Form 3160-3 (June 2015) UNITED STATES	2			FORM AP OMB No. 1 Expires: Janua	004-0137		
DEPARTMENT OF THE I BUREAU OF LAND MAN	5. Lease Serial No.	5. Lease Serial No.					
APPLICATION FOR PERMIT TO D		6. If Indian, Allotee or	Tribe Name				
la. Type of work: DRILL R	EENTER			7. If Unit or CA Agreen	nent, Name and N		
	ther	Multiple Zone		8. Lease Name and We	l No.		
2. Name of Operator				9. API Well No. 30-015-49598			
3a. Address	3b. Phone	e No. (include area cod	e)	10. Field and Pool, or E	xploratory		
4. Location of Well <i>(Report location clearly and in accordance v</i> At surface At proposed prod. zone	with any Sto	ate requirements.*)		11. Sec., T. R. M. or Bl	k. and Survey or A		
14. Distance in miles and direction from nearest town or post off	ice*			12. County or Parish	13. State		
<ul> <li>15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)</li> </ul>	16. No of	acres in lease	17. Spaci	ng Unit dedicated to this	well		
<ol> <li>Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.</li> </ol>	19. Propo	osed Depth	20. BLM	/BIA Bond No. in file			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Appro	. Approximate date work will start* 23. Estimated duration					
	24. Att	achments					
The following, completed in accordance with the requirements of (as applicable)	f Onshore (	Dil and Gas Order No. 1	, and the I	Hydraulic Fracturing rule	per 43 CFR 3162.		
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> </ol>		4. Bond to cover th Item 20 above).	e operation	ns unless covered by an ex	isting bond on file		
3. A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office				rmation and/or plans as ma	y be requested by t		
25. Signature	Nai	me (Printed/Typed)		Da	te		
Title							
Approved by (Signature)	Nar	me (Printed/Typed)		Da	te		
Title	Off	ice		I			
Application approval does not warrant or certify that the applicar applicant to conduct operations thereon. Conditions of approval, if any, are attached.	nt holds leg	al or equitable title to th	nose rights	in the subject lease which	n would entitle the		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, n of the United States any false, fictitious or fraudulent statements					department or age		
			0.210				



\*(Instructions on page 2)

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(Continued on page 2)

### 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

	<sup>1</sup> API Nun		<sup>2</sup> Pool	Code		<sup>3</sup> Pool Name						
30-	015-49	598	168	300		DELAV	VARE RIVER:	BONE SF	PRING			
<sup>4</sup> Proper	ty Code			<sup>5</sup> I	Property Name				6	<sup>6</sup> Well Number		
3329	12			MACALLAN	12 1 FED ST	COM 23				2Н		
<sup>7</sup> OGR	ID No.			<sup>8</sup> C	perator Name					<sup>9</sup> Elevation		
43	23			CHEV	RON U.S.A. IN	IC.				3182'		
	<sup>10</sup> Surface Location											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line		County		
D	13	26 SOUTH	27 EAST, N.M.P.M		170'	NORTH	1172'	WEST		EDDY		
	-		<sup>11</sup> Bottom	Hole Loca	tion If Diff	erent From S	Surface					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/V	West line	County		
C	1	26 SOUTH	27 EAST, N.M.P.M		25'	NORTH	1485'	WE	ST	EDDY		
<sup>12</sup> Dedicated A	cres <sup>13</sup> Joi	nt or Infill	r Infill <sup>14</sup> Consolidation Code <sup>15</sup> C									
640	D	EFINING										

