Form 3160-3 (June 2015) UNITED STATES DEPARTMENT OF THE IN BUREAU OF LAND MANA APPLICATION FOR PERMIT TO D	NTERIOR AGEMENT			FORM API OMB No. 10 Expires: Janua 5. Lease Serial No. 6. If Indian, Allotee or 7	004-0137 ry 31, 2018
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 Agreen8. Lease Name and Wel	
2. Name of Operator				9. API Well No.	
3a. Address	3b. Phone N	o. (include area cod	e)	30 015 48008 10. Field and Pool, or E	<u>COTTON</u> DRAW; xploratory BONE SPRING
 4. Location of Well (Report location clearly and in accordance w At surface At proposed prod. zone 	vith any State	requirements.*)		11. Sec., T. R. M. or Bll	c. and Survey or Area
14. Distance in miles and direction from nearest town or post official	ce*			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 ac	eres in lease	17. Spacin	ng Unit dedicated to this	well
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Propose	d Depth	20. BLM/	'BIA Bond No. in file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approxi	mate date work will	start*	23. Estimated duration	
	24. Attac	hments			
The following, completed in accordance with the requirements of (as applicable)	Onshore Oil	and Gas Order No. 1	I, and the H	Iydraulic Fracturing rule	per 43 CFR 3162.3-3
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syster SUPO must be filed with the appropriate Forest Service Office) 		Item 20 above). 5. Operator certific 6. Such other site sp	ation.	is unless covered by an ex mation and/or plans as ma	
25. Signature	Name	BLM. (Printed/Typed)		Da	te
Title					
Approved by (Signature)	Name	(Printed/Typed)		Da	te
Title	Office				
Application approval does not warrant or certify that the applican applicant to conduct operations thereon. Conditions of approval, if any, are attached.	t holds legal o	or equitable title to the	nose rights	in the subject lease which	would entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m of the United States any false, fictitious or fraudulent statements of					department or agency



*(Instructions on page 2)

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(Continued on page 2)

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: SWSW / 140 FSL / 1258 FWL / TWSP: 24S / RANGE: 31E / SECTION: 11 / LAT: 32.225018 / LONG: -103.753093 (TVD: 0 feet, MD: 0 feet) PPP: SWNW / 1465 FNL / 330 FWL / TWSP: 24S / RANGE: 31E / SECTION: 23 / LAT: 32.206057 / LONG: -103.756094 (TVD: 9017 feet, MD: 9431 feet) PPP: NWNW / 100 FNL / 330 FWL / TWSP: 24S / RANGE: 31E / SECTION: 23 / LAT: 32.209807 / LONG: -103.756094 (TVD: 9017 feet, MD: 9431 feet) PPP: SWSW / 100 FSL / 330 FWL / TWSP: 24S / RANGE: 31E / SECTION: 14 / LAT: 32.210357 / LONG: -103.756094 (TVD: 9017 feet, MD: 9431 feet) PPP: NWNW / 100 FNL / 330 FWL / TWSP: 24S / RANGE: 31E / SECTION: 14 / LAT: 32.210357 / LONG: -103.756094 (TVD: 9017 feet, MD: 9431 feet) PPP: NWNW / 100 FNL / 330 FWL / TWSP: 24S / RANGE: 31E / SECTION: 14 / LAT: 32.224357 / LONG: -103.756094 (TVD: 9017 feet, MD: 9431 feet) BHL: SWSW / 25 FSL / 330 FWL / TWSP: 24S / RANGE: 31E / SECTION: 23 / LAT: 32.195666 / LONG: -103.756063 (TVD: 9058 feet, MD: 19875 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.

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

WEELE EDENTION AND ACKEAGE DEDICATION TEAT										
	¹ API Number ² Pool Code				COTTC	ON DRAW;	BONE ool Nai	ne		
30 015	48008		13367 SPRING SAND DUNES, LOWER AVAI					LON		
⁴ Proper	ty Code		⁵ Property Name					6	Well Number	
330011			SND 14 23 FED COM 001 P26						225H	
⁷ OGR	ID No.		⁸ Operator Name					⁹ Elevation		
432	23	CHEVRON U.S.A. INC.			3538'					
¹⁰ Surface Location										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/V	West line	County
М	11	24 SOUTH	31 EAST, N.M.P.M.		140'	SOUTH	1258'	WE	EST	EDDY
" 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/V	West line	County
М	23	24 SOUTH	31 EAST, N.M.P.M.		25'	SOUTH	330'	WE	ST	EDDY
¹² Dedicated A	cres ¹³ Joi	nt or Infill	¹⁴ Consolidation Code ¹⁵	⁵ Order No.						
640										

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16	A _0 F	¹⁷ OPERATOR CERTIFICATION
SND 14 23 FED COM 001 P26 PROPOSED FIRST TAKE POINT	1258	I hereby certify that the information contained herein is true and complete
NO. 225H WELL Prof ocld find find find find X= 679,582' X= 678,655'		to the best of my knowledge and belief, and that this organization either
Y= 446,021' Y= 445,776' NAD 27	B JE S 75°09'35" W	owns a working interest or unleased mineral interest in the land including
LAT. 32.224895° N LAT. 32.224234° N LONG. 103.752609° W LONG. 103.755610° W	958.75'	the proposed bottom hole location or has a right to drill this well at this
$\chi = 720,766'$ $\chi = 719,839'$	Proposed	location pursuant to a contract with an owner of such a mineral or
Y= 446,080' NAD83/2011 Y= 445,834' NAD83/2011	First Take Point	1 5
LAT. 32.225018° N LAT. 32.224357° N LONG. 103.753093° W LONG. 103.756094° W	100' FNL, 330' FWL	working interest, or to a voluntary pooling agreement or a compulsory
ELEV. +3,538' NAVD88		pooling order heretofore entered by the division.
PROPOSED BOTTOM HOLE	ki i 1 i i	5/7/2020
PROPOSED LAST TAKE POINT LOCATION		Signature Date
X= 678,720' X= 678,720' Y= 435,413' Y= 435,338'		
LAT. 32.195748° N ^{NAD 27} LAT. 32.195542° N ^{NAD 27}	k 1	Laura Becerra
LONG. 103.755581° W X= 719.904' X= 719.905'	437.48	Printed Name
Y= 435,472' NAD02/0011 Y= 435,397' NAD02/0011	K 5 3 1	
LAT. 32.195872°N LAT. 32.195666°N	4.	LBecerra@Chevron.com
LONG. 103.756063° W LONG. 103.756063° W		E-mail Address
	29"E	
		¹⁸ SURVEYOR CERTIFICATION
		I hereby certify that the well location shown on this
		plat was plotted from field notes of actual surveys
CORNER COORDINATES TABLE		made by me or under my supervision, and that the
(NAD 27)		same is true and correct to the best of my belief.
A - Y=447193.90, X= 678318.78		
B - Y=445873.60, X=678324.50		03/31/2020 L. LASTO
C - Y=435311.46, X=678390.49	kı 1	Date of Survey
D - Y=447201.92, X=679640.10 E - Y=445881.52, X=679646.09		Date of Survey Signature and Seal of Professional Surveyor:
F - Y=447225.98, X=683604.05	K; 1	
G - Y=447223.98, X=683670.54	k 1	23006) 04/13/2020
C 1-100012.01, A=000010.01		$ = \frac{1}{100} \frac$
	Proposed Last Take Point	X A A A A A A A A A A A A A A A A A A A
	1_{io} Last Take Point 100' FSL, 330' FWL	Certificate Number
330' —		
		· · · · · · · · · · · · · · · · · · ·

Submit Original to Appropriate District Office

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

GAS CAPTURE PLAN

X Original	Operator & OGRID No.:	CHEVRON U S A INC (4323)	
□ Amended		Date:	5/13/2020
Reason	n for Amendment:		

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: A C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule 19.15.18.12.A

Well(s)/Production Facility – SND Section 12 CTB

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location	Footages	Expected MCF/D	Flared or Vented	Comments
SND 14 23 FED COM 001 P26 225H	Pending	UL:M, Sec. 11, T24S-R31E	140' FSL, 1,258' FWL	2896	0	
SND 14 23 FED COM 001 P26 226H	Pending	UL:M, Sec. 11, T24S-R31E	140' FSL, 1,283' FWL	2896	0	
SND 14 23 FED COM 001 P26 227H	Pending	UL:M, Sec. 11, T24S-R31E	140' FNL, 1,308' FWL	2896	0	

Gathering System and Pipeline Notification

These wells will be connected to Chevron's SND Section 12 CTB production facility located in Section 12, T24S – R31E, Eddy County, New Mexico during flowback and production.

Gas produced from the production facility will be dedicated to DCP Operating Company, LP (DCP) and will be connected to DCP's high pressure gathering system located in Eddy County, New Mexico. Produced gas will be processed at one or more of DCP's New Mexico gas plants located in Eddy and Lea Counties. Chevron periodically provides DCP estimated production forecasts for wells that are scheduled to be drilled in the foreseeable future. In addition, Chevron and DCP have periodic conference calls to discuss changes to the forecasts.

Flowback Strategy

After the fracture treatment/completion operations, wells will be turned to permanent production facilities. Wells will have temporary sand catchers (separators) that will be installed at the well location to prevent sand from getting into the flowlines. These sand separators will be blown down periodically which will result in minimal venting of gas. Gas sales will start as soon as the wells start flowing through the production facilities unless there are operational issues with DCP's system at that time. Based on current information, it is Chevron's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation On Lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared.
- Compressed Natural Gas On Lease
 - Gas flared would be minimal but might be uneconomical to operate when gas volume declines.
- NGL Removal On lease and trucked from condensate tanks
 - o Plants are expensive and uneconomical to operate when gas volume declines.
 - Any residue gas that results in the future may be flared.

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CHEVRON USA INCORPORATED
LEASE NO.:	NMNM111960
LOCATION:	Section 11, T.24 S., R.31 E., NMP
COUNTY:	Eddy County, New Mexico
WELL NAME & NO.:	SND 14 23 FED COM 001 P26 225H
SURFACE HOLE FOOTAGE:	140'/S & 1258'/W
BOTTOM HOLE FOOTAGE	25'/S & 330'/W
WELL NAME & NO.:	SND 14 23 FED COM 001 P26 226H
SURFACE HOLE FOOTAGE:	140'/S & 1283'/W
BOTTOM HOLE FOOTAGE	25'/S & 1254'/W
WELL NAME & NO.:	SND 14 23 FED COM 001 P26 227H
SURFACE HOLE FOOTAGE:	140'/S & 1308'/W
BOTTOM HOLE FOOTAGE	25'/S & 2178'/W

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

Casing Design:

- 1. The **13-3/8** inch surface casing shall be set at approximately **875** feet (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>24 hours in the Potash Area</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Option 2:

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

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
 Wait on cement (WOC) time for a primary cement job is to include

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

In <u>Secretary Potash Areas</u> 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:

Option 1 (Single Stage):

• Cement should tie-back at least **500 feet** into previous casing string. Operator shall provide method of verification.

Option 2:

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

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement should tie-back at least **500 feet** into previous casing string. Operator shall provide method of verification.

Operator has proposed to pump down 9-5/8" X 7" annulus. <u>Operator must run a</u> <u>CBL from TD of the 7" casing to surface. Submit results to BLM.</u>

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

C. PRESSURE CONTROL

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

2.

Option 1:

a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.

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

Option 2:

- 1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000** (**5M**) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

Approval Date: 01/06/2021

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

A. CASING

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

B. PRESSURE CONTROL

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

Approval Date: 01/06/2021

lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

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

Approval Date: 01/06/2021

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.

