateral, may exceed the MW weight window needed to maintain overburden stresses

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 12 01 P306 **Well Number:** 320H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1056	4585	OTHER : BRINE	8.9	10							Viscosity: 26-36 Filtrate: 15-25 -Saturated brine would be used through salt sections.
4585	9216	OTHER : WBM/BRINE	8.7	9							Viscosity: 26-36 Filtrate: 15-25
0	1056	SPUD MUD	8.3	8.9							

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: 4880 **Anticipated Surface Pressure:** 2730

Anticipated Bottom Hole Temperature(F): 165

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

Chevron_Standard_H2S_Contingency_Plan_20210818091545.pdf

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 12 01 P306 **Well Number:** 320H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

DefPlan100ft_SNDJavelinaUnit12_1_P306_320H_R0_20220914150250.pdf

9pnt__SND_Javelina_Unit_12_1_P306_320H_20220914150334.pdf

Other proposed operations facets description:

Chevron formally requests the variances below:

- Authorization to use the spudder rig to spud the well and set surface casing. The drilling rig will move in less than 90 days to continue drilling operations. Rig layouts attached.

- A variance from the Onshore Order 2 to perform a break test on the BOP when able to finish the next hole section within 21 days of the previous full BOP test. Upon the first nipple up of the pad a full BOP test will be performed. A break test will not be performed on our last production hole section. A break test will only be performed on operations where BLM documentation states a 5M or less BOP can be utilized. Summary with details attached below.

- 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.

***Drilling plan attached contains a contingency cement program.

Other proposed operations facets attachment:

Other Variance attachment:

5_well_rig_layout_no_dimensions_naborspdf_20220914121612.pdf

Operational_Best_Management_Practices__20220914121930.pdf

Sundry_Break_Testing_and_WOC_500_psi_SND_P306B_20220914120655.pdf

CUSA_Spudder_Rig_Data_20200207131008.pdf

SND_Pad_306B_Gas_Management_Plan___NMOCD__1__20220914151326.pdf

AFMSS

U.S. Department of the Interior
Bureau of Land Management

Application for Permit to Drill

APD Package Report

Date Printed:

APD ID:	Well Status:
APD Received Date:	Well Name:
Operator:	Well Number:

APD Package Report Contents

- Form 3160-3

- Operator Certification Report

- Application Report
- Application Attachments
  -- Well Plat: 1 file(s)

- Drilling Plan Report
- Drilling Plan Attachments
  -- Blowout Prevention Choke Diagram Attachment: 2 file(s)
  -- Blowout Prevention BOP Diagram Attachment: 4 file(s)
  -- Casing Design Assumptions and Worksheet(s): 5 file(s)
  -- Hydrogen sulfide drilling operations plan: 1 file(s)
  -- Proposed horizontal/directional/multi-lateral plan submission: 2 file(s)
  -- Other Variances: 5 file(s)

- SUPO Report
- SUPO Attachments
  -- Existing Road Map: 1 file(s)
  -- Attach Well map: 1 file(s)
  -- Production Facilities map: 3 file(s)
  -- Water source and transportation map: 1 file(s)
  -- Well Site Layout Diagram: 1 file(s)
  -- Recontouring attachment: 2 file(s)
  -- Other SUPO Attachment: 1 file(s)

- PWD Report
- PWD Attachments
  -- None

- Bond Report
- Bond Attachments

-- None

Form 3160-3
(June 2015)

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☐ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.

2. Name of Operator

9. API Well No.

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.*)*

At surface

At proposed prod. zone

11. Sec., T. R. M. or Blk. and Survey or Area

14. Distance in miles and direction from nearest town or post office*	12. County or Parish	13. State

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file

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.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

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

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 07/26/2023

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

0. SHL: SESE / 422 FSL / 745 FEL / TWSP: 24S / RANGE: 31E / SECTION: 12 / LAT: 32.225789 / LONG: -103.725396 (TVD: 0 feet, MD: 0 feet)

PPP: SESE / 100 FSL / 660 FEL / TWSP: 24S / RANGE: 31E / SECTION: 12 / LAT: 32.224902 / LONG: -103.725122 (TVD: 9198 feet, MD: 9345 feet)

PPP: NENE / 0 FNL / 660 FEL / TWSP: 24S / RANGE: 31E / SECTION: 12 / LAT: 32.239146 / LONG: -103.725122 (TVD: 9432 feet, MD: 9586 feet)

BHL: LOT 1 / 25 FNL / 660 FEL / TWSP: 24S / RANGE: 31E / SECTION: 1 / LAT: 32.253599 / LONG: -103.725115 (TVD: 9771 feet, MD: 20161 feet)

BLM Point of Contact

Name: Candy Vigil
Title: LIE
Phone: (575) 234-5982
Email: cvigil@blm.gov

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL

CHEVRON U.S.A. INC

SND JAVELINA UNIT 9 16 P604

Lease Number: NMNM063757

Eddy County, N.M.

SND JAVELINA UNIT 21 1 P306

JAVELINA UNIT 21 1 P306 319H
Surface Hole Location: 422' FSL & 765' FEL, Section 12, T. 24 S., R. 31 E.
Bottom Hole Location: 25' FNL & 1980' FEL, Section 1, T. 24 S, R 31 E.

JAVELINA UNIT 21 1 P306 320H
Surface Hole Location: 422' FSL & 745' FEL, Section 12, T. 24 S., R. 31 E.
Bottom Hole Location: 25' FNL & 660' FEL, Section 1, T. 24 S, R 31 E.

JAVELINA UNIT 21 1 P306 478H
Surface Hole Location: 422' FSL & 825' FEL, Section 12, T. 24 S., R. 31 E.
Bottom Hole Location: 25' FNL & 2090' FEL, Section 1, T. 24 S, R 31 E.

JAVELINA UNIT 21 1 P306 479H
Surface Hole Location: 422' FSL & 805' FEL, Section 12, T. 24 S., R. 31 E.
Bottom Hole Location: 25' FNL & 1210' FEL, Section 1, T. 24 S, R 31 E.

JAVELINA UNIT 21 1 P306 480H
Surface Hole Location: 422' FSL & 785' FEL, Section 12, T. 24 S., R. 31 E.
Bottom Hole Location: 25' FNL & 330' FEL, Section 1, T. 24 S, R 31 E.

Approval Date: 07/26/2023

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Watershed:

The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The topsoil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area,

the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The top soil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control.

TANK BATTERY:
Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

BURIED/SURFACE LINE(S):
When crossing ephemeral drainages the pipeline(s) will be buried to a minimum depth of 48 inches from the top of pipe to ground level. Erosion control methods such as gabions and/or rock aprons should be placed on both up and downstream sides of the pipeline crossing. In addition, curled (weed free) wood/straw fiber wattles/logs and/or silt fences should be placed on the downstream side for sediment control during construction and maintained until soils and vegetation have stabilized. Water bars should be placed within the ROW to divert and dissipate surface runoff. A pipeline access road is not permitted to cross these ephemeral drainages. Traffic should be diverted to a preexisting route. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation.

Prior to pipeline installation/construction a leak detection plan will be developed. The method(s) could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

ELECTRIC LINE(S):
Any water erosion that may occur due to the construction of overhead electric line and during the life of the power line will be quickly corrected and proper measures will be taken to prevent future erosion. A power pole should not be placed in drainages, playas, wetlands, riparian areas, or floodplains and must span across the features at a distance away that would not promote further erosion.

TEMPORARY USE FRESH WATER FRAC LINE(S):
Once the temporary use exceeds the timeline of 180 days and/or with a 90 day extension status; further analysis will be required if the applicant pursues to turn the temporary ROW into a permanent ROW.

180 Day Temporary Expanding Fresh Water Pipeline Line Stipulations

Subject to the terms and conditions which are shown below, is hereby approved:

- Surface pipelines 6.5 inch to 16 inch OD may be in place for no more than 180 days not including installation. In accordance with your request, this 180 day period is requested.

- Surface pipeline will be in operation for no more than 180 days; a maximum of seven (7) days authorized for installation of the lay flat poly line prior to operation.

Approval Date: 07/26/2023

- Surface pipelines larger than 6.5 inch to-16-inch OD may be in place for no more than 180 days from date of authorization, unless a SF-299 is submitted within 30 days of this decision expiring requesting a long term buried fresh water pipeline, and processing of the SF-299 is not yet complete at the end of 30 days, in which case the line(s) may be left in place until a decision is made on the SF-299.
- All lines will be removed when no longer in use.

- Width of authorized use is 15-feet.

- No blading and/or earthwork will be allowed in order to place the pipeline except burying the line under crossings.

- The pipeline will be buried under all intersecting routes, including BLM-designated trails and access roads into caliche pits, rancher watering stations, etc. All such buried crossings will be removed when the pipeline is removed, unless otherwise approved by the Authorized Officer.

- Pipelines larger than 6.5-inch OD may utilize other crossing methodologies (but any fill placed over pipeline must be brought in from off-site).

- Pipeline crossings of fences should be avoided where possible. If a crossing is necessary, contact fence owner [usually the grazing permittee] prior to installation, and install by threading pipeline under the lowest wire of the fence; pipeline should never cross on top of any fence wires.

- The pipeline shall stay within 10 feet maximum of existing disturbance (e.g. lease road, pipeline right-of-way etc.); placement should be within 5 feet whenever possible.

- Placement of pumps or other high-maintenance equipment shall be installed along maintained lease roads.

- Gas or diesel pumps, generators, or compressors shall be placed on visquen matting [or 20 mil plastic] and in a containment structure capable of containing all potentially released fuels. Containments must be protected against wildlife deaths in accordance with oilfield best management practices.

- Due to potential damage to natural resources, no work is allowed during inclement weather.

- Pipeline will be marked with your company’s name and contact number, at beginning and ending points, at all public-road crossings, and at intervals not exceeding every 0.6 mile, unless otherwise approved by the Authorized Officer.

- Should unforeseen damage occur to resources, BLM will require reclamation of the impacted land.

- No water may be released into the environment without BLM consent.

- Placement of surface pipelines along or under public roadways may require permits from the road authority.

- This authorization is limited to lands under BLM jurisdiction. If your proposed pipeline crosses lands under private ownership or under other agency jurisdiction, you are responsible for obtaining all necessary permits and approvals from those parties.

- This route is in a Northern Aplomado Falcon area and approved roads must be used. No routes on two tracks, power line R/W, or gas line R/W may be used.

Potash Resources

Lessees must comply with the 2012Secretarial Potash Order. The Order is designed to manage the efficient development of oil, gas, and potash resources. Section 6 of the Order provides general provisions which must be followed to minimize conflict between the industries and ensure the safety of operations.

To minimize impacts to potash resources, the proposed well is confined within the boundaries of the established Javelina Drill Island.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. RESERVE PITS

The pit will be closed in accordance with NMOCD pit rules, with the following additional stipulations:

Construction:

Burial

The reserve pit shall be constructed, so that upon completion of drilling operations, the dried pit contents shall be buried a minimum depth of four (4) feet below ground level. Should the pit content level not meet the four foot minimum depth requirement, the excess contents shall be removed until the required minimum depth of four feet below ground level has been met. The operator shall properly dispose of the excess contents at an authorized disposal site.

Below Ground Level

The reserve pit will be constructed entirely below ground level (as opposed to pushing up dirt to form the sides of the pit).

Liner and Contents

All pits that may contain liquid material shall be lined with a 20 ml liner or greater to prevent seepage into the ground. The pit liner shall be maintained in good working condition, with no tears or holes, until the pit is closed. No trash, pipe, barrels, wireline, or metal equipment is permitted in the pit.

Freeboard

Pits shall be constructed to preclude the accumulation of precipitation runoff and maintain a minimum of 2 feet of freeboard between the maximum fluid level and the lowest point of containment at all times. If pit fluids threaten to rise to a level allowing less than 2 feet of freeboard, steps shall immediately be taken to prevent introduction of additional fluids until sufficient pit capacity has been restored through fluid removal or an alternative containment method is approved and installed.

Exclosure Netting

The operator will prevent humans, wildlife (*including avian wildlife*), and livestock access to fluid pits that contain or have potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will install approved netting over reserve pits containing fluid in accordance with the requirements below. (***Note****: The BLM does not approve of the use of flagging, strobe lights, metal reflectors, or noise makers as techniques for deterring wildlife*.)

(Entire Reserve Pit) Minimum Netting Requirements - The operator will:

- Construct a rigid structure made of steel tubing or wooden posts with cable strung across the pit at no more than seven (7) foot intervals along the X- and Y-axes to form a grid of 7 foot squares.
- Suspend netting a minimum of 4 to 5 feet above the fluid surface.
- Use a maximum netting mesh size of 1 ½ inches to exclude most birds.
- Cover the top and all sides of the netting support frame with netting and secure the netting at the ground surface around the entire pit to prevent wildlife entry at the netting edges. (***Note****: Hog wire panels or other wire mesh panels or fencing used on the sides of the netting support frame is ineffective in excluding small wildlife and birds unless covered by the smaller mesh netting*.)
- Installation of the net must commence immediately after high activity operations cease. High activity operations include drilling operations and fracturing operations.
- Monitor and maintain the netting sufficiently to ensure the netting is functioning as intended, has not entrapped wildlife, and is free of holes and gaps greater than 1 ½ inches.

Exclosure Fence

The operator will install and maintain exclosure fencing on all sides of the reserve pit to prevent access to public, livestock, and large forms of wildlife. Only one side of the reserve pit fence may be set aside during drilling or fracturing operations, but must be reconstructed when these operations are not being performed.

- The fence shall be installed at least two (2) feet from the edge of the pit.
- Construction of the fence shall consist of steel and/or wooden posts set firmly into the ground.
- All corners shall be braced.
- Use a fence with four (4) separate wires (smooth or barbed) or hog panel (16 ft. length by 50 in. height) with connectors such as fence staples, clips, hog rings, hose clamps, twisted wire, etc. The fencing must be secured to the posts.
- The wire (if used) must be stretched tightly and spaced evenly to effectively exclude animals.
- Do not use electric fences.
- The erected fence shall be maintained in adequate condition until the dried reserve pit undergoes backfilling.
- (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

Escape Ramps
The operator will construct and maintain reserve pits to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in reserve pit. Escape ramps must be installed at every corner of the reserve pit and in the center of each side if that side exceeds 100 feet in length. Escape ramps must be in contact with the side of the reserve pit, bottom of the reserve pit, and the top of the reserve pit berm. Escape ramps cannot be made of metal and cannot be steeper than a 3:1 slope (Horizontal Distance: Vertical Distance) or 30% slope. (*Examples of escape ramps: 12" wide wooden planks wrapped in matting, felt lining, etc.*)

Maintenance:

Hydrocarbons
Any hydrocarbons (condensate, paraffin, diesel, etc.) introduced to the reserve pit shall be removed within 24 hours.

Closure:

NMOCD
The pit will be closed in accordance with NMOCD pit closure rules, with the following additional stipulations:

Drying
When drilling is completed, the fluids must be drawn off the pit within 60 days and the pit reclaimed within six months. The pit should also be fully enclosed with fencing on 4 sides during the drying process.

Notificaiton
The operator will notify a BLM Environmental Protection Specialist (575-234-5972) three days prior to beginning closure operations.

Sampling
The BLM may wish to witness the sampling of the pit contents and excavation bottoms. The operator will notify a BLM Environmental Protection Specialist three days prior to sampling pit contents or excavation bottoms.

Solidifying Pit Contents
Only mineral materials can be used to solidify pit contents. The operator is prohibited from using topsoil materials stockpiled on location for this purpose.

Burial (Onsite)
If onsite burial is approved by the NMOCD, the pit liner sides will be folded over the pit contents and a separate liner installed atop the encapsulated pit materials. The top liner must be located four feet below the natural ground surface. Should the pit content level not meet the four foot minimum depth requirement, the excess contents shall be removed until the required minimum depth of four feet below ground level has been met. The operator shall properly dispose of the excess contents at an authorized disposal site.

Burial (Trench)
If trench burial is elected as a closure method, the trench burial must be located within the confines of the approved pad. The operator should consider where the trench burial will be located in advance of pad and facility construction in order to accommodate this requirement. The trench will be fully lined, the reserve pit materials fully encapsulated, and liner installed over the top of the containment. The top liner must be located four feet below the natural ground surface.

Surface Restoration:

Backfilling
For both onsite and trench burials: clean mineral materials may be used to backfill on top of the liner installation or to backfill excavated pit areas to a backfill level that reaches the natural topsoil depth of the surrounding terrain or 1 foot below surface level, whichever is greater. (In sandy soils, 2 feet of topsoil material is required.) Clean and viable topsoil must be used as the top fill on the excavations and reclamation areas in order to establish vegetation. Topsoil materials must be a good match to that of the surrounding terrain.

Contouring
The surface of the reserve pit reclamation and/or trench burial should be recontoured to match that of the native terrain.

Erosion Control
Erosion control measures must be installed to ensure that reclamation stabilizes and establishes vegetation. If erosion issues develop, the erosion issues must be addressed immediately by bringing in additional backfill material and re-establishing erosion control measures.

Seeding
The location must be seeded with an appropriate BLM seed mix for the soil type of the area.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing
The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width
The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing
Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

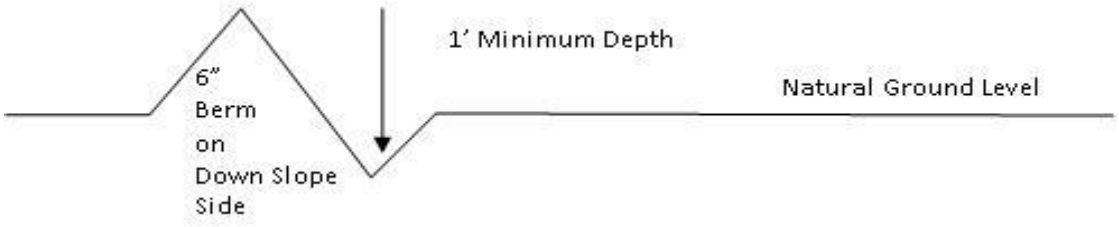
Ditching
Ditching shall be required on both sides of the road.

Turnouts
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage
Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$\text{400 foot road with 4\% road slope: } \frac{400'}{4\%} + 100' = 200' \text{ lead-off ditch interval}$$

Cattle guards
An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement
Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access
Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

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Construction Steps

1. Salvage topsoil
2. Construct road
3. Redistribute topsoil
4. Revegetate slopes

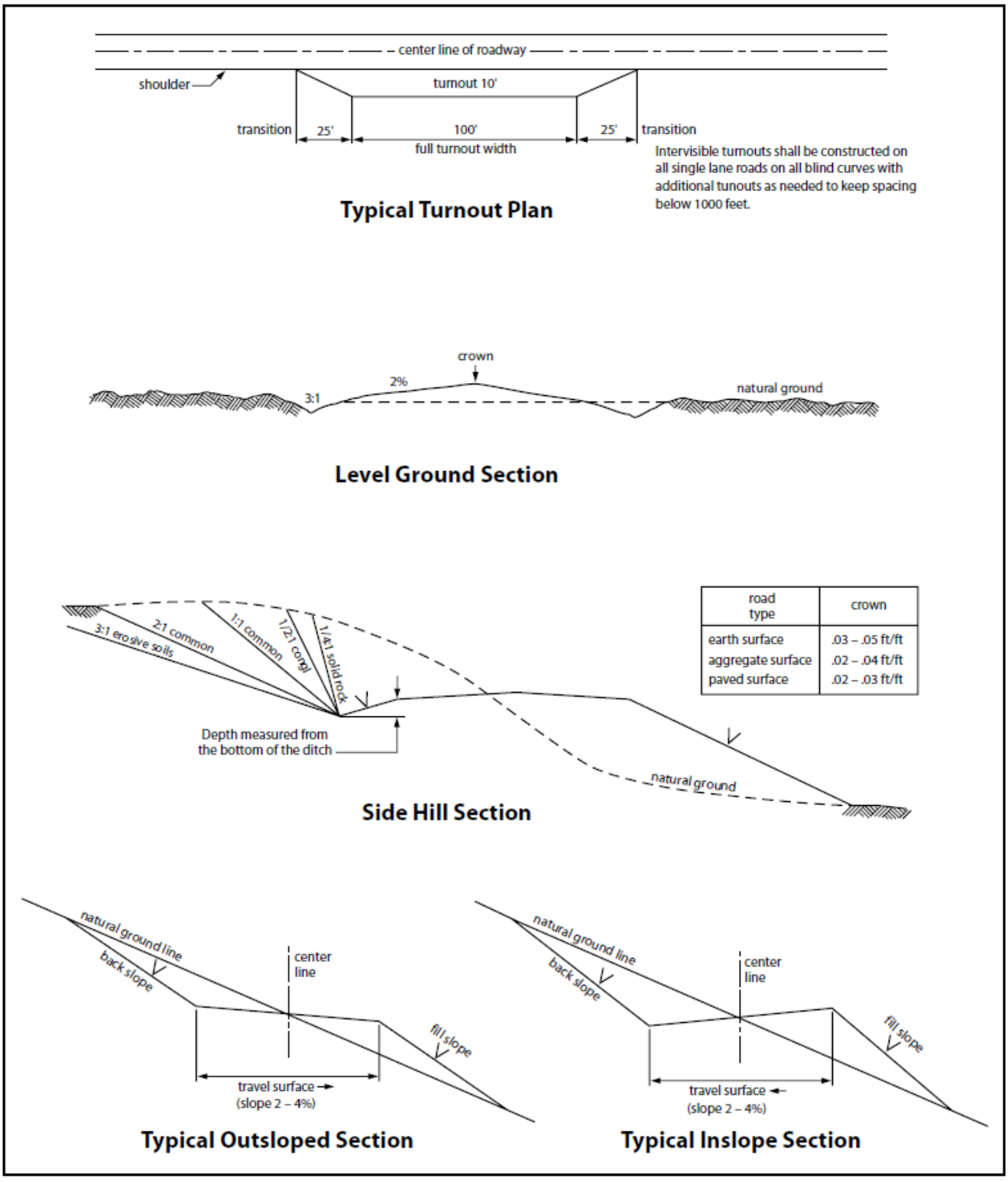

Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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VII. PRODUCTION (POST DRILLING)

A. STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.

5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006 . The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.

6. The holder shall minimize disturbance to existing fences and other improvements on public

lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.

9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

11. Special Stipulations:
- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes from the poles removed.

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken:
Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

STIPULATIONS FOR BURIED FIBER OPTIC LINES

The holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer, BLM.

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this authorization.

2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the Holder shall comply with the Toxic Substances Control

Act of 1976, as amended (15 U.S.C. 2601, et. seq.) with regard to any toxic substances that are used, generated by or stored on the powerline route or on facilities authorized. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act, Section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The Holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et. seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et. seq.) on the right-of-way (unless the release or threatened release is wholly unrelated to the right-of-way Holder's activity on the pipeline). This agreement applies without regard to whether a release is caused by the Holder, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of the Holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages to Federal lands resulting therefrom, the Authorized Officer may take such measures as deemed necessary to control and cleanup the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the Holder. Such action by the Authorized Officer shall not relieve the Holder of any liability or responsibility.

5. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the Holder, or any person working on the Holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The Holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

6. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

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7. The holder shall be held responsible if noxious weeds become established within the area. Evaluation of growth of the noxious weeds shall be made upon discovery. Weed control will be required on the disturbed lands resulting from these actions, which include the roads, pads and associated pipelines and on adjacent lands affected by the establishment of weeds due to this action.

The holder shall insure that the equipment and or vehicles that will be used to construct, maintain and administer the access roads, well pad, and resulting well are not polluted with invasive and noxious weed seeds. Transporting of invasive and noxious weed seeds could occur if the equipment and vehicles were previously used in noxious weed infested areas. In order to prevent the spread of noxious weeds, the Authorized Officer shall require that the equipment and vehicles be cleaned with either high pressure water or air prior to construction, maintenance and administration of the access roads, well pad, and resulting well.

The holder is responsible for consultation with the authorized officer and/or local authorities for acceptable weed control methods, which include following EPA and BLM requirements and policy.

8. The holder shall be responsible for maintaining the site in a sanitary condition at all times; waste materials shall be disposed of promptly at an appropriate waste disposal site. "Waste" means all discarded matter including, but not limited to human waste, trash, garbage, refuse, oil drums, petroleum products, ashes and equipment.

9. The holder shall conduct all activities associated with the construction, operation and termination of the powerline within the authorized limits.

10. No blading or clearing of any vegetation will be allowed unless approved in writing by the Authorized Officer.

11. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair impacted improvements to at least their former state. The holder shall contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence will be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

12. Construction trenches left open over night shall be covered. Covers shall be secured in place and shall be strong enough to prevent livestock or wildlife from falling through and into a hole.

13. The holder shall evenly spread the excess soil excavated from trench in the immediate vicinity of the trench structure.

14. The BLM serial number assigned to this right-of-way grant shall be posted in a permanent, conspicuous manner, and be maintained in a legible condition for the term of the right-of-way at all major road crossings and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

15. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.

16. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facilities or within 180 days of abandonment, relinquishment, or termination of this grant, whichever comes first. This will not apply where the power line extends to serve an active, adjoining facility or facilities.

17. Escape Ramps - The operator will construct and maintain pipeline/utility trenches that are not otherwise fenced, screened, or netted to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

18. The construction of this project will consist of digging a trench to a depth of at least 40 inches. Then installing the power line and covering with backfill dirt. After completing construction of the buried power line, the line shall be marked with underground power line warning signs at least every 1,000 feet.

B. BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever

found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized right-of-way.

6. The pipeline will be buried with a minimum cover of **36** inches between the top of the pipe and ground level.

7. The maximum allowable disturbance for construction in this right-of-way will be **30** feet:

- Blading of vegetation within the right-of-way will be **a**llowed: maximum width of blading operations will not exceed 3**0** feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation*.)

- Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed **30** feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)

- The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately ___6___ inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.

9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

( ) seed mixture 1 ( ) seed mixture 3

(X) seed mixture 2 ( ) seed mixture 4

( ) seed mixture 2/LPC ( ) Aplomado Falcon Mixture

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13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.

16. Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 17 for more information.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

17. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

18. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

19. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

20. Escape Ramps - The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

c. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
d. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

IX. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable

condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Below Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

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Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species	lb/acre
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Chevron**
LEASE NO.:	**NMNM120901**
LOCATION:	Section 12, T.24 S, R.31 E., NMPM
COUNTY:	Eddy County, New Mexico
WELL NAME & NO.:	SND Javelina Unit 12 01 P306 320H
SURFACE HOLE FOOTAGE:	422'/S & 745'/E
BOTTOM HOLE FOOTAGE:	25'/N & 660'/E

COA

H2S	○ Yes	◉ No	
Potash	○ None	◉ Secretary	○ R-111-P
Cave/Karst Potential	◉ Low	○ Medium	○ High
Cave/Karst Potential	○ Critical		
Variance	○ None	◉ Flex Hose	○ Other
Wellhead	○ Conventional	◉ Multibowl	○ Both
Wellhead Variance	○ Diverter		
Other	☐ 4 String	☐ Capitan Reef	☐ WIPP
Other	☐ Fluid Filled	☐ Pilot Hole	☐ Open Annulus
Cementing	☐ Contingency Cement Squeeze	☐ EchoMeter	☐ Primary Cement Squeeze
Special Requirements	☐ Water Disposal	☐ COM	☑ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements Variance	☑ Break Testing	☐ Offline Cementing	☐ Casing Clearance

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 **1056** 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

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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. **Excess calculates to 23%. Additional cement maybe required.**

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

❖ In Secretary Potash Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

3. The minimum required fill of cement behind the **7** inch production casing is:
Cement should tie-back at least **500 feet** into previous casing string. Operator shall provide method of verification.
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 x 4-1/2** inch production liner is:
   - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).

2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

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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.

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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

☒ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

   a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
   b. When the operator proposes to set surface casing with Spudder Rig
      - Notify the BLM when moving in and removing the Spudder Rig.
      - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
      - BOP/BOPE test to be conducted per **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 7/19/2023

Approval Date: 07/26/2023

AFMSS

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

Operator Certification Data Report

07/31/2023

Operator

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: CINDY HERRERA-MURILLO **Signed on:** 09/14/2022

Title: Permitting Specialist

Street Address: 1616 W. Bender Blvd

City: Hobbs **State:** NM **Zip:** 88240

Phone: (575)263-0431

Email address: EEOF@CHEVRON.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

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

Application Data
07/31/2023

APD ID: 10400088084
Submission Date: 09/19/2022
Operator Name: CHEVRON USA INCORPORATED
Well Name: SND JAVELINA UNIT 12 01 P306
Well Number: 320H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes
Show Final Text

Section 1 - General

APD ID: 10400088084
Tie to previous NOS? N
Submission Date: 09/19/2022
BLM Office: Carlsbad
User: CINDY HERRERA-MURILLO
Title: Permitting Specialist
Federal/Indian APD: FED
Is the first lease penetrated for production Federal or Indian? FED
Lease number: NMNM120901
Lease Acres:
Surface access agreement in place?
Allotted?
Reservation:
Agreement in place? YES
Federal or Indian agreement: FEDERAL
Agreement number: NMNM139115B
Agreement name: BONE SPRING FORMATION PA "A"
Keep application confidential? N
Permitting Agent? NO
APD Operator: CHEVRON USA INCORPORATED
Operator letter of

Operator Info

Operator Organization Name: CHEVRON USA INCORPORATED
Operator Address: 26251 HIGHWAY 33
Zip: 93224
Operator PO Box:
Operator City: FELLOWS
State: CA
Operator Phone: (661)768-3465
Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO
Master Development Plan name:
Well in Master SUPO? NO
Master SUPO name:
Well in Master Drilling Plan? NO
Master Drilling Plan name:
Well Name: SND JAVELINA UNIT 12 01 P306
Well Number: 320H
Well API Number:
Field/Pool or Exploratory? Field and Pool
Field Name: COTTON DRAW
Pool Name: BONE SPRING

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 12 01 P306 **Well Number:** 320H

Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL

Is the proposed well in a Helium production area? N **Use Existing Well Pad?** N **New surface disturbance?**

Type of Well Pad: MULTIPLE WELL **Multiple Well Pad Name:** SND JAVELINA UNIT 12 01 P306 **Number:** 319H,320H,478H,479H,480H

Well Class: HORIZONTAL **Number of Legs:** 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 33 Miles **Distance to nearest well:** 150 FT **Distance to lease line:** 422 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: SND_Javelina_Unit_12_1_P306_320H_C102_062222signed_20220914143150.pdf

Well work start Date: 11/01/2023 **Duration:** 147 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 **Vertical Datum:** NAVD88

Survey number: **Reference Datum:** GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL Leg #1	422	FSL	745	FEL	24S	31E	12	Aliquot SESE	32.225789	-103.725396	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 120901	3587	0	0	N
KOP Leg #1	100	FSL	660	FEL	24S	31E	12	Aliquot SESE	32.224902	-103.725122	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 120901	-5611	9345	9198	N

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 12 01 P306 **Well Number:** 320H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
PPP Leg #1-1	100	FSL	660	FEL	24S	31E	12	Aliquot SESE	32.224902	-103.725122	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 120901	-5611	9345	9198	N
PPP Leg #1-2	0	FNL	660	FEL	24S	31E	12	Aliquot NENE	32.239146	-103.725122	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 120901	-5845	9586	9432	N
EXIT Leg #1	100	FNL	660	FEL	24S	31E	1	Lot 1	32.253393	-103.725115	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 69369	-6184	20086	9771	Y
BHL Leg #1	25	FNL	660	FEL	24S	31E	1	Lot 1	32.253599	-103.725115	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 69369	-6184	20161	9771	Y

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
	13367	COTTON DRAW;BONE SPRING

[4] Property Code	[5] Property Name	[6] Well Number
	SND JAVELINA UNIT 12 1 P306	320H

[7] OGRID No.	[8] Operator Name	[9] Elevation
4323	CHEVRON U.S.A. INC.	3587'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	12	24 SOUTH	31 EAST, N.M.P.M.		422'	SOUTH	745'	EAST	EDDY

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	1	24 SOUTH	31 EAST, N.M.P.M.		25'	NORTH	660'	EAST	EDDY

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
320	INFILL		R-20250, TOTAL UNIT ACRES 5119.76. DEFINING WELL IS SND JAVELINA UNIT 12 1 P3 228H (30-015-45421).

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.