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		TTTTP TTT		
I6           PROPOSED FIRST TAKE POINT           X=         557,729'           Y=         381,911'           LAT.         32,049852' N           VA         598,913'           Y=         381,968'           LONG.         104.147007° W           X=         598,913'           Y=         381,968'           LONG.         104.147498' W           PROPOSED MID POINT           X=         557,634'           VA         32,064194' N           LAT.         32,064194' N           LAT.         32,064316' N           X=         568,818'           Y=         387,185'           LAT.         32,064316' N           NAD83/86         LAT.           LAT.         32,064316' N           Y=         387,185'           LAT.         32,064316' N           PROPOSED LAST TAKE POINT           X=         557,683'	A MACALLAN 12 1 FED ST COM 23 NO. 2H WELL X= 557,418' Y= 381,641' LAT. 32.049111° N NAD 27 LONG. 104.148011° W X= 598,602' Y= 381,688' LAT. 32.049233° N NAD83/86 LONG. 104.148602° W ELEV. +3182' NAVD88 CORNER COORDINATES TABLE (NAD 27) A-Y=392443.13,X=556198.44 B-Y=392444.5,X=557525.49 C-Y=392444.5,X=5558852.55 D-Y=392444.5,X=5558852.55 D-Y=392444.X=561506.67 F-Y=387127.27,X=556148.39 G-Y=387129.18,X=560179.59 J-Y=387129.18,X=560179.59 J-Y=387129.18,X=560179.59 J-Y=387129.18,X=560179.59 J-Y=387129.82,X=561523.33 K-Y=381811.53,X=556245.48 L-Y=381811.24,X=557568.91	,217.52 <sup>°</sup> N 00°32'15" E 5,291.87 <sup>°</sup> O	D E Proposed Last Take Point 100' FNL,1485' FWL Sec. 1 Nid Point IJ	<sup>17</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <u>Cindy Herrera-Murillo</u> 09/28/2002 Signature <u>Date</u> <u>Cindy Herrera-Murillo</u> Printed Name <u>eeof@chevron.com</u> E-mail Address <sup>18</sup> SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys
Y= 392,345' LAT. 32,078534° N NAD 27 LONG. 104.147099° W X= 598,667' Y= 392,402' LAT. 32,078656° N LONG. 104.147590° W	M-Y=381811.95,X=558892.34 N-Y=381811.95,X=5560215.77 O-Y=381813.38,X=561539.20 P-Y=376492.19,X=556251.68 Q-Y=376493.19,X=558903.27 PROPOSED BOTTOM HOLE LOCATION X= 557,683' Y= 392,420' NAD 27 LAT. 32.078740' NAD 27 LONG. 104.14706' W X= 598,867' Y= 392,477' LAT. 32.078683' NAD83/86 LONG. 104.147587' W	K, 1172' P	Sec. 12 Proposed First Take Point 100' FSL,1485' FWL N 48°58'23" E 411.84' NO Sec. 13	made by me or under my supervision, and that the same is true and correct to the best of my belief. 08/03/2021 Date of Survey Signature and Stat of Perfectional Surveyor. 22921 Temeric State of Perfectional Surveyor. 22921 Signature and Stat of Perfectional Surveyor. 2007

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	Eı	Stat nergy, Minerals a	te of New Mex and Natural Res		ent		Subn Via E	it Electronically -permitting	
Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505									
	N	ATURAL G	AS MANA(	GEMENT PI	LAN				
This Natural Gas Managem	ient Plan m	ıst be submitted w	ith each Applicat	ion for Permit to I	Drill (A	PD) for a	new or	recompleted well.	
			<u>1 – Plan D</u> ffective May 25,						
I. Operator:Che	vron USA		OGRID: _	4323			Date:	8 / 25 / 21	
II. Type: 🛛 Original 🗆 A	mendment	due to □ 19.15.27	'.9.D(6)(a) NMA	C 🗆 19.15.27.9.D(	(6)(b) Ì	NMAC 🗆	Other.		
If Other, please describe:									
<b>III. Well(s):</b> Provide the fo be recompleted from a sing					vells p	roposed to	be dri	led or proposed to	
Well Name	API	ULSTR	Footages			Anticipated Gas MCF/D P		Anticipated Produced Water BBL/D	
MACALLAN 12 1 FED ST COM 23 1H	Pending	UL:D, Sec 13, T26S-R27E	170'FNL, 1172 FWL	1635 BBL/D	5841	MCF/D	2089	BBL/D	
MACALLAN 12 1 FED ST COM 23 2H	Pending	UL:D, Sec 13, T26S-R27E	170'FNL, 1152 FWL	1635 BBL/D	5841	MCF/D	2089	BBL/D	
IV. Central Delivery Poin	t Name:	<u>Hayhurst N</u>	M CTB 12			[See	19.15.2	7.9(D)(1) NMAC]	
V. Anticipated Schedule: proposed to be recompleted					ell or s	set of wells	s propo	sed to be drilled or	
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial I Back I		First Production Date	
MACALLAN 12 1 FED ST COM 23 1H	Pending	September 2022	N/A	N/A		N/A		N/A	
MACALLAN 12 1 FED ST COM 23 2H	Pending	September 2022	N/A	N/A		N/A		N/A	
VI. Separation Equipmen VII. Operational Practice Subsection A through F of	es: 🛛 Attac	h a complete desc		-			-		
VIII. Best Management P during active and planned r	Practices: 🛛	Attach a comple	ete description of	Operator's best n	nanage	ment prac	tices to	minimize venting	

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

Page 1 of 4

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

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

#### IX. Anticipated Natural Gas Production:

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

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

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

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

**XII.** Line Capacity. The natural gas gathering system  $\Box$  will  $\Box$  will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

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

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

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

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

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

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

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

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

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

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

### Section 4 - Notices

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

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

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

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

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

Signature: Cindy Herrera-Murillo
Printed Name: Cindy Herrera-Murillo
Title: HSE REGULATORY AFFAIRS COORDINATOR
E-mail Address: eeof@chevron.com
Date: 8/23/2021
Phone: 575-263-0431
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

#### VI. Separation Equipment:

Separation equipment installed at each Chevron facility is designed for maximum anticipated throughput and pressure to minimize waste. Separation equipment is designed and built according to ASME Sec VIII Div I to ensure gas is separated from liquid streams according to projected production.