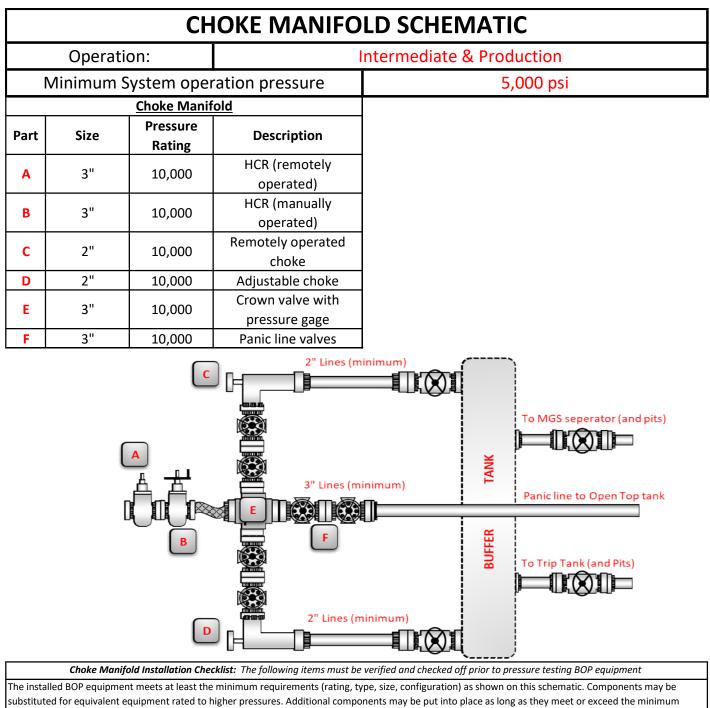
D. WASTE MATERIAL AND FLUIDS

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.

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pressure rating of the system.

Adjustable chokes may be remotely operated but will have backup hand pump for hydraulic actuation in case of loss of rig air or power.

Flare and panic lines will terminate a minimum of 150' from the wellhead. These lines will terminate at a location as per approved APD.

All valves (except chokes) on choke line, kill line and choke manifold will be full opening and will allow straight through flow. This excludes any valves between the mud gas separator and shale shakers.

All manual valves will have hand wheels installed.

Flare systems will have an effective method for ignition.

All connections will be flanged, welded or clamped

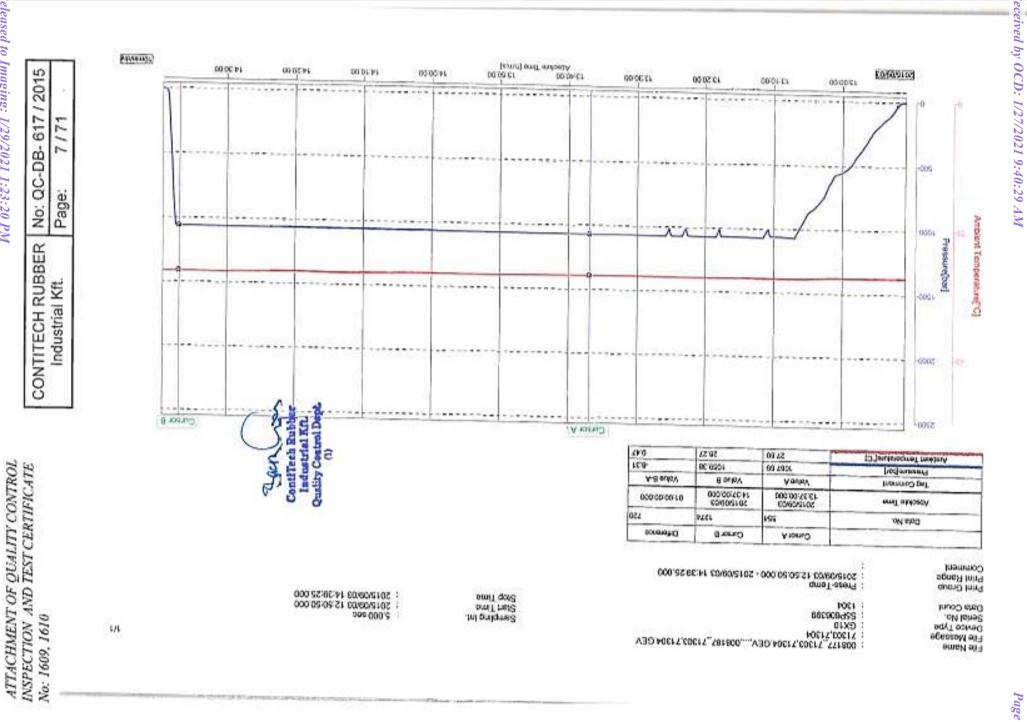
If buffer tank is used, a valve will be used on all lines at any entry or exit point to or from the buffer tank.

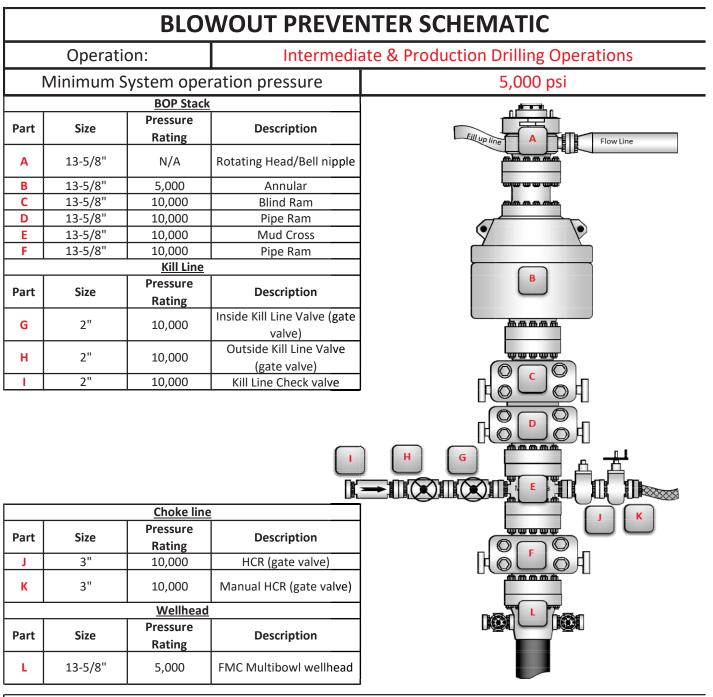


ONTITECH RUBBER	_	No: QC-DB- 617 / 2015
Industrial Kft.	Page:	8/71
	ContiTech	ch

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 + TSL
Inside dia in inches	0
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 ISDM:45





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.

one that applies		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. Reservoir 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

BLO	NOUT PREVE	NTER SCHEMATIC	
Operation:	Intermediate & Production		
Minimum System opera	ation pressure	5,000 psi	

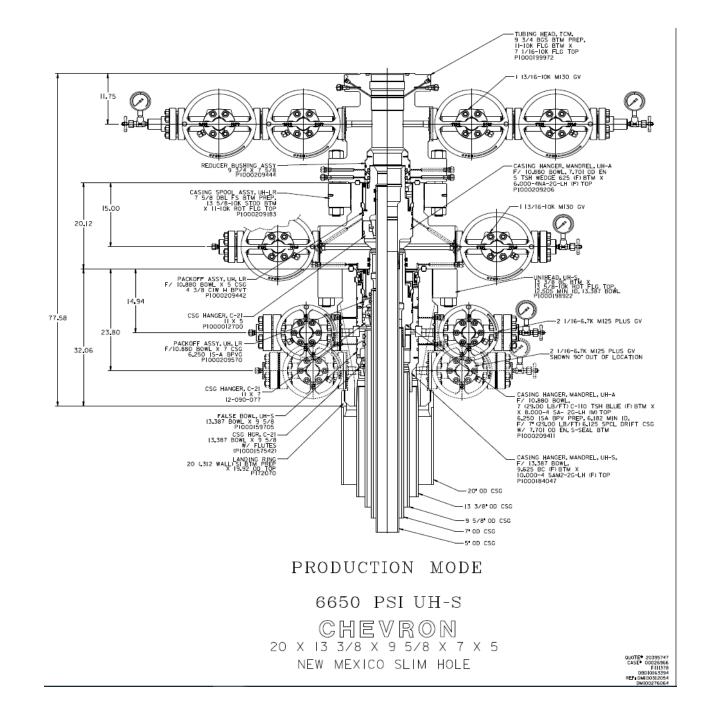
BOPE 5K Test Checklist

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.





Casing and Tubing Performance Data

GEOMETRYOutside Diameter13.375 inWall Thickness0.380 inAPI Drift Diameter12.459 inNominal Weight54.50 lbs/ftNominal ID12.615 inAlternative Drift Diametern.a.Plain End Weight52.79 lbs/ftNominal cross section15.513 in			PIPE	E BODY DAT	Α			
Nominal Weight54.50 lbs/ftNominal ID12.615 inAlternative Drift Diametern.a.Plain End Weight52.79 lbs/ftNominal cross section15.513 in			(GEOMETRY				
Plain End Weight52.79 lbs/ftNominal cross section15.513 inPlain End Weight52.79 lbs/ftNominal cross section15.513 inPERFORMANCESteel GradeJ55Minimum Yield55,000 psiMinimum Ultimate75,000 psiTension Yield853,000 inInternal Pressure Yield2,730 psiCollapse Pressure1,130 psiAvailable SeamlessYesAvailable WeldedYesYesTYPE: STCCOUNTERTCoupling Reg OD14.375 inThreads per in8Thread turns make up3.5Steel GradeJ55Coupling Min Yield55,000 psiCoupling Min Ultimate75,000 psi	Outside Diameter	13.375 in	Wall Thickness	0.380 in	API Drift Diameter	12.459 in		
PERFORMANCESteel GradeJ55Minimum Yield55,000 psiMinimum Ultimate75,000 psiTension Yield853,000 inInternal Pressure Yield2,730 psiCollapse Pressure1,130 psiAvailable SeamlessYesAvailable WeldedYesYesCONNECTION DATTYPE: STCCONNECTION DATCoupling Reg OD14.375 inThreads per in8Thread turns make up3.5DERFORMANCESteel GradeJ55Coupling Min Yield55,000 psiCoupling Min Ultimate75,000 psi	Nominal Weight	54.50 lbs/ft	Nominal ID	12.615 in	Alternative Drift Diameter	n.a.		
Steel GradeJ55Minimum Yield55,000 psiMinimum Ultimate75,000 psiTension Yield853,000 inInternal Pressure Yield2,730 psiCollapse Pressure1,130 psiAvailable SeamlessYesAvailable WeldedYesYesCONNECTION DATATYPE: STCECONNECTION DATACoupling Reg OD14.375 inThreads per in8Thread turns make up3.5Outpling Min Yield55,000 psiCoupling Min Ultimate75,000 psi	Plain End Weight	52.79 lbs/ft	Nominal cross section	15.513 in				
Code of dataCodeMinimum HoldCol,soo perMinimum Franking Col, and and the formed for	PERFORMANCE							
Available SeamlessYesAvailable WeldedYesTYPE: STCCONNECTION DATACoupling Reg OD14.375 inThreads per in8Thread turns make up3.5PERFORMANCESteel GradeJ55Coupling Min Yield55,000 psiCoupling Min Ultimate75,000 psi	Steel Grade J55 Minimum Yield 55,000 psi Minimum Ultimate 75,000 psi							
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	Tension Yield	853,000 in	Internal Pressure Yield	2,730 psi	Collapse Pressure	1,130 psi		
TYPE: STC GEOMETRY Coupling Reg OD 14.375 in Threads per in 8 Thread turns make up 3.5 DERFORMANCE Steel Grade J55 Coupling Min Yield 55,000 psi Coupling Min Ultimate 75,000 psi	Available Seamless	Yes	Available Welded	Yes				
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	CONNECTION DATA							
PERFORMANCE Steel Grade J55 Coupling Min Yield 55,000 psi Coupling Min Ultimate 75,000 psi								
Steel Grade J55 Coupling Min Yield 55,000 psi Coupling Min Ultimate 75,000 psi	Coupling Reg OD	14.375 in	Threads per in	8	Thread turns make up	3.5		
	PERFORMANCE							
Joint Strength 514,000 lbs Internal Pressure Resistance 2,730 psi	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		



Data Sheet

TH DS-19.0248 13 May 19 Rev 00

API BTC 9 5/8" 40.00 ppf L80-ICY

(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					
		PERFOR	MANCE			
Body Yield Strength	974 x 1000 lbs	Internal Yield	6100 psi	Collapse	3870 psi	
CONNECTION DATA						
		GEON	1ETRY			
Coupling OD	10.625 in.	Threads per inch	5	Hand-Tight Standoff Thread Turns	1.00	
PERFORMANCE ⁽¹⁾						

6100 psi

Internal Pressure

Resistance

(1) Non API size / grade combination for BTC.