[16]

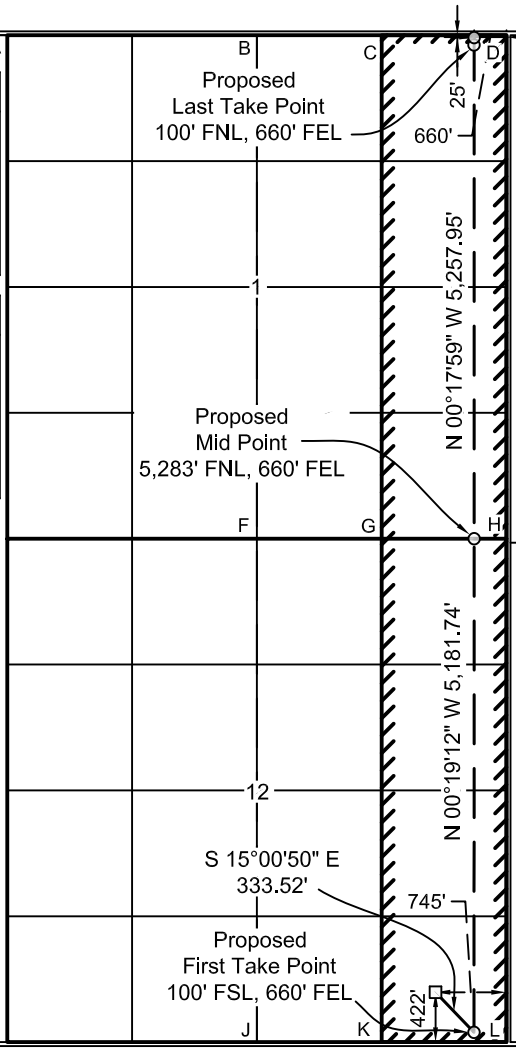
SND JAVELINA UNIT 12 1 P306 320H WELL		PROPOSED LAST TAKE POINT	
X= 688,145'	NAD 27	X= 688,175'	NAD 27
Y= 446,349'		Y= 456,391'	
LAT. 32.225666° N		LAT. 32.253270° N	
LONG. 103.724913° W		LONG. 103.724631° W	
X= 729,329'	NAD83/2011	X= 729,359'	NAD83/2011
Y= 446,408'		Y= 456,450'	
LAT. 32.225789° N		LAT. 32.253393° N	
LONG. 103.725396° W		LONG. 103.725115° W	
ELEV. +3587'	NAVD88		

PROPOSED FIRST TAKE POINT		PROPOSED BOTTOM HOLE LOCATION	
X= 688,231'	NAD 27	X= 688,175'	NAD 27
Y= 446,027'		Y= 456,466'	
LAT. 32.224779° N		LAT. 32.253476° N	
LONG. 103.724640° W		LONG. 103.724631° W	
X= 729,415'	NAD83/2011	X= 729,359'	NAD83/2011
Y= 446,085'		Y= 456,525'	
LAT. 32.224902° N		LAT. 32.253599° N	
LONG. 103.725122° W		LONG. 103.725115° W	

PROPOSED MID POINT	
X= 688,203'	NAD 27
Y= 451,208'	
LAT. 32.239023° N	
LONG. 103.724639° W	
X= 729,386'	NAD83/2011
Y= 451,267'	
LAT. 32.239146° N	
LONG. 103.725122° W	

CORNER COORDINATES TABLE (NAD 27)

A - X=683556.77, Y=456465.72
B - X=686195.85, Y=456480.30
C - X=687515.39, Y=456487.58
D - X=688834.92, Y=456494.87
E - X=683583.61, Y=451187.99
F - X=686223.08, Y=451199.63
G - X=687542.82, Y=451205.44
H - X=688862.56, Y=451211.26
I - X=683610.86, Y=445905.30
J - X=686251.45, Y=445917.53
K - X=687571.75, Y=445923.64
L - X=688892.05, Y=445929.75



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Cindy Herrera-Murillo 09/13/2022
Signature Date

Cindy Herrera-Murillo
Printed Name

eeof@chevron.com
E-mail Address

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

06/22/2022
Date of Survey

Signature and Seal of Professional Surveyor:

ROBERT L. LASTRAPES
NEW MEXICO
23006
PROFESSIONAL SURVEYOR

Certificate Number

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

Drilling Plan Data Report
07/31/2023

APD ID: 10400088084
Submission Date: 09/19/2022
Operator Name: CHEVRON USA INCORPORATED
Well Name: SND JAVELINA UNIT 12 01 P306
Well Number: 320H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
9203368	QUATERNARY	3583	0	0	ANHYDRITE	NONE	N
9203374	RUSTLER ANHYDRITE	2761	822	822	DOLOMITE	NONE	N
9203351	RUSTLER	2552	1031	1031	DOLOMITE	NONE	N
9203375	SALADO	2380	1203	1203	HALITE, SALT	NONE	N
9203373	CASTILE	593	2990	2990	ANHYDRITE	NONE	N
9203370	LAMAR	-1027	4610	4610	LIMESTONE	NONE	N
9203352	BELL CANYON	-1077	4660	4660	SANDSTONE	NONE	N
9203354	CHERRY CANYON	-1933	5516	5530	SANDSTONE	NONE	N
9203355	BRUSHY CANYON	-3250	6833	6847	SANDSTONE	NONE	N
9203356	BONE SPRING LIME	-4907	8490	8504	LIMESTONE	NONE	N
9203366	UPPER AVALON SHALE	-4960	8543	8557	LIMESTONE, SHALE	NONE	N
9203358	BONE SPRING 1ST	-5986	9569	9583	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M
Rating Depth: 9775

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

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 12 01 P306 **Well Number:** 320H

Variance request: Chevron requests a variance to use a FMC Technologies UH-S Multibowl wellhead, which will be run through the rig floor on surface casing. BOPE will be nippled up and tested after cementing surface casing. Subsequent tests will be performed as needed, not to exceed 30 days. The field report from FMC Technologies and BOP test information will be provided in a subsequent report at the end of the well. Please see the attached wellhead schematic. An installation manual has been placed on file with the BLM office and remains unchanged from previous submittal. All tests performed by third party. 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.

Testing Procedure: The stack will be tested as specified in the attached testing requirements. Batch drilling of the surface, production, and production liner will take place. A full BOP test will be performed per hole section, unless approval from BLM is received otherwise (see variance request). Flex choke hose will be used for all wells on the pad (see attached specs and variance). BOP test pressures and other documented tests may be recorded and documented via utilization of the IPT 'Suretec' Digital BOP Test Method in lieu of the standard test chart. In the event the IPT system is unavailable, the standard test chart will be used.

Choke Diagram Attachment:

BLM_5M_Annular_10M_Rams_Stackup_and_Test_Plan_20220914090219.pdf

Continental_Test_Specs_and_Pressure_Test_20200207124424.pdf

BOP Diagram Attachment:

NM_Slim_Hole_Wellhead_6650_psi_UH_S_20210111164222.pdf

UHS_Multibowl_Wellhead_2017_20191219114507.pdf

BOP_Testing_Procedure_20191219114442.pdf

Sundry_Break_Testing_and_WOC_500_psi_SND_P306B_20220914144850.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	16	13.375	NEW	API	N	0	1056	0	1056	3587	2531	1056	J-55	54.5	OTHER - STC	3.5	1.98	BUOY	14.82	BUOY	14.82
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	4585	0	4585		-998	4585	L-80	40	BUTT	2.24	2.52	BUOY	4.99	BUOY	4.99
3	PRODUCTION	8.75	7.0	NEW	API	N	0	9216	0	9202	3583	-5615	9216	OTHER	40	OTHER - BLUE	3	4.19	BUOY	3.48	BUOY	3.48
4	PRODUCTION	6.125	5.0	NEW	API	N	8916	9666	8666	9602	-5079	-6015	750	P-110	18	OTHER - W513	2.35	3.92	BUOY	2.12	BUOY	2.12
5	PRODUCTION	6.25	4.5	NEW	API	N	9666	20033	9602	9775	-6015	-6188	10367	P-110	11.6	OTHER - W521	2.35	3.92	BUOY	2.12	BUOY	2.12

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 12 01 P306 **Well Number:** 320H

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_20220914144949.pdf

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

9.625_40.0lb_L80IC_BTC_20220914145025.pdf

Casing ID: 3 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

7_29ppf_TN110SS_TSH_Blue_20220914145107.pdf

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 12 01 P306 **Well Number:** 320H

Casing Attachments

Casing ID: 4 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

5in_18ppf_TSH_W513_box_x_4.5in_11.6ppf_TSH_W521_20220914145704.pdf

Casing ID: 5 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

4.5_11.6ppf_P110_TSH_W521_20220914145510.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	0	0	0	0	0		NONE	NONE
SURFACE	Tail		0	1056	689	1.33	14.8	917	25	CLASS C	Extender, Antifoam, Retarder
INTERMEDIATE	Lead		0	3585	564	1.33	14.8	1404	25	CLASS C	Extender, Antifoam, Retarder, Viscosifier
INTERMEDIATE	Tail		3585	4585	323	1.33	14.8	429	25	CLASS C	Extender, Antifoam, Retarder, Viscosifier
PRODUCTION	Lead		0	8216	566	2.49	11.9	1409	25	Class C	Extender, Antifoam, Retarder, Viscosifier

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 12 01 P306 **Well Number:** 320H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		8216	9216	141	1.33	14.8	188	25	CLASS C	Extender, Antifoam, Retarder, Viscosifier
PRODUCTION	Lead		8916	20233	984	1.33	14.8	1309	25	CLASS H	Extender, Antifoam, Retarder, Viscosifier

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

Describe what will be on location to control well or mitigate other conditions: A closed system will be used consisting of above ground steel tanks. All wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in an approved sanitary landfill. Sanitary wastes will be contained in a chemical portatoilet and then hauled to an approved sanitary landfill. All fluids and cuttings will be disposed of in accordance with New Mexico Oil Conservation Division rules and regulations. And transporting of E&P waste will follow EPA regulations and accompanying manifests.
Describe the mud monitoring system utilized: A mud test shall be performed every 24 hours after muddling up to determine, as applicable: density, viscosity, gel strength, filtration, and pH. Visual mud monitoring equipment shall be in place to detect volume changes indicating loss or gain of circulating fluid volume. When abnormal pressures are anticipated a PVT, stroke counter, flow sensor will be used to detect volume changes indicating loss or gain of circulating fluid volume in compliance with Onshore Order #2. A weighting agent and lost circulating material (LCM) will be onsite to mitigate pressure or lost circulation as hole conditions dictate.

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)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
9216	20033	OIL-BASED MUD	9	9.6							Viscosity: 50-70 Filtrate: 5-10 -Due to wellbore instability in the lateral, may exceed the MW weight window needed to maintain overburden stresses

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 12 01 P306 **Well Number:** 320H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1056	4585	OTHER : BRINE	8.9	10							Viscosity: 26-36 Filtrate: 15-25 -Saturated brine would be used through salt sections.
4585	9216	OTHER : WBM/BRINE	8.7	9							Viscosity: 26-36 Filtrate: 15-25
0	1056	SPUD MUD	8.3	8.9							

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: 4880 **Anticipated Surface Pressure:** 2730

Anticipated Bottom Hole Temperature(F): 165

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

Chevron_Standard_H2S_Contingency_Plan_20210818091545.pdf

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 12 01 P306 **Well Number:** 320H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

DefPlan100ft_SNDJavelinaUnit12_1_P306_320H_R0_20220914150250.pdf

9pnt__SND_Javelina_Unit_12_1_P306_320H_20220914150334.pdf

Other proposed operations facets description:

Chevron formally requests the variances below:

- Authorization to use the spudder rig to spud the well and set surface casing. The drilling rig will move in less than 90 days to continue drilling operations. Rig layouts attached.

- A variance from the Onshore Order 2 to perform a break test on the BOP when able to finish the next hole section within 21 days of the previous full BOP test. Upon the first nipple up of the pad a full BOP test will be performed. A break test will not be performed on our last production hole section. A break test will only be performed on operations where BLM documentation states a 5M or less BOP can be utilized. Summary with details attached below.

- 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.

***Drilling plan attached contains a contingency cement program.

Other proposed operations facets attachment:

Other Variance attachment:

5_well_rig_layout_no_dimensions_naborspdf_20220914121612.pdf

Operational_Best_Management_Practices__20220914121930.pdf

Sundry_Break_Testing_and_WOC_500_psi_SND_P306B_20220914120655.pdf

CUSA_Spudder_Rig_Data_20200207131008.pdf

SND_Pad_306B_Gas_Management_Plan___NMOCD__1__20220914151326.pdf

BLOWOUT PREVENTER SCHEMATIC

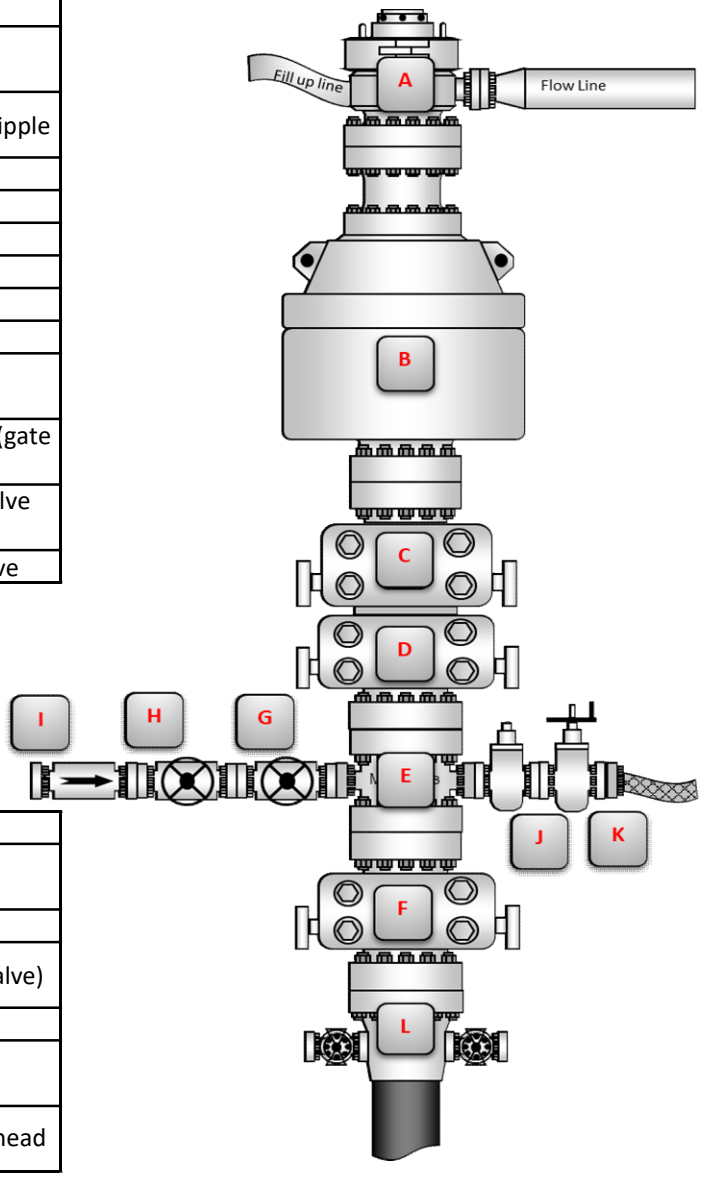
Operation:	Intermediate & Production Drilling Operations
Minimum System operation pressure	5,000 psi

BOP Stack

Part	Size	Pressure Rating	Description
A	13-5/8"	N/A	Rotating Head/Bell nipple
B	13-5/8"	5,000	Annular
C	13-5/8"	10,000	Blind Ram
D	13-5/8"	10,000	Pipe Ram
E	13-5/8"	10,000	Mud Cross
F	13-5/8"	10,000	Pipe Ram

Kill Line

Part	Size	Pressure Rating	Description
G	2"	10,000	Inside Kill Line Valve (gate valve)
H	2"	10,000	Outside Kill Line Valve (gate valve)
I	2"	10,000	Kill Line Check valve



Choke line

Part	Size	Pressure Rating	Description
J	3"	10,000	HCR (gate valve)
K	3"	10,000	Manual HCR (gate valve)

Wellhead

Part	Size	Pressure Rating	Description
L	13-5/8"	5,000	FMC Multibowl wellhead

BOP Installation Checklist: *The following items must be verified and checked off prior to pressure testing BOP equipment*
The installed BOP equipment meets at least the minimum requirements (rating, type, size, configuration) as shown on this schematic. Components may be substituted for equivalent equipment rated to higher pressures. Additional components may be put into place as long as they meet or exceed the minimum pressure rating of the system.
All valves on the kill line and choke line will be full opening and will allow straight flow through.
Manual (hand wheels) or automatic locking devices will be installed on all ram preventers. Hand wheels will also be install on all manual valves on the choke and kill line.
A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will remain open unless accumulator is inoperative.
Upper kelly cock valve with handle will be available on rig floor along with saved valve and subs to fit all drill string connections in use.

BLOWOUT PREVENTER SCHEMATIC	
Operation:	Intermediate & Production
Minimum System operation pressure	5,000 psi

Minimum Requirements

Closing Unit and Accumulator Checklist

The following item must be performed, verified, and checked off at least once per well prior to low/high pressure testing of BOP equipment. This must be repeated after 6 months on the same well.

☐ **Precharge pressure for each accumulator bottle must fall within the range below. Bottles may be further charged with nitrogen gas only. Tested precharge pressures must be recorded for each individual bottle and kept on location through the end of the well. Test will be conducted prior to connecting unit to BOP stack.**

Check one that applies	Accumulator working pressure rating	Minimum acceptable operating pressure	Desired precharge pressure	Maximum acceptable precharge pressure	Minimum acceptable precharge pressure
☐	1500 psi	1500 psi	750 psi	800 psi	700 psi
☐	2000 psi	2000 psi	1000 psi	1100 psi	900 psi
☐	3000 psi	3000 psi	1000 psi	1100 psi	900 psi

☐ **Accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if used), close all rams, close the annular preventer, and retain a minimum of 200 psi above the maximum acceptable precharge pressure (see table above) on the closing manifold without the use of the closing pumps. This test will be performed with test pressure recorded and kept on location through the end of the well**

☐ **Accumulator fluid reservoir will be double the usable fluid volume of the accumulator system capacity. Fluid level will be maintained at manufacturer's recommendations. Usable fluid volume will be recorded. Reservior capacity will be recorded. Reservoir fluid level will be recorded along with manufacturer's recommendation. All will be kept on location through the end of the well.**

☐ **Closing unit system will have two independent power sources (not counting accumulator bottles) to close the preventers.**

☐ **Power for the closing unit pumps will be available to the unit at all times so that the pumps will automatically start when the closing valve manifold pressure decreases to the pre-set level. It is recommended to check that air line to accumulator pump is "ON" during each tour change.**

☐ **With accumulator bottles isolated, closing unit will be capable of opening the hydraulically-operated choke line valve (if used) plus close the annular preventer on the smallest size drill pipe within 2 minutes and obtain a minimum of 200 psi above maximum acceptable precharge pressure (see table above) on the closing manifold. Test pressure and closing time will be recorded and kept on location through the end of the well.**

☐ **Master controls for the BOPE system will be located at the accumulator and will be capable of opening and closing all preventer and the choke line valve (if used)**

☐ **Remote controls for the BOPE system will be readily accessible (clear path) to the driller and located on the rig floor (not in the dog house). Remote controls will be capable of closing all preventers.**

☐ **Record accumulator tests in drilling reports and IADC sheet**

BLOWOUT PREVENTER SCHEMATIC	
Operation:	Intermediate & Production
Minimum System operation pressure	5,000 psi

BOPE 5K Test Checklist

The following items must be checked off prior to beginning test:

- ☐ BLM will be given at least 4 hour notice prior to beginning BOPE testing.
- ☐ Valve on casing head below test plug will be open.
- ☐ Test will be performed using clear water.

The following items must be performed during the BOPE testing:

- ☐ BOPE will be pressure tested when initially installed, whenever any seal subject to test pressure is broken, following related repairs, and at a minimum of 30 day intervals. **Test pressure and times will be recorded by a 3rd party on a test charge and kept on location through the end of the well.**
- ☐ Test plug will be used.
- ☐ Ram type preventer and all related well control equipment will be tested to 250 psi (low) and 5,000 psi (high).
- ☐ Annular type preventer will be tested to 250 psi (low) and 3,500 psi (high).
- ☐ Valves will be tested fromt eh working pressure side with all downstream valves open. The check valve will be held open to test the kill line valve(s).
- ☐ Each pressure test will be held for 10 minutes with no allowable leak off.
- ☐ Master controls and remote controls to the closing unit (accumulator) must be function tested as part of the BOPE test.
- ☐ Record BOP tests and pressures in drilling reports and IADC sheet.

Hose Data Sheet

CRI Order No.	541802
Customer	ContiTech Oil & Marine Corp.
Customer Order No	4500606483 COM757207
Item No.	1
Hose Type	Flexible Hose
Standard	**API SPEC 16 C** → FSL2
Inside dia in inches	3
Length	45 ft
Type of coupling one end	FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155ST/ST INLAID R.GR. SOUR
Type of coupling other end	FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID R.GR. SOUR
H2S service NACE MR0175	Yes
Working Pressure	10 000 psi
Design Pressure	10 000 psi
Test Pressure	15 000 psi
Safety Factor	2,25
Marking	USUAL PHOENIX
Cover	NOT FIRE RESISTANT
Outside protection	St.steel outer wrap
Internal stripwound tube	No
Lining	OIL + GAS RESISTANT SOUR
Safety clamp	Yes
Lifting collar	Yes
Element C	Yes
Safety chain	No
Safety wire rope	Yes
Max.design temperature [°C]	100
Min.design temperature [°C]	-20
Min. Bend Radius operating [m]	0,90
Min. Bend Radius storage [m]	0,90
Electrical continuity	The Hose is electrically continuous
Type of packing	WOODEN CRATE ISPM-15

CONTITECH RUBBER Industrial Kft.	No: QC-DB- 617 / 2015
	Page: 7 / 71

ATTACHMENT OF QUALITY CONTROL
INSPECTION AND TEST CERTIFICATE
No: 1609, 1610

ContiTech Rubber
Industrial Kft.
Quality Control Dept.
(1)

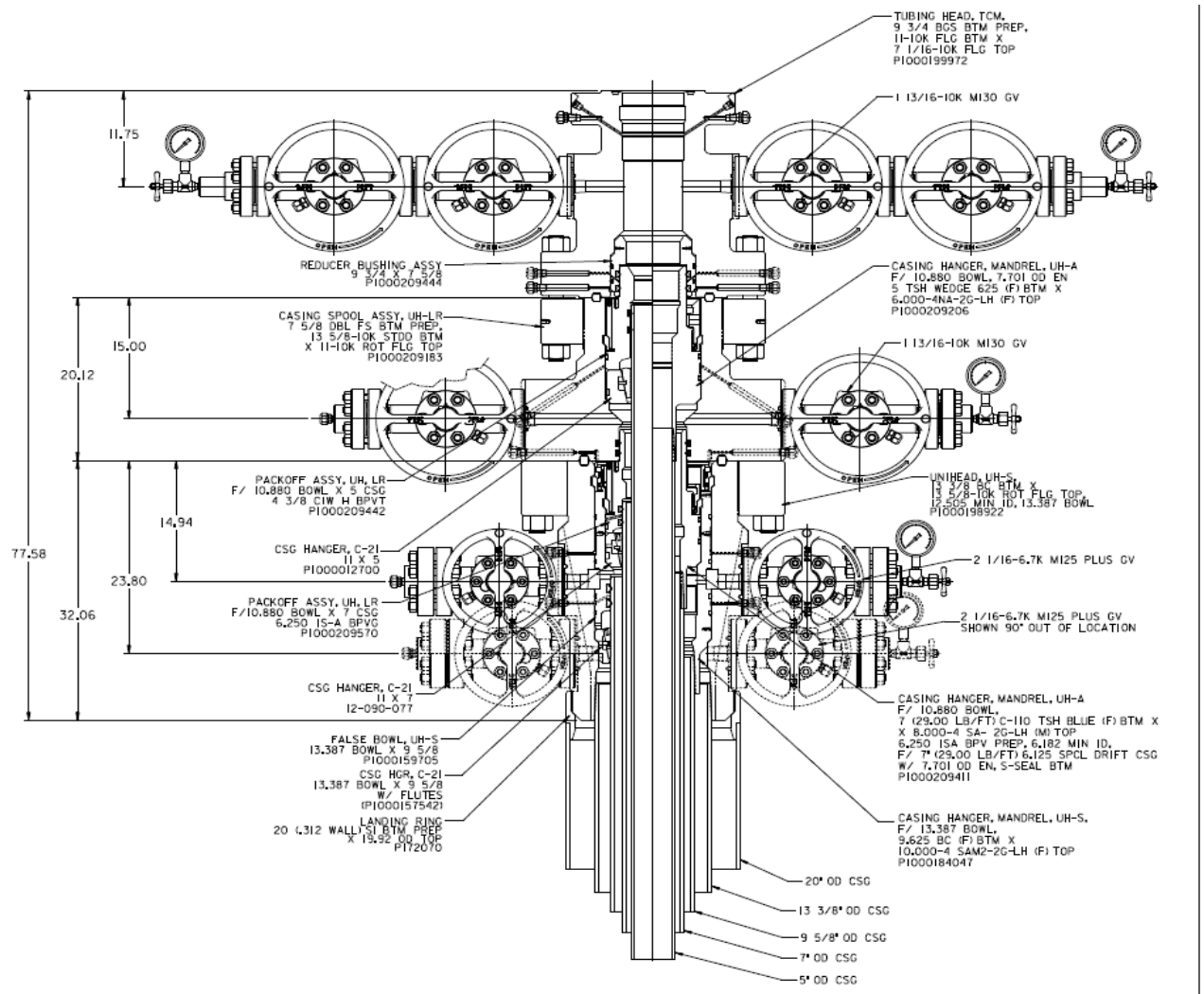
	Cursor A	Cursor B	Difference
Data No.	324	1374	720
Absolute Time	2015/09/03 13:37:00.000	2015/09/03 14:07:00.000	01:00:00.000
Tag Comment	Value A	Value B	Value B-A
Pressure[bar]	1567.69	1520.38	-8.31
Ambient Temperature[°C]	27.80	28.27	0.47

File Name : 008177_7130L7130H.GEV,,,,008187_7130L7130H GEV
File Message :
Device Type : GX10
Serial No. : SSP03039B
Data Count : 1304

Print Group :
Print Range : 2015/09/03 12:50:50.000 - 2015/09/03 14:38:25.000
Comment :

Sampling Int. : 5.000 sec
Start Time : 2015/09/03 12:50:50.000
Stop Time : 2015/09/03 14:38:25.000

1/1



PRODUCTION MODE

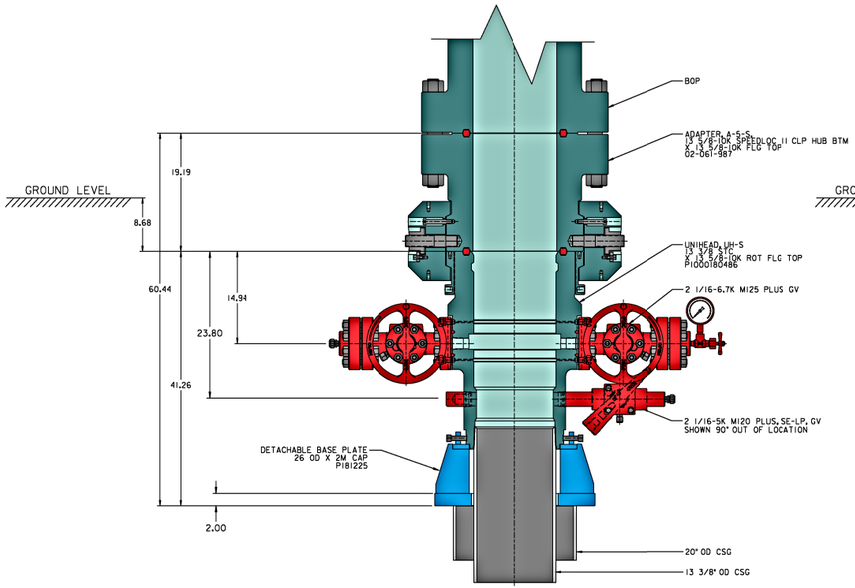
6650 PSI UH-S

CHEVRON

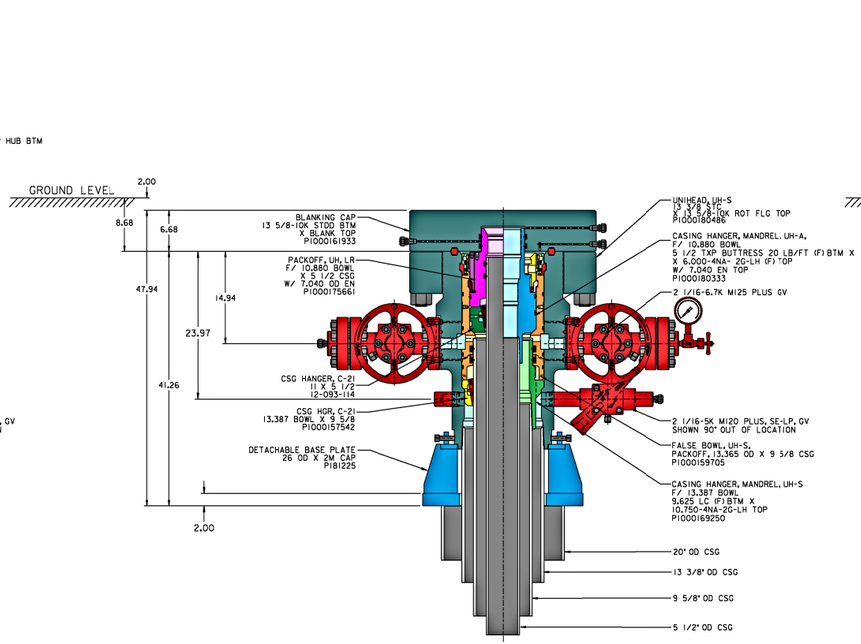
20 X 13 3/8 X 9 5/8 X 7 X 5

NEW MEXICO SLIM HOLE

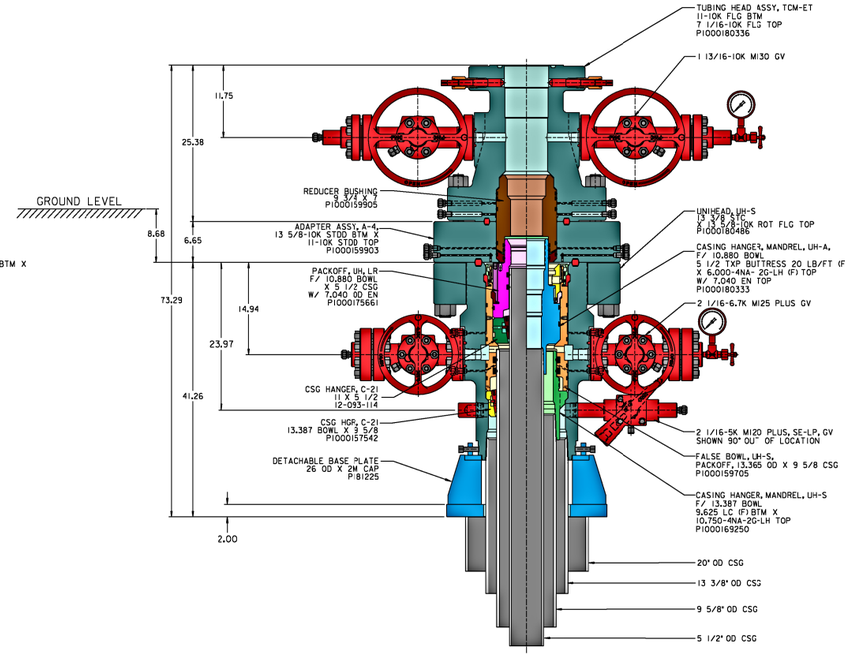
QUOTE# 20395747
CASE# 00026966
FIII378
DB01016339d
REF: DM100312054
DM100276064



DRILLING MODE



CAPPING MODE



COMPLETION MODE

6650 PSI UH-S

CHEVRON

20 X 13 3/8 X 9 5/8 X 5 1/2

QUOTE 2033133
F1C262
DBD10143378
SEQ DWG DMI00262890
REF: DMI00220685
DMI00215485

PRIVATE AND CONFIDENTIAL

DESCRIPTION: SURFACE WELLHEAD LAYOUT, UH-S, 20 X 13 3/8 X 9 5/8 X 5 1/2 CSG PROGRAM, 13 5/8-10K X 11-10K X 7 1/16-10K, CHEVRON, ODESSA

DRAWN BY: T. PHAM	DATE: 03-07-17	TechnipFMC
DRAFTING CHECK: Z. MARQUEZ	DATE: 03-07-17	
DESIGN REVIEW: M. HUSSEINI	DATE: 08-25-17	SHEET SIZE: NA
MANUFACTURING APPROVAL:	DATE:	ECN NUMBER: 1291374
APPROVED BY: J. GARZA	DATE: 08-25-17	DRAWING NUMBER: DMI00233441

BLOWOUT PREVENTER SCHEMATIC	
Operation:	Intermediate & Production
Minimum System operation pressure	5,000 psi

Minimum Requirements

Closing Unit and Accumulator Checklist

The following item must be performed, verified, and checked off at least once per well prior to low/high pressure testing of BOP equipment. This must be repeated after 6 months on the same well.