#### VII./VIII. Operational & Best Management Practices:

1. General Requirements for Venting and Flaring of Natural Gas:

- In all circumstances, Chevron will flare rather than vent unless flaring is technically infeasible and venting of natural gas will avoid a risk of an immediate and substantial adverse impact on safety, public health, or the environment.
- Chevron installs and operates vapor recovery units (VRUs) in new facilities to minimize venting and flaring. If a VRU experiences operating issues, it is quickly assessed so that action can be taken to return the VRU to operation or, if necessary, facilities are shut-in to reduce the venting or flaring of natural gas.

2. During Drilling Operations:

- Flare stacks will be located a minimum of 110 feet from the nearest surface hole location.
- If an emergency or malfunction occurs, gas will be flared or vented to avoid a risk of an immediate and substantial adverse impact on public health, safety or the environment and be properly reported to the NMOCD pursuant to 19.15.27.8.G.
- Natural gas is captured or combusted if technically feasible using best industry practices and control technologies, such as the use of separators (e.g., Sand Commanders) during normal drilling and completions operations.

3. During Completions:

- Chevron typically does not complete traditional flowback, instead Chevron will flow produced oil, water, and gas to a centralized tank battery and continuously recover salable quality gas. If Chevron completes traditional flowback, Chevron conducts reduced emission completions as required by 40 CFR 60.5375a by routing gas to a gas flow line as soon as practicable once there is enough gas to operate a separator. Venting does not occur once there is enough gas to operate a separator
- Normally, during completions a flare is not on-site. A Snubbing Unit will have a flare on-site, and the flare volume will be estimated.
- If natural gas does not meet pipeline quality specification, the gas is sampled twice per week until the gas meets the specifications.

4. During Production:

- An audio, visual and olfactory (AVO) inspection will be performed daily (at minimum) for active wells and facilities to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC. Inactive, temporarily abandoned, or shut-in wells and facilities will be inspected weekly. Inspection records will be kept for a minimum of five years and will be available upon request by the division.
- Monitor manual liquid unloading for wells on-site, takes all reasonable actions to achieve a stabilized rate and pressure at the earliest practical time and takes reasonable actions to minimize venting to the maximum extent practicable.
- In all circumstances, Chevron will flare rather than vent unless flaring is technically infeasible and venting of natural gas will avoid a risk of an immediate and substantial adverse impact on safety, public health, or the environment.
- Chevron's design for new facilities utilizes air-activated pneumatic controllers and pumps.
- If natural gas does not meet pipeline quality specification, the gas is sampled twice per week until the gas meets the specifications.
- Chevron does not produce oil or gas until all flowlines, tank batteries, and oil/gas takeaway are installed, tested, and determined operational.

5. Performance Standards

- Equipment installed at each facility is designed for maximum anticipated throughput and pressure to minimize waste. Tank pressure relief systems utilize a soft seated or metal seated PSVs, as appropriate, which are both designed to not leak.
- Flare stack has been designed for proper size and combustion efficiency. New flares will have a continuous pilot and will be located at least 100 feet from the well and storage tanks and will be securely anchored.
- New tanks will be equipped with an automatic gauging system.
- An audio, visual and olfactory (AVO) inspection will be performed daily (at minimum) for active wells and facilities to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC. Inactive, temporarily abandoned, or shut-in wells and facilities will be inspected weekly. Inspection records will be kept for a minimum of five years and will be available upon request by the division.

6. Measurement or Estimation of Vented and Flared Natural Gas

- Chevron estimates or measures the volume of natural gas that is vented, flared, or beneficially used during drilling, operations, regardless of the reason or authorization for such venting or flaring.
- Where technically practicable, Chevron will install meters on flares installed after May 25, 2021. Meters will conform to industry standards. Bypassing the meter will only occur for inspecting and servicing of the meter.

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Operator Name: CHEVRON USA INCORPORATED

Well Name: MACALLAN 12 1 FED ST COM 23

Well Number: 2H

BOP test. No BOP components nor any break will ever surpass 21 days between testing. A break test will consist of a 250 psi low / 5,000 psi high for 10 min each test against the connection that was broken when skidding the rig. Upon the first nipple up of the pad a full BOP test will be performed. A full BOP test will be completed prior to drilling the production lateral sections unless the BOP connection was not broken prior to drilling that hole section (example: drilling straight from production 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.