Joint Strength

This product is threaded on API-enhanced Steel Grade pipe.

968 x 1000 lbs

Geometrical features according to API Standards 5CT and 5B

Performance calculated as per API Technical Report 5C3 (Sections 9 & 10).

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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	Туре	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry	
Nominal OD	7.000 in.
Nominal Weight	29 lb/ft
Drift	6.059 in.
Nominal ID	6.184 in.

Wall Thickness	0.408 in.
Plain End Weight	28.75 lb/ft
OD Tolerance	API

Performance

Body Yield Strength	929 x1000 lb
Min. Internal Yield Pressure	11,220 psi
SMYS	110,000 psi
Collapse Pressure	8530 psi

Connection Data

Geometry	
Connection OD	7.677 in.
Coupling Length	10.551 in.
Connection ID	6.118 in.
Make-up Loss	4.480 in.
Threads per inch	4
Connection OD Option	Regular

Performance	
Tension Efficiency	100 %
Joint Yield Strength	929 x1000 lb
Internal Pressure Capacity	11,220 psi
Compression Efficiency	100 %
Compression Strength	929 x1000 lb
Max. Allowable Bending	72 °/100 ft
External Pressure Capacity	8530 psi
Coupling Face Load	433,000 lb

Make-Up Torques	
Minimum	10,480 ft-lb
Optimum	11,640 ft-lb
Maximum	12,800 ft-lb
Shoulder Torques	
Minimum	1750 ft-lb
Maximum	9890 ft-Ib
Operation Limit Torques	
Operating Torque	29,100 ft-Ib
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.

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Tenaris





110,000 psi

13,470 psi

Coupling	Pipe Body
Grade: P110	Grade: P110
Body: -	1st Band: White
1st Band: -	2nd Band: -
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -

Outside Diameter	5.000 in.	Wall Thickness	0.362 in.	Grade	P110
Min. Wall Thickness	87.50 %	Drift	API Standard	Туре	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry	
Nominal OD	5.000 in.
Nominal Weight	18 lb/ft
Drift	4.151 in.
Nominal ID	4.276 in.

Wall Thickness	0.362 in.
Plain End Weight	17.95 lb/ft
OD Tolerance	API

Min. Internal Yield Pressure	13,940 psi
Body Yield Strength	580 x1000 lb
1 onormanoo	

Porformanco

Collapse Pressure

SMYS

Connection Data

Geometry	
Connection OD	5 in.
Connection ID	4.194 in.
Make-up Loss	4.320 in.
Threads per inch	3.36
Connection OD Option	Regular

63.70 %
369.46 x1000 lb
13,940 psi
73.70 %
427.46 x1000 lb
64.30 °/100 ft
13,470 psi

Make-Up Torques	
Minimum	6500 ft-Ib
Optimum	7800 ft-Ib
Maximum	11,400 ft-lb
Operation Limit Torques	
Operating Torque	19,300 ft-Ib
Yield Torque	29,000 ft-lb

Notes

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4.500 in.

0.250 in.

P110*

Outside Diameter

Wall Thickness

Grade

Wedge 521®

Printed on: 05/09/2019

PIPE BODY

1st Band: White

2nd Band: -

3rd Band: -

4th Band: -

(*) Grade P110

Body: White

1st Band: -

2nd Band: -

3rd Band: -

COUPLING



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 ps
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	3	1		I	
Minimum	3600 ft-lbs	Optimum	4300 ft-lbs	Maximum	6300 ft-lbs
OPERATION LIMIT T	ORQUES			·	
Operating Torque	14000 ft-lbs	Yield Torque	21000 ft-lbs		

Min. Wall

Thickness

Option

Drift

Туре

Connection OD

87.5%

REGULAR

API Standard

Casing

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

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Chevron SND 14 23 FED COM 001 P26 225H Eddy County, NM

Pad Summary: Sand Dunes Pad 26

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 14 23 FED COM 001 P26 225H	9,027	Lower Avalon
SND 14 23 FED COM 001 P26 226H	9,027	Lower Avalon
SND 14 23 FED COM 001 P26 227H	9,027	Lower Avalon

1. FORMATION TOPS

The estimated tops of important geologic markers are as follows:

Elevation: 3538 ft

FORMATION	SUB-SEA TVD	TVD	MD	LITHOLOGIES	MIN. RESOURCES	PROD. FORMATION
Rustler (RSLR)	2802	736	736	Dolomite	N/A	
Castile (CSTL)	597	2,941	2,970	Anhydrite	N/A	
Lamar (LMAR)	-954	4,492	4,553	Limestone	N/A	
Bell Canyon (BLCN)	-999	4,537	4,599	Sandstone	N/A	
Cherry Canyon (CRCN)	-1867	5,405	5,485	Sandstone	N/A	
Brushy Canyon (BCN)	-3105	6,643	6,737	Sandstone	N/A	
Bone Spring (BSGL)	-4816	8,354	8,448	Limestone	Oil	
Upper Avalon (AVU)	-4900	8,438	8,532	Limestone/Shale	Oil	
Lower Avalon Target 1	-5489	9,027	19,875	Limestone/Shale/Sandstone	Oil	yes

CONFIDENTIAL -- TIGHT HOLE

PAGE:

DRILLING PLAN

1

WELLBORE LOCATIONS	SUB-SEA TVD	RKB TVD	MD
SHL	3538	-	
КОР	-4910	8,448	8,538
FTP	-5479	9,017	9,431
LTP	-5520	9,058	19,795

2. ESTIMATED DEPTH OF WATER, OIL, GAS & OTHER MINERAL BEARING FORMATIONS

The estimated depths at which the top and bottom of the anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered are as follows:

Substance	Formation	Depth
Deepest Expe	ected Base of Fresh Water	500
Water	Cherry Canyon	5,405
Oil/Gas	Bone Spring (BSGL)	8,354
Oil/Gas	Avalon	8,438

All shows of fresh water and minerals will be reported and protected.

3. BOP EQUIPMENT

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

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 / \geq 5,000 psi high for 10 min each test against the connection that was broken when skidding the rig. Upon the first nipple up of the pad a full BOP test will be performed. A full BOP test will be completed prior to drilling the production liner hole sections, unless the BOP connection was not broken prior to drilling that hole section (example: drilling straight from production into production liner hole section). A break test will only be performed on operations where BLM documentation states a 5M or less BOP can be utilized.

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 SND 14 23 FED COM 001 P26 225H Eddy County, NM

4. CASING PROGRAM

a. The proposed casing program will be as follows:

Surface 0' 800' 800' 16" 13-3/8" 54.5 # J-55 STC New Intermediate 0' 4,500' 4,500' 12-1/4" 9-5/8" 40# L-80 BTC New Prod/Intermediate 2 0' 8,360' 8,500' 8-3/4" 7" 29.0 # P/TN-110 BLUE New Production Liner 8,060' 19,875' 9,058' 6-1/8" 5** x 4-1/2" 18 x 11.6 P-110 W513 x W521 New	Purpose	From	То	(TVD)	Hole Size	Csg Size	Weight	Grade	Thread	Condition
Prod/Intermediate 2 0' 8,360' 8,500' 8-3/4" 7" 29.0 # P/TN-110 BLUE New Production Liner 8,060' 19,875' 9,058' 6-1/8" 5** x 4-1/2" 18 x 11.6 P-110 W513 x New	Surface	0'	800'	800'	16"	13-3/8"	54.5 #	J-55	STC	New
Production Liner 8 060' 19 875' 9 058' 6-1/8" 5** x 4-1/2" 18 x 11 6 P-110 W513 X New	Intermediate	0'	4,500'	4,500'	12-1/4"	9-5/8"	40#	L-80	BTC	New
$Production liner = 1.8060^{\circ} + 19.875^{\circ} + 9.058^{\circ} + 6.1/8^{\circ} + 5^{\circ} \times 4.1/2^{\circ} + 18 \times 11.6^{\circ} + P.110^{\circ} + 1.008^{\circ}$	Prod/Intermediate 2	0'	8,360'	8,500'	8-3/4"	7"	29.0 #	P/TN-110	BLUE	New
	Production Liner	8,060'	19,875'	9,058'	6-1/8"	5** x 4-1/2"	18 x 11.6	P-110		New

**5" casing ran from TOL to 45 deg. Max OD at connection is 5.00 inches

a. Casing design subject to revision based on geologic conditions encountered.

A "Worst Case" casing design for wells in a particular area is used below to calculate the Casing Safety Factors. If for any reason the casing design for a ^{b.} particular well requires setting casing deeper than the following "worst case" design, then the Casing Safety Factors will be recalculated & sent to the BLM prior to drilling.

CONFIDENTIAL -- TIGHT HOLE

PAGE:

DRILLING PLAN

2

c. Chevon will keep casing fluid filled at all times and while RIH. Chevron will check casing at a minimum of every 20 jts (~840') while running intermediate and production casing in order to maintain collapse SF.

SF Calculations based on the follo	owing "Worst	Case"	casing design:
Surface	1,000'	ftTVD	max depths
Intermediate	5,000'	ftTVD	max depths
Prod/Intermediate 2	10,000'	ftTVD	max depths
Production Liner	21,000'	ftMD	max depths

Casing String	Min SF Burst	Min SF Collapse	Min SF Tension	Min SF Tri-Axial
Surface	1.70	2.44	4.72	1.80
Intermediate	1.34	1.78	2.70	1.63
Prod/Intermediate 2	1.15	5.82	2.77	1.24
Production Liner	1.11	1.32	1.38	1.16

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

Burst Design	Surf	Int	Int 2	Prod Lnr
Pressure Test- Surface, Prod Csg, Prod Liner				
P external: Mud weight above TOC, PP below	X	X	X	X
P internal: Test psi + next section heaviest mud in csg				
Displace to Gas				
P external: Mud weight above TOC, PP below	X	X	X	X
P internal: Dry Gas from Next Csg Point				
Gas over mud (60/40) - Prod Csg				
P external: Mud weight above TOC, PP below		X	X	X
P internal: 60% gas over 40% mud from hole TD PP				
Stimulation (Frac) Pressures-				
P external: Mud weight above TOC, PP below			X	X
P internal: Max inj pressure w/ heaviest injected fluid				
Tubing leak- Prod Csg (packer at KOP)				
P external: Mud weight above TOC, PP below		X	X	X
P internal: Leak just below surf, 8.45 ppg packer fluid				
Collapse Design	Surf	Prod	Prod	Prod
Full Evacuation				
P external: Mud weight gradient	X	X	X	X
P internal: none				
Cementing- Surf, Int, Prod Csg				
P external: Wet cement	X	X	X	X
P internal: displacement fluid - water				
Tension Design	Surf	Prod	Prod	Prod
50-100k lb overpull				
	X	X	X	X

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5. CEMENTING PROGRAM

Slurry	Туре	Тор	Bottom	Sacks	Yield	Density	%Excess	Water	Volume cuft	Additives
Surface Csg 13-3/8"	1									
Tail	Class C	0'	800'	374	1.34	14.5	100	6.40	501	Extender, Antifoam, Retarder
Intermediate Csg 9-5/8"	-									
Tail	Class C	0'	3,500'	877	2.5	11.5	100	14.60	2192	Extender, Antifoam, Retarder
Tail	Class C	3,500'	4,500'	336	1.4	14.5	50	6.50	470	Extender, Antifoam, Retarder
Prod Intermediate-2 7"										
			Planned	l single stage	cement job					
Lead	Class C	4,000'	7,360'	303	2.5	11.5	50	14.60	758	Extender, Antifoam, Retarder, Viscosifier
Tail	Class C	7,360'	8,360'	134	1.4	14.5	25	6.50	188	Extender, Antifoam, Retarder, Viscosifier
			Co	ntingency: T	op Job		-			
Tail	Class C	0'	6,000'	805	1.4	14.5	25	6.50	1128	Extender, Antifoam, Retarder, Viscosifier
Production Liner 5" x 4-	1/2"									
Lead	Class C	8,060'	19,875'	756	1.84	13.2	25	9.86	1391	Extender, Antifoam, Retarder, Viscosifier

1. Final cement volumes will be determined by caliper.

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

3. Production casing will have one solid body or bow spring type centralizer on every joint in the lateral, then every other joint to KOP. Bowspring type centralizers will be run from KOP to intermediate casing and surface.