☐ **Precharge pressure for each accumulator bottle must fall within the range below. Bottles may be further charged with nitrogen gas only. Tested precharge pressures must be recorded for each individual bottle and kept on location through the end of the well. Test will be conducted prior to connecting unit to BOP stack.**

Check one that applies	Accumulator working pressure rating	Minimum acceptable operating pressure	Desired precharge pressure	Maximum acceptable precharge pressure	Minimum acceptable precharge pressure
☐	1500 psi	1500 psi	750 psi	800 psi	700 psi
☐	2000 psi	2000 psi	1000 psi	1100 psi	900 psi
☐	3000 psi	3000 psi	1000 psi	1100 psi	900 psi

☐ **Accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if used), close all rams, close the annular preventer, and retain a minimum of 200 psi above the maximum acceptable precharge pressure (see table above) on the closing manifold without the use of the closing pumps. This test will be performed with test pressure recorded and kept on location through the end of the well**

☐ **Accumulator fluid reservoir will be double the usable fluid volume of the accumulator system capacity. Fluid level will be maintained at manufacturer's recommendations. Usable fluid volume will be recorded. Reservior capacity will be recorded. Reservoir fluid level will be recorded along with manufacturer's recommendation. All will be kept on location through the end of the well.**

☐ **Closing unit system will have two independent power sources (not counting accumulator bottles) to close the preventers.**

☐ **Power for the closing unit pumps will be available to the unit at all times so that the pumps will automatically start when the closing valve manifold pressure decreases to the pre-set level. It is recommended to check that air line to accumulator pump is "ON" during each tour change.**

☐ **With accumulator bottles isolated, closing unit will be capable of opening the hydraulically-operated choke line valve (if used) plus close the annular preventer on the smallest size drill pipe within 2 minutes and obtain a minimum of 200 psi above maximum acceptable precharge pressure (see table above) on the closing manifold. Test pressure and closing time will be recorded and kept on location through the end of the well.**

☐ **Master controls for the BOPE system will be located at the accumulator and will be capable of opening and closing all preventer and the choke line valve (if used)**

☐ **Remote controls for the BOPE system will be readily accessible (clear path) to the driller and located on the rig floor (not in the dog house). Remote controls will be capable of closing all preventers.**

☐ **Record accumulator tests in drilling reports and IADC sheet**

BOPE 5K Test Checklist

The following items must be checked off prior to beginning test:

- ☐ BLM will be given at least 4 hour notice prior to beginning BOPE testing.
- ☐ Valve on casing head below test plug will be open.
- ☐ Test will be performed using clear water.

The following items must be performed during the BOPE testing:

- ☐ BOPE will be pressure tested when initially installed, whenever any seal subject to test pressure is broken, following related repairs, and at a minimum of 30 day intervals. **Test pressure and times will be recorded by a 3rd party on a test charge and kept on location through the end of the well.**
- ☐ Test plug will be used.
- ☐ Ram type preventer and all related well control equipment will be tested to 250 psi (low) and 5,000 psi (high).
- ☐ Annular type preventer will be tested to 250 psi (low) and 3,500 psi (high).
- ☐ Valves will be tested fromt eh working pressure side with all downstream valves open. The check valve will be held open to test the kill line valve(s).
- ☐ Each pressure test will be held for 10 minutes with no allowable leak off.
- ☐ Master controls and remote controls to the closing unit (accumulator) must be function tested as part of the BOPE test.
- ☐ Record BOP tests and pressures in drilling reports and IADC sheet.

Delaware Basin
Variance/Sundry for Federal Well

Sand Dunes P306 Phase B
SND JAVELINA UNIT 12 1 P306 478H
SND JAVELINA UNIT 12 1 P306 319H
SND JAVELINA UNIT 12 1 P306 479H
SND JAVELINA UNIT 12 1 P306 320H
SND JAVELINA UNIT 12 1 P306 480H

Break test request

Full BOP test for all connection/seal breaks:

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 break test will only be performed on operations where BLM documentation states a 5M or less BOP can be utilized. All seals will be tested that have been broken between full BOP tests. Time between tests for a single test or full test will not exceed 21 days.

See example drilling sequence below in red where it indicates the potential hole sections break testing could be performed given they meet the above criteria. **Break tests will not** be performed on production lateral hole sections.

Well names & Skid order ex.	478	319	479	320	480
Surface	1	2	3	4	5
Intermediate hole section(s)	6	7	8	9	10
Production	11	12	13	14	15

WOC to 500 psi - Request for execution

Chevron would like to formally request to follow Onshore Order 2 Section “B - Casing and Cementing Requirements” **to wait to 500 psi compressive strength (CS) of the tail cement slurry, for primary cement operations in both the Surface and Intermediate casing string(s).** WOC time is considered the time between bumping the plug (cement in place), until beginning to drill the shoe track. This will ensure that cement will be at suffucient strength prior to performing a shoe test and drilling ahead through the next hole section.

Sample engineering lab tests may be seen below, as provided by the cementing provider. Note: these numbers will vary slightly based on actual casing set depths and finlized cement lab tests for the particular slurry. Finalized 500 psi compressive strength times will be found on location with the Chevron Drill Site Representative via the cementing labs, Drilling Program and/or POA’s (Plan of Action).

PERMIAN REGION LAB
Cement Lab Report
Phone: (620) 262-2244

Test Number: **Test Date:**
Report Number:

WELL INFORMATION

Operator: Chevron **County:**
API #: **State:** NM
Well Name: **Requested By:**
Slurry Type: Tail **TVD:** **MD:**
Blend Type: Field **District:** Odessa
Comments: 10SEC: 22 10MIN: 23 10RPM: 34 10RPM@141F: 32

TEST DATA AND SCHEDULE

Time To Temp (min):	137	**Mud Density** (lb/gal):	9
Initial Press (psi):	610	**Mix Water Density** (lb/gal):	8.34
Final Press (psi):	5824	**Mix Water Type:**	Rig Water
BHST (deg F):	155	**Surf Temp** (deg F):	80
BHCT (deg F):	141	**Job Type:**	Intermediate

Comments: UCA: 80F to 155F in 4hrs. Apply full PSI from start of 5529psi

SLURRY AND TEST RESULTS

Vendor: GCC
Slurry: Class 'C' + 0.10% FL-66 + 0.30% CD32A + 0.05% ASA-301 + 0.70% SMS + 0.75% R-21 + 0.005 gps FP-6L + 0.005 lb/sk Static Free

Density: 14.8 lb/gal **Pump Time** (50 Bc):
Yield: 1.339 CuFt/sk **Pump Time** (70 Bc): 3:50
Mix Water: 6.284 gal/sk (55.76%) **Pump Time** (100 Bc):
Total Mix Liquid: 6.289 gal/sk
Fluid Loss: cc/30 min **Free Water** (ml): 0 (Tested at 45 ° Angle)

Compressive Strength

Temp	Time	Strength	Type
155	4:47	50	UCA
155	5:03	250	UCA
155	5:26	500	UCA
155	12	1515	UCA

Rheology (PL=Power Law, BP= Bingam Plastic)

Temp	600	300	200	100	6	3	n'	k'	Yp	Pv	Best
80	102	67	55	42	27	22	0.216	0.168	29.0	40.5	BP
80	102	65	53	40	26	21	0.217	0.161	27.6	39.6	BP
ave	102	66	54	41	27	22	0.211	0.169	28.7	39.6	BP
141	87	63	45	36	23	18	0.226	0.138	23.3	39.3	BP

Tenaris

Casing and Tubing Performance Data

PIPE BODY DATA

GEOMETRY

Outside Diameter	13.375 in	Wall Thickness	0.380 in	API Drift Diameter	12.459 in
Nominal Weight	54.50 lbs/ft	Nominal ID	12.615 in	Alternative Drift Diameter	n.a.
Plain End Weight	52.79 lbs/ft	Nominal cross section	15.513 in		

PERFORMANCE

Steel Grade	J55	Minimum Yield	55,000 psi	Minimum Ultimate	75,000 psi
Tension Yield	853,000 in	Internal Pressure Yield	2,730 psi	Collapse Pressure	1,130 psi
Available Seamless	Yes	Available Welded	Yes		

CONNECTION DATA

TYPE: STC

GEOMETRY

Coupling Reg OD	14.375 in	Threads per in	8	Thread turns make up	3.5

PERFORMANCE

Steel Grade	J55	Coupling Min Yield	55,000 psi	Coupling Min Ultimate	75,000 psi
Joint Strength	514,000 lbs			Internal Pressure Resistance	2,730 psi

Tenaris

Data Sheet

TH DS-14.0494 10 Nov 15
Rev 02

9 5/8" 40.00 ppf L80-IC - BTC

(USC Units)

PIPE BODY DATA					
GEOMETRY					
Nominal OD	9.625 in.	**Nominal Weight**	40.00 lbs/ft	**Standard Drift Diameter**	8.679 in.
Nominal ID	8.835 in.	**Wall Thickness**	0.395 in.	**Special Drift Diameter**	8.750 in.
Plain End Weight	38.97 lbs/ft				
PERFORMANCE					
Body Yield Strength	916 x 1000 lbs	**Internal Yield**	5750 psi	**Collapse**	3530 psi

CONNECTION DATA					
GEOMETRY					
Coupling Regular OD	10.625 in.	**Threads per inch**	5	**Hand-Tight Standoff Thread Turns**	1.000
PERFORMANCE (1)					
Joint Strength	947 x 1000 lbs.	**Internal Pressure Resistance**	5750 psi		

(1) Performance calculated according to API Standards 5CT and 5B and API Technical Report 5C3.
Joint Strength as per API TR 5C3 1st Edition/ISO 10400:2007 - Section 9
Internal Pressure Resistance as per API TR 5C3 1st Edition/ISO 10400:2007 - Section 10

Tenaris

Blue®

Coupling	Pipe Body
Grade: **TN 110SS**	Grade: **TN 110SS**
Body: **Brown**	1st Band: **Pink**
1st Band: **Pink**	2nd Band: **Yellow**
2nd Band: **Yellow**	3rd Band: **Brown**
3rd Band: **-**	4th Band: **-**

Outside Diameter	7.000 in.	**Wall Thickness**	0.408 in.	**Grade**	TN 110SS
Min. Wall Thickness	87.50 %	**Drift**	API Standard	**Type**	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	7.000 in.	**Wall Thickness**	0.408 in.	**Body Yield Strength**	929 x1000 lb
Nominal Weight	29 lb/ft	**Plain End Weight**	28.75 lb/ft	**Min. Internal Yield Pressure**	11,220 psi
Drift	6.059 in.	**OD Tolerance**	API	**SMYS**	110,000 psi
Nominal ID	6.184 in.			**Collapse Pressure**	8530 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	7.677 in.	**Tension Efficiency**	100 %	**Minimum**	10,480 ft-lb
Coupling Length	10.551 in.	**Joint Yield Strength**	929 x1000 lb	**Optimum**	11,640 ft-lb
Connection ID	6.118 in.	**Internal Pressure Capacity**	11,220 psi	**Maximum**	12,800 ft-lb
Make-up Loss	4.480 in.	**Compression Efficiency**	100 %		
Threads per inch	4	**Compression Strength**	929 x1000 lb	**Shoulder Torques**	
Connection OD Option	Regular	**Max. Allowable Bending**	72 °/100 ft	**Minimum**	1750 ft-lb
		External Pressure Capacity	8530 psi	**Maximum**	9890 ft-lb
		Coupling Face Load	433,000 lb	**Operation Limit Torques**	
				Operating Torque	29,100 ft-lb
				Yield Torque	36,380 ft-lb

Notes

This connection is fully interchangeable with:
Blue® - 7 in. - 23 / 24.75 / 26 / 32 / 35 / 38 / 41 / 44 lb/ft
Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version
Datasheet is also valid for Special Bevel option when applicable - except for Coupling Face Load, which will be reduced. Please contact a local Tenaris technical sales representative.

For the lastest performance data, always visit our website: www.tenaris.com

Stewart
Tubular Products, LLC.

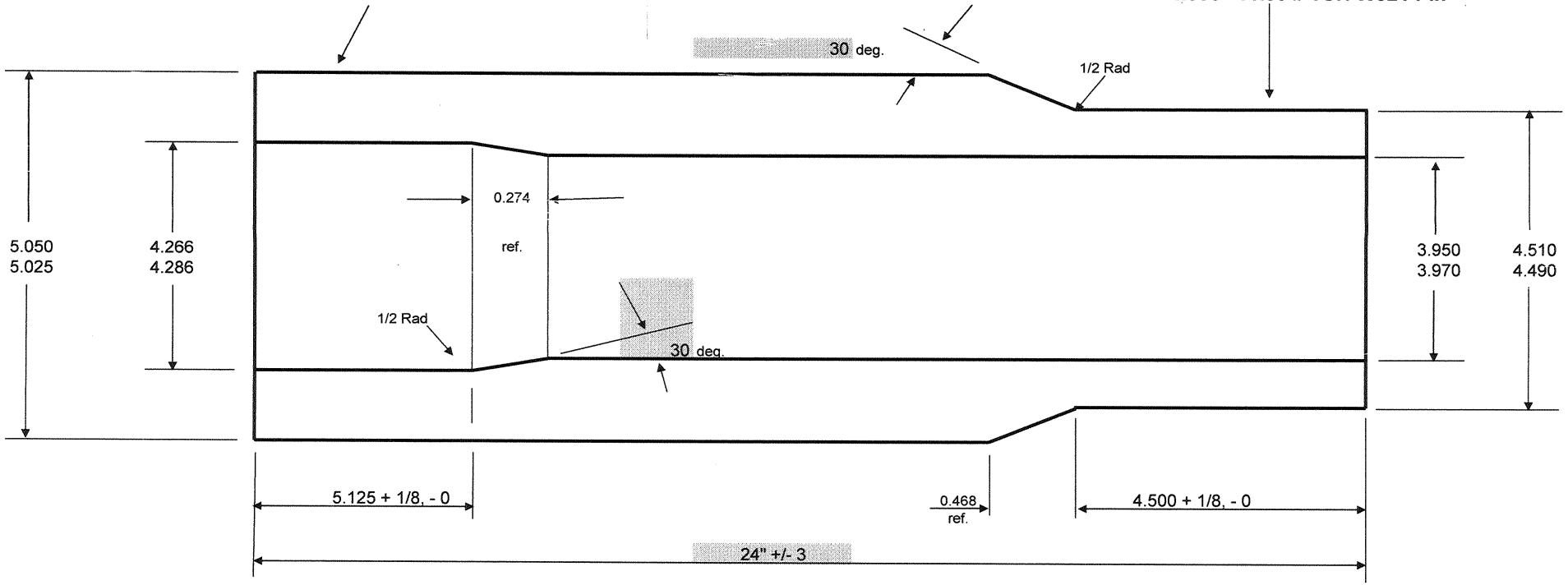
END 'A'

5.000" 18.00 # TSH W513 Box

Traveler #
210555B

END 'B'

4.500" 11.60 # TSH W521 Pin



Notes, End 'A'

Note 1: ODs and IDs on this end must be concentric to within .010 TIR.

Notes, End 'B'

Note 1: ODs and IDs on this end must be concentric to within .010 TIR.

Note 2: Hold the ID dimension on this end for at least 4.500". After that, ID is acceptable as long as it does not exceed 3.970" AND the part will pass the drift mandrel size listed below.

Revision Changes

Min length per STP design requirements =	

Special drift? =	
Drift size =	3.875

Stewart Tubular Products, LLC		
Title: Crossover sub;	Material type:	
Desc.: 5.000" 18.00 # TSH W513 Box X 4.500" 11.60 # TSH W521 Pin		
Rev: 0	Date:	5/13/2021
Drawn by: SRY	Reviewed by:	
Page 1 of 1	Not to Scale	

Wedge 521®

Printed on: 05/09/2019

Outside Diameter	**4.500** in.	**Min. Wall Thickness**	**87.5%**	**(*) Grade P110**	
Wall Thickness	**0.250** in.	**Connection OD Option**	**REGULAR**	**COUPLING**	**PIPE BODY**
Grade	**P110***	**Drift**	**API Standard**	Body: **White** 1st Band: **-** 2nd Band: **-** 3rd Band: **-**	1st Band: **White** 2nd Band: **-** 3rd Band: **-** 4th Band: **-**
		Type	**Casing**		

PIPE BODY DATA

GEOMETRY

Nominal OD	**4.500** in.	Nominal Weight	**11.60** lbs/ft	Drift	**3.875** in.
Nominal ID	**4.000** in.	Wall Thickness	**0.250** in.	Plain End Weight	**11.36** lbs/ft
OD Tolerance	**API**				

PERFORMANCE

Body Yield Strength	**367** x1000 lbs	Internal Yield	**10690** psi	SMYS	**110000** psi
Collapse	**7580** psi				

CONNECTION DATA

GEOMETRY

Connection OD	**4.695** in.	Connection ID	**3.960** in.	Make-up Loss	**3.620** in.
Threads per in	**3.36**	Connection OD Option	**REGULAR**		

PERFORMANCE

Tension Efficiency	**64.2** %	Joint Yield Strength	**235.614** x1000 lbs	Internal Pressure Capacity	**10690.000** psi
Compression Efficiency	**84.8** %	Compression Strength	**311.216** x1000 lbs	Max. Allowable Bending	**71.9** °/100 ft
External Pressure Capacity	**7580.000** psi				

MAKE-UP TORQUES

Minimum	**3600** ft-lbs	Optimum	**4300** ft-lbs	Maximum	**6300** ft-lbs

OPERATION LIMIT TORQUES

Operating Torque	**14000** ft-lbs	Yield Torque	**21000** ft-lbs		

Notes

This connection is fully interchangeable with:

Wedge 521® - 4.5 in. - 10.5 / 11 / 12.6 / 13.5 lbs/ft

Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version

For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

H_2S Preparedness and Contingency Plan Summary

Training

MCBU Drilling and Completions H_2S training requirements are intended to define the minimum level of training required for employees, contractors and visitors to enter or perform work at MCBU Drilling and Completions locations that have known concentrations of H_2S.

Awareness Level

Employees and visitors to MCBU Drilling and Completions locations that have known concentrations of H_2S, who are not required to perform work in H_2S areas, will be provided with an awareness level of H_2S training prior to entering any H_2S areas. At a minimum, awareness level training will include:

1. Physical and chemical properties of H_2S
2. Health hazards of H_2S
3. Personal protective equipment
4. Information regarding potential sources of H_2S
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_2S Training

Employees and contractors required to work in areas that may contain H_2S will be provided with Advanced Level H_2S training prior to initial assignment. In addition to the Awareness Level requirements, Advanced Level H_2S training will include:

1. H_2S safe work practice procedures;
2. Emergency contingency plan procedures;
3. Methods to detect the presence or release of H_2S (e.g., alarms, monitoring equipment), including hands-on training with direct reading and personal monitoring H_2S equipment.
4. Basic overview of respiratory protective equipment suitable for use in H_2S 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_2S training;
6. Proficiency examination covering all course material.

Advanced H_2S training courses will be instructed by personnel who have successfully completed an appropriate H_2S train-the-trainer development course (ANSI/ASSE Z390.1-2006) or who possess significant past experience through educational or work-related background.

H_2S Preparedness and Contingency Plan Summary

H_2S 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 up-wind 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_2S 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_2S Detection and Monitoring System

a) H_2S 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.

H_2S Preparedness and Contingency Plan Summary

Well Control Equipment

a) Flare Line 150' from wellhead with igniter.

b) Choke manifold with a remotely operated choke.

c) Mud / gas separator

Mud Program

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

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

Public Safety - Emergency Assistance

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

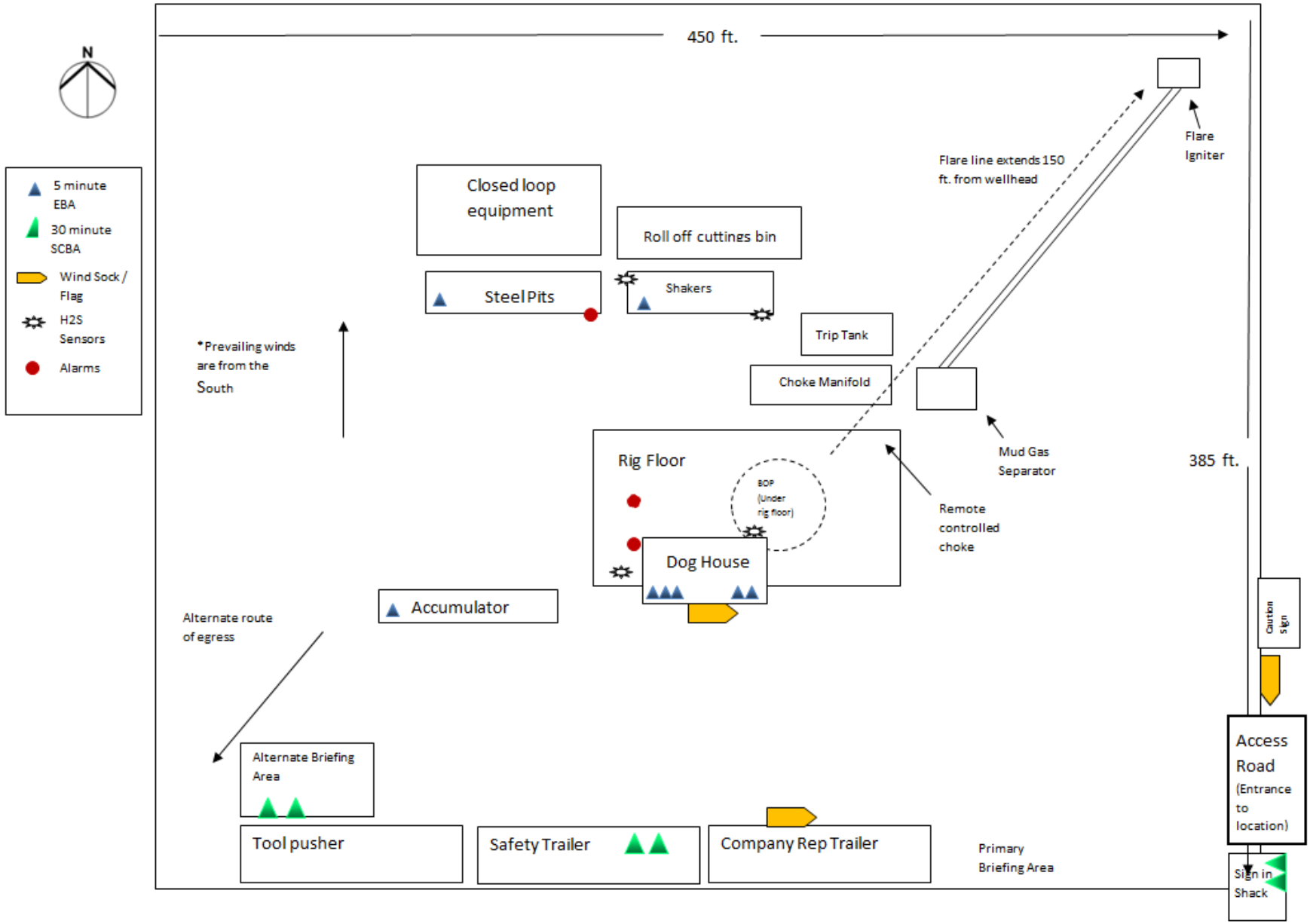
H_2S Preparedness and Contingency Plan Summary

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.	TBD	Superintendent		
5.	Steve Hassmann	Drilling Manager	(713) 372-4496	832-729-3236
6.	Kyle Eastman	Operations Manager	TBD	281-755-6554
7.	TBD	D&C HES		
8.	TBD	Completion Engineer		

H_2S Preparedness and Contingency Plan Summary



Schlumberger

SND Javelina Unit 12 1 P306 320H R0 mdv 30Jun22 Proposal Geodetic Report

(Def Plan)

Chevron

Report Date:	June 30, 2022 - 03:48 PM	**Survey / DLS Computation:**	Minimum Curvature / Lubinski
Client:	Chevron	**Vertical Section Azimuth:**	359.690 ° (Grid North)
Field:	NM, Eddy County (NAD 27 EZ)	**Vertical Section Origin:**	0.000 ft, 0.000 ft
Structure / Slot:	Chevron SND P306B / 320H	**TVD Reference Datum:**	RKB = 28ft
Well:	SND Javelina Unit 12 1 P306 320H	**TVD Reference Elevation:**	3615.000 ft above MSL
Borehole:	SND Javelina Unit 12 1 P306 320H	**Seabed / Ground Elevation:**	3587.000 ft above MSL
UWI / API#:	Unknown / Unknown	**Magnetic Declination:**	6.416 °
Survey Name:	SND Javelina Unit 12 1 P306 320H R0 mdv 30Jun22	**Total Gravity Field Strength:**	998.4292mgn (9.80665 Based)
Survey Date:	June 30, 2022	**Gravity Model:**	GARM
Tort / AHD / DDI / ERD Ratio:	99.210 ° / 10871.531 ft / 6.344 / 1.112	**Total Magnetic Field Strength:**	47593.843 nT
Coordinate Reference System:	NAD27 New Mexico State Plane, Eastern Zone, US Feet	**Magnetic Dip Angle:**	59.830 °
Location Lat / Long:	N 32° 13' 32.39787", W 103° 43' 29.68935"	**Declination Date:**	June 30, 2022
Location Grid N/E Y/X:	N 446349.000 ftUS, E 688145.000 ftUS	**Magnetic Declination Model:**	HDGM 2022
CRS Grid Convergence Angle:	0.3245 °	**North Reference:**	Grid North
Grid Scale Factor:	0.99994963	**Grid Convergence Used:**	0.3245 °
Version / Patch:	2.10.829.1	**Total Corr Mag North->Grid North:**	6.0920 °
		Local Coord Referenced To:	Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	446349.00	688145.00	N 32 13 32.40	W 103 43 29.69
	100.00	0.00	166.98	100.00	0.00	0.00	0.00	0.00	446349.00	688145.00	N 32 13 32.40	W 103 43 29.69
	200.00	0.00	166.98	200.00	0.00	0.00	0.00	0.00	446349.00	688145.00	N 32 13 32.40	W 103 43 29.69
	300.00	0.00	166.98	300.00	0.00	0.00	0.00	0.00	446349.00	688145.00	N 32 13 32.40	W 103 43 29.69
	400.00	0.00	166.98	400.00	0.00	0.00	0.00	0.00	446349.00	688145.00	N 32 13 32.40	W 103 43 29.69
Build 1.5°/100ft	500.00	0.00	166.98	500.00	0.00	0.00	0.00	0.00	446349.00	688145.00	N 32 13 32.40	W 103 43 29.69
	600.00	1.50	166.98	599.99	-1.28	-1.28	0.29	1.50	446347.72	688145.29	N 32 13 32.39	W 103 43 29.69
	700.00	3.00	166.98	699.91	-5.11	-5.10	1.18	1.50	446343.90	688146.18	N 32 13 32.35	W 103 43 29.68
	800.00	4.50	166.98	799.69	-11.49	-11.47	2.65	1.50	446337.53	688147.65	N 32 13 32.28	W 103 43 29.66
Hold	806.95	4.60	166.98	806.62	-12.02	-12.01	2.78	1.50	446336.99	688147.78	N 32 13 32.28	W 103 43 29.66
Rustler (RSLR)	*829.40*	*4.60*	*166.98*	*829.00*	*-13.78*	*-13.77*	*3.18*	*0.00*	*446335.23*	*688148.18*	*N 32 13 32.26*	*W 103 43 29.65*
	900.00	4.60	166.98	899.37	-19.31	-19.29	4.46	0.00	446329.71	688149.46	N 32 13 32.21	W 103 43 29.64
	1000.00	4.60	166.98	999.05	-27.14	-27.11	6.27	0.00	446321.89	688151.27	N 32 13 32.13	W 103 43 29.62
Rustler Los Medaños Member	*1037.07*	*4.60*	*166.98*	*1036.00*	*-30.04*	*-30.01*	*6.94*	*0.00*	*446318.99*	*688151.94*	*N 32 13 32.10*	*W 103 43 29.61*
Rustler Los Medaños M-1 Unit	*1057.14*	*4.60*	*166.98*	*1056.00*	*-31.62*	*-31.58*	*7.30*	*0.00*	*446317.42*	*688152.30*	*N 32 13 32.08*	*W 103 43 29.61*
	1100.00	4.60	166.98	1098.72	-34.97	-34.93	8.08	0.00	446314.07	688153.07	N 32 13 32.05	W 103 43 29.60
	1200.00	4.60	166.98	1198.40	-42.80	-42.75	9.88	0.00	446306.25	688154.88	N 32 13 31.97	W 103 43 29.58
Saldo (SLDO)	*1213.64*	*4.60*	*166.98*	*1212.00*	*-43.87*	*-43.82*	*10.13*	*0.00*	*446305.19*	*688155.13*	*N 32 13 31.96*	*W 103 43 29.57*
	1300.00	4.60	166.98	1298.08	-50.63	-50.57	11.69	0.00	446298.43	688156.69	N 32 13 31.90	W 103 43 29.56
	1400.00	4.60	166.98	1397.76	-58.46	-58.39	13.50	0.00	446290.61	688158.50	N 32 13 31.82	W 103 43 29.54
	1500.00	4.60	166.98	1497.43	-66.30	-66.21	15.31	0.00	446282.79	688160.31	N 32 13 31.74	W 103 43 29.52
	1600.00	4.60	166.98	1597.11	-74.13	-74.03	17.12	0.00	446274.97	688162.11	N 32 13 31.66	W 103 43 29.49
	1700.00	4.60	166.98	1696.79	-81.96	-81.86	18.92	0.00	446267.15	688163.92	N 32 13 31.59	W 103 43 29.47
	1800.00	4.60	166.98	1796.47	-89.79	-89.68	20.73	0.00	446259.33	688165.73	N 32 13 31.51	W 103 43 29.45
	1900.00	4.60	166.98	1896.14	-97.62	-97.50	22.54	0.00	446251.51	688167.54	N 32 13 31.43	W 103 43 29.43
	2000.00	4.60	166.98	1995.82	-105.45	-105.32	24.35	0.00	446243.69	688169.35	N 32 13 31.35	W 103 43 29.41
	2100.00	4.60	166.98	2095.50	-113.28	-113.14	26.16	0.00	446235.87	688171.15	N 32 13 31.28	W 103 43 29.39
	2200.00	4.60	166.98	2195.17	-121.11	-120.96	27.96	0.00	446228.05	688172.96	N 32 13 31.20	W 103 43 29.37
	2300.00	4.60	166.98	2294.85	-128.94	-128.78	29.77	0.00	446220.23	688174.77	N 32 13 31.12	W 103 43 29.35
	2400.00	4.60	166.98	2394.53	-136.77	-136.60	31.58	0.00	446212.40	688176.58	N 32 13 31.04	W 103 43 29.33
	2500.00	4.60	166.98	2494.21	-144.60	-144.42	33.39	0.00	446204.58	688178.39	N 32 13 30.97	W 103 43 29.31
	2600.00	4.60	166.98	2593.88	-152.43	-152.24	35.20	0.00	446196.76	688180.19	N 32 13 30.89	W 103 43 29.29
	2700.00	4.60	166.98	2693.56	-160.26	-160.07	37.00	0.00	446188.94	688182.00	N 32 13 30.81	W 103 43 29.27
	2800.00	4.60	166.98	2793.24	-168.09	-167.89	38.81	0.00	446181.12	688183.81	N 32 13 30.73	W 103 43 29.25
	2900.00	4.60	166.98	2892.92	-175.92	-175.71	40.62	0.00	446173.30	688185.62	N 32 13 30.66	W 103 43 29.23
	3000.00	4.60	166.98	2992.59	-183.76	-183.53	42.43	0.00	446165.48	688187.43	N 32 13 30.58	W 103 43 29.21
Castile (CSTL)	*3007.43*	*4.60*	*166.98*	*3000.00*	*-184.34*	*-184.11*	*42.56*	*0.00*	*446164.90*	*688187.56*	*N 32 13 30.57*	*W 103 43 29.21*
	3100.00	4.60	166.98	3092.27	-191.59	-191.35	44.24	0.00	446157.66	688189.23	N 32 13 30.50	W 103 43 29.19
	3200.00	4.60	166.98	3191.95	-199.42	-199.17	46.04	0.00	446149.84	688191.04	N 32 13 30.42	W 103 43 29.17
	3300.00	4.60	166.98	3291.62	-207.25	-206.99	47.85	0.00	446142.02	688192.85	N 32 13 30.35	W 103 43 29.15
	3400.00	4.60	166.98	3391.30	-215.08	-214.81	49.66	0.00	446134.20	688194.66	N 32 13 30.27	W 103 43 29.13
	3500.00	4.60	166.98	3490.98	-222.91	-222.63	51.47	0.00	446126.38	688196.47	N 32 13 30.19	W 103 43 29.10
	3600.00	4.60	166.98	3590.66	-230.74	-230.45	53.28	0.00	446118.56	688198.27	N 32 13 30.11	W 103 43 29.08
Marker TVDSS	*3624.42*	*4.60*	*166.98*	*3615.00*	*-232.65*	*-232.36*	*53.72*	*0.00*	*446116.65*	*688198.72*	*N 32 13 30.10*	*W 103 43 29.08*
	3700.00	4.60	166.98	3690.33	-238.57	-238.28	55.09	0.00	446110.74	688200.08	N 32 13 30.04	W 103 43 29.06
	3800.00	4.60	166.98	3790.01	-246.40	-246.10	56.89	0.00	446102.92	688201.89	N 32 13 29.96	W 103 43 29.04
	3900.00	4.60	166.98	3889.69	-254.23	-253.92	58.70	0.00	446095.10	688203.70	N 32 13 29.88	W 103 43 29.02
	4000.00	4.60	166.98	3989.37	-262.06	-261.74	60.51	0.00	446087.28	688205.51	N 32 13 29.80	W 103 43 29.00
	4100.00	4.60	166.98	4089.04	-269.89	-269.56	62.32	0.00	446079.45	688207.31	N 32 13 29.73	W 103 43 28.98
	4200.00	4.60	166.98	4188.72	-277.72	-277.38	64.13	0.00	446071.63	688209.12	N 32 13 29.65	W 103 43 28.96
	4300.00	4.60	166.98	4288.40	-285.55	-285.20	65.93	0.00	446063.81	688210.93	N 32 13 29.57	W 103 43 28.94
	4400.00	4.60	166.98	4388.07	-293.38	-293.02	67.74	0.00	446055.99	688212.74	N 32 13 29.49	W 103 43 28.92
	4500.00	4.60	166.98	4487.75	-301.22	-300.84	69.55	0.00	446048.17	688214.55	N 32 13 29.42	W 103 43 28.90
	4600.00	4.60	166.98	4587.43	-309.05	-308.66	71.36	0.00	446040.35	688216.35	N 32 13 29.34	W 103 43 28.88
Lamar (LMAR)	*4609.60*	*4.60*	*166.98*	*4597.00*	*-309.80*	*-309.42*	*71.53*	*0.00*	*446039.60*	*688216.53*	*N 32 13 29.33*	*W 103 43 28.88*
Bell Canyon (BEL)	*4649.73*	*4.60*	*166.98*	*4637.00*	*-312.94*	*-312.55*	*72.26*	*0.00*	*446036.46*	*688217.25*	*N 32 13 29.30*	*W 103 43 28.87*
	4700.00	4.60	166.98	4687.11	-316.88	-316.49	73.17	0.00	446032.53	688218.16	N 32 13 29.26	W 103 43 28.86
	4800.00	4.60	166.98	4786.78	-324.71	-324.31	74.97	0.00	446024.71	688219.97	N 32 13 29.18	W 103 43 28.84
	4900.00	4.60	166.98	4886.46	-332.54	-332.13	76.78	0.00	446016.89	688221.78	N 32 13 29.11	W 103 43 28.82
	5000.00	4.60	166.98	4986.14	-340.37	-339.95	78.59	0.00	446009.07	688223.59	N 32 13 29.03	W 103 43 28.80
	5100.00	4.60	166.98	5085.82	-348.20	-347.77	80.40	0.00	446001.25	688225.39	N 32 13 28.95	W 103 43 28.78
Drop 0.75°/100ft	5102.95	4.60	166.98	5088.76	-348.43	-348.00	80.45	0.00	446001.02	688225.45	N 32 13 28.95	W 103 43 28.78
	5200.00	3.88	166.98	5185.54	-355.43	-354.99	82.07	0.75	445994.03	688227.06	N 32 13 28.88	W 103 43 28.76
	5300.00	3.13	166.98	5285.35	-361.39	-360.94	83.44	0.75	445988.08	688228.44	N 32 13 28.82	W 103 43 28.74
	5400.00	2.38	166.98	5385.24	-366.07	-365.62	84.52	0.75	445983.40	688229.52	N 32 13 28.78	W 103 43 28.73
	5500.00	1.63	166.98	5485.17	-369.48	-369.02	85.31	0.75	445980.00	688230.31	N 32 13 28.74	W 103 43 28.72
Cherry Canyon (CHR)	*5543.84*	*1.30*	*166.98*	*5529.00*	*-370.57*	*-370.11*	*85.56*	*0.75*	*445978.91*	*688230.56*	*N 32 13 28.73*	*W 103 43 28.72*
	5600.00	0.88	166.98	5585.15	-371.61	-371.15	85.80	0.75	445977.87	688230.80	N 32 13 28.72	W 103 43 28.72
	5700.00	0.13	166.98	5685.15	-372.46	-372.00	86.00	0.75	445977.02	688231.00	N 32 13 28.71	W 103 43 28.71
Hold	5716.85	0.00	166.98	5702.00	-372.48	-372.02	86.00	0.75	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	5800.00	0.00	166.98	5785.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71