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

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

BLM\_5M\_Choke\_Manifold\_Diagram\_20201023110238.pdf

BLM\_Choke\_Hose\_Test\_Specs\_and\_Pressure\_Test\_Continental\_20210928133113.pdf

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

NM\_Slim\_Hole\_Wellhead\_6650\_psi\_UH\_S\_20201023110414.pdf

BLM\_5M\_Annular\_10M\_Rams\_Stackup\_and\_Test\_Plan\_20201023110321.pdf

Hayhurst\_NM\_Pad\_23\_Gas\_Management\_Plan\_\_\_NMOCD\_20210927155912.pdf

Operational\_Best\_Management\_Practices\_V2\_20210927155931.pdf

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

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	450	0	450	3182	2732	450	J-55		OTHER - BTC/STC	2.13	1.43	DRY	4.07	DRY	4.07
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	2344	0	2313	3182	869	2344	L-80	-	OTHER - BTC/LTC	1.24	1.64	DRY	2.78	DRY	2.78
3	PRODUCTI ON	8.75	7.0	NEW	API	N	0	6988	0	6946	3143	-3764	6988	P- 110		OTHER - BLUE	1.63	1.15	DRY	2.39	DRY	2.39
4	PRODUCTI ON	6.12 5	5.0	NEW	API	N	6688	7588	6688	7496	-3506	-4314	900	P- 110	-	OTHER - W513	1.39	1.1	DRY	1.32	DRY	1.32
5	PRODUCTI ON	6.12 5	4.5	NEW	API	N	7588	18697	7588	7771	-4406	-4589	11109	P- 110		OTHER - W521	1.39	1.1	DRY	1.32	DRY	1.32

#### Released to Imaging: 6/8/2022 10:18:53 AM

Received by OCD: 6/7/2022 9:07:02 AM

Operator Name: CHEVRON USA INCORPORATED

Well Name: MACALLAN 12 1 FED ST COM 23

Well Number: 2H

#### **Casing Attachments**

Casing ID: 1 String SURFACE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
13.375_54.5ppf_J55_BTC_20210719112510_20210914105620.pdf
Casing ID: 2 String INTERMEDIATE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
9.625_40.0lb_L80IC_BTC_20210914105830.pdf
 Casing ID: 3 String PRODUCTION
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
7in_Blue_vs_BlueSD_20210914105914.pdf

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Operator Name: CHEVRON USA INCORPORATED

Well Name: MACALLAN 12 1 FED ST COM 23

Well Number: 2H

#### **Casing Attachments**

Casing ID:	4	String	PRODUCTION
Casing ID:	4	String	PRODUCTION

Inspection Document:

Spec Document:

**Tapered String Spec:** 

#### Casing Design Assumptions and Worksheet(s):

 $5.0\_18.0 ppf\_P110\_W513\_20210719103823\_20210914110018.pdf$ 

Casing ID: 5	String	PRODUCTION
Inspection Document:		

Spec Document:

Tapered String Spec:

#### Casing Design Assumptions and Worksheet(s):

4.5\_11.6ppf\_P110\_TSH\_W521\_20210914110033.pdf

Jection	O(										
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	0	0	0	0	0	0	N/A	N/A
SURFACE	Tail		0	450	259	1.33	14.8	344	10	CLASS C	EXTENDER;ANTIFOA M; RETARDER
INTERMEDIATE	Lead		0	1344	186	2.49	11.9	463	10	CLASS C	EXTENDER;ANTIFOA M; RETARDER
INTERMEDIATE	Tail		1344	2344	287	1.33	14.8	382	10	CLASS C	Extender, Antifoam, Retarder

### Section 4 - Cement

#### Well Name: MACALLAN 12 1 FED ST COM 23

Well Number: 2H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		0	5988	443	2.2	11.9	974	10	CLASS C	Extender, Antifoam, Retarder, Viscosifier
PRODUCTION	Tail		5988	6988	118	1.4	14.5	165	10	CLASS C	Extender, Antifoam, Retarder, Viscosifier
PRODUCTION	Lead		6788	1869 7	670	1.84	13.2	1234	10	CLASS C	Extender, Antifoam, Retarder, Viscosifier

PRODUCTION Lea	ead 678	3 1869 670 7	1.84 13.2 123	10 CLASS C	Extender, Antifoam, Retarder, Viscosifier
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### Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

**Describe the mud monitoring system utilized:** A mud test shall be performed every 24 hours after 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 material (LCM) will be onsite to mitigate pressure or lost circulation as hole conditions dictate.

### **Circulating Medium Table**

Top Depth
Bottom Depth
Mud Type
Min Weight (lbs/gal)
Max Weight (Ibs/gal)
Density (lbs/cu ft)
Gel Strength (lbs/100 sqft)
Hd
Viscosity (CP)
Salinity (ppm)
Filtration (cc)
Additional Characteristics

### **Operator Name: CHEVRON USA INCORPORATED**

#### Well Name: MACALLAN 12 1 FED ST COM 23

#### Well Number: 2H

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	НА	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	450	SPUD MUD	8.3	9.1							VISCOSITY: 26-36 FILTRATE: N/C
450	2344	OTHER : BRINE	8.9	10.5							VISCOSITY: 26-36 FILTRATE: 15-25
2344	6988	OTHER : WBM/BRINE	8.7	9.6							VISCOSITY: 26-36 FILTRATE: 15-25
6988	1869 7	OIL-BASED MUD	8.7	13							VISCOSITY: 50-70 FILTRATE: 5-10 Due to wellbore stability, the mud program may exceed the MW weight window needed to maintain overburden of pore pressure.