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From	То	Туре	Weight	Weight at TD	Viscosity	Filtrate	Notes
0'	800'	Spud mud	8.3 - 8.9	8.9	26-36	15-25	
0'	4,500'	Brine	8.3 - 10.6	10.0	26-36	15-25	
4,500'	8,360'	WBM/Brine	8.7 - 10.6	9.0	26-36	15-25	
8,360'	19,875'	OBM	8.7 - 10.5	9.6	50-70	5-10	

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 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.

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

7. TESTING, LOGGING, AND CORING

The anticipated type and amount of testing, logging, and coring are as follows:

- a. Drill stem tests are not planned.
- b. The logging program will be as follows:

TYPE	Logs	Interval	Timing
Mudlogs	5	Surface casing shoe through prod hole TD	While drilling or circulating
LWD	MWD Gamma	Int. and Prod. Hole	While Drilling

c. Conventional whole core samples are not planned.

d. A directional survey will be run.

encountered

8. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

a. No abnormal pressure or temperatures are expected. Estimated BHP is:

2,520 psi b. Hydrogen sulfide gas is not anticipated. An H2S Contingency plan is attached with this APD in the event that H2S is

.

Schlumberger

Chevron SND 14 23 Fed Com 001 P26 No. 225H Rev0 CVS 04May20 Proposal Geodetic Report (Def Plan)



Report Date: Client: Field: Structure / Slot: Well: Borehole: UWI / API#: Survey Name: Survey Date: Tort / AHD / DDI / ERD Ratio: Coordinate Reference System: Location Lat / Long: Location Grid N/E Y/X: CRS Grid Convergence Angle: Grid Scale Factor: Version / Patch:	Che NM Che SNE SNE Unk Che May 113, NAE N 3 N 44 0.30 0.99	NM Eddy County (NAD 27) Chevron SND 14 23 Fed Com 001 P26 Pad / 225H SND 14 23 Fed Com 001 P26 No. 225H SND 14 23 Fed Com 001 P26 No. 225H Unknown / Unknown Chevron SND 14 23 Fed Com 001 P26 No. 225H 10 May 08, 2020 May 08, 2020 ND 27 New Mexico State Plane, Eastern Zone, US Feet N 22 '13 26 6209', W 103' 45' 9 33259' N 446021.000 ftUS, E 679582.000 ftUS 0.39994603				Survey / DLS Compu Vertical Section Azin Vertical Section Orig TVD Reference Elevi Seabed / Ground Ele Magnetic Declinatior Total Gravity Field Si Gravity Model: Total Magnetic Field Magnetic Declination Declination Date: Magnetic Declination North Reference: Total Corr Mag North North: Local Coord Referen	nuth: in: m: ation: vation: trength: trength: Strength: n Model: sed: n->Grid	Minimum Curvature 179.640 ° (Grid No 0.000 ft, 0.000 ft RKB = 30lt 3568.000 ft above 6.639 ° 988.4308mgn (9.8) GARM 47809.868 nT 59.884 ° May 08, 2020 HDGM 2020 Grid North 0.3097 ° 6.3295 ° Well Head	rth) MSL MSL	
Comments	MD (ft)	Incl	Azim Grid	TVD (ft)	VSEC (ft)		EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting Latitude Longitude (ftUS) (N/S ° ' ") (E/W ° ' ")
Surface	0.00 100.00 200.00 300.00 400.00 500.00 600.00 700.00	(°) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	(°) 0.00 289.06 289.06 289.06 289.06 289.06 289.06 289.06 289.06	0.00 100.00 200.00 300.00 400.00 500.00 600.00 700.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	446021.00 446021.00 446021.00 446021.00 446021.00 446021.00 446021.00 446021.00	679562.00 N 32 13.296.2 W103.45 9.39 679562.00 N 32.13.29.62 W103.45 9.39
Rustler	736.00 800.00	0.00	289.06 289.06	736.00 800.00	0.00 0.00		0.00	0.00 0.00	446021.00 446021.00	679582.00 N 32 13 29.62 W 103 45 9.39 679582.00 N 32 13 29.62 W 103 45 9.39
9-5/8° Casing Build 1.5°/100ft	900.00 980.00 1000.00 1200.00 1300.00 1300.00 1400.00 1500.00	0.00 0.00 1.80 3.30 4.80 6.30 7.80 9.30	289.06 289.06 289.06 289.06 289.06 289.06 289.06 289.06 289.06	900.00 980.00 1000.00 1099.98 1299.63 1399.15 1498.40 1597.28	0.00 0.00 -0.02 -0.63 -2.11 -4.45 -7.67 -11.75 -16.70	0.00 0.00 0.62 2.07 4.38 7.53 11.54 16.40	0.00 0.00 -0.05 -1.78 -5.99 -12.66 -21.80 -33.40 -47.45	0.00 0.00 1.50 1.50 1.50 1.50 1.50 1.50	446021.00 446021.00 446021.02 446021.62 446023.07 446023.07 446028.53 446028.53 446032.54	679582.00 N 32132962 W10345 9.39 6795812.00 N 32132962 W10345 9.39 67958135 N 32132962 W10345 9.39 67958135 N 32132962 W10345 9.41 679581022 N 32132963 W10345 9.41 679569.34 N 32132966 W10345 9.54 679569.34 N 32132966 W10345 9.54 679569.20 N 32132967 W10345 9.54 679569.34 N 32132970 W10345 9.54 679564.20 N 321329.70 W10345 9.65 679548.60 N 321329.70 W10345 9.78 679534.55 N 321329.79 W10345 9.49
Hold	1700.00 1746.70 1800.00 1900.00 2000.00 2100.00 2200.00	10.80 11.50 11.50 11.50 11.50 11.50 11.50	289.06 289.06 289.06 289.06 289.06 289.06 289.06 289.06	1695.74 1741.56 1793.79 1891.78 1989.78 2087.77 2185.76	-22.50 -25.50 -29.04 -35.67 -42.30 -48.93 -55.56	25.05 28.52 35.03 41.54 48.05 54.56	-63.95 -72.48 -82.53 -101.37 -120.22 -139.06 -157.90	1.50 1.50 0.00 0.00 0.00 0.00 0.00	446043.10 446046.05 446049.52 446056.03 446062.54 446069.05 446075.55	679518.06 N 321329.84 W 1034510.14 679509.52 N 321329.91 W 1034510.23 679459.48 N 321329.91 W 1034510.23 679459.48 N 321329.91 W 1034510.55 679459.48 N 321329.91 W 1034510.57 679459.42 N 321320.97 W 1034510.57 6794542.45 N 32130.04 W 1034511.01 679442.45 N 32130.17 W 1034511.23 67462.42 N 321320.27 W 1034511.23
	2300.00 2400.00 2500.00 2600.00 2700.00 2800.00 2900.00	11.50 11.50 11.50 11.50 11.50 11.50 11.50	289.06 289.06 289.06 289.06 289.06 289.06 289.06	2283.75 2381.75 2479.74 2577.73 2675.72 2773.72 2871.71	-62.18 -68.81 -75.44 -82.07 -88.70 -95.33 -101.96	67.59 74.10 80.61 87.12 93.63	-176.75 -195.59 -214.44 -233.28 -252.13 -270.97 -289.81	0.00 0.00 0.00 0.00 0.00 0.00 0.00	446082.07 446088.58 446095.09 446101.61 446108.12 446114.63 446121.14	679405.26 N 32 13 30.23 W 103 45 11.45 679366.42 N 32 13 30.30 W 103 45 11.67 679367.58 N 32 13 30.37 W 103 45 11.87 679386.42 N 32 13 30.43 W 103 45 11.88 679348.73 N 32 13 30.43 W 103 45 12.80 679329.89 N 32 13 30.50 W 103 45 12.32 679311.05 N 32 13 30.63 W 103 45 12.76 678292.20 N 32 13 30.65 W 103 45 12.76
Castile	2970.71 3000.00 3100.00 3200.00 3500.00 3500.00 3600.00 3700.00 3800.00 4000.00 4100.00 4200.00	11.50 11.50 11.50 11.50 11.50 11.50 11.50 11.50 11.50 11.50 11.50 11.50 11.50 11.50 11.50 11.50	289.06 289.06 289.06 289.06 289.06 289.06 289.06 289.06 289.06 289.06 289.06 289.06 289.06 289.06 289.06 289.06	2941.00 2969.70 3067.69 3165.68 3361.67 3459.66 3557.65 3655.65 3753.64 3851.63 3949.62 4047.62 4145.61 4243.60 4341.59	-106.65 -108.59 -115.22 -121.85 -128.48 -135.11 -141.74 -148.37 -155.00 -161.63 -168.26 -174.89 -181.52 -194.78 -201.41	104.75 106.66 113.17 119.68 126.19 132.70 133.22 145.73 152.24 158.75 165.26 171.77 178.29 184.80 191.31	-303.14 -308.66 -327.50 -346.35 -365.19 -384.04 -402.88 -421.72 -440.57 -459.41 -478.26 -497.10 -515.95 -534.79 -553.63 -572.48	2,00 0,00 0,00 0,00 0,00 0,00 0,00 0,00	446125.74 446127.65 446134.16 446140.67 446147.19 446153.70 446160.21 446166.72 446173.23 446179.74 446188.25 446199.28 446205.79 446212.30	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Lamar Bell Canyon	4500.00 4553.49 4599.41 4600.00 4700.00 4800.00 5000.00 5100.00 5100.00 5300.00 5300.00	11.50 11.50 11.50 11.50 11.50 11.50 11.50 11.50 11.50 11.50 11.50	289.06 289.06 289.06 289.06 289.06 289.06 289.06 289.06 289.06 289.06 289.06 289.06	4439.58 4492.00 4537.00 4537.58 4635.57 4733.56 4831.55 4829.55 5027.54 5125.53 5223.52 5321.52	-208.04 -211.59 -214.63 -214.67 -221.30 -227.93 -234.56 -241.19 -247.82 -254.45 -261.08 -267.71	207.82 210.81 210.84 217.36 223.87 230.38 236.89 243.40 249.91	-591.32 -601.40 -610.06 -610.17 -629.01 -647.85 -666.70 -685.54 -704.39 -723.23 -742.08 -760.92	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	446225.32 446228.80 446231.79 446231.83 446231.83 446231.83 446231.83 446251.88 446257.88 446264.39 446277.41 446283.92	678990.71 N 321331.67 W 1034516.26 678990.63 N 321331.74 W 1034516.38 678971.96 N 321331.74 W 1034516.48 678971.96 N 321331.74 W 1034516.48 678953.02 N 321331.81 W 1034516.92 678953.02 N 321331.87 W 1034516.92 678915.04 N 321331.94 W 1034517.34 678866.50 N 32132.00 W 1034517.36 678877.65 N 321332.00 W 1034517.58 67887.65 N 321332.01 W 1034517.58 678859.97 N 321332.02 W 1034517.60 678839.97 N 321332.20 W 1034517.80 678839.97 N 32132.20 W 1034518.01 678821.12 N 32132.20 W 1034518.03
Cherry Canyon	5485.20 5500.00 5600.00 5700.00 5800.00	11.50 11.50 11.50 11.50 11.50	289.06 289.06 289.06 289.06 289.06	5405.00 5419.51 5517.50 5615.49 5713.48	-273.36 -274.34 -280.97 -287.60 -294.23	268.48 269.45 275.96 282.47 288.98	-776.97 -779.76 -798.61 -817.45 -836.30	0.00 0.00 0.00 0.00 0.00	446289.47 446290.43 446296.94 446303.46 446309.97	678805.07 N 32 13 32.32 W 103 45 18.42 678802.28 N 32 13 32.33 W 103 45 18.45 678783.44 N 32 13 32.33 W 103 45 18.45 678764.54 N 32 13 22.34 W 103 45 18.67 678764.55 N 32 13 22.34 W 103 45 18.89 678745.75 N 32 13 22.53 W 103 45 18.89 678745.75 N 32 13 22.53 W 103 45 19.11
Drop 1.5*/100ft	5900.00 5915.79 6000.00 6100.00 6200.00 6300.00 6400.00 6500.00	11.50 11.50 10.24 8.74 7.24 5.74 4.24 2.74	289.06 289.06 289.06 289.06 289.06 289.06 289.06 289.06	5811.48 5826.95 5909.65 6008.28 6107.30 6206.66 6306.28 6406.09 6506.02	-300.86 -301.91 -307.19 -312.67 -317.29 -321.05 -323.94 -325.96	296.52 301.71 307.09 311.63 315.32 318.16 320.15	-855.14 -858.12 -873.12 -888.70 -901.84 -912.52 -920.73 -926.48	1.50 1.50 1.50 1.50 1.50 1.50	446316.48 446317.51 446322.69 446328.08 446332.61 446336.30 446339.14 446341.13	678726.91 N 221322.59 W1034519.36 678723.93 N 221322.60 W1034519.36 678708.92 N 221322.65 W1034519.54 6786708.92 N 221322.65 W1034519.54 678669.54 N 321322.75 W1034519.97 678669.54 N 321322.79 W1034519.97 678669.54 N 321322.79 W1034519.97 6786612 N 321322.79 W1034519.97 6786612 N 321322.79 W1034519.97 6786612 N 321322.79 W1034519.97 6786613 N 321322.82 W1034519.09 6786613 N 32132.82 W1034520.09 6786655.7 N 32132.84 W1034520.16 678655.97 N 32132.84 W1034520.16
Hold Vertical	6600.00 6682.49	1.24 0.00	289.06 289.06	6506.03 6588.51	-327.11 -327.41	321.28 321.57	-929.76 -930.60	1.50 1.50	446342.26 446342.55	678652.29 N 32 13 32.85 W 103 45 20.20 678651.45 N 32 13 32.85 W 103 45 20.20
Brushy Canyon	6700.00 6736.98 6800.00 6900.00 7000.00 7100.00	0.00 0.00 0.00 0.00 0.00 0.00	289.06 289.06 289.06 289.06 289.06 289.06	6606.02 6643.00 6706.02 6806.02 6906.02 7006.02	-327.41 -327.41 -327.41 -327.41 -327.41 -327.41	321.57 321.57 321.57 321.57 321.57 321.57	-930.60 -930.60 -930.60 -930.60 -930.60 -930.60	0.00 0.00 0.00 0.00 0.00 0.00	446342.55 446342.55 446342.55 446342.55 446342.55 446342.55	678651.45 N 32 13 32.85 W 103 45 20.20 678651.45 N 32 13 32.85 W 103 45 20.20 678651.45 N 32 13 32.85 W 103 45 20.20 678651.45 N 32 13 32.85 W 103 45 20.20 678651.45 N 32 13 32.85 W 103 45 20.20 678651.45 N 32 13 32.85 W 103 45 20.20 678651.45 N 32 13 32.85 W 103 45 20.20 678651.45 N 32 13 32.85 W 103 45 20.20