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 ° ' ")
	5900.00	0.00	166.98	5885.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	6000.00	0.00	166.98	5985.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	6100.00	0.00	166.98	6085.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	6200.00	0.00	166.98	6185.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	6300.00	0.00	166.98	6285.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	6400.00	0.00	166.98	6385.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	6500.00	0.00	166.98	6485.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	6600.00	0.00	166.98	6585.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	6700.00	0.00	166.98	6685.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
Brushy Canyon (BCN)	*6751.85*	*0.00*	*166.98*	*6737.00*	*-372.48*	*-372.02*	*86.00*	*0.00*	*445977.00*	*688231.00*	*N 32 13 28.71*	*W 103 43 28.71*
	6800.00	0.00	166.98	6785.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	6900.00	0.00	166.98	6885.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	7000.00	0.00	166.98	6985.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	7100.00	0.00	166.98	7085.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	7200.00	0.00	166.98	7185.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	7300.00	0.00	166.98	7285.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	7400.00	0.00	166.98	7385.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	7500.00	0.00	166.98	7485.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	7600.00	0.00	166.98	7585.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	7700.00	0.00	166.98	7685.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	7800.00	0.00	166.98	7785.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	7900.00	0.00	166.98	7885.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	8000.00	0.00	166.98	7985.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	8100.00	0.00	166.98	8085.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	8200.00	0.00	166.98	8185.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	8300.00	0.00	166.98	8285.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	8400.00	0.00	166.98	8385.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	8500.00	0.00	166.98	8485.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
Bone Spring Lime (BSL)	*8518.85*	*0.00*	*166.98*	*8504.00*	*-372.48*	*-372.02*	*86.00*	*0.00*	*445977.00*	*688231.00*	*N 32 13 28.71*	*W 103 43 28.71*
Upper Avalon (AVU)	*8575.85*	*0.00*	*166.98*	*8561.00*	*-372.48*	*-372.02*	*86.00*	*0.00*	*445977.00*	*688231.00*	*N 32 13 28.71*	*W 103 43 28.71*
	8600.00	0.00	166.98	8585.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	8700.00	0.00	166.98	8685.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	8800.00	0.00	166.98	8785.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	8900.00	0.00	166.98	8885.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	9000.00	0.00	166.98	8985.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
Lower Avalon (AVL)	*9049.85*	*0.00*	*166.98*	*9035.00*	*-372.48*	*-372.02*	*86.00*	*0.00*	*445977.00*	*688231.00*	*N 32 13 28.71*	*W 103 43 28.71*
	9100.00	0.00	166.98	9085.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	9200.00	0.00	166.98	9185.15	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
Build 10°/100ft	9216.85	0.00	166.98	9202.00	-372.48	-372.02	86.00	0.00	445977.00	688231.00	N 32 13 28.71	W 103 43 28.71
	9300.00	8.31	359.69	9284.85	-366.46	-366.00	85.97	10.00	445983.02	688230.97	N 32 13 28.77	W 103 43 28.71
	9400.00	18.31	359.69	9382.04	-343.46	-343.00	85.85	10.00	446006.02	688230.84	N 32 13 29.00	W 103 43 28.71
FTP Cross	*9458.00*	*24.11*	*359.69*	*9436.09*	*-322.48*	*-322.02*	*85.74*	*10.00*	*446027.00*	*688230.73*	*N 32 13 29.21*	*W 103 43 28.71*
	9500.00	28.31	359.69	9473.76	-303.93	-303.47	85.64	10.00	446045.55	688230.63	N 32 13 29.39	W 103 43 28.71
	9600.00	38.31	359.69	9557.22	-249.08	-248.62	85.34	10.00	446100.40	688230.34	N 32 13 29.93	W 103 43 28.71
First Bone Spring Upper (FBU)	*9654.07*	*43.72*	*359.69*	*9598.00*	*-213.60*	*-213.15*	*85.15*	*10.00*	*446135.86*	*688230.15*	*N 32 13 30.28*	*W 103 43 28.71*
	9700.00	48.31	359.69	9629.89	-180.56	-180.11	84.98	10.00	446168.90	688229.97	N 32 13 30.61	W 103 43 28.71
	9800.00	58.31	359.69	9689.56	-100.47	-100.02	84.55	10.00	446248.99	688229.54	N 32 13 31.40	W 103 43 28.71
	9900.00	68.31	359.69	9734.41	-11.24	-10.78	84.07	10.00	446338.22	688229.07	N 32 13 32.29	W 103 43 28.71
	10000.00	78.31	359.69	9763.08	84.43	84.89	83.56	10.00	446433.88	688228.55	N 32 13 33.23	W 103 43 28.71
	10100.00	88.31	359.69	9774.71	183.63	184.08	83.03	10.00	446533.07	688228.02	N 32 13 34.21	W 103 43 28.71
Landing Point	10116.85	90.00	359.69	9774.96	200.47	200.92	82.94	10.00	446549.91	688227.93	N 32 13 34.38	W 103 43 28.71
	10200.00	90.00	359.69	9774.96	283.62	284.07	82.49	0.00	446633.06	688227.49	N 32 13 35.20	W 103 43 28.71
	10300.00	90.00	359.69	9774.96	383.62	384.07	81.96	0.00	446733.05	688226.95	N 32 13 36.19	W 103 43 28.71
	10400.00	90.00	359.69	9774.96	483.62	484.07	81.42	0.00	446833.05	688226.42	N 32 13 37.18	W 103 43 28.71
	10500.00	90.00	359.69	9774.96	583.62	584.07	80.89	0.00	446933.04	688225.88	N 32 13 38.17	W 103 43 28.71
	10600.00	90.00	359.69	9774.96	683.62	684.07	80.35	0.00	447033.03	688225.35	N 32 13 39.16	W 103 43 28.71
	10700.00	90.00	359.69	9774.96	783.62	784.07	79.82	0.00	447133.03	688224.81	N 32 13 40.15	W 103 43 28.71
	10800.00	90.00	359.69	9774.96	883.62	884.07	79.28	0.00	447233.02	688224.28	N 32 13 41.14	W 103 43 28.71
	10900.00	90.00	359.69	9774.96	983.62	984.06	78.75	0.00	447333.01	688223.74	N 32 13 42.13	W 103 43 28.71
	11000.00	90.00	359.69	9774.97	1083.62	1084.06	78.21	0.00	447433.01	688223.21	N 32 13 43.12	W 103 43 28.71
	11100.00	90.00	359.69	9774.97	1183.62	1184.06	77.68	0.00	447533.00	688222.67	N 32 13 44.11	W 103 43 28.71
	11200.00	90.00	359.69	9774.97	1283.62	1284.06	77.14	0.00	447632.99	688222.14	N 32 13 45.10	W 103 43 28.71
	11300.00	90.00	359.69	9774.97	1383.62	1384.06	76.60	0.00	447732.99	688221.60	N 32 13 46.09	W 103 43 28.71
	11400.00	90.00	359.69	9774.97	1483.62	1484.06	76.07	0.00	447832.98	688221.07	N 32 13 47.08	W 103 43 28.71
	11500.00	90.00	359.69	9774.97	1583.62	1584.06	75.53	0.00	447932.97	688220.53	N 32 13 48.07	W 103 43 28.71
	11600.00	90.00	359.69	9774.97	1683.62	1684.05	75.00	0.00	448032.97	688220.00	N 32 13 49.06	W 103 43 28.71
	11700.00	90.00	359.69	9774.97	1783.62	1784.05	74.46	0.00	448132.96	688219.46	N 32 13 50.05	W 103 43 28.70
	11800.00	90.00	359.69	9774.97	1883.62	1884.05	73.93	0.00	448232.95	688218.92	N 32 13 51.04	W 103 43 28.70
	11900.00	90.00	359.69	9774.97	1983.62	1984.05	73.39	0.00	448332.95	688218.39	N 32 13 52.03	W 103 43 28.70
	12000.00	90.00	359.69	9774.97	2083.62	2084.05	72.86	0.00	448432.94	688217.85	N 32 13 53.02	W 103 43 28.70
	12100.00	90.00	359.69	9774.98	2183.62	2184.05	72.32	0.00	448532.93	688217.32	N 32 13 54.01	W 103 43 28.70
	12200.00	90.00	359.69	9774.98	2283.62	2284.05	71.79	0.00	448632.93	688216.78	N 32 13 55.00	W 103 43 28.70
	12300.00	90.00	359.69	9774.98	2383.62	2384.04	71.25	0.00	448732.92	688216.25	N 32 13 55.98	W 103 43 28.70
	12400.00	90.00	359.69	9774.98	2483.62	2484.04	70.72	0.00	448832.91	688215.71	N 32 13 56.97	W 103 43 28.70
	12500.00	90.00	359.69	9774.98	2583.62	2584.04	70.18	0.00	448932.91	688215.18	N 32 13 57.96	W 103 43 28.70
	12600.00	90.00	359.69	9774.98	2683.62	2684.04	69.65	0.00	449032.90	688214.64	N 32 13 58.95	W 103 43 28.70
	12700.00	90.00	359.69	9774.98	2783.62	2784.04	69.11	0.00	449132.89	688214.11	N 32 13 59.94	W 103 43 28.70
	12800.00	90.00	359.69	9774.98	2883.62	2884.04	68.58	0.00	449232.89	688213.57	N 32 14 0.93	W 103 43 28.70
	12900.00	90.00	359.69	9774.98	2983.62	2984.04	68.04	0.00	449332.88	688213.04	N 32 14 1.92	W 103 43 28.70
	13000.00	90.00	359.69	9774.98	3083.62	3084.03	67.51	0.00	449432.87	688212.50	N 32 14 2.91	W 103 43 28.70
	13100.00	90.00	359.69	9774.98	3183.62	3184.03	66.97	0.00	449532.87	688211.97	N 32 14 3.90	W 103 43 28.70
	13200.00	90.00	359.69	9774.99	3283.62	3284.03	66.43	0.00	449632.86	688211.43	N 32 14 4.89	W 103 43 28.70
	13300.00	90.00	359.69	9774.99	3383.62	3384.03	65.90	0.00	449732.85	688210.90	N 32 14 5.88	W 103 43 28.70
	13400.00	90.00	359.69	9774.99	3483.62	3484.03	65.36	0.00	449832.85	688210.36	N 32 14 6.87	W 103 43 28.70
	13500.00	90.00	359.69	9774.99	3583.62	3584.03	64.83	0.00	449932.84	688209.83	N 32 14 7.86	W 103 43 28.70
	13600.00	90.00	359.69	9774.99	3683.62	3684.03	64.29	0.00	450032.83	688209.29	N 32 14 8.85	W 103 43 28.70
	13700.00	90.00	359.69	9774.99	3783.62	3784.02	63.76	0.00	450132.83	688208.76	N 32 14 9.84	W 103 43 28.70
	13800.00	90.00	359.69	9774.99	3883.62	3884.02	63.22	0.00	450232.82	688208.22	N 32 14 10.83	W 103 43 28.70
	13900.00	90.00	359.69	9774.99	3983.62	3984.02	62.69	0.00	450332.81	688207.68	N 32 14 11.82	W 103 43 28.70
	14000.00	90.00	359.69	9774.99	4083.62	4084.02	62.15	0.00	450432.81	688207.15	N 32 14 12.81	W 103 43 28.70
	14100.00	90.00	359.69	9774.99	4183.62	4184.02	61.62	0.00	450532.80	688206.61	N 32 14 13.80	W 103 43 28.70
	14200.00	90.00	359.69	9774.99	4283.62	4284.02	61.08	0.00	450632.79	688206.08	N 32 14 14.79	W 103 43 28.70
	14300.00	90.00	359.69	9775.00	4383.62	4384.02	60.55	0.00	450732.79	688205.54	N 32 14 15.78	W 103 43 28.70
	14400.00	90.00	359.69	9775.00	4483.62	4484.01	60.01	0.00	450832.78	688205.01	N 32 14 16.77	W 103 43 28.70
	14500.00	90.00	359.69	9775.00	4583.62	4584.01	59.48	0.00	450932.77	688204.47	N 32 14 17.75	W 103 43 28.69
	14600.00	90.00	359.69	9775.00	4683.62	4684.01	58.94	0.00	451032.77	688203.94	N 32 14 18.74	W 103 43 28.69
	14700.00	90.00	359.69	9775.00	4783.62	4784.01	58.41	0.00	451132.76	688203.40	N 32 14 19.73	W 103 43 28.69
MP, turn 2 DLS	14775.25	90.00	359.69	9775.00	4858.87	4859.25	58.00	0.00	451208.00	688203.00	N 32 14 20.48	W 103 43 28.69
Hold	14775.33	90.00	359.69	9775.00	4858.95	4859.34	58.00	2.00	451208.08	688203.00	N 32 14 20.48	W 103 43 28.69
	14800.00	90.00	359.69	9775.00	4883.62	4884.01	57.87	0.00	451232.75	688202.87	N 32 14 20.72	W 103 43 28.69
	14900.00	90.00	359.69	9775.00	4983.62	4984.01	57.34	0.00	451332.75	688202.34	N 32 14 21.71	W 103 43 28.69
	15000.00	90.00	359.69	9775.00	5083.62	5084.01	56.81	0.00	451432.74	688201.80	N 32 14 22.70	W 103 43 28.69
	15100.00	90.00	359.69	9775.00	5183.62	5184.00	56.27	0.00	451532.73	688201.27	N 32 14 23.69	W 103 43 28.69

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 ° ' ")
	15200.00	90.00	359.69	9775.00	5283.62	5284.00	55.74	0.00	451632.73	688200.74	N 32 14 24.68	W 103 43 28.69
	15300.00	90.00	359.69	9775.00	5383.62	5384.00	55.21	0.00	451732.72	688200.21	N 32 14 25.67	W 103 43 28.69
	15400.00	90.00	359.69	9775.00	5483.62	5484.00	54.68	0.00	451832.71	688199.67	N 32 14 26.66	W 103 43 28.69
	15500.00	90.00	359.69	9775.00	5583.62	5584.00	54.14	0.00	451932.71	688199.14	N 32 14 27.65	W 103 43 28.69
	15600.00	90.00	359.69	9775.00	5683.62	5684.00	53.61	0.00	452032.70	688198.61	N 32 14 28.64	W 103 43 28.69
	15700.00	90.00	359.69	9775.00	5783.62	5784.00	53.08	0.00	452132.69	688198.08	N 32 14 29.63	W 103 43 28.69
	15800.00	90.00	359.69	9775.00	5883.62	5883.99	52.55	0.00	452232.69	688197.54	N 32 14 30.62	W 103 43 28.69
	15900.00	90.00	359.69	9775.00	5983.62	5983.99	52.01	0.00	452332.68	688197.01	N 32 14 31.61	W 103 43 28.69
	16000.00	90.00	359.69	9775.00	6083.62	6083.99	51.48	0.00	452432.67	688196.48	N 32 14 32.60	W 103 43 28.69
	16100.00	90.00	359.69	9775.00	6183.62	6183.99	50.95	0.00	452532.67	688195.95	N 32 14 33.59	W 103 43 28.69
	16200.00	90.00	359.69	9775.00	6283.62	6283.99	50.42	0.00	452632.66	688195.41	N 32 14 34.58	W 103 43 28.69
	16300.00	90.00	359.69	9775.00	6383.62	6383.99	49.88	0.00	452732.65	688194.88	N 32 14 35.57	W 103 43 28.69
	16400.00	90.00	359.69	9775.00	6483.62	6483.99	49.35	0.00	452832.65	688194.35	N 32 14 36.56	W 103 43 28.69
	16500.00	90.00	359.69	9775.00	6583.62	6583.98	48.82	0.00	452932.64	688193.82	N 32 14 37.55	W 103 43 28.69
	16600.00	90.00	359.69	9775.00	6683.62	6683.98	48.29	0.00	453032.63	688193.28	N 32 14 38.54	W 103 43 28.69
	16700.00	90.00	359.69	9775.00	6783.62	6783.98	47.75	0.00	453132.63	688192.75	N 32 14 39.52	W 103 43 28.69
	16800.00	90.00	359.69	9775.00	6883.62	6883.98	47.22	0.00	453232.62	688192.22	N 32 14 40.51	W 103 43 28.69
	16900.00	90.00	359.69	9775.00	6983.62	6983.98	46.69	0.00	453332.61	688191.69	N 32 14 41.50	W 103 43 28.69
	17000.00	90.00	359.69	9775.00	7083.62	7083.98	46.16	0.00	453432.61	688191.15	N 32 14 42.49	W 103 43 28.68
	17100.00	90.00	359.69	9775.00	7183.62	7183.98	45.62	0.00	453532.60	688190.62	N 32 14 43.48	W 103 43 28.68
	17200.00	90.00	359.69	9775.00	7283.62	7283.97	45.09	0.00	453632.59	688190.09	N 32 14 44.47	W 103 43 28.68
	17300.00	90.00	359.69	9775.00	7383.62	7383.97	44.56	0.00	453732.59	688189.56	N 32 14 45.46	W 103 43 28.68
	17400.00	90.00	359.69	9775.00	7483.62	7483.97	44.03	0.00	453832.58	688189.02	N 32 14 46.45	W 103 43 28.68
	17500.00	90.00	359.69	9775.00	7583.62	7583.97	43.49	0.00	453932.57	688188.49	N 32 14 47.44	W 103 43 28.68
	17600.00	90.00	359.69	9775.00	7683.62	7683.97	42.96	0.00	454032.57	688187.96	N 32 14 48.43	W 103 43 28.68
	17700.00	90.00	359.69	9775.00	7783.62	7783.97	42.43	0.00	454132.56	688187.43	N 32 14 49.42	W 103 43 28.68
	17800.00	90.00	359.69	9775.00	7883.62	7883.97	41.90	0.00	454232.55	688186.89	N 32 14 50.41	W 103 43 28.68
	17900.00	90.00	359.69	9775.00	7983.62	7983.96	41.36	0.00	454332.55	688186.36	N 32 14 51.40	W 103 43 28.68
	18000.00	90.00	359.69	9775.00	8083.62	8083.96	40.83	0.00	454432.54	688185.83	N 32 14 52.39	W 103 43 28.68
	18100.00	90.00	359.69	9775.00	8183.62	8183.96	40.30	0.00	454532.53	688185.30	N 32 14 53.38	W 103 43 28.68
	18200.00	90.00	359.69	9775.00	8283.62	8283.96	39.77	0.00	454632.53	688184.76	N 32 14 54.37	W 103 43 28.68
	18300.00	90.00	359.69	9775.00	8383.62	8383.96	39.23	0.00	454732.52	688184.23	N 32 14 55.36	W 103 43 28.68
	18400.00	90.00	359.69	9775.00	8483.62	8483.96	38.70	0.00	454832.51	688183.70	N 32 14 56.35	W 103 43 28.68
	18500.00	90.00	359.69	9775.00	8583.62	8583.96	38.17	0.00	454932.51	688183.17	N 32 14 57.34	W 103 43 28.68
	18600.00	90.00	359.69	9775.00	8683.62	8683.95	37.64	0.00	455032.50	688182.63	N 32 14 58.33	W 103 43 28.68
	18700.00	90.00	359.69	9775.00	8783.62	8783.95	37.10	0.00	455132.49	688182.10	N 32 14 59.32	W 103 43 28.68
	18800.00	90.00	359.69	9775.00	8883.62	8883.95	36.57	0.00	455232.49	688181.57	N 32 15 0.31	W 103 43 28.68
	18900.00	90.00	359.69	9775.00	8983.62	8983.95	36.04	0.00	455332.48	688181.04	N 32 15 1.29	W 103 43 28.68
	19000.00	90.00	359.69	9775.00	9083.62	9083.95	35.51	0.00	455432.47	688180.50	N 32 15 2.28	W 103 43 28.68
	19100.00	90.00	359.69	9775.00	9183.62	9183.95	34.97	0.00	455532.47	688179.97	N 32 15 3.27	W 103 43 28.68
	19200.00	90.00	359.69	9775.00	9283.62	9283.95	34.44	0.00	455632.46	688179.44	N 32 15 4.26	W 103 43 28.68
	19300.00	90.00	359.69	9775.00	9383.62	9383.94	33.91	0.00	455732.45	688178.91	N 32 15 5.25	W 103 43 28.68
	19400.00	90.00	359.69	9775.00	9483.62	9483.94	33.38	0.00	455832.45	688178.37	N 32 15 6.24	W 103 43 28.68
	19500.00	90.00	359.69	9775.00	9583.62	9583.94	32.84	0.00	455932.44	688177.84	N 32 15 7.23	W 103 43 28.67
	19600.00	90.00	359.69	9775.00	9683.62	9683.94	32.31	0.00	456032.43	688177.31	N 32 15 8.22	W 103 43 28.67
	19700.00	90.00	359.69	9775.00	9783.62	9783.94	31.78	0.00	456132.43	688176.78	N 32 15 9.21	W 103 43 28.67
	19800.00	90.00	359.69	9775.00	9883.62	9883.94	31.25	0.00	456232.42	688176.24	N 32 15 10.20	W 103 43 28.67
	19900.00	90.00	359.69	9775.00	9983.62	9983.94	30.71	0.00	456332.41	688175.71	N 32 15 11.19	W 103 43 28.67
LPT Cross	*19958.59*	*90.00*	*359.69*	*9775.00*	*10042.22*	*10042.53*	*30.40*	*0.00*	*456391.00*	*688175.40*	*N 32 15 11.77*	*W 103 43 28.67*
	20000.00	90.00	359.69	9775.00	10083.62	10083.93	30.18	0.00	456432.41	688175.18	N 32 15 12.18	W 103 43 28.67
SND Javelina Unit 12 1 P306 320H BHL	20033.60	90.00	359.69	9775.00	10117.22	10117.53	30.00	0.00	456466.00	688175.00	N 32 15 12.51	W 103 43 28.67

Survey Type: Def Plan

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

Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	28.000	1/100.000	30.000	30.000		B001Mb_MWD+HRGM-Depth Only	SND Javelina Unit 12 1 P306 320H / SND Javelina Unit 12 1 P306 320H R0 mdv 30Jun22
	1	28.000	20033.596	1/100.000	30.000	30.000		B001Mb_MWD+HRGM	SND Javelina Unit 12 1 P306 320H / SND Javelina Unit 12 1

Pad Summary: Sand Dunes Pad 306 Phase B

The table below lists all the wells for the given pad and their respective name and TVD's (ft) for their production target intervals:

Well Name(s)	Target TVD	Formation Desc.
SND JAVELINA UNIT 12 1 P306 478H	11,171	Second bonespring
SND JAVELINA UNIT 12 1 P306 319H	9,771	First bonespring
SND JAVELINA UNIT 12 1 P306 479H	11,011	Second bonespring
SND JAVELINA UNIT 12 1 P306 320H	9,775	First bonespring
SND JAVELINA UNIT 12 1 P306 480H	11,171	Second bonespring

1. **GEOLOICAL TOPS**

Elevation: As seen in C102

The estimated tops of important geologic markers are as follows:

FORMATION	LITHOLOGIES	TVD	MD	Producing Formation?
Rustler (RSLR)	Dolomite/Anhydrite	822	822	No
Rustler Los Medaños Member	Mudstone/Sandstone	1,031	1,031	No
Salado (SLDO)	Halite	1,203	1,203	No
Castile (CSTL)	Anhydrite	2,990	2,990	No
Lamar (LMAR)	Limestone	4,610	4,610	No
Bell Canyon (BEL)	Sandstone	4,660	4,660	No
Cherry Canyon (CHR)	Sandstone	5,516	5,530	No
Brushy Canyon (BCN)	Siltstone	6,833	6,847	No
Bone Spring Lime (BSL)	Limestone	8,490	8,504	No
Upper Avalon (AVU)	Limestone/Shale	8,543	8,557	No
First Bone Spring Upper (FBU)	Sandstone	9,569	9,583	Yes: Oil & Natural Gas

WELLBORE LOCATIONS	MD	TVD
SHL	-	-
KOP	9,216	9,202
FTP	9,458	9,436
LTP	19,958	9,775
BHL	20,033	9,775

2. **BOP EQUIPMENT AND TESTING**

Rating Depth 9,775 TVD

Equipment

Chevron will have a minimum of a 5,000 psi rig stack (see proposed schematic) for drill out below surface casing.

Request Variance: Yes

Variance Request(s)

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 lateral sections unless the BOP connection was not broken prior to drilling that hole section (example: drilling straight from production into production liner hole section). A break test will only be performed on operations where BLM documentation states a 5M or less BOP can be utilized.

Chevron respectfully 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.

Testing Procedure

The stack will be tested as specified in the attached testing requirements. Batch drilling of the surface, production, and production liner will take place. A full BOP test will be performed per hole section, unless approval from BLM is received otherwise (see variance request). Flex choke hose will be used for all wells on the pad (see attached specs and variance). BOP test pressures and other documented tests may be recorded and documented via utilization of the IPT 'Suretec' Digital BOP Test Method in lieu of the standard test chart. In the event the IPT system is unavailable, the standard test chart will be used.

3. **CASING PROGRAM**

a. The proposed PRIMARY casing program will be as follows:

Purpose	Top (MD)	Top (TVD)	Bot (MD)	Bot (TVD)	Hole Size	Csg Size	Weight	Grade	Thread
Surface	0'	0'	1,056'	1,056'	17.5" / 16"	13.375"	54.5 #	J-55	BTC/STC
Intermediate	0'	0'	4,585'	4,585'	12.25"	9.625"	40.0 #	L-80	BTC/LTC
Production	0'	0'	9,216'	9,202'	8.75"	7"	29.0 #	TN-110S	BLUE
Production Liner†	8,916'	8,666'	9,666'	9,602'	6.125"	5"	18.0 #	P-110	W513
Production Liner	9,666'	9,602'	20,033'	9,775'	6.125"	4.5"	11.6 #	P-110	W521

Surface casing set below magenta dolomite and above top of salt (25 ft below los medanos)

† 5" casing ran from TOL to 45 deg. (Max OD at connection is 5.00 in.)

b. **All casing strings will be new pipe.**

c. **Casing design depths subject to revision based on directional drilling and geologic conditions encountered.**

d. **Chevon will keep casing fluid filled at all times and while RIH. Chevron will check casing at a minimum of every 20 jts (~840'), and never to surpass ⅓ of casing, while running intermediate and production casing in order to maintain collapse SF.**

SF Calculations based on the following "Worst Case" casing design:

Surface Casing:	1,500'	ftTVD	*max depths*
Intermediate Casing:	5,500'	ftTVD	*max depths*
Production Casing:	11,800'	ftTVD	*max depths*
Production Casing:	22,500'	ftMD	*max depths*

Casing String	Min SF Collapse	Min SF Burst	Min SF Axial Joint	Min SF Axial Body
Surface	3.50	1.98	14.82	14.82
Intermediate	2.24	2.52	4.99	4.99
Production	3.00	4.19	3.48	3.48
Production Liner	2.35	3.92	2.12	2.12

e. All minumum safety factors are calculated in **bouyant** conditions.

The following worst case load cases were considered for calculation of the above Min. Safety Factors:

Burst Design	Surf	Int	Prod	Prod Lnr
Pressure Test- Surface, Int, Prod Csg P external: Mud weight above TOC, PP below P internal: Test psi + next section heaviest mud in csg	X	X	X	X
Displace to Gas- Surf Csg P external: Mud weight above TOC, PP below P internal: Dry Gas from Next Csg Point	X	X	X	X
Gas over mud (60/40) - Int Csg P external: Mud weight above TOC, PP below P internal: 60% gas over 40% mud from hole TD PP		X	X	X
Stimulation (Frac) Pressures- Prod Csg P external: Mud weight above TOC, PP below P internal: Max inj pressure w/ heaviest injected fluid			X	X
Tubing leak- Prod Csg (packer at KOP) P external: Mud weight above TOC, PP below P internal: Leak just below surf, 8.45 ppg packer fluid		X	X	X
Collapse Design	Surf	Int	Prod	Prod
Full Evacuation P external: Mud weight gradient P internal: none	X	X	X	X
Cementing- Surf, Int, Prod Csg P external: Wet cement P internal: displacement fluid - water	X	X	X	X
Tension Design	Surf	Int	Prod	Prod
100k lb overpull	X	X	X	X

4. **CEMENTING PROGRAM**

Slurry	Type	Top	Bottom	*Quantity*	Yield	Density	%Excess	Volume	Additives
Surface Casing 13-3/8"				(sks)	(cuft/sk)	(ppg)		(cuft)	
Tail	Class C	0'	1,056'	689	1.33	14.8	25	917	Extender, Antifoam, Retarder, Viscosifier
Intermediate Casing 9-5/8"									
Planned single stage cement job									
Lead	Class C	0'	3,585'	564	2.49	11.9	25	1404	Extender, Antifoam, Retarder, Viscosifier
Tail	Class C	3,585'	4,585'	323	1.33	14.8	25	429	Extender, Antifoam, Retarder, Viscosifier
Contingency: Top Job									
1st Tail	Class C	0'	3,585'	1055	1.33	14.8	25	1404	Extender, Antifoam, Retarder, Viscosifier
Production Casing 7"									
Planned single stage cement job									
Lead	Class C	0'	8,216'	566	2.49	11.9	25	1409	Extender, Antifoam, Retarder, Viscosifier
Tail	Class C	8,216'	9,216'	141	1.33	14.8	25	188	Extender, Antifoam, Retarder, Viscosifier
Contingency: Top Job									
1st Tail	Class C	0'	6,216'	878	1.33	14.8	25	1168	Extender, Antifoam, Retarder, Viscosifier
Production Liner 5" x 4-1/2"									
Lead	Class H	8,916'	20,033'	984	1.33	14.8	25	1309	Extender, Antifoam, Retarder, Viscosifier

Surface casing shall have at least one centralizer installed on each of the bottom three joints starting with the shoe joint.