### Section 6 - Test, Logging, Coring

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

Drill stem tests are not planned

The logging program will be as follows:

Mudlogs Logs: 2 man mudlog Interval: Surf csg shoe through Prod hole TD Timing: While drilling or circulating LWD Logs: MWD gamma Interval: Int. and Prod. Hole Timing: While drilling List of open and cased hole logs run in the well:

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

#### Coring operation description for the well:

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

### **Section 7 - Pressure**

Anticipated Bottom Hole Pressure: 5253

Anticipated Surface Pressure: 3543

#### Anticipated Bottom Hole Temperature(F): 165

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

#### Describe:

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

#### Contingency Plans geoharzards description:

"- Casing design accounts for pressure ramp.

- Mud weighting agents available on location to increase drilling fluid density.
- BOP, choke & well control drills.
- BOP functioned and pressure tested"

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

**Operator Name: CHEVRON USA INCORPORATED** 

Well Name: MACALLAN 12 1 FED ST COM 23

Well Number: 2H

Batch drilling will be employed whereby the drilling rig may drill a specific hole section on all wells prior to moving to the next hole section.

Shallow rig may be utilized to drill surface or intermediate sections. The production section will not be drilled by the shallow rig.

Wait on cement time will use the tail slurry and will follow rules as laid out in Onshore Order 2.

Contingency Plans geohazards

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

#### Hydrogen sulfide drilling operations

H2S\_Contingency\_Plan\_20210927160142.pdf

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

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

DefPlan100ft\_Macallan121FedStCom232H\_R0\_20210914115016.pdf

MACALLAN\_12\_1\_FED\_COM\_23\_2H\_20220126163416.pdf

#### Other proposed operations facets description:

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

\*\*\*Drilling plan attached contains a contingency cement program. Batch drilling will be employed whereby the drilling rig may drill a specific hole section on all wells prior to moving to the next hole section.

Shallow rig may be utilized to drill surface or intermediate sections. The production section will not be drilled by the shallow rig.

Wait on cement time will use the tail slurry and will follow rules as laid out in Onshore Order 2. Other proposed operations facets attachment:

Rig\_Layout\_20201023120702.pdf

Operational\_Best\_Management\_Practices\_V2\_20210927075300.pdf

Hayhurst\_NM\_Pad\_23\_Gas\_Management\_Plan\_\_\_NMOCD\_20210927075319.pdf

CUSA\_Spudder\_Rig\_Data\_20210928133246.pdf

#### Other Variance attachment:

## Schlumberger

# Macallan 12 1 Fed St Com 23 2H R0 mdv 18Aug21 Proposal Geodetic Report (Def Plan)



Report Date: Client: Field:	August 20, 2021 - 04:38 PM Chevron NM, Eddy County (NAD 27 EZ)	Survey / DLS Computation: Vertical Section Azimuth: Vertical Section Origin:	Minimum Curvature / Lubinski 359.750 ° (Grid North) 0.000 ft, 0.000 ft
Structure / Slot:	Chevron Macallan 12 1 Fed St Com 23 Pad / Macallan 12 1 Fed St Com 23 2H	TVD Reference Datum:	KB - 28ft (TBD)
Well:	Macallan 12 1 Fed St Com 23 2H	TVD Reference Elevation:	3210.000 ft above MSL
Borehole:	Macallan 12 1 Fed St Com 23 2H	Seabed / Ground Elevation:	3182.000 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	6.842 °
Survey Name:	Macallan 12 1 Fed St Com 23 2H R0 mdv 18Aug21	Total Gravity Field Strength:	998.4344mgn (9.80665 Based)
Survey Date:	August 18, 2021	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	115.549 ° / 11611.166 ft / 6.509 / 1.494	Total Magnetic Field Strength:	47573.556 nT
Coordinate Reference System:	NAD27 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	59.628 °
Location Lat / Long:	N 32° 2' 56.79811", W 104° 8' 52.84356"	Declination Date:	August 18, 2021
Location Grid N/E Y/X:	N 381641.000 ftUS, E 557418.000 ftUS	Magnetic Declination Model:	HDGM 2021
CRS Grid Convergence Angle:	0.0983 °	North Reference:	Grid North
Grid Scale Factor:	0.99991287	Grid Convergence Used:	0.0983 °
Version / Patch:	2.10.826.8	Total Corr Mag North->Grid North:	6.7441 °
		Local Coord Referenced To:	Well Head