Received by OCD: 1/27/2021 9:40:29 AM

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Comments	MD	Incl	Azim Grid	TVD	VSEC	NS	EW	DLS	Northing	Easting	Latitude (N/S ° ' ")	
	(ft) 7200.00	(°) 0.00	(°) 289.06	(ft) 7106.02	(ft) -327.41	(ft) 321.57	(ft) -930.60	(°/100ft) 0.00	(ftUS) 446342.55		32 13 32.85	(E/W ° ' ") W 103 45 20.20
	7300.00 7400.00	0.00	289.06 289.06	7206.02 7306.02	-327.41 -327.41	321.57 321.57	-930.60 -930.60	0.00	446342.55 446342.55			W 103 45 20.20 W 103 45 20.20
	7500.00	0.00	289.06	7406.02	-327.41	321.57	-930.60	0.00	446342.55	678651.45 N	32 13 32.85	W 103 45 20.20
	7600.00 7700.00	0.00	289.06 289.06	7506.02 7606.02	-327.41 -327.41	321.57 321.57	-930.60 -930.60	0.00	446342.55 446342.55			W 103 45 20.20 W 103 45 20.20
	7800.00	0.00	289.06	7706.02	-327.41	321.57	-930.60	0.00	446342.55	678651.45 N	32 13 32.85	W 103 45 20.20
	7900.00 8000.00	0.00	289.06 289.06	7806.02 7906.02	-327.41 -327.41	321.57 321.57	-930.60 -930.60	0.00	446342.55 446342.55			W 103 45 20.20 W 103 45 20.20
	8100.00	0.00	289.06	8006.02	-327.41	321.57	-930.60	0.00	446342.55	678651.45 N	32 13 32.85	W 103 45 20.20
	8200.00 8300.00	0.00	289.06 289.06	8106.02 8206.02	-327.41 -327.41	321.57 321.57	-930.60 -930.60	0.00	446342.55 446342.55			W 103 45 20.20 W 103 45 20.20
	8400.00	0.00	289.06	8306.02	-327.41	321.57	-930.60	0.00	446342.55	678651.45 N	32 13 32.85	W 103 45 20.20
Bone Spring 7" Casing	8447.98 8493.98	0.00 0.00	289.06 289.06	8354.00 8400.00	-327.41 -327.41	321.57 321.57	-930.60 -930.60	0.00 0.00	446342.55 446342.55	678651.45 N 678651.45 N		
	8500.00	0.00	289.06	8406.02	-327.41	321.57	-930.60	0.00	446342.55	678651.45 N	32 13 32.85	W 103 45 20.20
Upper Avalon KOP, Build 10°/100ft	8531.98 8538.06	0.00 0.00	289.06 289.06	8438.00 8444.08	-327.41 -327.41	321.57 321.57	-930.60 -930.60	0.00 0.00	446342.55 446342.55	678651.45 N 678651.45 N		W 103 45 20.20 W 103 45 20.20
,	8600.00	6.19	179.64	8505.90	-324.07	318.23	-930.58	10.00	446339.21	678651.47 N	32 13 32.82	W 103 45 20.20
	8700.00 8800.00	16.19 26.19	179.64 179.64	8603.87 8696.99	-304.68 -268.57	298.84 262.73	-930.46 -930.23	10.00 10.00	446319.82 446283.72			W 103 45 20.20 W 103 45 20.20
	8900.00	36.19	179.64	8782.43	-216.84	211.00	-929.91	10.00	446231.99	678652.15 N	32 13 31.76	W 103 45 20.20
	9000.00 9100.00	46.19 56.19	179.64 179.64	8857.58 8920.17	-151.06 -73.24	145.23 67.40	-929.49 -929.01	10.00 10.00	446166.22 446088.40			W 103 45 20.20 W 103 45 20.20
	9200.00	66.19	179.64	8968.29	14.28	-20.11	-928.46	10.00	446000.89	678653.59 N	32 13 29.47	W 103 45 20.20
	9300.00 9400.00	76.19 86.19	179.64 179.64	9000.49 9015.77	108.82 207.52	-114.65 -213.35	-927.87 -927.25	10.00 10.00	445906.35 445807.66			W 103 45 20.20 W 103 45 20.20
FIF Closs	9431.69	89.36	179.64	9017.00	239.18	-245.01	-927.05	10.00	445776.00	678655.00 N	32 13 27.25	W 103 45 20.20
	9500.00 9600.00	89.36 89.36	179.64 179.64	9017.76 9018.87	307.48 407.48	-313.31 -413.30	-926.62 -925.99	0.00	445707.70 445607.72			W 103 45 20.20 W 103 45 20.20
	9700.00	89.36	179.64	9019.98	507.47	-513.30	-925.37	0.00	445507.73	678656.69 N	32 13 24.59	W 103 45 20.20
	9800.00 9900.00	89.36 89.36	179.64 179.64	9021.10 9022.21	607.47 707.46	-613.29 -713.28	-924.74 -924.11	0.00	445407.75 445307.76			W 103 45 20.20 W 103 45 20.19
	10000.00	89.36	179.64	9023.32	807.45	-813.27	-923.49	0.00	445207.77	678658.57 N	32 13 21.62	W 103 45 20.19
	10100.00	89.36 89.36	179.64 179.64	9024.43 9025.54	907.45	-913.26	-922.86 -922.23	0.00 0.00	445107.79			W 103 45 20.19 W 103 45 20.19
	10200.00 10300.00	89.36 89.36	179.64 179.64	9026.65	1007.44 1107.44	-1013.26 -1113.25	-922.23 -921.60	0.00	445007.80 444907.81			W 103 45 20.19 W 103 45 20.19
Lower Avalon Target 1	10331.33	89.36	179.64	9027.00	1138.76	-1144.57	-921.41	0.00	444876.49	678660.64 N		
	10400.00 10500.00	89.36 89.36	179.64 179.64	9027.76 9028.87	1207.43 1307.42	-1213.24 -1313.23	-920.98 -920.35	0.00	444807.83 444707.84			W 103 45 20.19 W 103 45 20.19
	10600.00	89.36	179.64	9029.99	1407.42	-1413.22	-919.72	0.00	444607.86			W 103 45 20.19
	10700.00 10800.00	89.36 89.36	179.64 179.64	9031.10 9032.21	1507.41 1607.40	-1513.22 -1613.21	-919.10 -918.47	0.00	444507.87 444407.88			W 103 45 20.19 W 103 45 20.18
	10900.00	89.36	179.64	9033.32	1707.40	-1713.20	-917.84	0.00	444307.90	678664.21 N	32 13 12.72	W 103 45 20.18
	11000.00 11100.00	89.36 89.36	179.64 179.64	9034.43 9035.54	1807.39 1907.39	-1813.19 -1913.18	-917.22 -916.59	0.00	444207.91 444107.92			W 103 45 20.18 W 103 45 20.18
	11200.00	89.36	179.64	9036.65	2007.38	-2013.17	-915.96	0.00	444007.94			W 103 45 20.18
	11300.00 11400.00	89.36 89.36	179.64 179.64	9037.76 9038.88	2107.37 2207.37	-2113.17 -2213.16	-915.34 -914.71	0.00	443907.95 443807.97			W 103 45 20.18 W 103 45 20.18
	11500.00	89.36	179.64	9039.99	2307.36	-2313.15	-914.08	0.00	443707.98	678667.97 N	32 13 6.78	W 103 45 20.18
	11600.00 11700.00	89.36 89.36	179.64 179.64	9041.10 9042.21	2407.35 2507.35	-2413.14 -2513.13	-913.45 -912.83	0.00	443607.99 443508.01			W 103 45 20.18 W 103 45 20.18
	11800.00	89.36	179.64	9043.32	2607.34	-2613.13	-912.20	0.00	443408.02	678669.85 N	32 13 3.81	W 103 45 20.17
	11900.00 12000.00	89.36 89.36	179.64 179.64	9044.43 9045.54	2707.34 2807.33	-2713.12 -2813.11	-911.57 -910.95	0.00	443308.03 443208.05			W 103 45 20.17 W 103 45 20.17
IFP1, Build 2°/100ft	12041.05	89.36	179.64	9046.00	2848.38	-2854.16	-910.69	0.00	443167.00	678671.36 N	32 13 1.43	W 103 45 20.17
Hold	12058.68 12100.00	89.72 89.72	179.64 179.64	9046.14 9046.35	2866.01 2907.33	-2871.79 -2913.10	-910.58 -910.32	2.00 0.00	443149.37 443108.06			W 103 45 20.17 W 103 45 20.17
	12200.00	89.72	179.64	9046.84	3007.33	-3013.10	-909.69	0.00	443008.07	678672.36 N	32 12 59.85	W 103 45 20.17
	12300.00 12400.00	89.72 89.72	179.64 179.64	9047.34 9047.83	3107.32 3207.32	-3113.10 -3213.09	-909.07 -908.44	0.00	442908.08 442808.09			W 103 45 20.17 W 103 45 20.17
	12500.00	89.72	179.64	9048.33	3307.32	-3313.09	-907.81	0.00	442708.09	678674.24 N	32 12 56.89	W 103 45 20.17
	12600.00 12700.00	89.72 89.72	179.64 179.64	9048.83 9049.32	3407.32 3507.32	-3413.09 -3513.08	-907.19 -906.56	0.00	442608.10 442508.11			W 103 45 20.17 W 103 45 20.17
	12800.00	89.72	179.64	9049.82	3607.32	-3613.08	-905.93	0.00	442408.12	678676.12 N	32 12 53.92	W 103 45 20.16
	12900.00 13000.00	89.72 89.72	179.64 179.64	9050.31 9050.81	3707.32 3807.32	-3713.08 -3813.08	-905.30 -904.68	0.00	442308.13 442208.14			W 103 45 20.16 W 103 45 20.16
	13100.00	89.72	179.64	9051.31	3907.31	-3913.07	-904.05	0.00	442108.15	678678.00 N	32 12 50.95	W 103 45 20.16
	13200.00 13300.00	89.72 89.72	179.64 179.64	9051.80 9052.30	4007.31 4107.31	-4013.07 -4113.07	-903.42 -902.80	0.00	442008.16 441908.16			W 103 45 20.16 W 103 45 20.16
	13400.00	89.72	179.64	9052.79	4207.31	-4213.06	-902.17	0.00	441808.17	678679.88 N	32 12 47.98	W 103 45 20.16
	13500.00 13600.00	89.72 89.72	179.64 179.64	9053.29 9053.79	4307.31 4407.31	-4313.06 -4413.06	-901.54 -900.91	0.00	441708.18 441608.19			W 103 45 20.16 W 103 45 20.16
	13700.00	89.72	179.64	9054.28	4507.31	-4513.05	-900.29	0.00	441508.20	678681.76 N	32 12 45.01	W 103 45 20.15
	13800.00 13900.00	89.72 89.72	179.64 179.64	9054.78 9055.27	4607.31 4707.30	-4613.05 -4713.05	-899.66 -899.03	0.00	441408.21 441308.22			W 103 45 20.15 W 103 45 20.15
	14000.00	89.72	179.64	9055.77	4807.30	-4813.04	-898.41	0.00	441208.23	678683.64 N	32 12 42.04	W 103 45 20.15
	14100.00 14200.00	89.72 89.72	179.64 179.64	9056.27 9056.76	4907.30 5007.30	-4913.04 -5013.04	-897.78 -897.15	0.00	441108.24 441008.24			W 103 45 20.15 W 103 45 20.15
	14300.00	89.72	179.64	9057.26	5107.30	-5113.03	-896.53	0.00	440908.25	678685.52 N	32 12 39.07	W 103 45 20.15
	14400.00 14500.00	89.72 89.72	179.64 179.64	9057.75 9058.25	5207.30 5307.30	-5213.03 -5313.03	-895.90 -895.27	0.00 0.00	440808.26 440708.27			W 103 45 20.15 W 103 45 20.15
	14600.00	89.72	179.64	9058.75	5407.30	-5413.02	-894.64	0.00	440608.28	678687.41 N	32 12 36.11	W 103 45 20.15
IFP2, Drop 2°/100ft Hold	14651.28	89.72 89.65	179.64	9059.00	5458.58	-5464.31	-894.32	0.00 2.00	440557.00			W 103 45 20.14
Hold	14654.64 14700.00	89.65	179.64 179.64	9059.02 9059.30	5461.94 5507.29	-5467.67 -5513.02	-894.30 -894.02	0.00	440553.64 440508.29			W 103 45 20.14 W 103 45 20.14
	14800.00	89.65	179.64	9059.91	5607.29	-5613.02	-893.39	0.00	440408.30			W 103 45 20.14
	14900.00 15000.00	89.65 89.65	179.64 179.64	9060.52 9061.14	5707.29 5807.29	-5713.01 -5813.01	-892.76 -892.14	0.00	440308.31 440208.32			W 103 45 20.14 W 103 45 20.14
	15100.00	89.65	179.64	9061.75	5907.29	-5913.01	-891.51	0.00	440108.33			W 103 45 20.14
	15200.00 15300.00	89.65 89.65	179.64 179.64	9062.36 9062.98	6007.28 6107.28	-6013.00 -6113.00	-890.88 -890.26	0.00	440008.34 439908.34			W 103 45 20.14 W 103 45 20.14
	15400.00	89.65	179.64	9063.59	6207.28	-6212.99	-889.63	0.00	439808.35	678692.42 N	32 12 28.19	W 103 45 20.14
	15500.00 15600.00	89.65 89.65	179.64 179.64	9064.20 9064.82	6307.28 6407.28	-6312.99 -6412.99	-889.00 -888.37	0.00	439708.36 439608.37			W 103 45 20.14 W 103 45 20.13
	15700.00	89.65	179.64	9065.43	6507.28	-6512.98	-887.75	0.00	439508.38	678694.30 N	32 12 25.22	W 103 45 20.13
	15800.00 15900.00	89.65 89.65	179.64 179.64	9066.04 9066.66	6607.27 6707.27	-6612.98 -6712.97	-887.12 -886.49	0.00	439408.39 439308.40			W 103 45 20.13 W 103 45 20.13
	16000.00	89.65	179.64	9067.27	6807.27	-6812.97	-885.87	0.00	439208.41	678696.18 N	32 12 22.25	W 103 45 20.13
	16100.00 16200.00	89.65 89.65	179.64 179.64	9067.88 9068.50	6907.27 7007.27	-6912.97 -7012.96	-885.24 -884.61	0.00	439108.42 439008.43			W 103 45 20.13 W 103 45 20.13
	16300.00	89.65	179.64	9069.11	7107.26	-7112.96	-883.98	0.00	438908.44	678698.06 N	32 12 19.28	W 103 45 20.13
	16400.00 16500.00	89.65 89.65	179.64 179.64	9069.72 9070.34	7207.26 7307.26	-7212.96 -7312.95	-883.36 -882.73	0.00 0.00	438808.45 438708.46			W 103 45 20.13 W 103 45 20.13
	16500.00 16600.00	89.65 89.65	179.64 179.64	9070.34 9070.95	7307.26	-7312.95 -7412.95	-882.10	0.00	438708.46 438608.47			W 103 45 20.13 W 103 45 20.12
	16700.00	89.65	179.64	9071.56	7507.26	-7512.94	-881.48	0.00	438508.48	678700.57 N	32 12 15.32	W 103 45 20.12
	16800.00 16900.00	89.65 89.65	179.64 179.64	9072.18 9072.79	7607.25 7707.25	-7612.94 -7712.94	-880.85 -880.22	0.00	438408.49 438308.50			W 103 45 20.12 W 103 45 20.12
	17000.00	89.65	179.64	9073.40	7807.25	-7812.93	-879.60	0.00	438208.51			W 103 45 20.12