5. **MUD PROGRAM**

Top	Bottom	Type	Min MW	Max MW at TD	Additional Charactistics
0'	1,056'	Spud Mud	8.3	8.9	
1,056'	4,585'	Brine	8.9	10.0	-Saturated brine would be used through salt sections.
4,585'	9,216'	WBM/Brine	8.7	9.0	
9,216'	20,033'	OBM	9.0	9.6	-Due to wellbore instability in the lateral, may exceed the MW weight window needed to maintain overburden stresses

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

If an open reserve pit is not approved by OCD, a closed system will be used consisting of above ground steel tanks and all wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in an approved sanitary landfill. If an open reserve pit is in place, pit construction, operation, and closure will follow all applicable rules and regulation. Sanitary wastes will be contained in a chemical porta-toilet and then hauled to an approved sanitary landfill.

All fluids and cuttings will be disposed of in accordance with New Mexico Oil Conservation Division rules and regulations. And transportating of E&P waste will follow EPA regulations and accompanying manifests.

A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.

Visual mud monitoring equipment shall be in place to detect volume changes indicating loss or gain of circulating fluid volume. When abnormal pressures are anticipated -- a pit volume totalizer (PVT), stroke counter, and flow sensor will be used to detect volume changes indicating loss or gain of circulating fluid volume.

6. **TESTING, LOGGING, AND CORING**

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

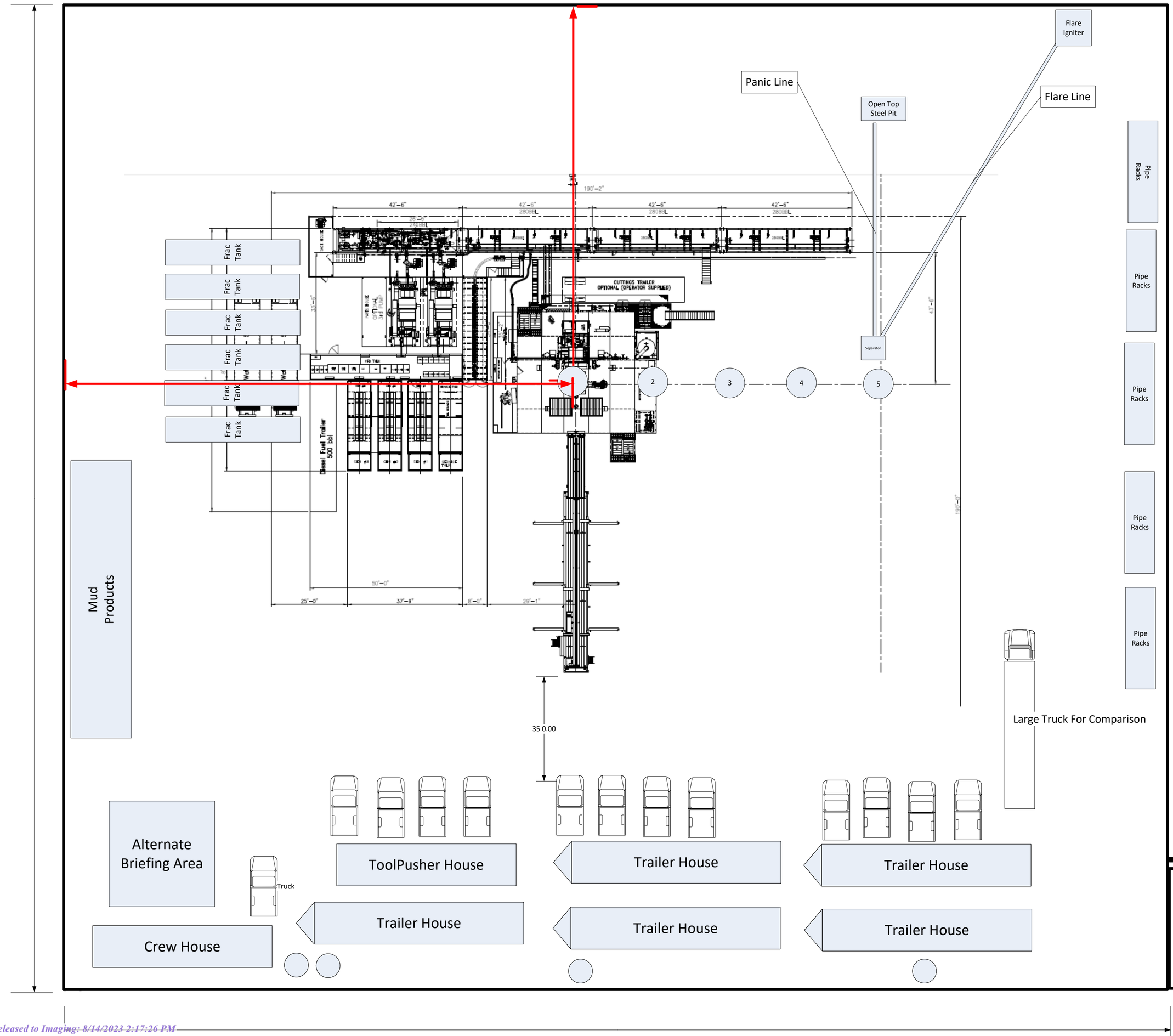
7. **ABNORMAL PRESSURES AND HYDROGEN SULFIDE**

Anticipated BHP	**4,880**	psi
Anticipated BHT	**165**	°F
Anticipated abnormal pressures?	**No**	
Describe abnormal pressures		
Contingency plan(s) 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	

Hydrogen sulfide gas is not anticipated: However the H2S Contingency plan is attached with this APD in the event that H2S is encountered

8. **OTHER ITEMS**

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



Rig layout shows rig in first and last well for illustration purposes.

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.

Delaware Basin
Variance/Sundry for Federal Well

Sand Dunes P306 Phase B
SND JAVELINA UNIT 12 1 P306 478H
SND JAVELINA UNIT 12 1 P306 319H
SND JAVELINA UNIT 12 1 P306 479H
SND JAVELINA UNIT 12 1 P306 320H
SND JAVELINA UNIT 12 1 P306 480H

Break test request

Full BOP test for all connection/seal breaks:

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 break test will only be performed on operations where BLM documentation states a 5M or less BOP can be utilized. All seals will be tested that have been broken between full BOP tests. Time between tests for a single test or full test will not exceed 21 days.

See example drilling sequence below in red where it indicates the potential hole sections break testing could be performed given they meet the above criteria. **Break tests will not** be performed on production lateral hole sections.

Well names & Skid order ex.	478	319	479	320	480
Surface	1	2	3	4	5
Intermediate hole section(s)	6	7	8	9	10
Production	11	12	13	14	15

WOC to 500 psi - Request for execution

Chevron would like to formally request to follow Onshore Order 2 Section “B - Casing and Cementing Requirements” **to wait to 500 psi compressive strength (CS) of the tail cement slurry, for primary cement operations in both the Surface and Intermediate casing string(s).** WOC time is considered the time between bumping the plug (cement in place), until beginning to drill the shoe track. This will ensure that cement will be at suffucient strength prior to performing a shoe test and drilling ahead through the next hole section.

Sample engineering lab tests may be seen below, as provided by the cementing provider. Note: these numbers will vary slightly based on actual casing set depths and finlized cement lab tests for the particular slurry. Finalized 500 psi compressive strength times will be found on location with the Chevron Drill Site Representative via the cementing labs, Drilling Program and/or POA’s (Plan of Action).

PERMIAN REGION LAB
Cement Lab Report
Phone: (620) 262-2244

Test Number: **Test Date:**
Report Number:

WELL INFORMATION

Operator: Chevron **County:**
API #: **State:** NM
Well Name: **Requested By:**
Slurry Type: Tail **TVD:** **MD:**
Blend Type: Field **District:** Odessa
Comments: 10SEC: 22 10MIN: 23 10RPM: 34 10RPM@141F: 32

TEST DATA AND SCHEDULE

Time To Temp (min):	137	**Mud Density** (lb/gal):	9
Initial Press (psi):	610	**Mix Water Density** (lb/gal):	8.34
Final Press (psi):	5824	**Mix Water Type:**	Rig Water
BHST (deg F):	155	**Surf Temp** (deg F):	80
BHCT (deg F):	141	**Job Type:**	Intermediate

Comments: UCA: 80F to 155F in 4hrs. Apply full PSI from start of 5529psi

SLURRY AND TEST RESULTS

Vendor: GCC
Slurry: Class 'C' + 0.10% FL-66 + 0.30% CD32A + 0.05% ASA-301 + 0.70% SMS + 0.75% R-21 + 0.005 gps FP-6L + 0.005 lb/sk Static Free

Density: 14.8 lb/gal **Pump Time** (50 Bc):
Yield: 1.339 CuFt/sk **Pump Time** (70 Bc): 3:50
Mix Water: 6.284 gal/sk (55.76%) **Pump Time** (100 Bc):
Total Mix Liquid: 6.289 gal/sk
Fluid Loss: cc/30 min **Free Water** (ml): 0 (Tested at 45 ° Angle)

Compressive Strength

Temp	Time	Strength	Type
155	4:47	50	UCA
155	5:03	250	UCA
155	5:26	500	UCA
155	12	1515	UCA

Rheology (PL=Power Law, BP= Bingam Plastic)

Temp	600	300	200	100	6	3	n'	k'	Yp	Pv	Best
80	102	67	55	42	27	22	0.216	0.168	29.0	40.5	BP
80	102	65	53	40	26	21	0.217	0.161	27.6	39.6	BP
ave	102	66	54	41	27	22	0.211	0.169	28.7	39.6	BP
141	87	63	45	36	23	18	0.226	0.138	23.3	39.3	BP

Chevron U.S.A. Inc. (CUSA)
SUNDRY ATTACHMENT: SPUDDER RIG

DATA OPERATOR NAME: Chevron U.S.A. Inc.

1. SUMMARY OF REQUEST:

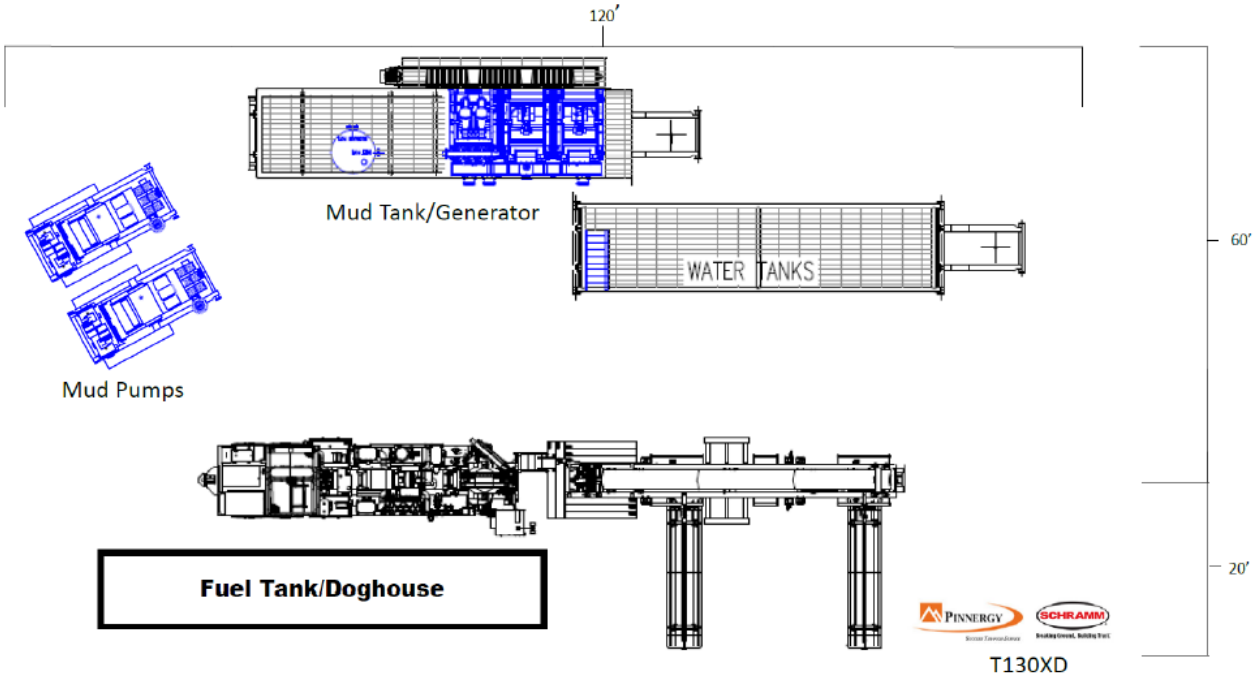
CUSA respectfully requests approval for the following operations for the surface hole in the drill plan:

1. Utilize a spudder rig to pre-set surface casing for time and cost savings.

2. Description of Operations

1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
    a. After drilling the surface hole section, the spudder rig will run casing and cement following all the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
    b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
2. The wellhead will be installed and then tested offline after the WOC time has been reached.
3. An abandonment cap at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on one wing-valve.
    a. A means for intervention will be maintained while the drilling rig is not over the well.
4. Spudder rig operations are expected to take 2-3 days per well on the pad.
5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
6. Drilling operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nippled up and tested on the wellhead before drilling operations resume on each well.
    a. The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.
    b. The BLM will be contacted / notified 24 hours before the larger rig moves back on the pre-set locations.
7. CUSA will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
8. Once the rig is removed, CUSA will secure the wellhead area by placing a guard rail around the cellar area.

Surface Rig Layout



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: Chevron USA **OGRID:** 4323 **Date:** 9 / 01 / 22

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the 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	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
SND JAVELINA UNIT 12 1 P306 #319H	*Pending*	UL: P 12-T24S R31E	422' FSL 765' FEL	5000 BBL/D	1500 MCF/D	300 BBL/D
SND JAVELINA UNIT 12 1 P306 #320H	*Pending*	UL: P 12-T24S R31E	422' FSL 745' FEL	5000 BBL/D	1500 MCF/D	300 BBL/D
SND JAVELINA UNIT 12 1 P306 #478H	*Pending*	UL: P 12-T24S R31E	422' FSL 825' FEL	5000 BBL/D	1500 MCF/D	300 BBL/D
SND JAVELINA UNIT 12 1 P306 #479H	*Pending*	UL: P 12-T24S R31E	422' FSL 805' FEL	5000 BBL/D	1500 MCF/D	300 BBL/D
SND JAVELINA UNIT 12 1 P306 #480H	*Pending*	UL: P 12-T24S R31E	422' FSL 785' FEL	5000 BBL/D	1500 MCF/D	300 BBL/D

IV. Central Delivery Point Name: Sand Dunes CTB [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 JAVELINA UNIT 12 1 P306 #319H	*Pending*	11/26/2023	N/A	N/A	N/A	N/A
SND JAVELINA UNIT 12 1 P306 #320H	*Pending*	12/14/2023	N/A	N/A	N/A	N/A
SND JAVELINA UNIT 12 1 P306 #478H	*Pending*	1/1/2024	N/A	N/A	N/A	N/A
SND JAVELINA UNIT 12 1 P306 #479H	*Pending*	1/19/2024	N/A	N/A	N/A	N/A

SND JAVELINA UNIT 12 1 P306 #480H	*Pending*	1/24/2024	N/A	N/A	N/A	N/A

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.
VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.
VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

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. ☐ 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 ☐ will ☐ 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 ☐ does ☐ 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.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. ***If Operator checks this box, Operator will select one of the following:***

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- **(a)** power generation on lease;
- **(b)** power generation for grid;
- **(c)** compression on lease;
- **(d)** liquids removal on lease;
- **(e)** reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- **(i)** other alternative beneficial uses approved by the division.

Section 4 - Notices

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

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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

Signature:	Cindy Herrera-Murillo
Printed Name:	Cindy Herrera-Murillo
Title:	Sr HSE Regulatory affairs Coordinator
E-mail Address:	eeof@chevron.com
Date:	09/01/2022
Phone:	575-263-0431

OIL CONSERVATION DIVISION

(Only applicable when submitted as a standalone form)

Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

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

SUPO Data Report
07/31/2023

APD ID: 10400088084
Submission Date: 09/19/2022
Operator Name: CHEVRON USA INCORPORATED
Well Name: SND JAVELINA UNIT 12 01 P306
Well Number: 320H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes
Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

SND_Javelina_Unit_12_1_P306_320H_Road_Plat_081122Cert_20220914151702.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT
Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? YES

Existing Road Improvement Description: The operator will improve or maintain existing roads in a condition the same as or better than before operations begin. The operator will repair pot holes, clear ditches, repair the crown, etc. All existing structures on the entire access route such as cattle guards, other range improvement projects, culverts, etc. will be properly repaired or replaced if they are damaged or have deteriorated beyond practical use. We will prevent and abate fugitive dust as needed, whether created by vehicular traffic, equipment operations, or wind events. BLM written approval will be acquired before application of surfactants, binding agents, or other dust suppression chemicals on roadways. Existing lease roads operated by Chevron will be maintained as needed or upon request. Existing lease roads used by multiple operators will be maintained through road maintenance parameters with all parties.

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 12 01 P306 **Well Number:** 320H

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Permitting_SND_Pad_306_1_mile_map_20220914124727.pdf

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Central Tank Battery 12 (CTB 12) oil and gas production will be transported from the existing well pad 306 to the existing CTB 12 in the SW/4 of Sec. 12,T24S-R31E where oil sales will take place. BLM ROW will not be required. Compressor Station 11 (CS 11) gas production will be transported from the existing CTB 12 located in Sec. 12, T24S-R31E to the existing CS 11 in the SE/4of Sec. 11, T24S-R31E where gas sales will take place. BLM ROW will not be required. All facilities will contain some or all of the following: Open top tanks or open containments will be netted. Open vent exhaust stacks will be modified to prevent birds or bats from entering, discouraging perching, roosting and nesting. All above ground structures will be painted non-reflective shale green to blend with the surrounding environment. Facilities will have a secondary containment 1.5 times the holding capacity of the largest storage tank.

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 12 01 P306 **Well Number:** 320H

Produced water may be sent into an existing Chevron water gathering system for permanent disposal and recycling or produced water may be sent to a 3rd party for takeaway
Production Facilities map:

Sand_Dunes_Pad_306_Aerial_Detail_072722Cert_20220914124814.pdf

Sand_Dunes_Pad_306_Pad_Plat_081822Cert_20220914125115.pdf

Sand_Dunes_Pad_306_Pipelines_Temp_Water_line_ROW_Plat_080822Cert_20220914124931.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: OTHER

Describe type: Frac pond

Water source use type: SURFACE CASING

INTERMEDIATE/PRODUCTION CASING

STIMULATION

Source latitude: **Source longitude:**

Source datum:

Water source permit type: PRIVATE CONTRACT

Water source transport method: PIPELINE

TRUCKING

Source land ownership: FEDERAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 700000 **Source volume (acre-feet):** 90.22517

Source volume (gal): 29400000

Water source and transportation

Sand_Dunes_Pad_306_Pipelines_Temp_Water_line_ROW_Plat_080822Cert_20220914151906.pdf

Water source comments: The existing frac pond in the SW/4 of Sec. 11, T24S-R31E may be utilized for drilling and completions, which holds brackish water and treated produced water.
New water well? N

New Water Well Info

Well latitude: **Well Longitude:** **Well datum:**

Well target aquifer:

Est. depth to top of aquifer(ft): **Est thickness of aquifer:**

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 12 01 P306 **Well Number:** 320H

Aquifer comments:

Aquifer documentation:

Well depth (ft): **Well casing type:**

Well casing outside diameter (in.): **Well casing inside diameter (in.):**

New water well casing? **Used casing source:**

Drilling method: **Drill material:**

Grout material: **Grout depth:**

Casing length (ft.): **Casing top depth (ft.):**

Well Production type: **Completion Method:**

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: - Caliche will be used to construct well pad and roads. Material will be purchased from the nearest federal, state, or private permitted pit. - Primary: Use caliche on existing location. - Secondary: To be determined - The proposed source of construction material will be located and purchased by construction contractor. - Payment shall be made by contractor prior to any removal of federal minerals material by contacting agent at (575) 234-5972. - Notification shall be given to BLM at (575) 234-5909 at least 3 working days prior to commencing construction of access road and/or well pad.

Construction Materials source location

Section 7 - Methods for Handling

Waste type: GARBAGE

Waste content description: - Drilling fluids & produced oil/water - Garbage and Trash - Human waste and grey water - Other wastes material i.e. chemicals, salts, frac sand - Drill cutting

Amount of waste: 200 pounds

Waste disposal frequency : Daily

Safe containment description: - All to be properly disposed at a State approved disposal facility. - Garbage & trash produced during drilling and completion operations will be collected in a trash container and disposed of properly at a state approved disposal facility. All trash on and around the well site will be collected for disposal. - Human waste and grey water will be properly contained and disposed of properly at a state approved disposal facility. - After drilling and completion operations, trash, chemicals, salts, frac sand and other waste material will be removed and disposed of properly at a state approved disposal facility.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** STATE

Disposal type description:

Disposal location description: STATE APPROVED FACILITY: - Carlsbad 6601 Hobbs HWY Carlsbad, NM 575-393-1079 - Eunice Sundance Services 5 miles East of Eunice on HWY 18 and Wallach Ln 575-390-0342 - Seminole Permian Disposal 587 US HWY 385 S 432-955-0322 Proposed Facilities location: ID 1 26S 27E Section 2 Unit Letter M ID 2 25S 27E Section 16 Unit Letter F ID 3 25S 27E Section 26 Unit Letter P ID 4 26S

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 12 01 P306 **Well Number:** 320H

27E Section 12 Unit Letter L ID 5 26S 27E Section 2 Unit Letter P

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.) **Reserve pit width (ft.)**

Reserve pit depth (ft.) **Reserve pit volume (cu. yd.)**

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

Description of cuttings location The well will be drilled utilizing a closed loop system. Drill cutting will be properly disposed of into steel tanks and taken to an NMOCD approved disposal facility.

Cuttings area length (ft.) **Cuttings area width (ft.)**

Cuttings area depth (ft.) **Cuttings area volume (cu. yd.)**

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

Sand_Dunes_Pad_306_IR_Plat_R1_082522Cert_20220914125815.pdf

Comments: Well Pad & Reserve Pit o Exterior well pad dimensions are 480 x 605 (4.27 Ac) o Interior well pad dimensions from point of entry (well head) 478H: N-220, E-300, S-260, W-305 479H: N-220, E-280, S-260, W-325 480H: N-220, E-260, S-260, W-245 319H: N-220, E-240, S-260, W-365 320H: N-220, E-220, S-260, W-385

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 12 01 P306 **Well Number:** 320H

o Topsoil placement will be on pad where interim reclamation is planned to be completed upon completion of wells and evaluation of best management practices. o Cut and fill: will be minimal. Diagram attached. Rig Layout (attached)

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: SND JAVELINA UNIT 12 01 P306

Multiple Well Pad Number: 319H,320H,478H,479H,480H

Recontouring

Sand_Dunes_Pad_306_IR_Plat_R1_082522Cert_20220914131320.pdf

Sand_Dunes_Pad_306_Pad_Plat_081822Cert_20220914131546.pdf

Drainage/Erosion control construction: Proper erosion control methods will be used on the area to control erosion, runoff, and siltation of the surrounding area.

Drainage/Erosion control reclamation: The well pad, road, and surrounding area will be cleared of material, trash, and equipment. All surfacing material will be removed and returned to the original mineral pit or recycled to repair for build roads and well pads.

Well pad proposed disturbance (acres): 4.27 **Well pad interim reclamation (acres):** 1.74 **Well pad long term disturbance (acres):** 2.53

Road proposed disturbance (acres): 0.06 **Road interim reclamation (acres):** 0 **Road long term disturbance (acres):** 0.06

Powerline proposed disturbance (acres): 0.43 **Powerline interim reclamation (acres):** 0 **Powerline long term disturbance (acres):** 0.43

Pipeline proposed disturbance (acres): 5.68 **Pipeline interim reclamation (acres):** 5.68 **Pipeline long term disturbance (acres):** 0

Other proposed disturbance (acres): 0.25 **Other interim reclamation (acres):** 0.25 **Other long term disturbance (acres):** 0

Total proposed disturbance: 10.689999999999998 **Total interim reclamation:** 7.67 **Total long term disturbance:** 3.02

Disturbance Comments: Interim Reclamation Procedures: Current plans for interim reclamation include reducing the pad size to approximately 2.40 (permanent pad) acres from the proposed size of 5.20 acres (temporary pad). The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper.

Reconstruction method: In areas planned for interim reclamation, all the surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads.

Topsoil redistribution: Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts & fills. To seed the area, the proper BLM seed mixture (BLM #2), free of noxious weeds, will be used.

Soil treatment: After all the disturbed areas have been properly prepared; the areas will be seeded with the proper BLM seed mixture (BLM #2), free of noxious weeds.

Existing Vegetation at the well pad: mesquite, grass, shrubs

Existing Vegetation at the well pad

Existing Vegetation Community at the road: mesquite, grass, shrubs

Existing Vegetation Community at the road

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 12 01 P306 **Well Number:** 320H

Existing Vegetation Community at the pipeline: mesquite, grass, shrubs

Existing Vegetation Community at the pipeline

Existing Vegetation Community at other disturbances: mesquite, grass, shrubs

Existing Vegetation Community at other disturbances

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre

Seed reclamation

Operator Contact/Responsible Official

First Name: **Last Name:**

Phone: **Email:**

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 12 01 P306 **Well Number:** 320H

Weed treatment plan description: Treat with BLM seed mixture (BLM #2) free of noxious weeds.

Weed treatment plan

Monitoring plan description: The interim reclamation will be monitored periodically to ensure that vegetation has re-established.

Monitoring plan

Success standards: As per BLM requirements.

Pit closure description: None

Pit closure attachment:

Section 11 - Surface

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 12 01 P306 **Well Number:** 320H

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Disturbance type: PIPELINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 12 01 P306 **Well Number:** 320H

Disturbance type: FIBER OPTIC

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Section 12 - Other

Right of Way needed? N **Use APD as ROW?**

ROW Type(s):

ROW

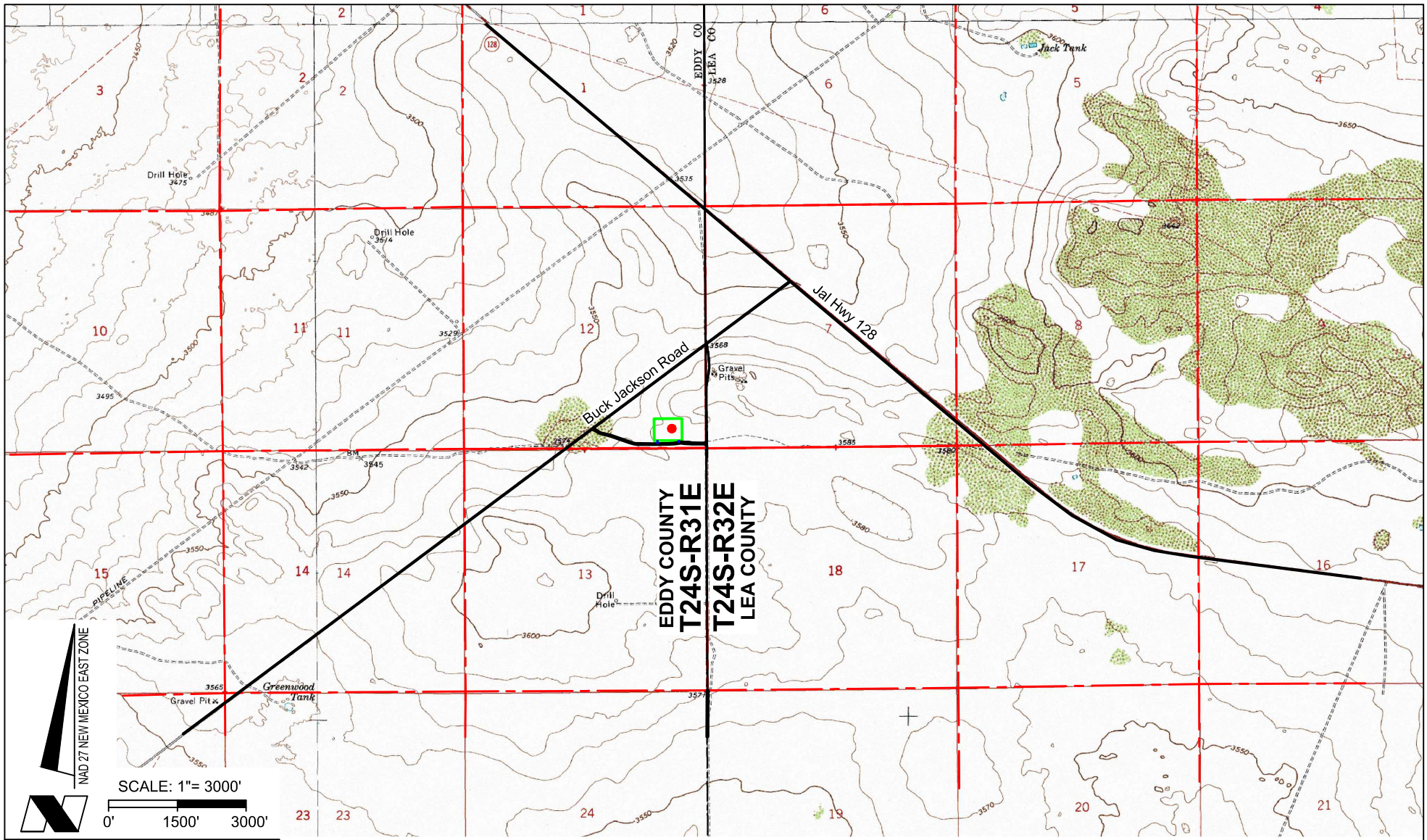
SUPO Additional Information:

Use a previously conducted onsite? Y

Previous Onsite information: On-site performed by BLM, Mr. Paul Murphy on 5/21/2020.

Other SUPO

SND_Pad_306B_SUPO_20220914140523.pdf



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Ph. 337-237-2200
Fax. 337-232-3299

REVISIONS	

DRAWN BY:LME	PROJ. MGR.:VHV
DATE: 08/11/2022	
JOB#: 2201930.00C	SHEET 1 OF 1

FOR THE EXCLUSIVE USE OF
CHEVRON U.S.A. INC.
I, Robert L. Lastrapes, Professional Surveyor, do hereby state the above plat to be true and correct to the best of my knowledge.