Sande, G. G. D.         AD         CO         CO        CO         CO        CO	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 ° ' ")
1         1         0	Surface	0.00	0.00	0.00			0.00	0.00	N/A	381641.00	557418.00	N 32 2 56.80	W 104 8 52.84
200 C         0.00 </td <td>Salado (SLDO)</td> <td>28.00</td> <td>0.00</td> <td>137.55</td> <td>28.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>381641.00</td> <td>557418.00</td> <td>N 32 2 56.80</td> <td>W 104 8 52.84</td>	Salado (SLDO)	28.00	0.00	137.55	28.00	0.00	0.00	0.00	0.00	381641.00	557418.00	N 32 2 56.80	W 104 8 52.84
36 00         0.00         177.60         32.00         0.00        0.00        <		100.00	0.00	137.55	100.00	0.00	0.00	0.00	0.00	381641.00	557418.00	N 32 2 56.80	W 104 8 52.84
Balil 1: 11:00         2000         0.00		200.00	0.00	137.55	200.00	0.00	0.00	0.00	0.00	381641.00	557418.00	N 32 2 56.80	W 104 8 52.84
900 1         670 1         177 3         417 0         177 3         417 0         177 3         417 0         177 3         177 0 <th< td=""><td></td><td>300.00</td><td>0.00</td><td>137.55</td><td>300.00</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td><td>381641.00</td><td>557418.00</td><td>N 32 2 56.80</td><td>W 104 8 52.84</td></th<>		300.00	0.00	137.55	300.00	0.00	0.00	0.00	0.00	381641.00	557418.00	N 32 2 56.80	W 104 8 52.84
600         530         1758         6691         -3.86         -3.86         -3.56         1.50         301671-16         6712.5         1.6         2         2         2         1.6         1.6         2         2         1.6         1.6         2         2         1.6         1.6         1.6         30167         1.6         1.6         1.6         1.6         30167         1.6         1.6         1.6         1.6         30167         1.6         30167         1.6         30167         1.6         30167         1.6         30167         1.6         30167         1.6         30167         1.6         30167         1.6         30167         1.6         30167         1.6         3016	Build 1.5°/100ft	400.00	0.00	137.55	400.00	0.00	0.00	0.00	0.00	381641.00	557418.00	N 32 2 56.80	W 104 8 52.84
Game         Game <th< td=""><td></td><td>500.00</td><td>1.50</td><td>137.55</td><td>499.99</td><td>-0.97</td><td>-0.97</td><td>0.88</td><td>1.50</td><td>381640.03</td><td>557418.88</td><td>N 32 2 56.79</td><td>W 104 8 52.83</td></th<>		500.00	1.50	137.55	499.99	-0.97	-0.97	0.88	1.50	381640.03	557418.88	N 32 2 56.79	W 104 8 52.83
700.00         4.50         177.55         618.79         4.50         775.         1.50         375.55         1.50         2.50.50		600.00	3.00	137.55	599.91	-3.88	-3.86	3.53	1.50	381637.14	557421.53	N 32 2 56.76	W 104 8 52.80
0000         0.00         157.55         792.77         -15.64         157.42         15.9         292.72         16         2 <th2< th=""> <th2< th="">         2       &lt;</th2<></th2<>	Castile (CSTL)	627.72	3.42	137.55	627.59	-5.03	-5.01	4.58	1.50	381635.99	557422.58	N 32 2 56.75	W 104 8 52.79
900.0         6.00         157.55         797.77         -15.64         1.5.2         1.5.8         887.25         8         2 <th2< th=""> <th2< th="">         2       &lt;</th2<></th2<>		700.00	4.50	137.55	699.69	-8.72	-8.69	7.95	1.50	381632.31	557425.95	N 32 2 56.71	W 104 8 52.75
Annel 100.00		800.00	6.00	137.55	799.27	-15.50	-15.44		1.50	381625.56	557432.12	N 32 2 56.65	W 104 8 52.68
1000.0         9.00         107.5         997.61         -36.70         31.74         130         376.65.30         877.47         N         2         26.95         N         0         2         2         0 <td></td> <td></td> <td></td> <td>137.55</td> <td>898.57</td> <td>-24.21</td> <td></td> <td></td> <td>1.50</td> <td>381616.89</td> <td>557440.05</td> <td>N 32 2 56.56</td> <td>W 104 8 52.59</td>				137.55	898.57	-24.21			1.50	381616.89	557440.05	N 32 2 56.56	W 104 8 52.59
1         1         1         0											557449.74		
1200.0         1200.0         127.5         116-10         41.85         41.85         62.34         130         30179-12         5777.5.8         18.2         28.97         10.8         28.97         10.8         28.97         10.8         28.97         10.8         28.97         10.8         28.97         10.8         28.97         10.8         28.97         10.8         28.97         10.8         28.97         10.8         28.97         10.8         28.97         10.8         28.97         10.8         28.97         10.8         10.97         29.97         10.8         10.8         29.97         10.8													
held         100.20         172.50         1194.30         1.17         4.187         6.137         1.59         38754246         87244.30         N         2.61.9         M         0         2.61.9         M         0         2.61.9         M         0         2.61.9         M         0        0        0         0													
1300.00         12.00         137.55         1201.96         -77.24         -77.83         70.38         0.00         8314.67         57.448.57         97.48.57         97.48.57         97.49.57         97.42.57         97.24 <t< td=""><td>Hold</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Hold												
1400.00         17.00         17.25         1389.70         49.25         49.26													
150.00         12.00         172.55         1447.60         -10.005         -172.27         19.48         0.00         1515.3.04         577.64.4         N         25.7.3         VI A         5.5.7.3         <													