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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 ° ' ")
	17100.00	89.65	179.64	9074.02	7907.25	-7912.93	-878.97	0.00	438108.51			W 103 45 20.12
	17200.00	89.65	179.64	9074.63	8007.25	-8012.92	-878.34	0.00	438008.52			W 103 45 20.12
IFP3, Build 2°/100ft	17260.53	89.65	179.64	9075.00	8067.78	-8073.45	-877.96	0.00	437948.00	678704.09 N	32 12 9.78	W 103 45 20.12
Hold	17297.01	90.38	179.64	9074.99	8104.26	-8109.93	-877.73	2.00	437911.52	678704.32 N	32 12 9.42	W 103 45 20.12
	17300.00	90.38	179.64	9074.97	8107.25	-8112.92	-877.71	0.00	437908.53	678704.33 N	32 12 9.39	W 103 45 20.12
	17400.00	90.38	179.64	9074.31	8207.24	-8212.92	-877.09	0.00	437808.54	678704.96 N	32 12 8.40	W 103 45 20.12
	17500.00	90.38	179.64	9073.65	8307.24	-8312.91	-876.46	0.00	437708.55	678705.59 N	32 12 7.41	W 103 45 20.12
	17600.00	90.38	179.64	9072.99	8407.24	-8412.91	-875.84	0.00	437608.56	678706.21 N	32 12 6.42	W 103 45 20.11
	17700.00	90.38	179.64	9072.33	8507.24	-8512.90	-875.21	0.00	437508.57	678706.84 N	32 12 5.43	W 103 45 20.11
	17800.00	90.38	179.64	9071.67	8607.23	-8612.90	-874.58	0.00	437408.58	678707.47 N	32 12 4.44	W 103 45 20.11
	17900.00	90.38	179.64	9071.01	8707.23	-8712.90	-873.96	0.00	437308.59	678708.09 N	32 12 3.45	W 103 45 20.11
	18000.00	90.38	179.64	9070.35	8807.23	-8812.89	-873.33	0.00	437208.60	678708.72 N	32 12 2.46	W 103 45 20.11
	18100.00	90.38	179.64	9069.69	8907.23	-8912.89	-872.70	0.00	437108.61	678709.35 N	32 12 1.47	W 103 45 20.11
	18200.00	90.38	179.64	9069.03	9007.23	-9012.88	-872.08	0.00	437008.62	678709.97 N	32 12 0.48	W 103 45 20.11
	18300.00	90.38	179.64	9068.37	9107.22	-9112.88	-871.45	0.00	436908.63	678710.60 N	32 11 59.49	W 103 45 20.11
	18400.00	90.38	179.64	9067.71	9207.22	-9212.88	-870.82	0.00	436808.64	678711.23 N	32 11 58.50	W 103 45 20.11
	18500.00	90.38	179.64	9067.05	9307.22	-9312.87	-870.20	0.00	436708.65	678711.85 N	32 11 57.51	W 103 45 20.10
	18600.00	90.38	179.64	9066.39	9407.22	-9412.87	-869.57	0.00	436608.66	678712.48 N	32 11 56.52	W 103 45 20.10
	18700.00	90.38	179.64	9065.73	9507.22	-9512.86	-868.94	0.00	436508.67	678713.10 N	32 11 55.53	W 103 45 20.10
	18800.00	90.38	179.64	9065.07	9607.21	-9612.86	-868.32	0.00	436408.68	678713.73 N	32 11 54.54	W 103 45 20.10
	18900.00	90.38	179.64	9064.41	9707.21	-9712.85	-867.69	0.00	436308.69	678714.36 N	32 11 53.56	W 103 45 20.10
	19000.00	90.38	179.64	9063.75	9807.21	-9812.85	-867.07	0.00	436208.70	678714.98 N	32 11 52.57	W 103 45 20.10
	19100.00	90.38	179.64	9063.09	9907.21	-9912.85	-866.44	0.00	436108.71	678715.61 N	32 11 51.58	W 103 45 20.10
	19200.00	90.38	179.64	9062.43	10007.20	-10012.84	-865.81	0.00	436008.72	678716.24 N	32 11 50.59	W 103 45 20.10
	19300.00	90.38	179.64	9061.77	10107.20	-10112.84	-865.19	0.00	435908.73	678716.86 N	32 11 49.60	W 103 45 20.10
	19400.00	90.38	179.64	9061.11	10207.20	-10212.83	-864.56	0.00	435808.74	678717.49 N	32 11 48.61	W 103 45 20.10
	19500.00	90.38	179.64	9060.45	10307.20	-10312.83	-863.93	0.00	435708.75	678718.12 N	32 11 47.62	W 103 45 20.09
	19600.00	90.38	179.64	9059.79	10407.20	-10412.83	-863.31	0.00	435608.76	678718.74 N	32 11 46.63	W 103 45 20.09
	19700.00	90.38	179.64	9059.13	10507.19	-10512.82	-862.68	0.00	435508.77	678719.37 N	32 11 45.64	W 103 45 20.09
LTP Cross	19795.73	90.38	179.64	9058.50	10602.92	-10608.55	-862.08	0.00	435413.04	678719.97 N	32 11 44.69	W 103 45 20.09
	19800.00	90.38	179.64	9058.47	10607.19	-10612.82	-862.05	0.00	435408.78	678719.99 N	32 11 44.65	W 103 45 20.09
SND 14 23 Fed Com 001 P26 No. 225H - PBHL	19870.78	90.38	179.64	9058.00	10677.97	-10683.60	-861.61	0.00	435338.00	678720.44 N	32 11 43.95	W 103 45 20.09

Survey Type:

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

Def Plan

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing E Diameter (in)	xpected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	30.000	1/100.000	30.000	30.000		B001Mb_MWD+HRGM-Depth Only	SND 14 23 Fed Com 001 P26 No. 225H / Chevron SND 14 23 Fed Com 001 P26 No. 225H Rev0
	1	30.000	19870.784	1/100.000	30.000	30.000		B001Mb_MWD+HRGM	SND 14 23 Fed Com 001 P26 No. 225H / Chevron SND 14 23 Fed



Training

MCBU Drilling and Completions H₂S training requirements are intended to define the minimum level of training required for employees, contractors and visitors to enter or perform work at MCBU Drilling and Completions locations that have known concentrations of H₂S.