Robert L. Lastrapes
Professional Surveyor
Registration No. 23006

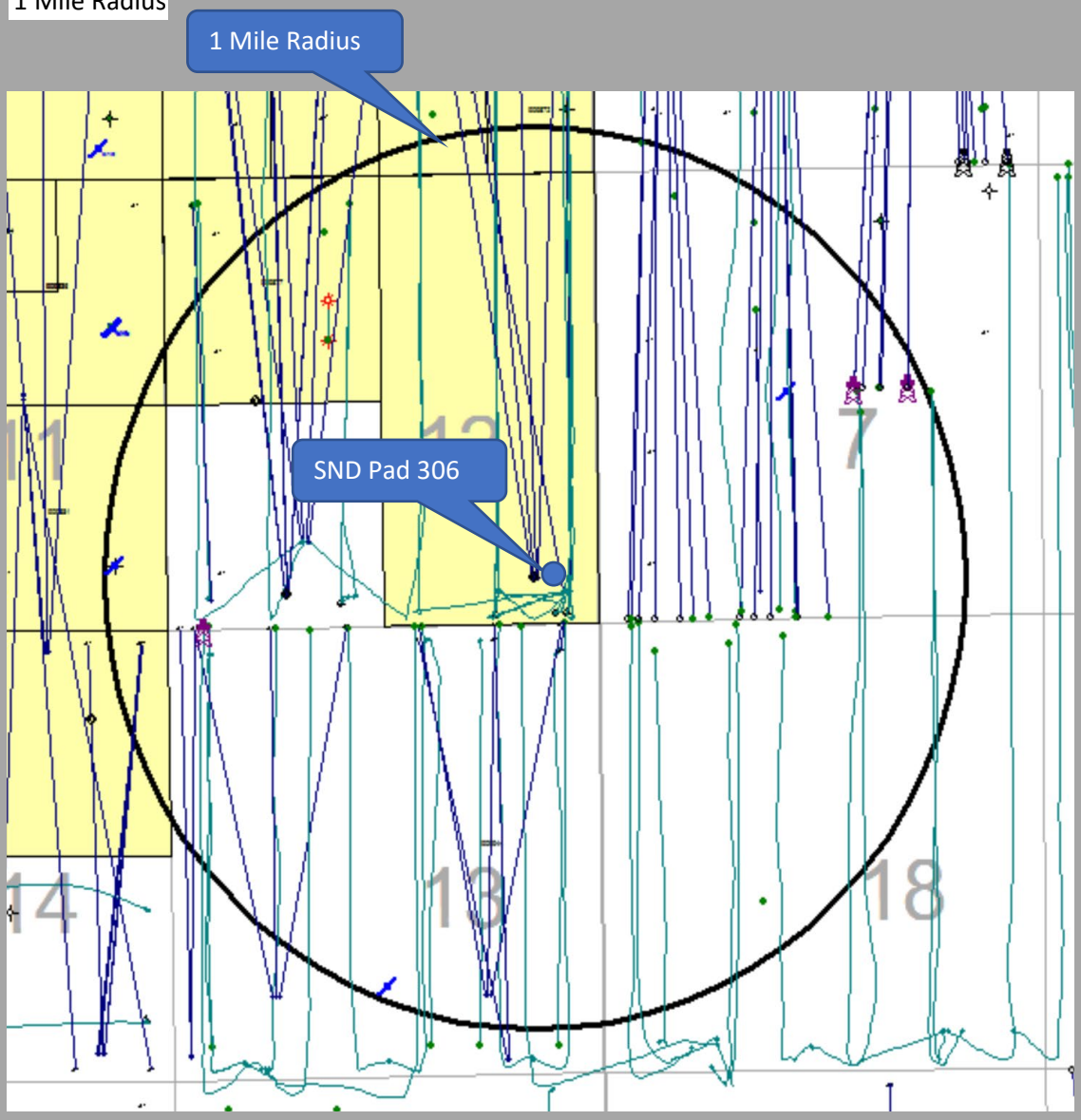
ROBERT L. LASTRAPES
NEW MEXICO
23006
08/11/2022
PROFESSIONAL SURVEYOR

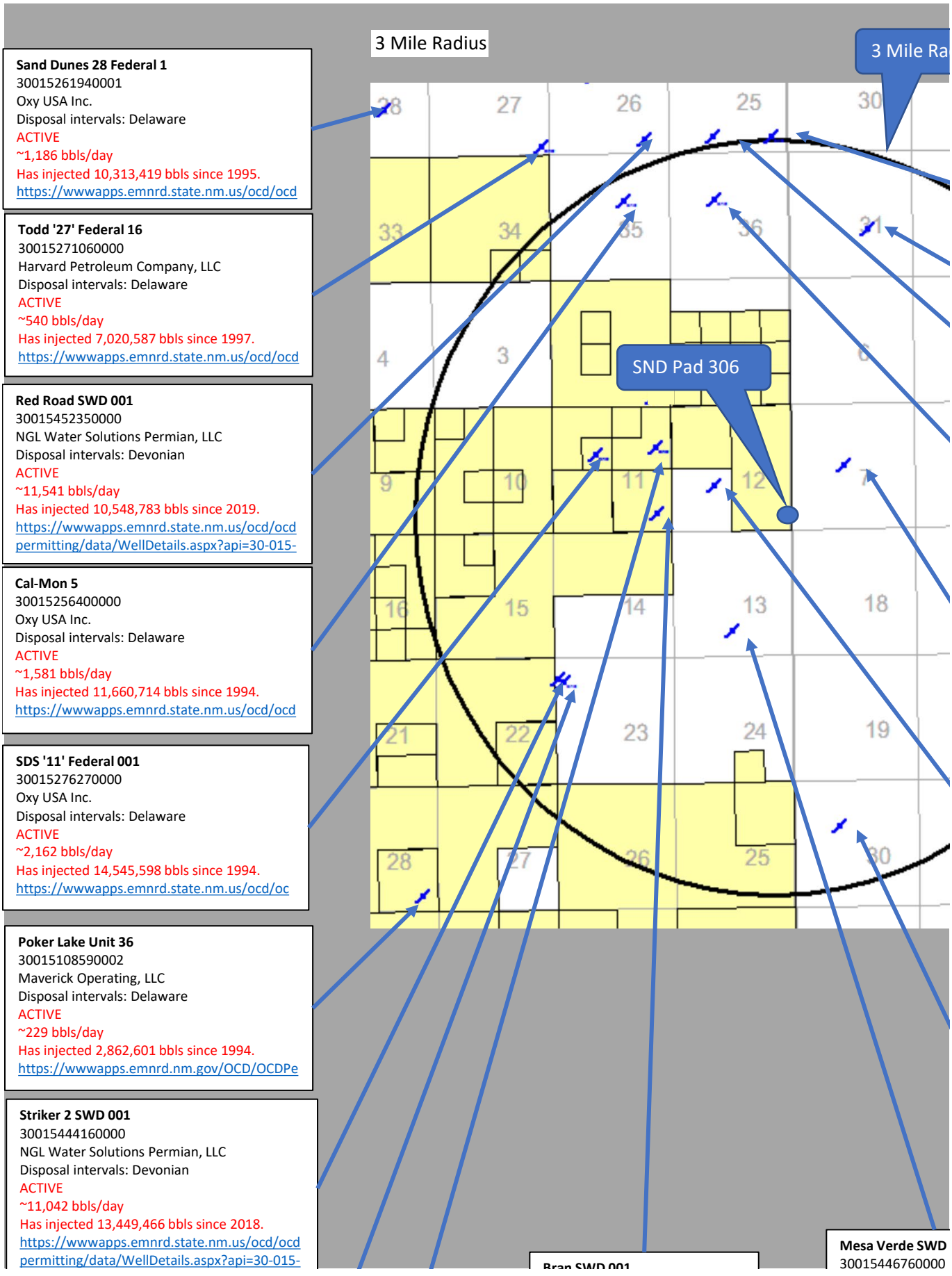
LEGEND

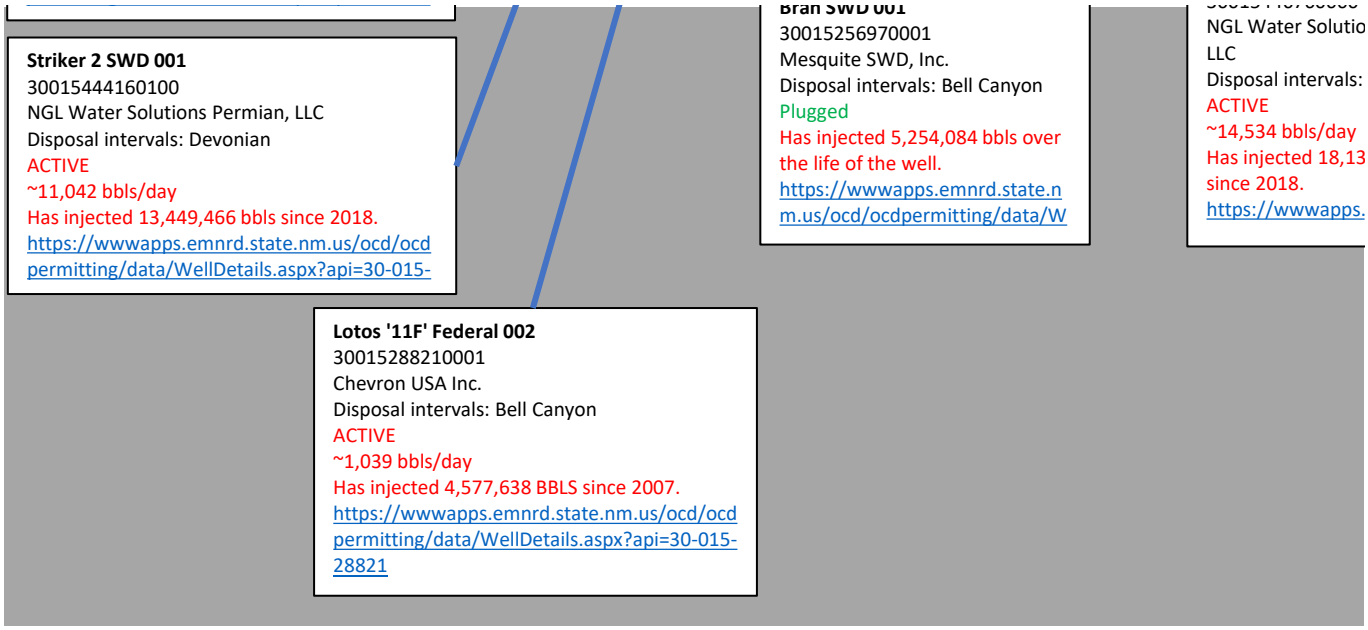
- Proposed Well
- Proposed Access Road
- Proposed Drillsite
- Existing Road
- Township/Range Line

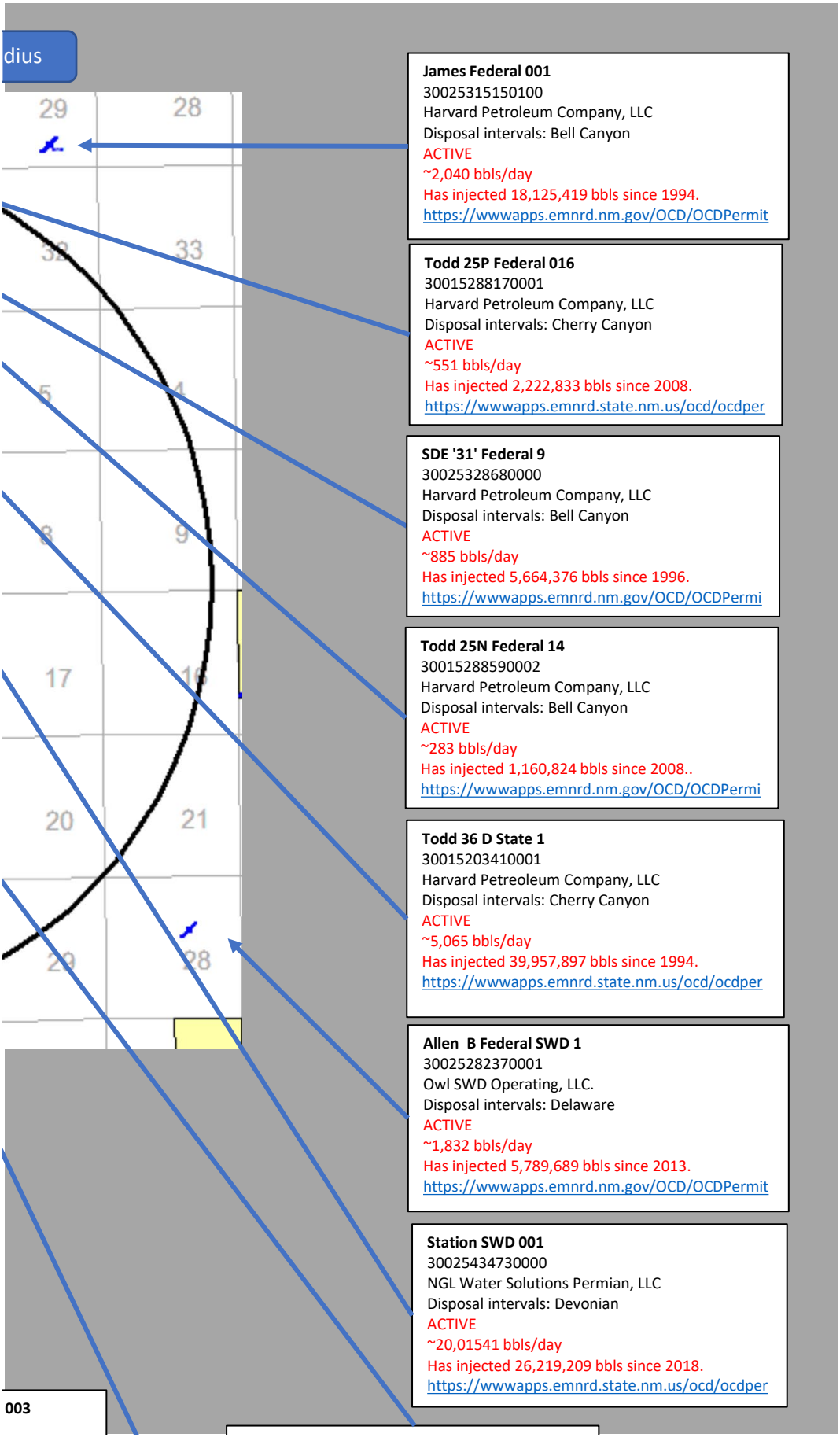
ROAD PLAT
SND JAVELINA UNIT 12 1 P306
NO. 320H WELL
CHEVRON U.S.A. INC.
LOCATED 422' FSL & 745' FEL
SECTION 12, T24S-R31E
EDDY COUNTY, NEW MEXICO

1 Mile Radius




3 Mile Radius
3 Mile Ra
SND Pad 306
Sand Dunes 28 Federal 1
30015261940001
Oxy USA Inc.
Disposal intervals: Delaware
ACTIVE
~1,186 bbls/day
Has injected 10,313,419 bbls since 1995.
https://wwwapps.emnrd.state.nm.us/ocd/ocd
Todd '27' Federal 16
30015271060000
Harvard Petroleum Company, LLC
Disposal intervals: Delaware
ACTIVE
~540 bbls/day
Has injected 7,020,587 bbls since 1997.
https://wwwapps.emnrd.state.nm.us/ocd/ocd
Red Road SWD 001
30015452350000
NGL Water Solutions Permian, LLC
Disposal intervals: Devonian
ACTIVE
~11,541 bbls/day
Has injected 10,548,783 bbls since 2019.
https://wwwapps.emnrd.state.nm.us/ocd/ocd
permitting/data/WellDetails.aspx?api=30-015-
Cal-Mon 5
30015256400000
Oxy USA Inc.
Disposal intervals: Delaware
ACTIVE
~1,581 bbls/day
Has injected 11,660,714 bbls since 1994.
https://wwwapps.emnrd.state.nm.us/ocd/ocd
SDS '11' Federal 001
30015276270000
Oxy USA Inc.
Disposal intervals: Delaware
ACTIVE
~2,162 bbls/day
Has injected 14,545,598 bbls since 1994.
https://wwwapps.emnrd.state.nm.us/ocd/oc
Poker Lake Unit 36
30015108590002
Maverick Operating, LLC
Disposal intervals: Delaware
ACTIVE
~229 bbls/day
Has injected 2,862,601 bbls since 1994.
https://wwwapps.emnrd.nm.gov/OCD/OCDPe
Striker 2 SWD 001
30015444160000
NGL Water Solutions Permian, LLC
Disposal intervals: Devonian
ACTIVE
~11,042 bbls/day
Has injected 13,449,466 bbls since 2018.
https://wwwapps.emnrd.state.nm.us/ocd/ocd
permitting/data/WellDetails.aspx?api=30-015-
Mesa Verde SWD
30015446760000


Striker 2 SWD 001
30015444160100
NGL Water Solutions Permian, LLC
Disposal intervals: Devonian
ACTIVE
~11,042 bbls/day
Has injected 13,449,466 bbls since 2018.
https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/data/WellDetails.aspx?api=30-015-
Lotos '11F' Federal 002
30015288210001
Chevron USA Inc.
Disposal intervals: Bell Canyon
ACTIVE
~1,039 bbls/day
Has injected 4,577,638 BBLS since 2007.
https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/data/WellDetails.aspx?api=30-015-28821
30015256970001
Mesquite SWD, Inc.
Disposal intervals: Bell Canyon
Plugged
Has injected 5,254,084 bbls over the life of the well.
https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/data/W
NGL Water Solutio
LLC
Disposal intervals:
ACTIVE
~14,534 bbls/day
Has injected 18,13
since 2018.
https://wwwapps.


dius
29
28
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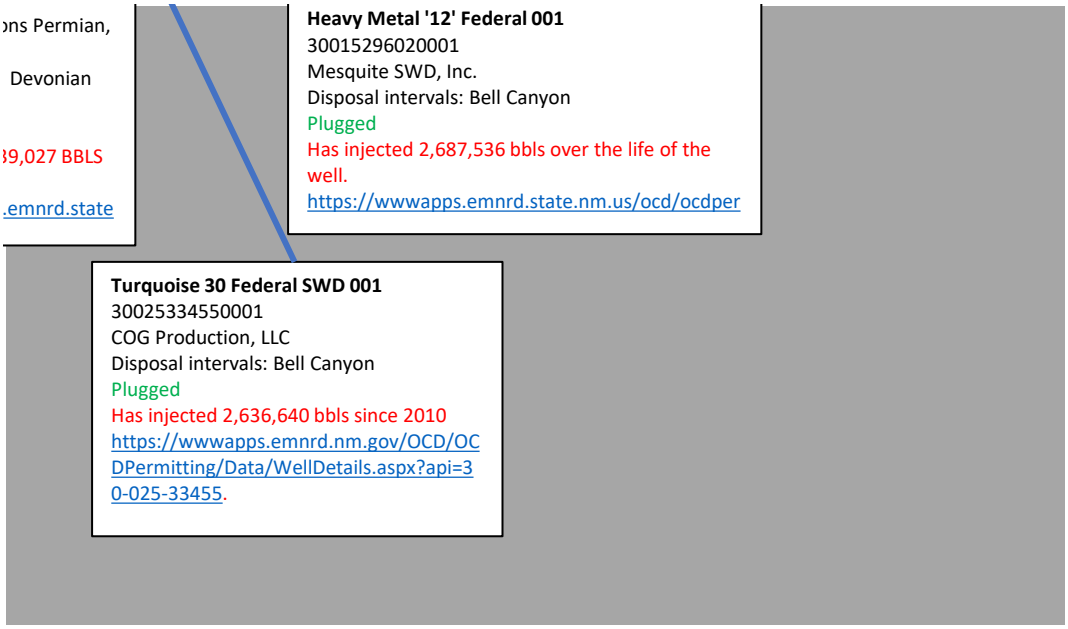
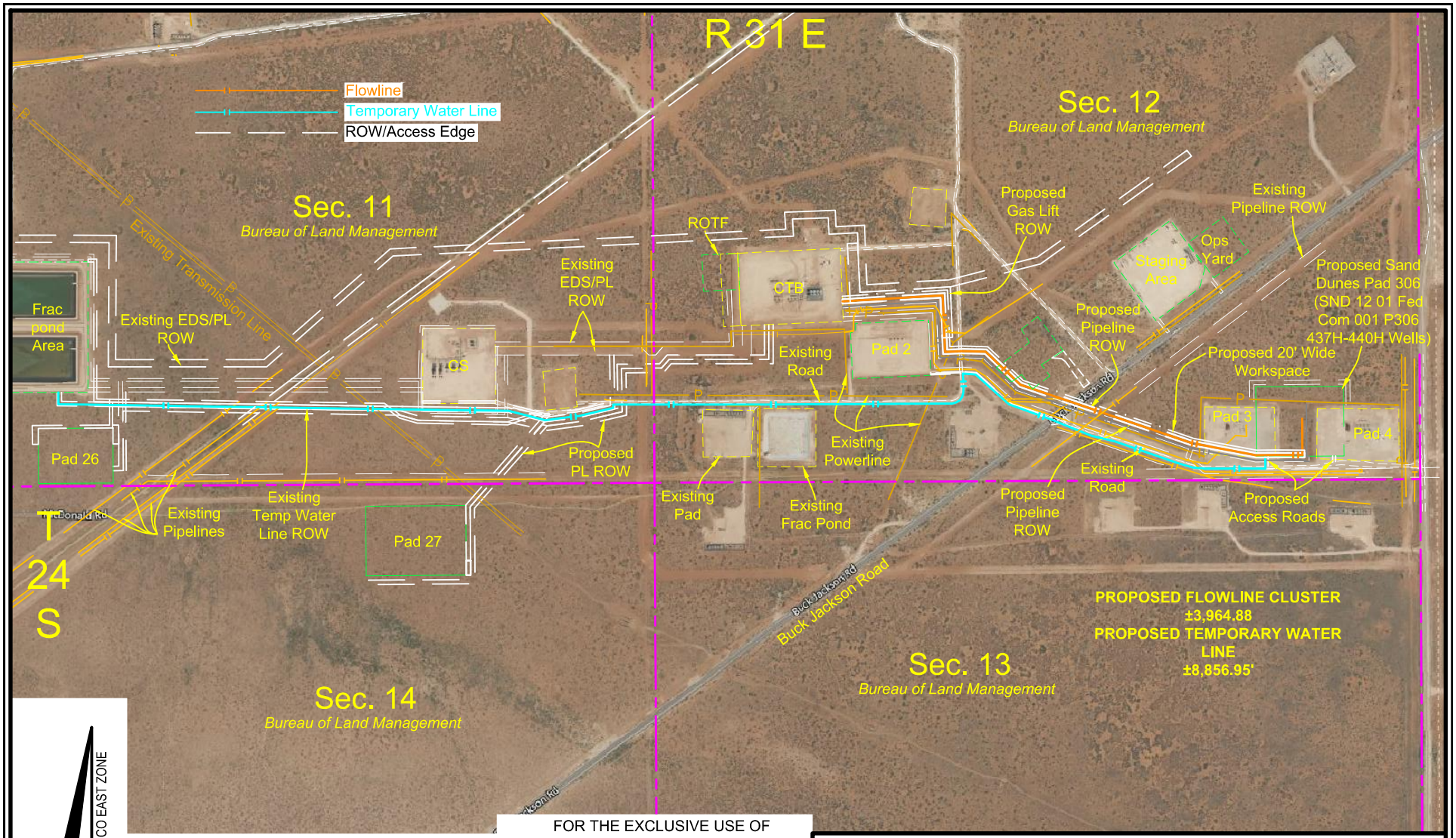
9
17
16
20
21
29
28
003
James Federal 001
30025315150100
Harvard Petroleum Company, LLC
Disposal intervals: Bell Canyon
ACTIVE
~2,040 bbls/day
Has injected 18,125,419 bbls since 1994.
https://wwwapps.emnrd.nm.gov/OCD/OCDPermit
Todd 25P Federal 016
30015288170001
Harvard Petroleum Company, LLC
Disposal intervals: Cherry Canyon
ACTIVE
~551 bbls/day
Has injected 2,222,833 bbls since 2008.
https://wwwapps.emnrd.state.nm.us/ocd/ocdper
SDE '31' Federal 9
30025328680000
Harvard Petroleum Company, LLC
Disposal intervals: Bell Canyon
ACTIVE
~885 bbls/day
Has injected 5,664,376 bbls since 1996.
https://wwwapps.emnrd.nm.gov/OCD/OCDPermi
Todd 25N Federal 14
30015288590002
Harvard Petroleum Company, LLC
Disposal intervals: Bell Canyon
ACTIVE
~283 bbls/day
Has injected 1,160,824 bbls since 2008..
https://wwwapps.emnrd.nm.gov/OCD/OCDPermi
Todd 36 D State 1
30015203410001
Harvard Petreoleum Company, LLC
Disposal intervals: Cherry Canyon
ACTIVE
~5,065 bbls/day
Has injected 39,957,897 bbls since 1994.
https://wwwapps.emnrd.state.nm.us/ocd/ocdper
Allen B Federal SWD 1
30025282370001
Owl SWD Operating, LLC.
Disposal intervals: Delaware
ACTIVE
~1,832 bbls/day
Has injected 5,789,689 bbls since 2013.
https://wwwapps.emnrd.nm.gov/OCD/OCDPermit
Station SWD 001
30025434730000
NGL Water Solutions Permian, LLC
Disposal intervals: Devonian
ACTIVE
~20,01541 bbls/day
Has injected 26,219,209 bbls since 2018.
https://wwwapps.emnrd.state.nm.us/ocd/ocdper


ɔns Permian,
Devonian
39,027 BBLS
.emnrd.state
Heavy Metal '12' Federal 001
30015296020001
Mesquite SWD, Inc.
Disposal intervals: Bell Canyon
Plugged
Has injected 2,687,536 bbls over the life of the well.
https://wwwapps.emnrd.state.nm.us/ocd/ocdper
Turquoise 30 Federal SWD 001
30025334550001
COG Production, LLC
Disposal intervals: Bell Canyon
Plugged
Has injected 2,636,640 bbls since 2010
https://wwwapps.emnrd.nm.gov/OCD/OCDPermitting/Data/WellDetails.aspx?api=30-025-33455.



NAD 27 NEW MEXICO EAST ZONE

Scale: 1" = 1000'

1000' 0 500' 1000'

FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC.

I, Robert L. Lastrapes, Professional Surveyor, do hereby state this plat is true and correct to the best of my knowledge.

ROBERT L. LASTRAPES NEW MEXICO 23006 PROFESSIONAL SURVEYOR

07/27/2022

Robert L. Lastrapes
Registration No. 23006

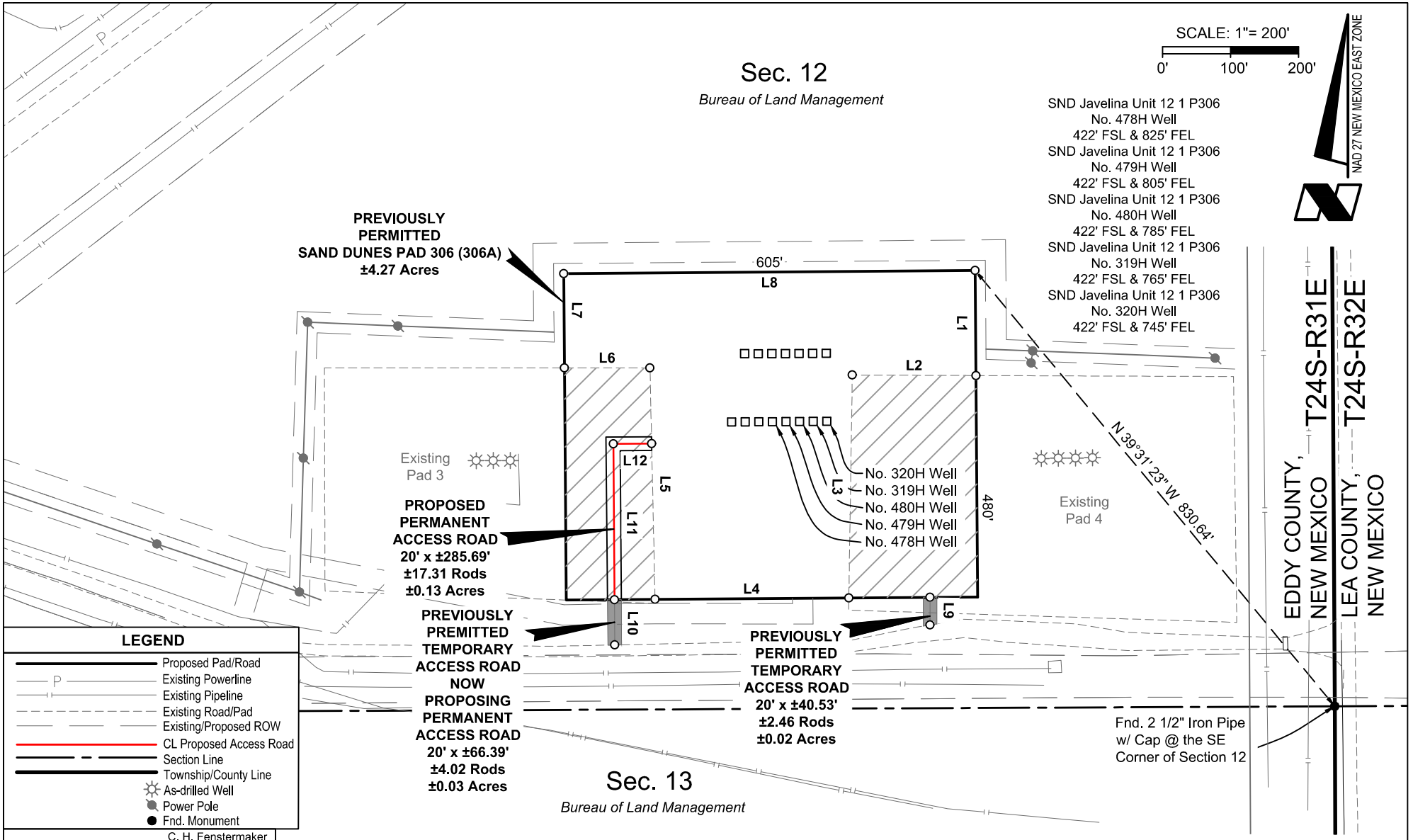
FENSTERMAKER
C. H. Fenstermaker & Associates, L.L.C.
135 Regency Sq. Lafayette, LA 70508
Ph. 337-237-2200 Fax. 337-232-3299
www.fenstermaker.com

DETAIL

CHEVRON U.S.A. INC.

WORK AREA DETAIL FOR THE SAND DUNES PAD 306 SECTIONS 11 & 12, T24S-R31E EDDY COUNTY, NEW MEXICO

	REVISIONS			
DRAWN BY: RMB	#	BY:	DATE:	DESCRIPTION:
PROJ. MGR.: VHV	1	LME	07/21/2022	Add 30' Flowline ROW & 20' Temp. Workspace
DATE: 06/04/2020				
FILENAME: T:\2020\2201930\DWG\Sand Dunes Pad 306_Aerial Detail.dwg				



LEGEND

- Proposed Pad/Road
- Existing Powerline
- Existing Pipeline
- Existing Road/Pad
- Existing/Proposed ROW
- CL Proposed Access Road
- Section Line
- Township/County Line
- As-drilled Well
- Power Pole
- Fnd. Monument

C. H. Fenstermaker & Associates, L.L.C.
135 Regency Sq.
Lafayette, LA 70508
Ph. 337-237-2200
Fax. 337-232-3299

REVISIONS	

DRAWN BY: LME	PROJ. MGR.: VHV
DATE: 08/18/2022	
JOB#: 2201930.00	SHEET 1 OF 2

FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC.
I, Robert L. Lastrapes, Professional Surveyor, do hereby state the above plat to be true and correct to the best of my knowledge.

Robert L. Lastrapes
Professional Surveyor
Registration No. 23006

ROBERT L. LASTRAPES
NEW MEXICO
23006
08/18/2022
PROFESSIONAL SURVEYOR

PAD PLAT
SAND DUNES PAD 306
CHEVRON U.S.A. INC.
PROPOSED PAD & ACCESS ROADS
SITUATED IN
SECTION 12, T24S-R31E
EDDY COUNTY, NEW MEXICO

DISCLAIMER: At this time, C. H. Fenstermaker & Associates, L.L.C. has not performed nor was asked to perform any type of engineering, hydrological modeling, flood plain, or "No Rise" certification analyses, including but not limited to determining whether the project will impact flood hazards in connection with federal/FEMA, state, and/or local laws, ordinances and regulations. Accordingly, Fenstermaker makes no warranty or representation of any kind as to the foregoing issues, and persons or entities using this information shall do so at their own risk.

NOTE:
Please be advised, that while reasonable efforts are made to locate and verify pipelines and anomalies using our standard pipeline locating equipment, it is impossible to be 100 % effective. As such, we advise using caution when performing work as there is a possibility that pipelines and other hazards, such as fiber optic cables, PVC pipelines, etc. may exist undetected on site.