100.00         12.00         17.756         195.42         -122.47         112.62         0.00         38162.07         8074-04         N.2         25.85         10.8         5.77           1170.00         12.00         137.55         1177.106         -148.57         128.62         0.00         38162.07         5577.92         N.12         25.55         71.04         1.98.62         0.00         38162.07         5577.92         N.12         25.55         71.04         1.98.62         0.00         38162.07         577.92         N.12         25.55         71.04         1.98.62         0.00         38164.07         N.12         25.57         N.14         85.57         N.14													
170.00         12.00         137.66         148.23         -138.86         -138.93         126.25         0.00         38102.70         607.64.91         N.2         2.6.2.0         10.2.0         137.55         771.04         145.25         0.00         38102.70         607.64.91         N.2         2.6.2.0         10.2.0         137.55         771.04         145.25         0.00         381413.5         577.66.2         N.2         2.6.2.0         10.6         6.7.2.0         N.2         2.6.2.0         10.6         8.7.2.0         2.2.1.0         2.2.1.0         2.2.2.0.0         3.8.11         N.2         2.6.2.0         10.6         8.0.0         2.2.2.0.0         3.8.11         N.2         2.6.2.0         10.6         8.0.0         2.2.2.0.0         3.8.11         N.2         2.6.2.0         N.2         2.7.2.0         N.2         2.7.2.0         N.2         2.6.2.0         N.2         2.6.2.0         N.2         2.2.2.2.2.0         N.2         2.2.2.2.2													
180.00         12.00         177.85         1781.05         -154.27         -153.66         140.69         0.00         38147.36         58775.28         N         2         2.52.01         10         6.5772           1900.00         12.00         137.65         177.07         185.08         -165.09         166.00         38147.26         58775.26         N         2         2.51.9         10         6.5772           2200.00         12.00         137.55         277.27         -156.00         2.16.9         196.7         0.00         38147.56         577.74         N         2.2.51.9         10.6         577.75         N         2.2.51.9         10.6         10.6         10.6         577.75         N         2.2.51.9         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6 <td></td>													
100.00         12.00         137.65         197.66         198.66         198.00         146.45         0.00         38142.21         657.22         N         32         25.87         N         16         55           200.00         12.00         137.55         197.47         195.60         164.54         199.71         0.00         38145.56         55774.06         N         32         24.57         N         32         24.57         N         42         45.57         57777.0         N         32         24.57         N         35         24.57         N													
200.00         12.00         137.55         197.67         198.35         198.43         198.43         198.43         198.43         198.43         198.43         198.43         198.43         198.43         198.43         198.44 </td <td></td>													
210.00         12.00         137.55         217.43         220.04         199.66         192.67         0.00         818141.32         STR05.55         N         2         2.64.20         N         0         2         2.64.20         N         0         2         2.64.20         N         0         2         2.64.20         0         0         2         2.64.20         0         0         2         2.64.20         0         0         2         2.64.20         N         2         2.64.50         N         0         2         2.64.50        N         0													
2200         12.00         137.55         271.30         -216.34         216.04         1971         0.00         84742.98         157914.08         15.2         24.67         10.10         10.20         10.20         10.20         10.25         22.22         20.00         11.4         137.55         22.70         23.03         23.03         27.07         0.70         39.410.04         55791.07         10.2         2.55.5         10.4         63.04           2443.00         11.10         137.55         2276.17         -24.68         24.57         10.75         39.410.04         55797.85         10.2         2.54.57         10.10         64.0         2.2         2.54.37         10.10         64.0         2.2         2.54.37         10.10         64.0         2.2         2.54.37         10.10         64.0         2.2         2.54.37         10.10         64.0         2.2         2.54.37         10.10         10.1													
Drup 0.757100h         2202.00         12.00         12.00         220.07         220.07         220.07         0.00         3814166         5576270         N         2         2.56.0         N         0.0         2.56.0         N         2         2.56.0         N         0.0<													
28000         11 84         137 55         2271 11         -231 30         -231 30         -231 30         -231 30         216 30         07.6         331 41 0.4 4         537 62 1.7 4         0.2         6.5 1.9 41 0.4 51.4 4           tamor (LAR7)         2403.00         11.1 9         137.55         2366.00         -246.15         -245.16         224.7 6         0.75         331 335.4 4         537 64.2 7         N 2         6.5 1.0 4         0.6 1.0 4         0.75         331 35.4 4         537 64.2 7         N 2         6.2 1.0 4         0.6 1.0 4         0.75         331 35.1 5         57767.5 N 2         2.6 2.0 4         0.4 4         0.75         250.0 0         0.8 4         137.55         266.4         -296.0 7         0.75         331 35.1 5         57767.7 N 1         2         2.5 0.8 11.0 4         0.4 6.2 2.0 4.0 4         0.4 6.2 2.0 4.0 4         0.4 6.2 2.0 1.0 4         0.4 6.2 2.0 1.0 4         0.4 6.2 2.0 1.0 4         0.4 6.2 2.0 1.0 4         0.4 6.2 2.0 1.0 4         0.4 6.2 2.0 1.0 4         0.4 6.2 2.0 1.0 4         0.4 6.2 2.0 1.0 4         0.4 6.2 2.0 1.0 4         0.4 6.2 2.0 1.0 4         0.4 6.2 2.0 1.0 4         0.4 6.2 2.0 1.0 4         0.4 6.2 2.0 1.0 4         0.4 6.2 2.0 1.0 4         0.4 6.2 2.0 1.0 4         0.4 6.2 2.0 1.0 4         0.4 6.2 2.0 1.0 4         0.4 6.2 2.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	Drop () 75°/100ft												