Awareness Level

Employees and visitors to MCBU Drilling and Completions locations that have known concentrations of 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 H₂S
- 2. Health hazards of H₂S
- 3. Personal protective equipment
- 4. Information regarding potential sources of H₂S
- 5. Alarms and emergency evacuation procedures

Awareness level training will be developed and conducted by personnel who are qualified either by specific training, educational experience and/or work-related background.

Advanced Level H₂S Training

Employees and contractors required to work in areas that may contain H₂S will be provided with Advanced Level H₂S training prior to initial assignment. In addition to the Awareness Level requirements, Advanced Level H₂S training will include:

- 1. H₂S safe work practice procedures;
- 2. Emergency contingency plan procedures;
- 3. Methods to detect the presence or release of H₂S (e.g., alarms, monitoring equipment), including hands-on training with direct reading and personal monitoring H₂S equipment.
- Basic overview of respiratory protective equipment suitable for use in H₂S environments. Note: Employees who work at sites that participate in the Chevron Respirator User program will require separate respirator training as required by the MCBU Respiratory Protection Program;
- Basic overview of emergency rescue techniques, first aid, CPR and medical evaluation procedures. Employees who may be required to perform "standby" duties are required to receive additional first aid and CPR training, which is not covered in the Advanced Level H₂S training;
- 6. Proficiency examination covering all course material.

Advanced H₂S training courses will be instructed by personnel who have successfully completed an appropriate H₂S train-the-trainer development course (ANSI/ASSE Z390.1-2006) or who possess significant past experience through educational or work-related background.



H₂S Training Certification

All employees and visitors will be issued an H_2S training certification card (or certificate) upon successful completion of the appropriate H_2S training course. Personnel working in an H_2S environment will carry a current H_2S training certification card as proof of having received the proper training on their person at all times.

Briefing Area

A minimum of two briefing areas will be established in locations that at least one area will be upwind from the well at all times. Upon recognition of an emergency situation, all personnel should assemble at the designated upwind briefing areas for instructions.

H₂S Equipment

Respiratory Protection

- a) Six 30 minute SCBAs 2 at each briefing area and 2 in the Safety Trailer.
- b) Eight 5 minute EBAs 5 in the dog house at the rig floor, 1 at the accumulator, 1 at the shale shakers and 1 at the mud pits.

Visual Warning System

- a) One color code sign, displaying all possible conditions, will be placed at the entrance to the location with a flag displaying the current condition.
- b) Two windsocks will be on location, one on the dog house and one on the Drill Site Manager's Trailer.

H₂S Detection and Monitoring System

- a) H₂S monitoring system (sensor head, warning light and siren) placed throughout rig.
 - Drilling Rig Locations: at a minimum, in the area of the Shale shaker, rig floor, and bell nipple.
 - Workover Rig Locations: at a minimum, in the area of the Cellar, rig floor and circulating tanks or shale shaker.



Well Control Equipment

- a) Flare Line 150' from wellhead with igniter.
- b) Choke manifold with a remotely operated choke.
- c) Mud / gas separator

Mud Program

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

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

Public Safety - Emergency Assistance

Agency	Telephone Number
Lea County Sheriff's Department	575-396-3611
Fire Department:	
Carlsbad	575-885-3125
Artesia	575-746-5050
Lea County Regional Medical Center	575-492-5000
Jal Community Hospital	505-395-2511
Lea County Emergency Management	575-396-8602
Poison Control Center	800-222-1222

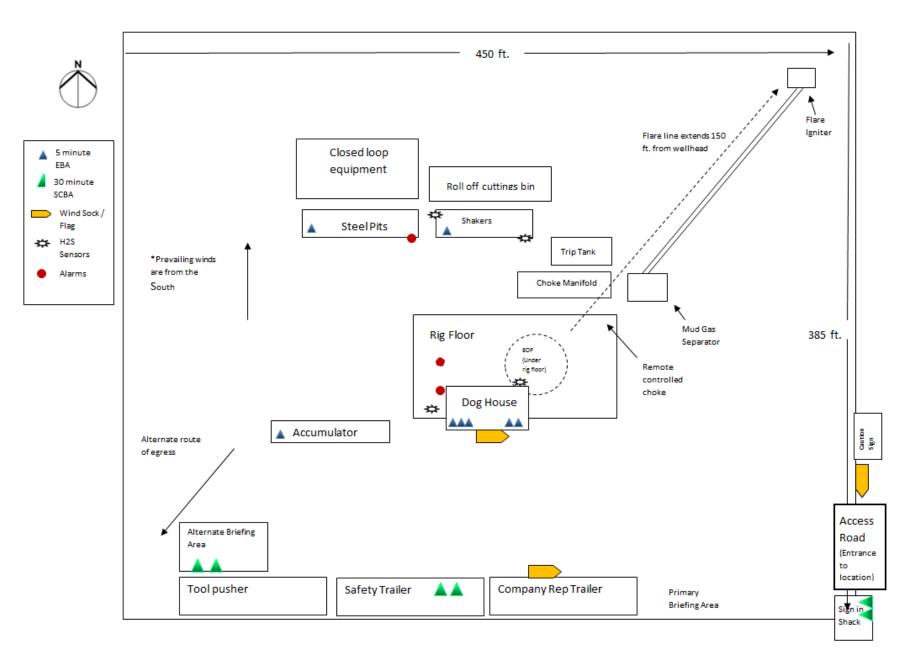


Chevron MCBU D&C Emergency Notifications

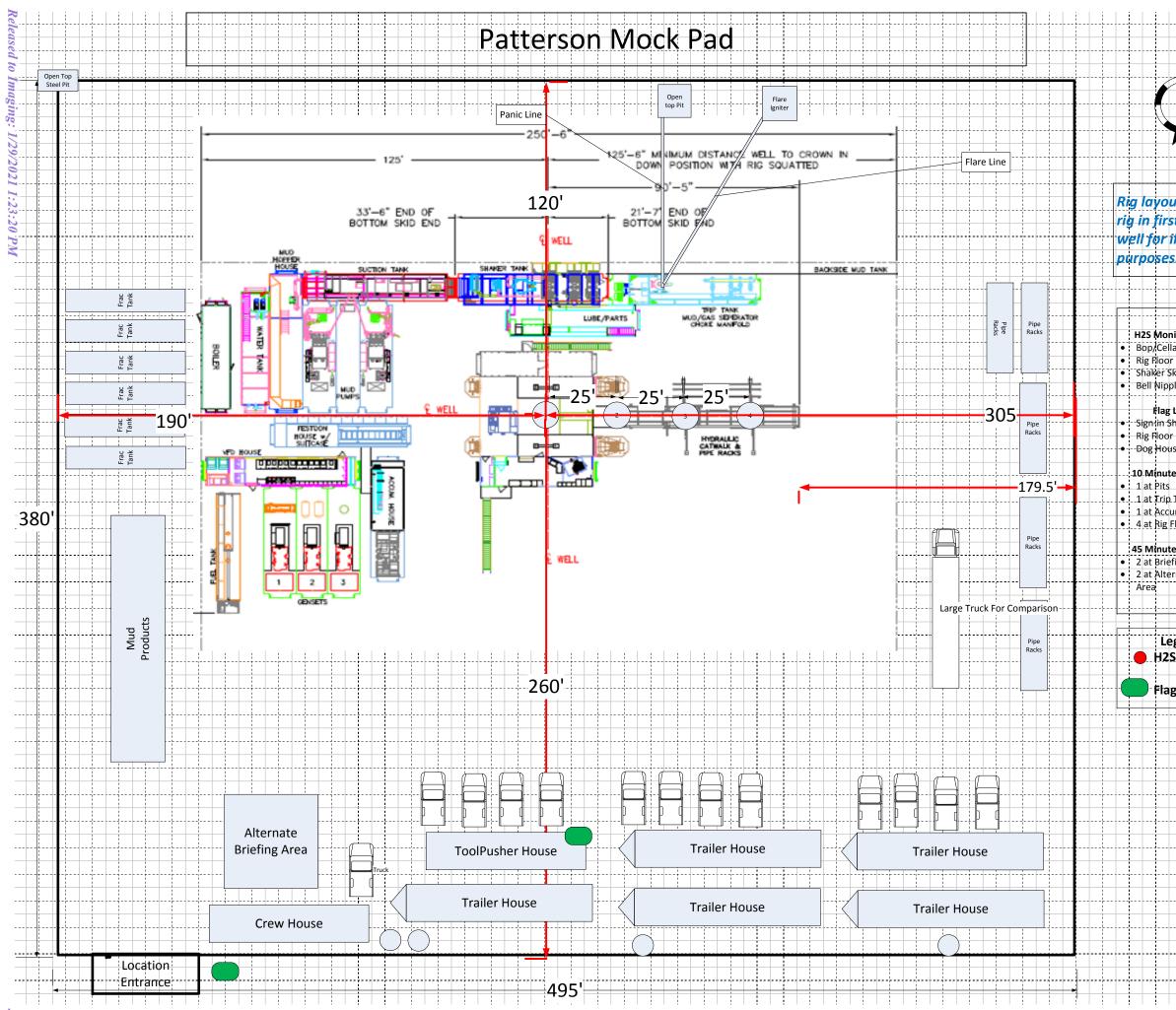
Below are lists of contacts to be used in emergency situations.