NOTE:
Many states maintain information centers that establish links between those who dig (excavators) and those who own and operate underground facilities (operators). It is advisable and in most states, law, for the contractor to contact the center for assistance in locating and marking underground utilities. For guidance, New Mexico One Call www.nm811.org

NW PAD CORNER
X = 687,758' (NAD27 NM E)
Y = 446,566'
LAT. 32.226268° N (NAD27)
LONG. 103.726160° W
X = 728,942' (NAD83/2011 NM E)
Y = 446,625'
LAT. 32.226392° N (NAD83/2011)
LONG. 103.726642° W
ELEV. +3576' (NAVD88)

NE PAD CORNER
X = 688,363' (NAD27 NM E)
Y = 466,570'
LAT. 32.226271° N (NAD27)
LONG. 103.724203° W
X = 729,547' (NAD83/2011 NM E)
Y = 446,629'
LAT. 32.226395° N (NAD83/2011)
LONG. 103.724686° W
ELEV. +3589' (NAVD88)

SW PAD CORNER
X = 687,762' (NAD27 NM E)
Y = 446,086'
LAT. 32.224949° N (NAD27)
LONG. 103.726157° W
X = 728,946' (NAD83/2011 NM E)
Y = 446,145'
LAT. 32.225072° N (NAD83/2011)
LONG. 103.726639° W
ELEV. +3578' (NAVD88)

SE PAD CORNER
X = 688,367' (NAD27 NM E)
Y = 446,090'
LAT. 32.224952° N (NAD27)
LONG. 103.724200° W
X = 729,551' (NAD83/2011 NM E)
Y = 446,149'
LAT. 32.225075° N (NAD83/2011)
LONG. 103.724683° W
ELEV. +3587' (NAVD88)

PREVIOUSLY PERMITTED PAD		
COURSE	BEARING	DISTANCE
L1	S 00° 25' 49" E	154.36'
L2	N 89° 46' 30" W	181.94'
L3	S 00° 53' 48" W	327.81'
L4	S 89° 34' 11" W	284.98'
L5	N 01° 14' 49" W	340.48'
L6	N 89° 59' 05" W	125.65'
L7	N 00° 25' 49" W	138.58'
L8	N 89° 34' 11" E	605.00'

CENTERLINE PREVIOUSLY PERMITTED ACCESS ROAD		
COURSE	BEARING	DISTANCE
L9	S 00° 04' 50" W	40.53'
L10	N 00° 25' 49" W	66.39'

CENTERLINE PROPOSED ACCESS ROAD		
COURSE	BEARING	DISTANCE
L11	N 00° 25' 49" W	229.22'
L12	N 89° 34' 11" E	56.47'

C. H. Fenstermaker & Associates, L.L.C.
135 Regency Sq.
Lafayette, LA 70508
Ph. 337-237-2200
Fax. 337-232-3299

REVISIONS	

DRAWN BY: LME	PROJ. MGR.: VHV
DATE: 08/18/2022	
JOB#: 2201930.00	SHEET 2 OF 2

FOR THE EXCLUSIVE USE OF
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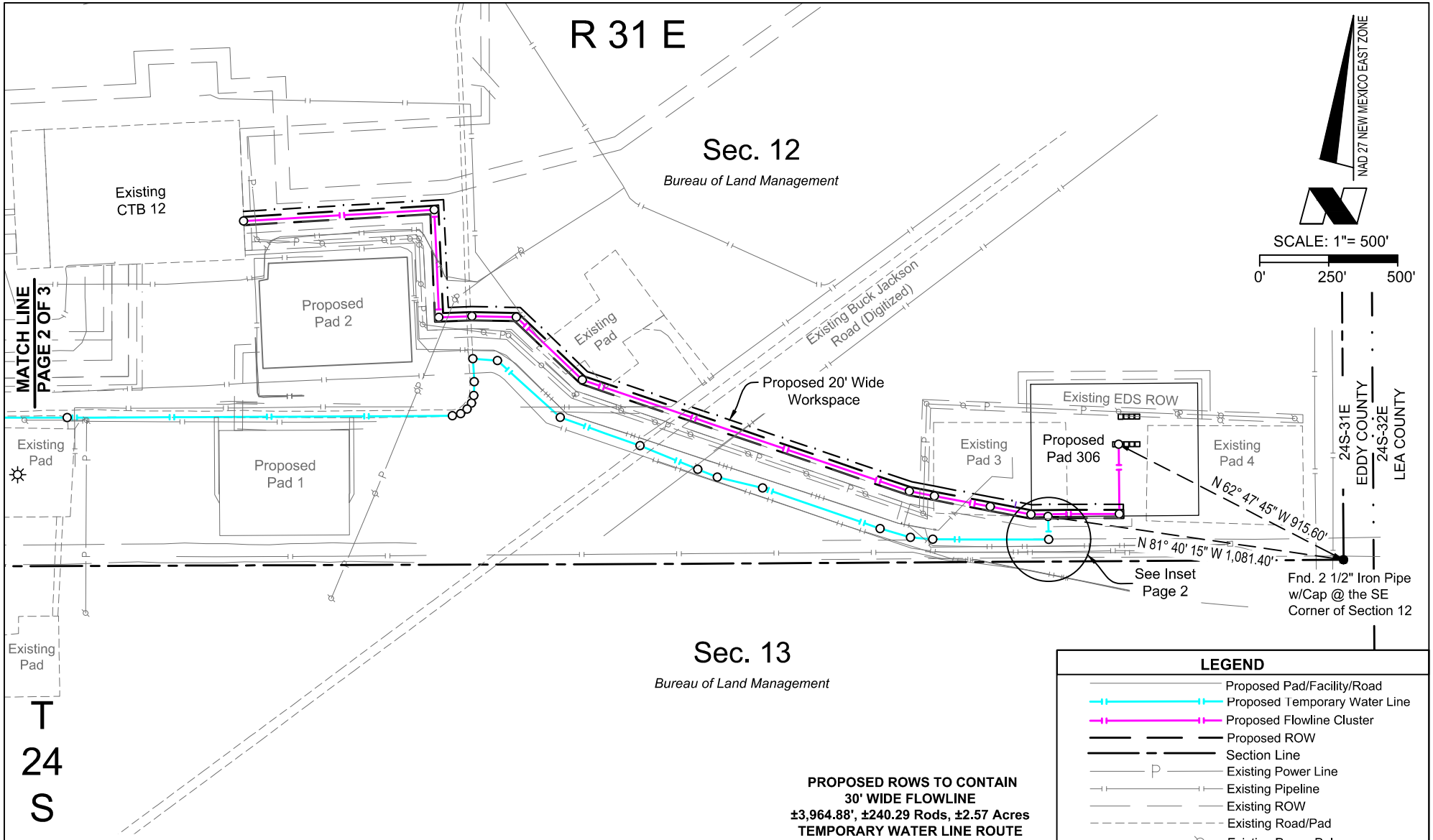
I, Robert L. Lastrapes, Professional Surveyor, do hereby state the above plat to be true and correct to the best of my knowledge.

Robert L. Lastrapes
Professional Surveyor
Registration No. 23006

ROBERT L. LASTRAPES
NEW MEXICO
23006
08/18/2022
PROFESSIONAL SURVEYOR

PAD PLAT
SAND DUNES PAD 306
CHEVRON U.S.A. INC.
PROPOSED PAD & ACCESS ROADS
SITUATED IN
SECTION 12, T24S-R31E
EDDY COUNTY, NEW MEXICO



LEGEND

- Proposed Pad/Facility/Road
- Proposed Temporary Water Line
- Proposed Flowline Cluster
- Proposed ROW
- Section Line
- Existing Power Line
- Existing Pipeline
- Existing ROW
- Existing Road/Pad
- Existing Power Pole
- Found Monument

PROPOSED ROWS TO CONTAIN
30' WIDE FLOWLINE
±3,964.88', ±240.29 Rods, ±2.57 Acres
TEMPORARY WATER LINE ROUTE
±8,856.95', ±536.78 Rods

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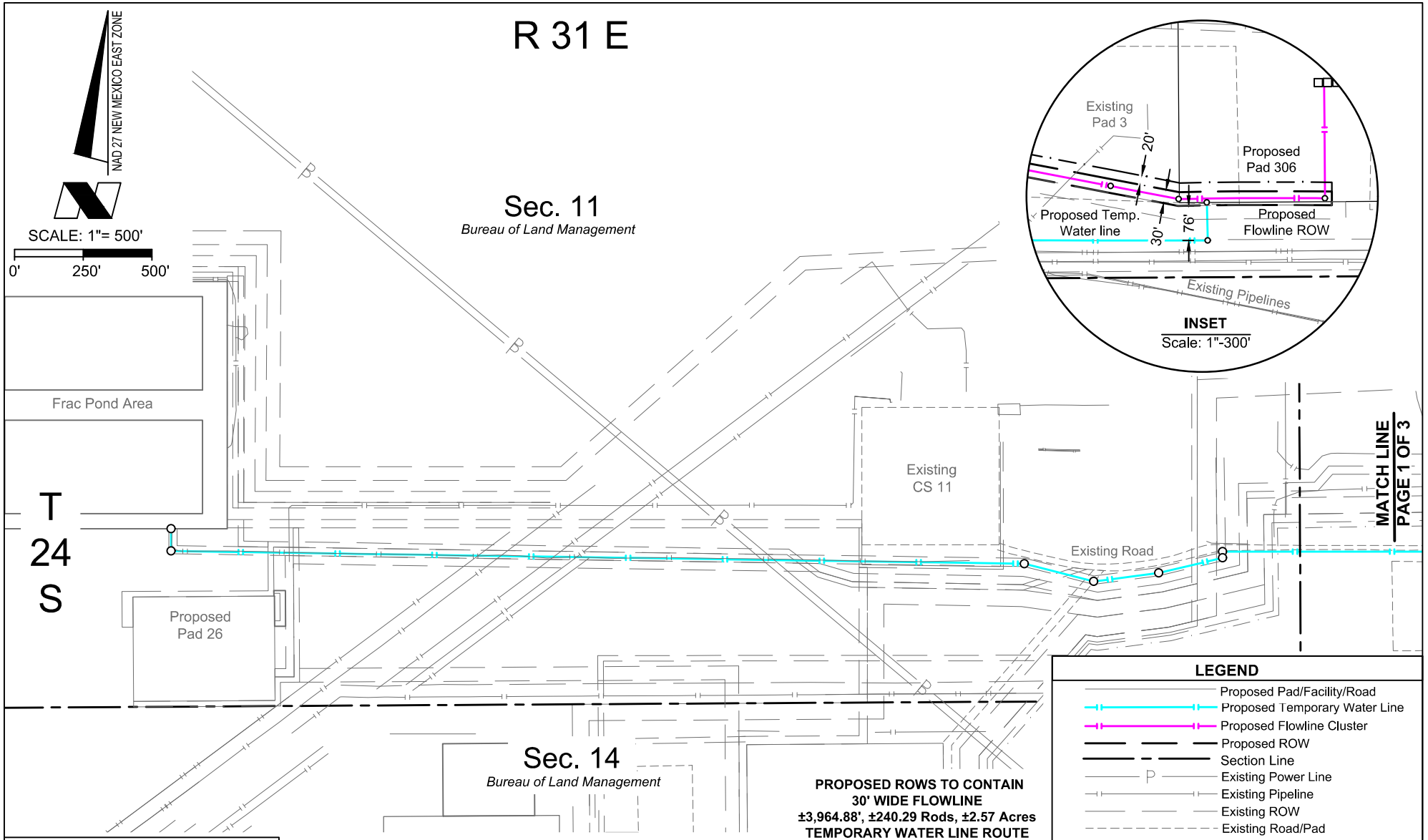
RIGHT OF WAY PLAT
SND PAD 306
CHEVRON U.S.A. INC.

PROPOSED PIPELINE & TEMPORARY WATER LINE
SITUATED IN
SECTIONS 11 & 12, T24S-R31E
EDDY COUNTY, NEW MEXICO



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SND PAD 306
CHEVRON U.S.A. INC.

PROPOSED PIPELINE & TEMPORARY WATER LINE
SITUATED IN
SECTIONS 11 & 12, T24S-R31E
EDDY COUNTY, NEW MEXICO

POINT OF BEGINNING
PROPOSED FLOWLINE
X = 688,078' (NAD27 NM E)
Y = 446,348'
LAT. 32.225665° N (NAD27)
LONG. 103.725131° W
X = 729,262' (NAD83/2011 NM E)
Y = 446,407'
LAT. 32.225789° N (NAD83/2011)
LONG. 103.725614° W

POINT OF ENDING
PROPOSED FLOWLINE
AT CTB 12
X = 684,907' (NAD27 NM E)
Y = 447,157'
LAT. 32.227938° N (NAD27)
LONG. 103.735368° W
X = 726,091' (NAD83/2011 NM E)
Y = 447,216'
LAT. 32.228061° N (NAD83/2011)
LONG. 103.735851° W

POINT OF BEGINNING
TEMPORARY WATER LINE
AT WELL PAD
X = 687,822' (NAD27 NM E)
Y = 446,086'
LAT. 32.224949° N (NAD27)
LONG. 103.725963° W
X = 729,006' (NAD83/2011 NM E)
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LAT. 32.225072° N (NAD83/2011)
LONG. 103.726445° W

POINT OF ENDING
TEMPORARY WATER LINE
(Section 11 Frac Pond)
X = 679,499' (NAD27 NM E)
Y = 446,528'
LAT. 32.226291° N (NAD27)
LONG. 103.752868° W
X = 720,683' (NAD83/2011 NM E)
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REVISIONS	
DRAWN BY: LME	PROJ. MGR.: VHV
DATE: 08/08/2022	
JOB#: 2201930.00C	SHEET 3 OF 3

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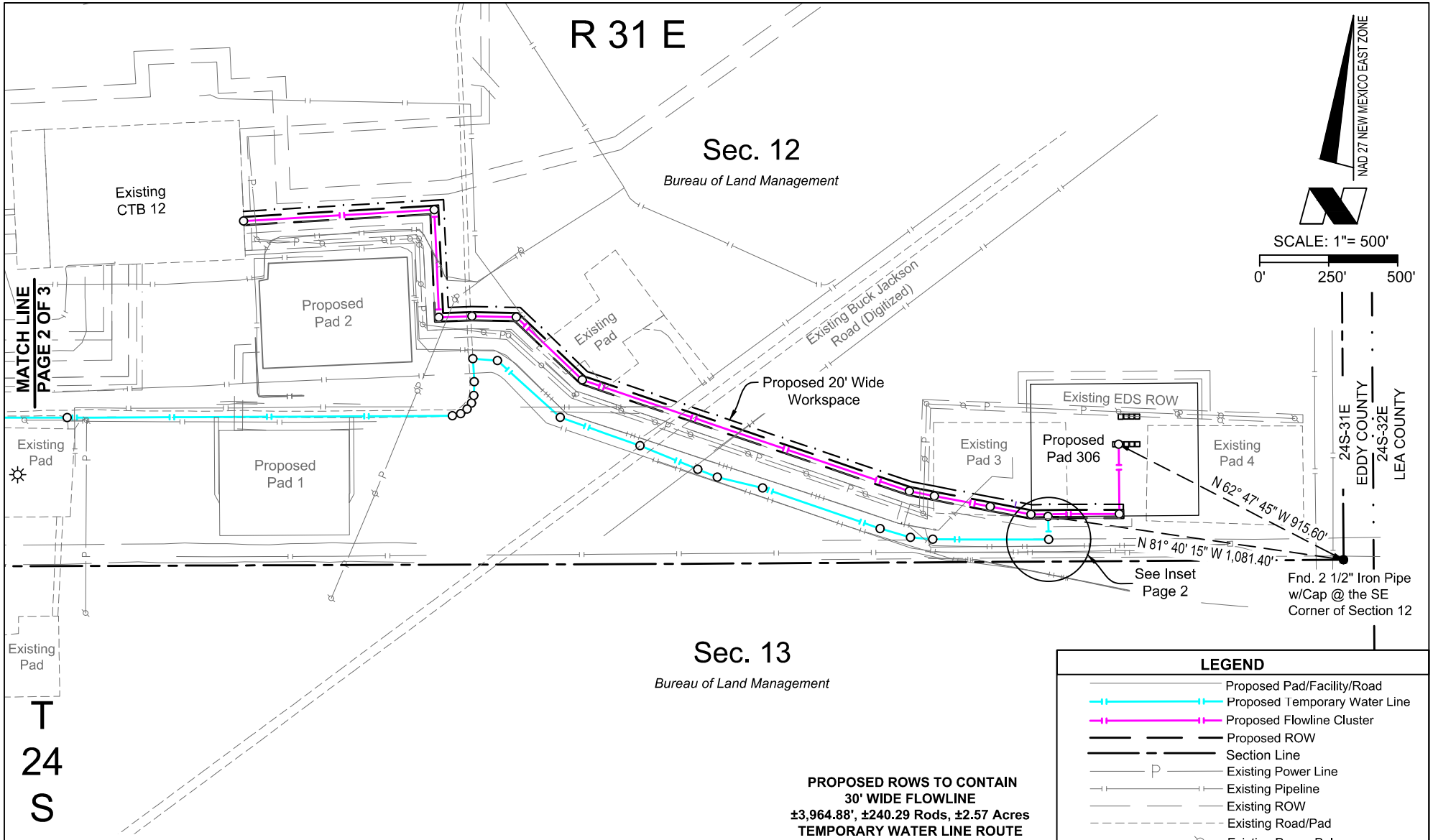
08/08/2022
PROFESSIONAL SURVEYOR

RIGHT OF WAY PLAT
SND PAD 306
CHEVRON U.S.A. INC.
PROPOSED PIPELINE & TEMPORARY WATER LINE
SITUATED IN
SECTIONS 11 & 12, T24S-R31E
EDDY COUNTY, NEW MEXICO



LEGEND

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- Proposed ROW
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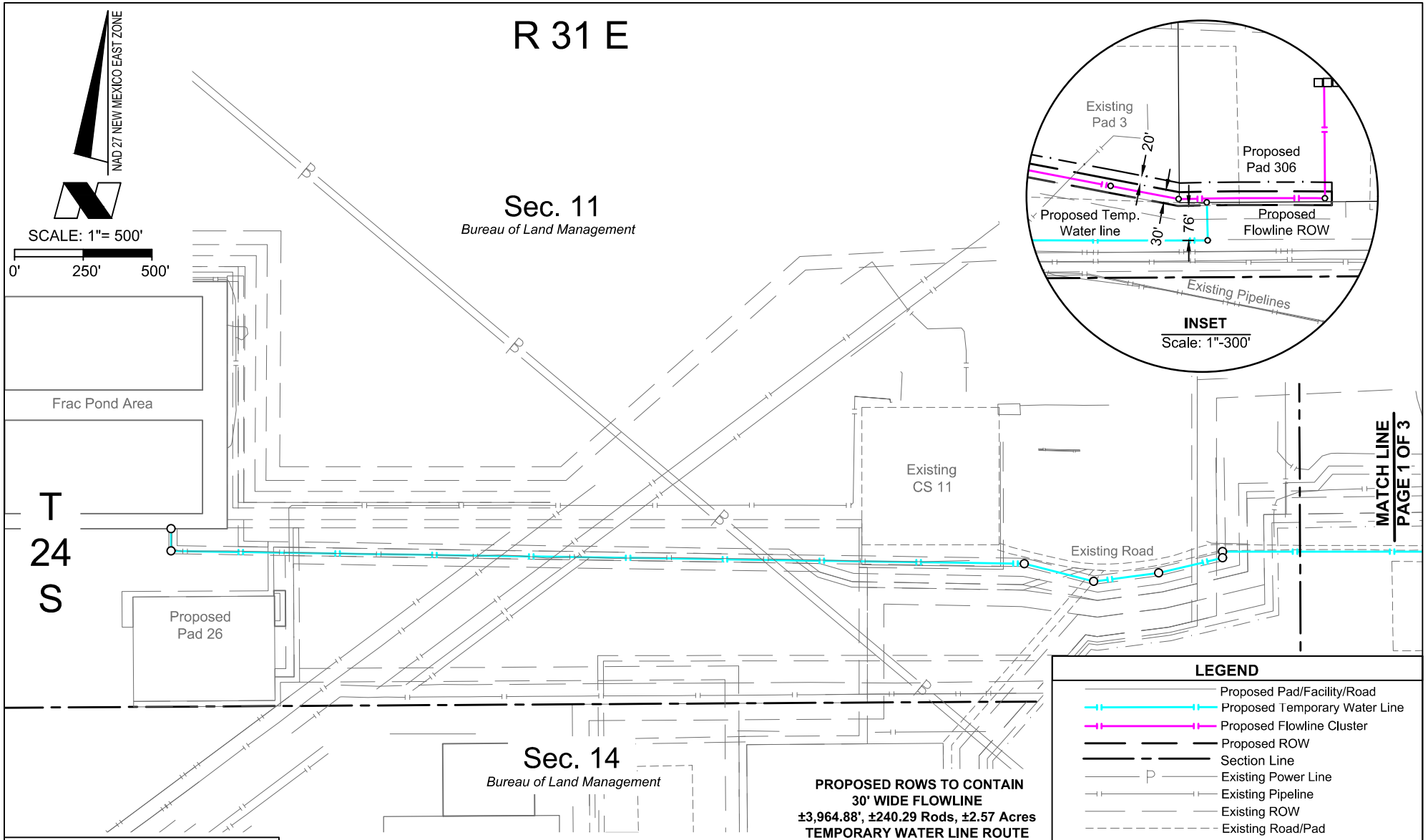
SND PAD 306
CHEVRON U.S.A. INC.

PROPOSED PIPELINE & TEMPORARY WATER LINE
SITUATED IN
SECTIONS 11 & 12, T24S-R31E
EDDY COUNTY, NEW MEXICO



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REVISIONS	
DRAWN BY: LME	PROJ. MGR.: VHV
DATE: 08/08/2022	
JOB#: 2201930.00C	SHEET 3 OF 3

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23006
08/08/2022
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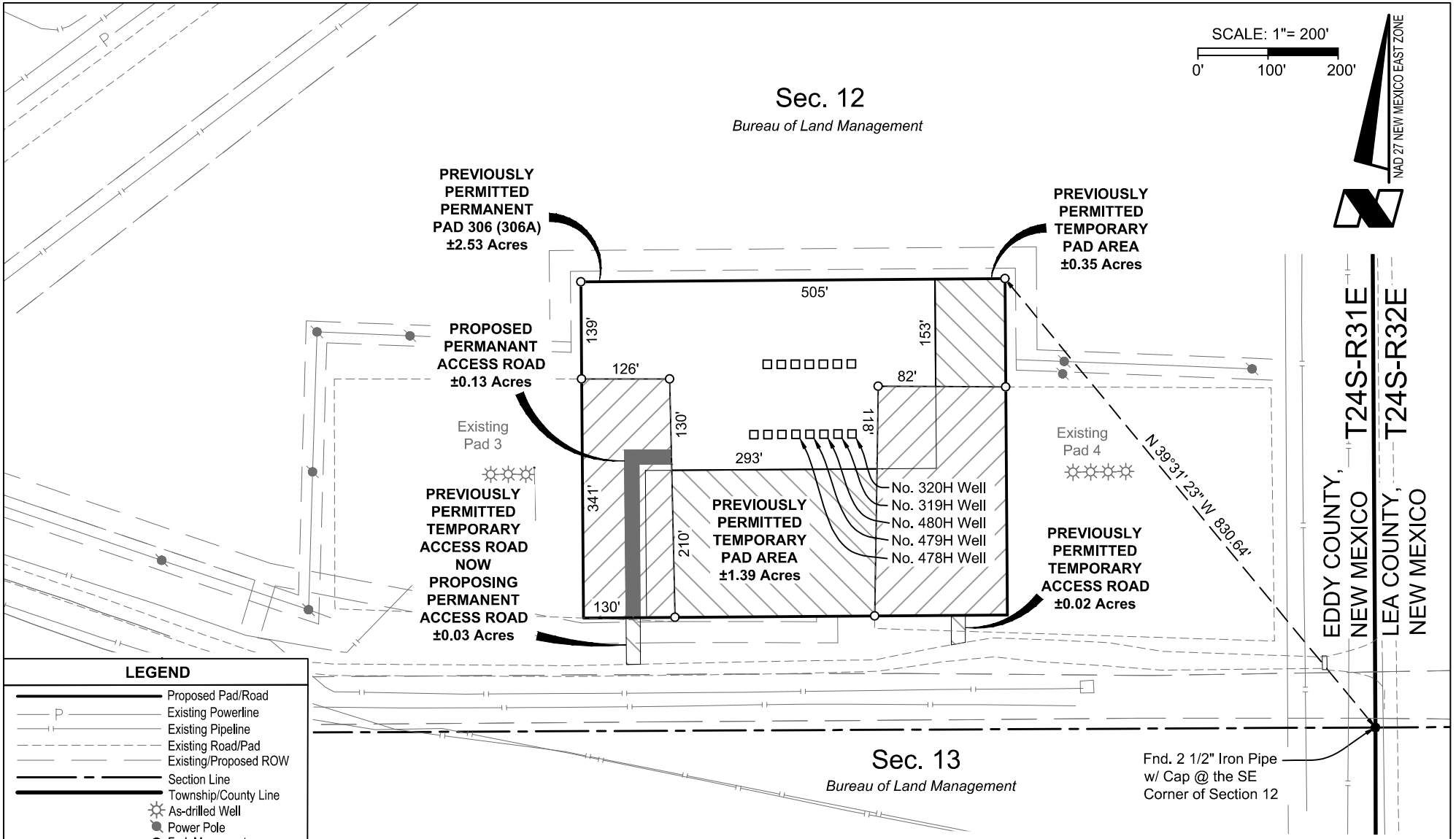
RIGHT OF WAY PLAT
SND PAD 306
CHEVRON U.S.A. INC.
PROPOSED PIPELINE & TEMPORARY WATER LINE
SITUATED IN
SECTIONS 11 & 12, T24S-R31E
EDDY COUNTY, NEW MEXICO



LEGEND

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- Existing Powerline
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- Section Line
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- As-drilled Well
- Power Pole
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REVISIONS	
08/25/2022	REV. TEXT
DRAWN BY: LME	PROJ. MGR.: VHV
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INTERIM RECLAMATION PLAT
SAND DUNES PAD 306
CHEVRON U.S.A. INC.
SITUATED IN
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LONG. 103.726160° W
X = 728,942' (NAD83/2011 NM E)
Y = 446,625'
LAT. 32.226392° N (NAD83/2011)
LONG. 103.726642° W
ELEV. 3,576' (NAVD88)

NE PAD CORNER
X = 688,363' (NAD27 NM E)
Y = 446,570'
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LONG. 103.724203° W
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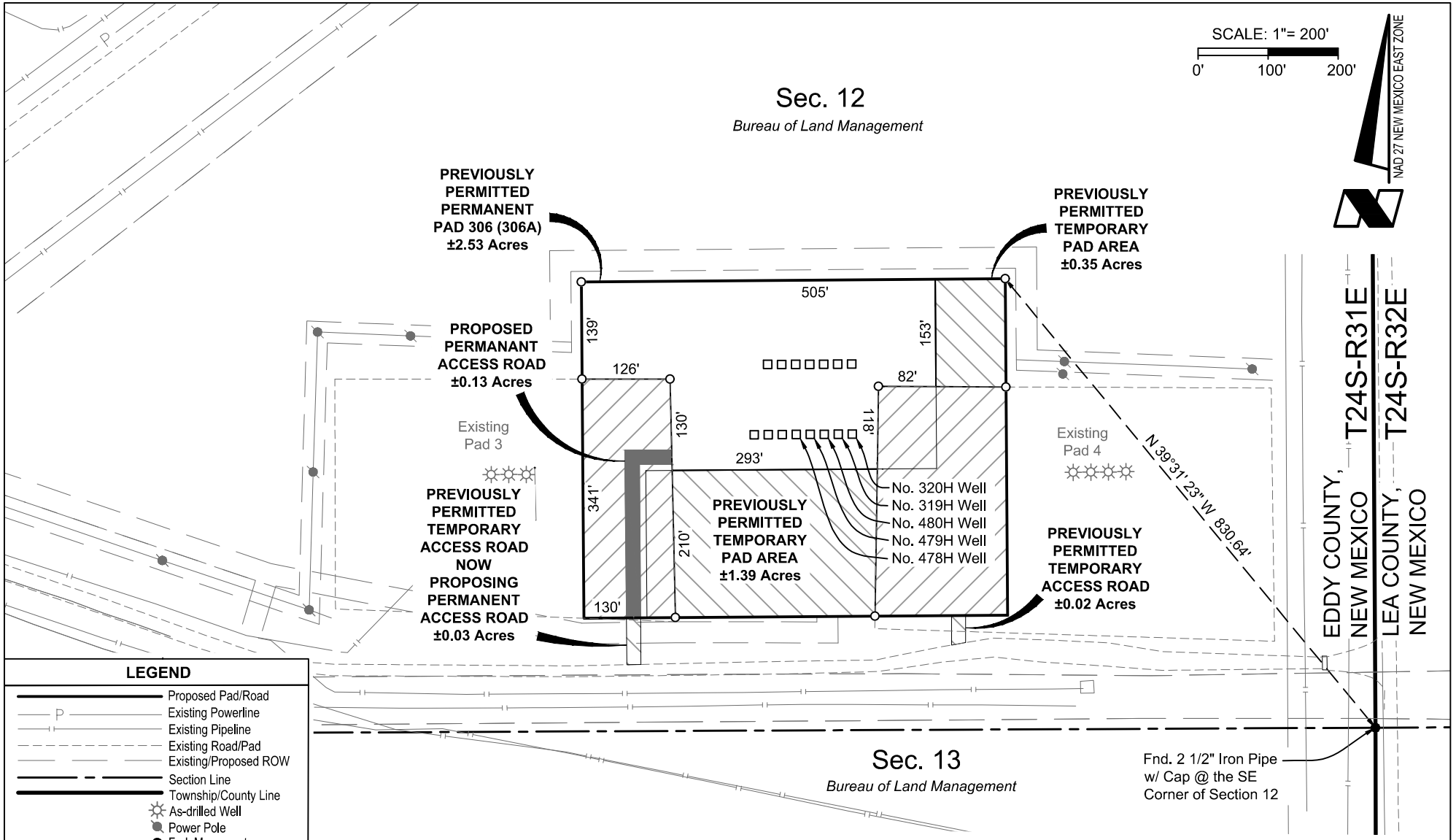

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Ph. 337-237-2200
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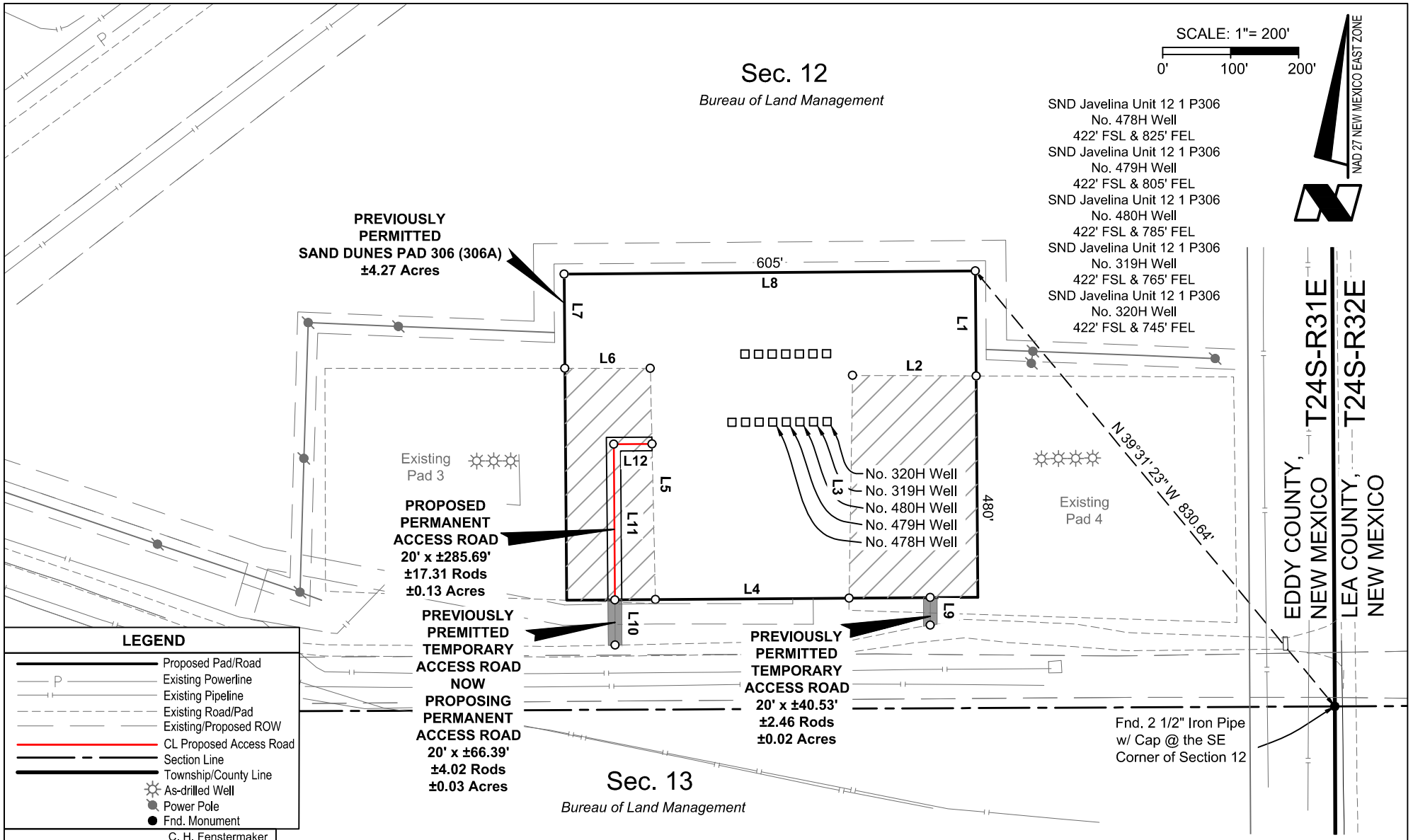
REVISIONS	
08/25/2022	REV. TEXT
DRAWN BY: LME	PROJ. MGR.: VHV
DATE: 08/18/2022	
JOB#: 2201930.00	SHEET 2 OF 2

FOR THE EXCLUSIVE USE OF
CHEVRON U.S.A. INC.
I, Robert L. Lastrapes, Professional Surveyor, do hereby state the above plat to be true and correct to the best of my knowledge.