	Name	Title	Office Number	Cell Phone
1.	TBD	Drilling Engineer		
2.	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		



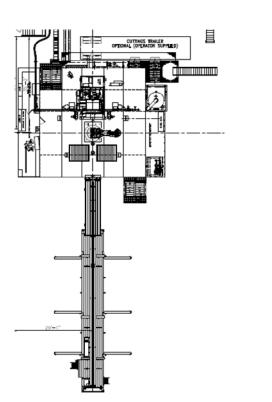


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Received by OCD: 1/27/2021 9:40:29 AM

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

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

1. SUMMARY OF REQUEST:

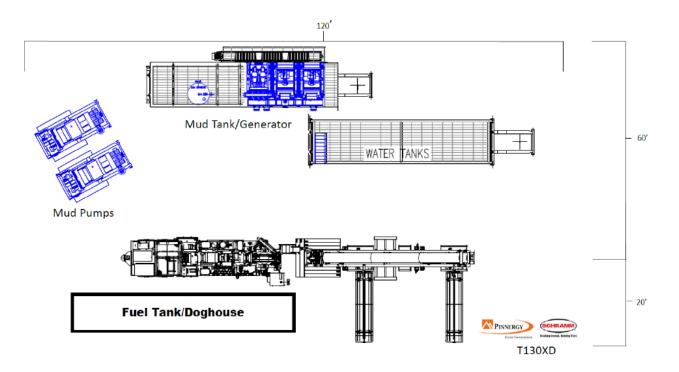
CUSA respectfully requests approval for the following operations for the surface hole in the drill plan:

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



Delaware Basin Changes to APD/COA for Federal Well



Well Names:

Well Name	
SND 14 23 FED COM 001 P26	225H
SND 14 23 FED COM 001 P26	226H
SND 14 23 FED COM 001 P26	227H

Rig: Nabors X53

CVX CONTACT:

Hannah Wardo Wells Engineer

MidContinent Business Unit Chevron North America Exploration & Production 1400 Smith St, Rm 43-174, Houston, TX 77002 Mobile: 832.963.9814 Office: 713.372.9032 Email: <u>Hannah.Wardo@chevron.com</u>

Summary of Changes

500 psi CS Tail instead of Lead – cave/karst areas

Chevron respectfully requests variance to wait to 500 psi compressive strength (CS) of the tail cement slurry, for primary cement operations in both the Surface and Production casing string(s) (9-5/8",7"). 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.

The objective is to utilize applicable engineering lab tests and to simplify operational practices, which will ensure consistent execution is performed and high integrity shoes are achieved across Chevron Operations on BLM in New Mexico.

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).

Tail Slurry

Code Con	centration	IsSoike Sa	k Reference Compo	nent Bland	Depatity	Lot Number
Solid Vol. Fraction	: 34.14 %	Slurry Type	: Tai	Mix Water	: 6.798	gal/sk of blend
Slurry Density	: 14.50 lb/gal	Yield	: 1.40 ft%sk of blend	Mix Fluid	: 6.818	gal/sk of blend
composition	and the second second	10000	0.0000000000000000000000000000000000000			
Starting Pressure	: 500.00 psi	Time To Pres	sure : 00:45 hr.mn	84		
Starting Temp	: 80.00 *F	Time To Tem	p : 00:45 hr.mn	Heating	Rate	: 1.44 *F/min
BHST	: 157.00 *F	BHCT	: 145.00 °F	BHP		: 5,100.00 psi
Job Type	: Primary	MD	: 9,060.00 ft	TVD		: 9,060.00 ft

Code	Concentration	IsSpike	Sack Reference	Component	Blend Density	Lot Number
D903	100.00 % BVOB		Blend sack: 94 lb	Cement	197.28 lb/ft*	bulk
D065	0.10 % BWOB			Dispersant		6843
D255	0.40 % BWOB			Fluid loss		PPRB1031-51
D047	0.020 gal/sk VBWOB			Anti Foam		D009K1L53
0080	0.20 % BWOB			Retarder		1190032
D208	0.02 % BWOB			Viscosifier		9K3825W
Fresh Water	6.796 gal/sk of blend			Base Fluid		Tap water

Rheology

and the state of the	S/N: XXX	5	- B	S/N: XXX5 Downhole (Configuration: R1B1 F1.0)				
Surface (Configuratio	n: R1B1 F1.0)					
Temperature	80 °F			Temperature				
(rpm)	Up (deg)	Down (deg)	Average (deg)	(rpm)	Up (deg)	Down (deg)	Average (deg)	
600	158	158	158	600	130	130	130	
300	110	110	110	300	80	80	80	
200	86	70	78	200	64	62	63	
100	70	56	63	100	44	40	42	
60	60	42	51	60	34	30	32	
30	52	34	43	30	26	22	24	
20	42	28	35	20	22	18	20	
10	32	22	27	10	18	16	17	
6	24	20	22	6	12	10	11	
3	16	18	17	3	10	10	10	
10 sec Gel	34 d	eg - 36.19 lbl/	100ft ^a	10 sec Gel	16 d	eg - 17.03 lbl/	10081	
10 min Gel	48 d	eg - 51.09 lbl/	10062	10 min Gel	30 đ	eg - 31.93 lb0	100ft*	
Rheo. computed	PV: 68.2	cP. Ty: 30.18	b6/100ft2	Rhep. computed	PV: 59.3	cP, Ty: 16.55	Ibf/100ft*	

All readings taken with F2 spring, doubled, and calculated/reported as F1 spring per Chevron Testing Procedures

Thickening Time S/N: 718

0-4	Conditions	Thisle	Callerth	
Set	Conditions -	I DICK	Gelled	

Consistency	Time	Temp
POD Time	02:45 hr:mn	145 °F
30 Bc	02:59 hr:mn	145 °F
50 Bc	03:35 hr:mn	145 °F
70 Bc	03:42 hr:mn	145 °F

Free Fluid

0.0%) 0 / 250 mL in 2 hrs	
At 80 *F and 45 deg inclination	
Conditioned at 145.00 "F and 5,100.00 psi for 30 mins at eaching temperature	ber
Sedimentation: None	
ube Dimensions: 250mL: 35 mm X 245 mm	_

Fluid Loss S/N: 05-034

API/Calcula Collected 3			162	degF	and	1000
psi						

|--|

- Filter Cake Consistency: Hard Non-Stirred Fluid Loss Apparatus Thermocouple Located in Cell Wall
- Comments

All slurries prepared and tested in accordance with API RP 10B-2 unless otherwise noted

Time to Add Solids : 00:17 mn:sc

Vortex Quality: good/visible

UCA S/N: 903-R

Time	CS	Temp	
07:39 hr.mn	50 psi	163 *F	
11:30 hr:mn	500 psi	163 *F	
13:25 hr.mn	713 psi	163 °F	

Received by OCD: 1/27/2021 9:40:29 AM ONSHORE ORDER NO. 1

Chevron SND 14 23 FED COM 001 P26 225H Eddy County, NM

2,520 psi

From	То	Туре	Weight	Weight at TD	Viscosity	Filtrate	Notes
0'	800'	Spud mud	8.3 - 8.9	8.9	26-36	15-25	
0'	4,500'	Brine	8.3 - 10.6	10.0	26-36	15-25	
4,500'	8,360'	WBM/Brine	8.7 - 10.6	9.0	26-36	15-25	
8,360'	19,875'	OBM	8.7 - 10.5	9.6	50-70	5-10	

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 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.

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

7. TESTING, LOGGING, AND CORING

The anticipated type and amount of testing, logging, and coring are as follows:

- a. Drill stem tests are not planned.
- b. The logging program will be as follows:

TYPE	Logs	Interval	Timing
Mudlogs	5	Surface casing shoe through prod hole TD	While drilling or circulating
LWD	MWD Gamma	Int. and Prod. Hole	While Drilling

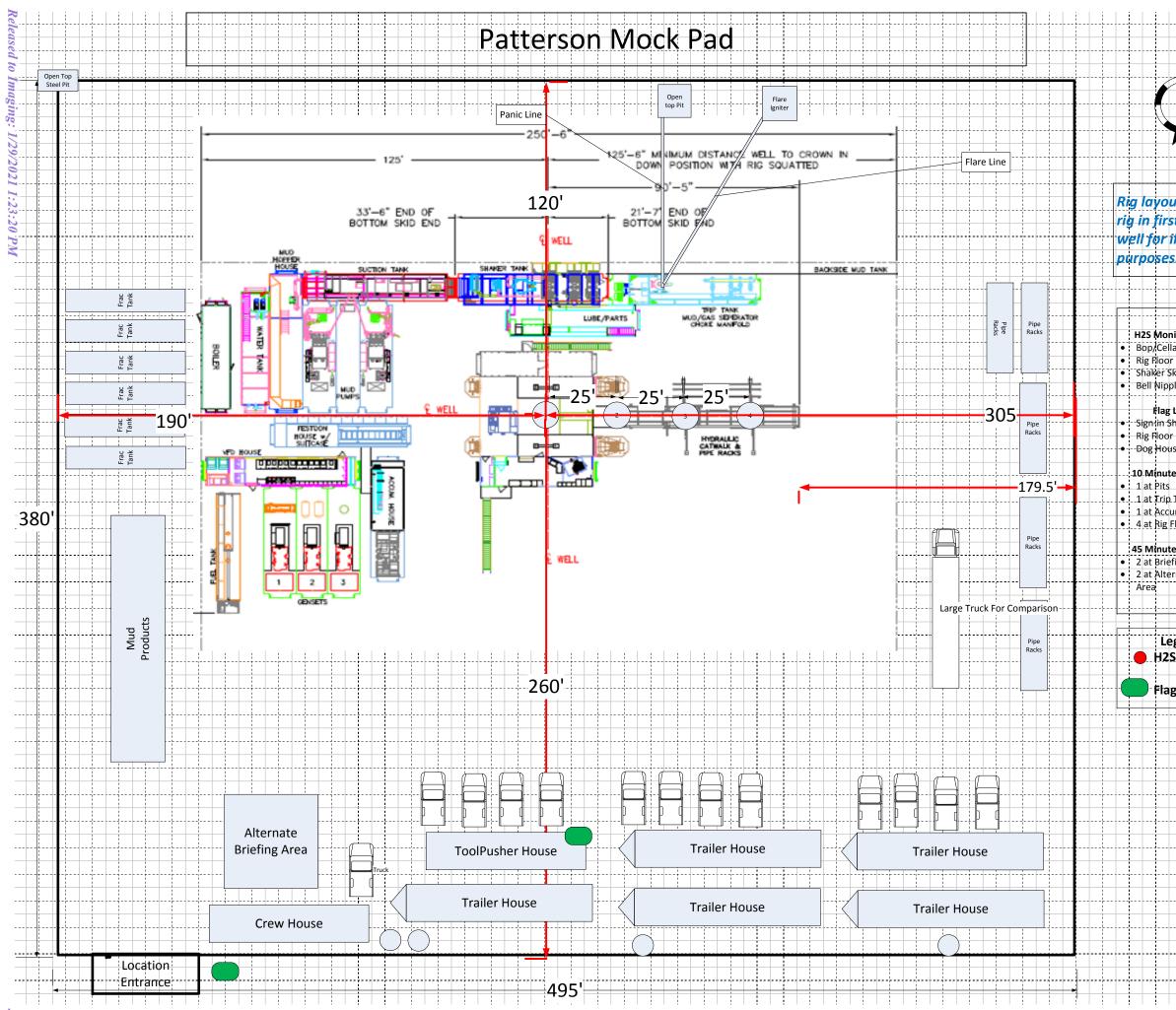
c. Conventional whole core samples are not planned.

d. A directional survey will be run.

8. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

a. No abnormal pressure or temperatures are expected. Estimated BHP is:

b. Hydrogen sulfide gas is not anticipated. An H2S Contingency plan is attached with this APD in the event that H2S is encountered



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District I 1625 N. French Dr., Hobbs, NM 88240

District II

District IV

Phone:(575) 393-6161 Fax:(575) 393-0720

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

Phone:(505) 334-6178 Fax:(505) 334-6170

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

District III 1000 Rio Brazos Rd., Aztec, NM 87410 COMMENTS

Action 15823

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

COMMENTS						
Operato	r:			OGRID:	Action Number:	Action Type:
	CHEVRON U S A INC	6301 Deauville Blvd	Midland, TX79706	4323	15823	FORM 3160-3
Created	Ву	Comment			Comment Date	
kpickford KP GEO Review 1/29/2021 01/29/2021						

CONDITIONS

Action 15823

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

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 OF APPROVAL

Operator:				OGRID:	Action Number:	Action Type:		
	CHEVRON U S A INC	6301 Deauville Blvd	Midland, TX79706	4323	15823	FORM 3160-3		
OCD	Condition							
Reviewer								
kpickford	Notify OCD 24 hours prior to casing & cement							
kpickford	Will require a File As Drilled C-1	02 and a Directional Survey wit	n the C-104					
kpickford	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							
kpickford	Oil base muds are not to be use contained in a steel closed loop		sed and cemented providing isolation from the c	bil or diesel. This includes sy	nthetic oils. Oil based mu	ud, drilling fluids and solids must be		