Robert L. Lastrapes
Professional Surveyor
Registration No. 23006

ROBERT L. LASTRAPES
NEW MEXICO
23006
08/25/2022
PROFESSIONAL SURVEYOR

INTERIM RECLAMATION PLAT
SAND DUNES PAD 306
CHEVRON U.S.A. INC.
SITUATED IN
SECTION 12, T24S-R31E
EDDY COUNTY, NEW MEXICO



LEGEND

- Proposed Pad/Road
- Existing Powerline
- Existing Pipeline
- Existing Road/Pad
- Existing/Proposed ROW
- CL Proposed Access Road
- Section Line
- Township/County Line
- As-drilled Well
- Power Pole
- Fnd. Monument

C. H. Fenstermaker & Associates, L.L.C.
135 Regency Sq.
Lafayette, LA 70508
Ph. 337-237-2200
Fax. 337-232-3299

REVISIONS	

DRAWN BY: LME	PROJ. MGR.: VHV
DATE: 08/18/2022	
JOB#: 2201930.00	SHEET 1 OF 2

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ROBERT L. LASTRAPES NEW MEXICO 23006 08/18/2022 PROFESSIONAL SURVEYOR

PAD PLAT
SAND DUNES PAD 306
CHEVRON U.S.A. INC.
PROPOSED PAD & ACCESS ROADS
SITUATED IN
SECTION 12, T24S-R31E
EDDY COUNTY, NEW MEXICO

DISCLAIMER: At this time, C. H. Fenstermaker & Associates, L.L.C. has not performed nor was asked to perform any type of engineering, hydrological modeling, flood plain, or "No Rise" certification analyses, including but not limited to determining whether the project will impact flood hazards in connection with federal/FEMA, state, and/or local laws, ordinances and regulations. Accordingly, Fenstermaker makes no warranty or representation of any kind as to the foregoing issues, and persons or entities using this information shall do so at their own risk.

NOTE:
Please be advised, that while reasonable efforts are made to locate and verify pipelines and anomalies using our standard pipeline locating equipment, it is impossible to be 100 % effective. As such, we advise using caution when performing work as there is a possibility that pipelines and other hazards, such as fiber optic cables, PVC pipelines, etc. may exist undetected on site.

NOTE:
Many states maintain information centers that establish links between those who dig (excavators) and those who own and operate underground facilities (operators). It is advisable and in most states, law, for the contractor to contact the center for assistance in locating and marking underground utilities. For guidance, New Mexico One Call www.nm811.org

NW PAD CORNER
X = 687,758' (NAD27 NM E)
Y = 446,566'
LAT. 32.226268° N (NAD27)
LONG. 103.726160° W
X = 728,942' (NAD83/2011 NM E)
Y = 446,625'
LAT. 32.226392° N (NAD83/2011)
LONG. 103.726642° W
ELEV. +3576' (NAVD88)

NE PAD CORNER
X = 688,363' (NAD27 NM E)
Y = 466,570'
LAT. 32.226271° N (NAD27)
LONG. 103.724203° W
X = 729,547' (NAD83/2011 NM E)
Y = 446,629'
LAT. 32.226395° N (NAD83/2011)
LONG. 103.724686° W
ELEV. +3589' (NAVD88)

SW PAD CORNER
X = 687,762' (NAD27 NM E)
Y = 446,086'
LAT. 32.224949° N (NAD27)
LONG. 103.726157° W
X = 728,946' (NAD83/2011 NM E)
Y = 446,145'
LAT. 32.225072° N (NAD83/2011)
LONG. 103.726639° W
ELEV. +3578' (NAVD88)

SE PAD CORNER
X = 688,367' (NAD27 NM E)
Y = 446,090'
LAT. 32.224952° N (NAD27)
LONG. 103.724200° W
X = 729,551' (NAD83/2011 NM E)
Y = 446,149'
LAT. 32.225075° N (NAD83/2011)
LONG. 103.724683° W
ELEV. +3587' (NAVD88)

PREVIOUSLY PERMITTED PAD		
COURSE	BEARING	DISTANCE
L1	S 00° 25' 49" E	154.36'
L2	N 89° 46' 30" W	181.94'
L3	S 00° 53' 48" W	327.81'
L4	S 89° 34' 11" W	284.98'
L5	N 01° 14' 49" W	340.48'
L6	N 89° 59' 05" W	125.65'
L7	N 00° 25' 49" W	138.58'
L8	N 89° 34' 11" E	605.00'

CENTERLINE PREVIOUSLY PERMITTED ACCESS ROAD		
COURSE	BEARING	DISTANCE
L9	S 00° 04' 50" W	40.53'
L10	N 00° 25' 49" W	66.39'

CENTERLINE PROPOSED ACCESS ROAD		
COURSE	BEARING	DISTANCE
L11	N 00° 25' 49" W	229.22'
L12	N 89° 34' 11" E	56.47'

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PAD PLAT
SAND DUNES PAD 306
CHEVRON U.S.A. INC.
PROPOSED PAD & ACCESS ROADS
SITUATED IN
SECTION 12, T24S-R31E
EDDY COUNTY, NEW MEXICO

CHEVRON U.S.A. INC.
JAVELINA UNIT USA NMNM 139115X
SND JAVELINA UNIT 12 1 P306: 478H, 479H, 480H, 319H, 320H (Pad 306B, Co-Located with 306A)
USA NMNM 120901, USA NMNM 069369
SHL-SECTION 12, T24S-R31E BHL-SECTION 1, T24S-R31E

APD Surface Use Plan of Operations

Driving Directions

The location is approximately 33.3 miles from Jal, New Mexico. From Jal, proceed West on Highway 128 approximately 32 miles. From the intersection of Hwy 128 and Buck Jackson Road, head Southwesterly for approximately 1.01 miles. Turn left onto an existing access road and travel east for approximately .32 miles.

Existing Roads

The operator will improve or maintain existing roads in a condition the same as or better than before operations begin. The operator will repair potholes, clear ditches, repair the crown, etc. All existing structures on the entire access route such as cattle guards, other range improvement projects, culverts, etc. will be properly repaired or replaced if they are damaged or have deteriorated beyond practical use. Operator will prevent and abate fugitive dust as needed, whether created by vehicular traffic, equipment operations, or wind events. BLM written approval will be acquired before application of surfactants, binding agents, or other dust suppression chemicals on roadways.

New or Reconstructed Roads

- No new roads proposed for this APD.

Location of Existing Wells

1-Mile radius map is attached

Location of Existing and/or Proposed Facilities

- **Facilities**
  - **Central Tank Battery 12 (CTB 12) –** oil and gas production will be transported from the existing well pad 306 to the existing CTB 12 in the SW/4 of Sec. 12, T24S-R31E where oil sales will take place. **BLM ROW will not be required.**
  - **Compressor Station 11 (CS 11)** – gas production will be transported from the existing CTB 12 located in Sec. 12, T24S-R31E to the existing CS 11 in the SE/4 of Sec. 11, T24S-R31E where gas sales will take place. **BLM ROW will not be required.**
  - ➢ <u>All facilities will contain some or all of the following:</u>
    - Open top tanks or open containments will be netted.

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- Open vent exhaust stacks will be modified to prevent birds or bats from entering, discouraging perching, roosting and nesting.
- All above ground structures will be painted non-reflective shale green to blend with the surrounding environment.
- Facilities will have a secondary containment 1.5 times the holding capacity of the largest storage tank.
- Produced water may be sent into an existing Chevron water gathering system for permanent disposal and recycling or produced water may be sent to a 3rd party for takeaway.

- **Pipelines**:
  - **Flowline Cluster –** proposed five 4" buried flex lines from the proposed well pad 306 to the existing CTB in Sec. 12, T24S-R31E. Total length of **3,964.88' (2.57 Ac)**. 20' of temporary workspace is requested along the proposed route. **BLM ROW will not be required.**

Location and Types of Water Supply

- The existing frac pond in the SW/4 of Sec. 11, T24S-R31E may be utilized for drilling and completions, which holds brackish water and treated produced water.
- **Temporary Water Pipelines:**
  - **Drilling Poly Lines:**
    - Proposed two 4" poly lines from the existing frac pond in the SW/4 of Sec. 11, T24S-R31E to the proposed well pad 306. This route will share the same route as the completion lay flats. Total length of **8,856.95'**. **BLM temporary use authorization will not be required.**
  - **Completion Lay Flats:**
    - Proposed two 12" expanding lay flat lines from the existing frac pond in the SW/4 of Sec. 11, T24S-R31E to the proposed well pad 306. Total length of **8,856.95'**. **BLM temporary use authorization will not be required.**

Construction Material

- Caliche will be used to construct well pad and roads. Material will be purchased from the nearest federal, state, or private permitted pit.
  - Primary: Use caliche on existing location.
  - Secondary: To be determined
- The proposed source of construction material will be located and purchased by the construction contractor.
  - Payment shall be made by contractor prior to any removal of federal minerals material by contacting agent at (575) 234-5972.

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- Notification shall be given to BLM at (575) 234-5909 at least 3 working days prior to commencing construction of access road and/or well pad.

Methods for Handling Waste

- Drilling fluids and produced oil and water from the well during drilling and completion operations will be processed safely and reclaimed accordingly by NMOCD guidelines.
- Garbage and trash produced during drilling and completion operations will be collected in a trash container and disposed of properly at a state approved disposal facility. All trash on and around the well site will be collected for disposal.
- Human waste and grey water will be properly contained and disposed of properly at a state approved disposal facility.
- After drilling and completion operations, trash, chemicals, salts, frac sand and other waste material will be removed and disposed of properly at a state approved disposal facility.
- The well will be drilled utilizing a closed loop system. Drill cutting will be properly contained and reclaimed according to NMOCD guidelines.

Well Site Layout

- Well Pad & Reserve Pit
  - Exterior well pad dimensions are **480’ x 605’ (4.27 Ac)**
  - Interior well pad dimensions from point of entry (well head)
    - 478H: N-220’, E-300’, S-260’, W-305’
    - 479H: N-220’, E-280’, S-260’, W-325’
    - 480H: N-220’, E-260’, S-260’, W-245’
    - 319H: N-220’, E-240’, S-260’, W-365’
    - 320H: N-220’, E-220’, S-260’, W-385’
  - Topsoil placement will be on pad where interim reclamation is planned to be completed upon completion of wells and evaluation of best management practices.
  - Cut and fill: will be minimal. Diagram attached.
- Rig Layout (attached)

Plans for Surface Reclamation

Reclamation Objectives

- The objective of interim reclamation is to restore vegetative cover and a portion of the landform sufficient to maintain healthy, biologically active topsoil; control erosion; and minimize habitat and forage loss, visual impact, and weed infestation, during the life of the well or facilities.
- The long-term objective of final reclamation is to return the land to a condition similar to what existed prior to disturbance. This includes restoration of the landform and natural

vegetative community, hydrologic systems, visual resources, and wildlife habitats. To ensure that the long-term objective will be reached through human and natural processes, actions will be taken to ensure standards are met for site stability, visual quality, hydrological functioning, and vegetative productivity.

- The BLM will be notified at least 3 days prior to commencement of any reclamation procedures.
- If circumstances allow interim reclamation and/or final reclamation actions will be completed no later than 6 months from when the final well on the location has been completed or plugged. We will gain written permission from the BLM if more time is needed.
- Reclamation will be performed by using the following procedures:

Interim Reclamation Procedures

- Within 6 months of completing the last well on pad, Chevron will reduce the size of the location. Current plans for interim reclamation include reducing the pad size to approximately **(2.53 Ac)** (permanent pad) from the original size of **(4.27 Ac)**, a reclamation of **(1.74 Ac)** (temporary pad).
- The eastern driveway access **(0.02 Ac)** will be reclaimed.
- A portion of the pad will remain un-reclaimed to provide access to the permanent pad **(0.13 Ac)**.
- Within 30 days of well completion, the well location and surrounding areas will be cleared of, and maintained free of, all materials, trash, and equipment not required for production. A plan will be submitted showing where interim reclamation will be completed to allow for safe operations, protection of the environment outside of drilled well, and following best management practices found in the BLM “Gold Book”.
- In areas planned for interim reclamation, all the surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads.
- The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling but will be recontoured to the above ratios during interim reclamation.
- Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts & fills. To seed the area, the proper BLM seed mixture (BLM #2), free of noxious weeds, will be used.
- Proper erosion control methods will be used on the area to control erosion, runoff, and siltation of the surrounding area.
- The interim reclamation will be monitored periodically to ensure that vegetation has reestablished

Final Reclamation (well pad, buried pipelines, and power lines, etc.)

- Prior to final reclamation procedures, the well pad, road, and surrounding area will be

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cleared of material, trash, and equipment.

- All surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads.
- All disturbed areas, including roads, pipelines, pads, production facilities, and interim reclaimed areas will be recontoured to the contour existing prior to initial construction or a contour that blends in distinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.
- After all the disturbed areas have been properly prepared; the areas will be seeded with the proper BLM seed mixture (BLM #2), free of noxious weeds.
- Proper erosion control methods will be used on the entire area to control erosion, runoff and siltation of the surrounding area.
- Plat attached.

Surface Ownership

- BLM Surface
  - Surface Tenant – Richardson Cattle Co.
- Nearest Post Office
  - Jal Post Office: 34.5 Miles East

Other Information

- On-site review performed with BLM NRS: Paul Murphy 5/21/2020
- In Participating Agreement area: Yes
  - If no above, has cultural report been submitted: NA

Chevron Representative

Primary point of contact:
Taylor Ward
taylorward@chevron.com
M – 432-634-9467

AFMSS

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

PWD Data Report

07/31/2023

APD ID: 10400088084 **Submission Date:** 09/19/2022

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 12 01 P306 **Well Number:** 320H

Well Type: OIL WELL **Well Work Type:** Drill

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit

Pit liner description:

Pit liner manufacturers

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule

Lined pit reclamation description:

Lined pit reclamation

Leak detection system description:

Leak detection system

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 12 01 P306 **Well Number:** 320H

Lined pit Monitor description:

Lined pit Monitor

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): **PWD surface owner:**

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Unlined pit Monitor

Do you propose to put the produced water to beneficial use?

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic

State

Unlined Produced Water Pit Estimated

Unlined pit: do you have a reclamation bond for the pit?

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 12 01 P306 **Well Number:** 320H

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information

Section 4 -

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number: **Injection well name:**

Assigned injection well API number? **Injection well API number:**

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection

Underground Injection Control (UIC) Permit?

UIC Permit

Section 5 - Surface

Would you like to utilize Surface Discharge PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 -

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Other PWD discharge volume (bbl/day):

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 12 01 P306 **Well Number:** 320H

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements

AFMSS

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

Bond Info Data

07/31/2023

APD ID: 10400088084

Submission Date: 09/19/2022

Operator Name: CHEVRON USA INCORPORATED

Well Name: SND JAVELINA UNIT 12 01 P306

Well Number: 320H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Bond

Federal/Indian APD: FED

BLM Bond number: ES0022

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Chevron**
LEASE NO.:	**NMNM120901**
LOCATION:	Section 12, T.24 S, R.31 E., NMPM
COUNTY:	Eddy County, New Mexico
WELL NAME & NO.:	SND Javelina Unit 12 01 P306 320H
SURFACE HOLE FOOTAGE:	422'/S & 745'/E
BOTTOM HOLE FOOTAGE:	25'/N & 660'/E

COA

H2S	○ Yes	◉ No	
Potash	○ None	◉ Secretary	○ R-111-P
Cave/Karst Potential	◉ Low	○ Medium	○ High
Cave/Karst Potential	○ Critical		
Variance	○ None	◉ Flex Hose	○ Other
Wellhead	○ Conventional	◉ Multibowl	○ Both
Wellhead Variance	○ Diverter		
Other	☐ 4 String	☐ Capitan Reef	☐ WIPP
Other	☐ Fluid Filled	☐ Pilot Hole	☐ Open Annulus
Cementing	☐ Contingency Cement Squeeze	☐ EchoMeter	☐ Primary Cement Squeeze
Special Requirements	☐ Water Disposal	☐ COM	☑ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements Variance	☑ Break Testing	☐ Offline Cementing	☐ Casing Clearance

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 **1056** 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

Approval Date: 07/26/2023

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. **Excess calculates to 23%. Additional cement maybe required.**

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

❖ In Secretary Potash Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

3. The minimum required fill of cement behind the **7** inch production casing is:
Cement should tie-back at least **500 feet** into previous casing string. Operator shall provide method of verification.
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 x 4-1/2** inch production liner is:
   - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).

2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
c. Manufacturer representative shall install the test plug for the initial BOP test.
d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
e. Whenever any seal subject to test pressure is broken, all the tests in 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

☒ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

   a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
   b. When the operator proposes to set surface casing with Spudder Rig
      - Notify the BLM when moving in and removing the Spudder Rig.
      - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
      - BOP/BOPE test to be conducted per **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 7/19/2023

Approval Date: 07/26/2023

H_2S Preparedness and Contingency Plan Summary

Training

MCBU Drilling and Completions H_2S training requirements are intended to define the minimum level of training required for employees, contractors and visitors to enter or perform work at MCBU Drilling and Completions locations that have known concentrations of H_2S.

Awareness Level

Employees and visitors to MCBU Drilling and Completions locations that have known concentrations of H_2S, who are not required to perform work in H_2S areas, will be provided with an awareness level of H_2S training prior to entering any H_2S areas. At a minimum, awareness level training will include:

1. Physical and chemical properties of H_2S
2. Health hazards of H_2S
3. Personal protective equipment
4. Information regarding potential sources of H_2S
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_2S Training

Employees and contractors required to work in areas that may contain H_2S will be provided with Advanced Level H_2S training prior to initial assignment. In addition to the Awareness Level requirements, Advanced Level H_2S training will include:

1. H_2S safe work practice procedures;
2. Emergency contingency plan procedures;
3. Methods to detect the presence or release of H_2S (e.g., alarms, monitoring equipment), including hands-on training with direct reading and personal monitoring H_2S equipment.
4. Basic overview of respiratory protective equipment suitable for use in H_2S 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_2S training;
6. Proficiency examination covering all course material.

Advanced H_2S training courses will be instructed by personnel who have successfully completed an appropriate H_2S train-the-trainer development course (ANSI/ASSE Z390.1-2006) or who possess significant past experience through educational or work-related background.

H_2S Preparedness and Contingency Plan Summary

H_2S 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 up-wind 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_2S 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_2S Detection and Monitoring System

a) H_2S 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.

H_2S Preparedness and Contingency Plan Summary

Well Control Equipment

a) Flare Line 150' from wellhead with igniter.

b) Choke manifold with a remotely operated choke.

c) Mud / gas separator

Mud Program

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

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

Public Safety - Emergency Assistance

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

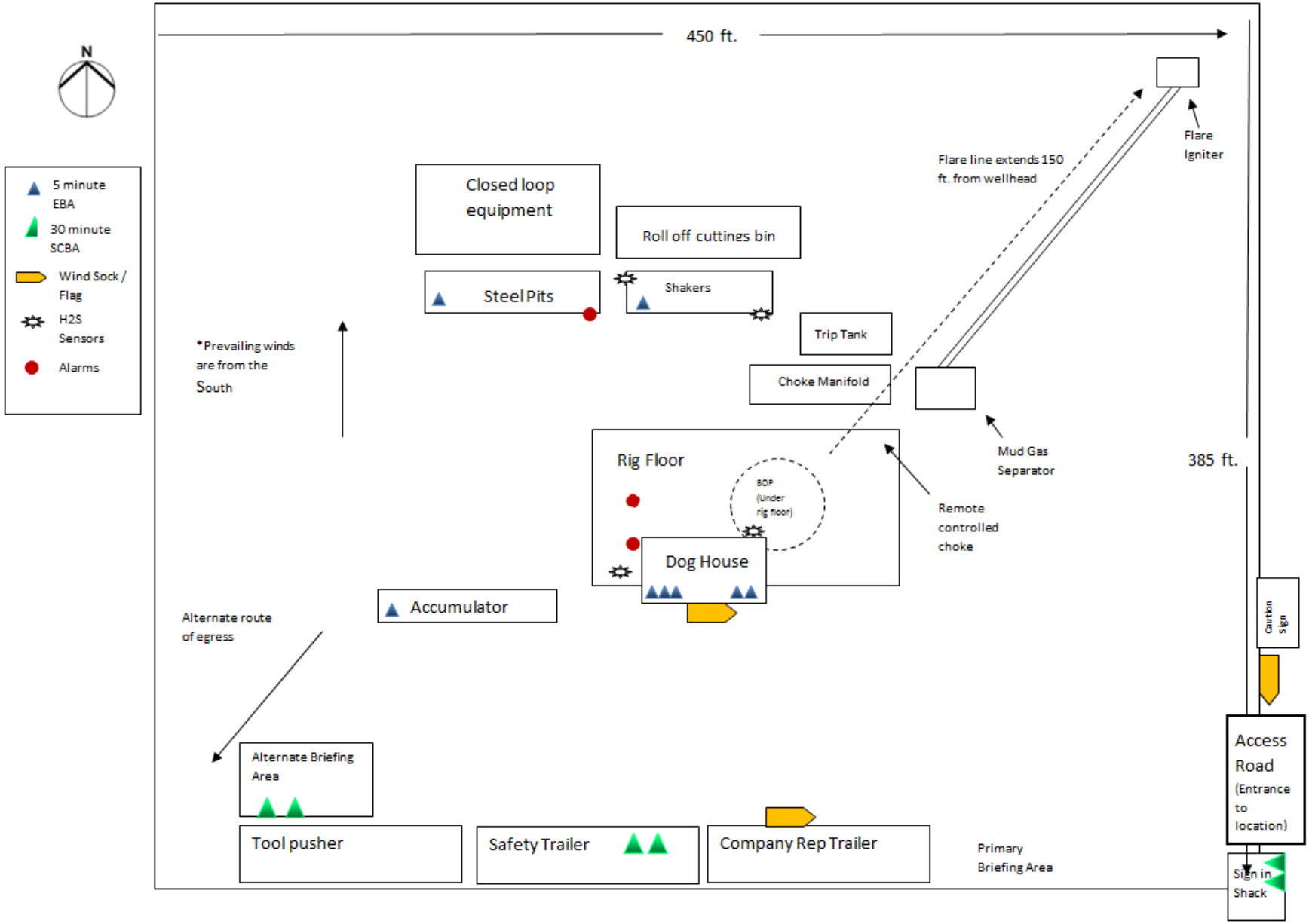
H_2S Preparedness and Contingency Plan Summary

Chevron MCBU D&C Emergency Notifications

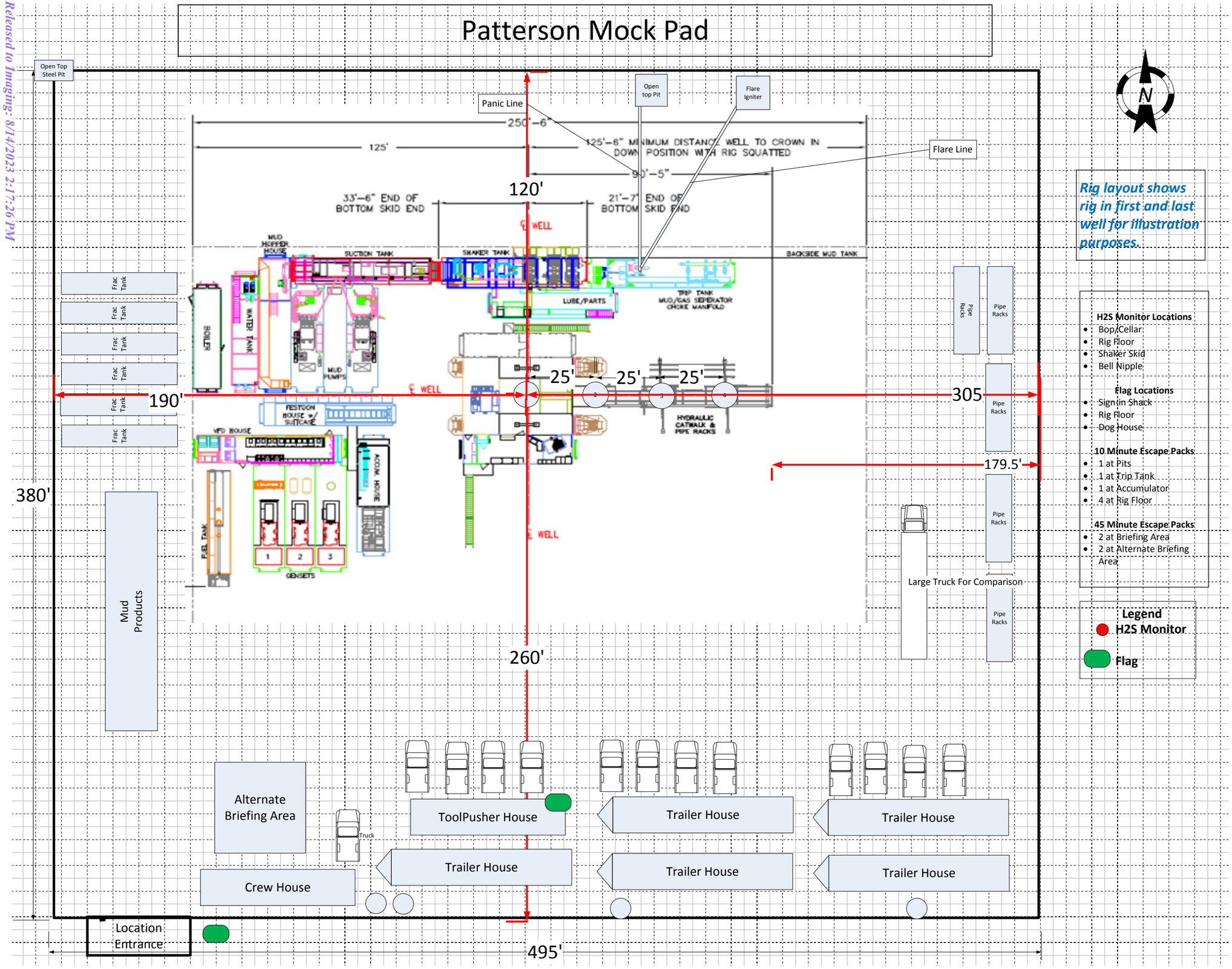
Below are lists of contacts to be used in emergency situations.

	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		

H_2S Preparedness and Contingency Plan Summary



Patterson Mock Pad



Rig layout shows rig in first and last well for illustration purposes.

H2S Monitor Locations
- Bop/Cellar
- Rig Floor
- Shaker Skid
- Bell Nipple

Flag Locations
- Sign-in Shack
- Rig Floor
- Dog House

10 Minute Escape Packs
- 1 at Pits
- 1 at Trip Tank
- 1 at Accumulator
- 4 at Rig Floor

45 Minute Escape Packs
- 2 at Briefing Area
- 2 at Alternate Briefing Area

Legend
- H2S Monitor
- Flag

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

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 #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

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

Drilling Plan Data Report
07/31/2023

APD ID: 10400088084
Submission Date: 09/19/2022
Operator Name: CHEVRON USA INCORPORATED
Well Name: SND JAVELINA UNIT 12 01 P306
Well Number: 320H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
9203368	QUATERNARY	3583	0	0	ANHYDRITE	NONE	N
9203374	RUSTLER ANHYDRITE	2761	822	822	DOLOMITE	NONE	N
9203351	RUSTLER	2552	1031	1031	DOLOMITE	NONE	N
9203375	SALADO	2380	1203	1203	HALITE, SALT	NONE	N
9203373	CASTILE	593	2990	2990	ANHYDRITE	NONE	N
9203370	LAMAR	-1027	4610	4610	LIMESTONE	NONE	N
9203352	BELL CANYON	-1077	4660	4660	SANDSTONE	NONE	N
9203354	CHERRY CANYON	-1933	5516	5530	SANDSTONE	NONE	N
9203355	BRUSHY CANYON	-3250	6833	6847	SANDSTONE	NONE	N
9203356	BONE SPRING LIME	-4907	8490	8504	LIMESTONE	NONE	N
9203366	UPPER AVALON SHALE	-4960	8543	8557	LIMESTONE, SHALE	NONE	N
9203358	BONE SPRING 1ST	-5986	9569	9583	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M
Rating Depth: 9775

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

Requesting Variance? YES

BLOWOUT PREVENTER SCHEMATIC

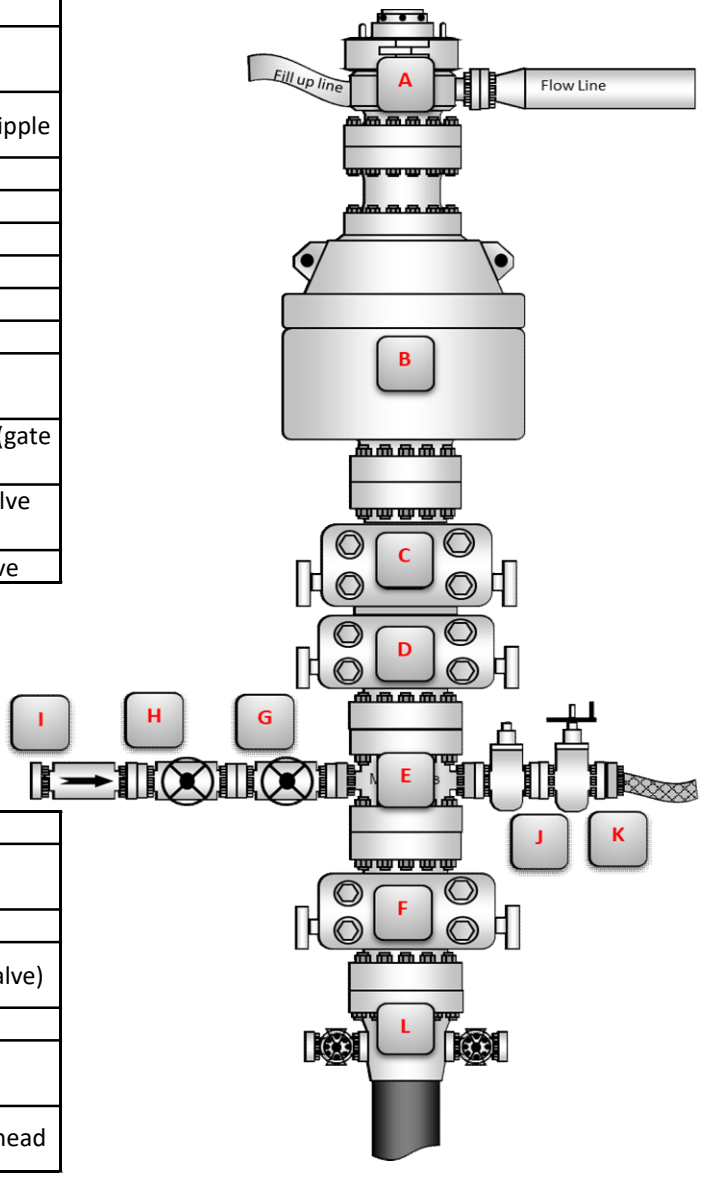
Operation:	Intermediate & Production Drilling Operations
Minimum System operation pressure	5,000 psi

BOP Stack

Part	Size	Pressure Rating	Description
A	13-5/8"	N/A	Rotating Head/Bell nipple
B	13-5/8"	5,000	Annular
C	13-5/8"	10,000	Blind Ram
D	13-5/8"	10,000	Pipe Ram
E	13-5/8"	10,000	Mud Cross
F	13-5/8"	10,000	Pipe Ram

Kill Line

Part	Size	Pressure Rating	Description
G	2"	10,000	Inside Kill Line Valve (gate valve)
H	2"	10,000	Outside Kill Line Valve (gate valve)
I	2"	10,000	Kill Line Check valve



Choke line

Part	Size	Pressure Rating	Description
J	3"	10,000	HCR (gate valve)
K	3"	10,000	Manual HCR (gate valve)

Wellhead

Part	Size	Pressure Rating	Description
L	13-5/8"	5,000	FMC Multibowl wellhead

BOP Installation Checklist: *The following items must be verified and checked off prior to pressure testing BOP equipment*
The installed BOP equipment meets at least the minimum requirements (rating, type, size, configuration) as shown on this schematic. Components may be substituted for equivalent equipment rated to higher pressures. Additional components may be put into place as long as they meet or exceed the minimum pressure rating of the system.
All valves on the kill line and choke line will be full opening and will allow straight flow through.
Manual (hand wheels) or automatic locking devices will be installed on all ram preventers. Hand wheels will also be install on all manual valves on the choke and kill line.
A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will remain open unless accumulator is inoperative.
Upper kelly cock valve with handle will be available on rig floor along with saved valve and subs to fit all drill string connections in use.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 248443

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 248443
	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	8/14/2023
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	8/14/2023
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	8/14/2023
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	8/14/2023
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	8/14/2023