Lamar (LMAR)         243.70         11.76         17.76         212.80         -27.91         -23.66         716         76         3811945.40         55784.2         N         2         24.54         VIII         0<													
240.00         11.19         137.55         288.08         -246.16         -245.16         224.28         0.75         38138.48         55762.28         N         2         245.36         N         10         555.25         2         557.37         N         2         2         54.36         N         2         2         54.36         N         2         2         54.36         N         2         2         54.36         N         3         2         55.36         N         3         2         55.36         N         3         2         55.38         N         3         2         55.38         N         3         2         55.38         N         3         3         3         3         3         3         3         3         3         3         3         N         3         2         3<.38         N         <	Lamar (LMAD)												
(BLCN)         240.0.09         1.1         1.7.1         2.7.10         2.400.00         2.44.76         0.7.3         3.930.4.2         37.67.47         N         2         2.40.3         M         0         2         2.41.3         N         0         2         2.41.3         N         0         2         2.41.3         N         0         2         2.41.3         N         2         2.41.0         N         0         0         0         0         0         2         2.41.0         N         0         2         2.43.7         N         0         0         0         0         0         0	Lamai (LIMAN)												
2500.00         10.44         137.55         2468.30         -220.00         -250.93         240.65         0.75         38138.20.00         65764.27         N         2         24.12         M         8         4         3         3         3         3         3         3         3         3         3         3         4         3         4         3 <td>Bell Canyon (BLCN)</td> <td>2403.69</td> <td>11.17</td> <td>137.55</td> <td>2371.70</td> <td>-246.68</td> <td>-245.70</td> <td>224.76</td> <td>0.75</td> <td>381395.32</td> <td>557642.74</td> <td>N 32 2 54.36</td> <td>W 104 8 50.24</td>	Bell Canyon (BLCN)	2403.69	11.17	137.55	2371.70	-246.68	-245.70	224.76	0.75	381395.32	557642.74	N 32 2 54.36	W 104 8 50.24
2800.00         8.94         137.55         280.34         -280.87         250.67         0.75         81357.15         57777.55         N         3.2         23.08         M         0         49.02           2800.00         7.44         137.55         280.61         -306.01         7.5         38136.12         55770.55         N         3.2         2.3.8         M         0         49.02           3000.00         5.9         137.55         3050.03         -323.38         -322.10         246.46         0.75         38135.95         55771.25         N         3.2         2.3.8         M         0         4.3.0         7.8.3         3913.90         5771.95         N         2         2.3.8         M         0         4.3.0         7.8.3         3913.90	(BEON)												
2800.00         8.19         137.55         276.23         -206.04         -294.87         280.73         0.75         38134.16         55778.71         N         2         2.38.8         W14         4.94.75           2800.00         6.48         137.55         2806.04         -315.23         -313.8         277.22         0.75         38131.77         557705.19         N         2         2.38.9         W14         4.94.25           3000.00         5.49         137.55         3060.03         -322.33         301.9         2.75.8         38131.77         557719.1         N         2         2.83.9         W14         4.94.25           Cherry Camyon         3211.9         517.9         137.55         3176.47         -333.70         -330.05         5772.5         5773.95         N         2         2.63.7         W14         4.94.25           3000.00         2.44         137.55         3568.8         -362.01         -304.69         115.5         0.75         8130.61         N         2         2.63.7         W14         4.94.25           3000.00         2.44         137.55         3568.81         -362.40         -322.26         0.75         8129.04         55773.87         N         2<													
2800.00         7.44         137.55         286.40         -306.12         -313.96         278.91         0.75         88138.12         577686.89         N 32         2.5.78         V108         84.80           3000.00         5.94         137.55         2806.03         -323.33         -322.10         244.44         0.75         38138.70         55771.87         N 32         2.5.81         V104         84.93           Cherry Canyon         3300.00         5.14         137.55         3574.62         331.97         -323.46         301.86         0.75         38130.81         55771.88         N 32         2.5.5.3         V104         84.93           CACNU         3300.00         2.44         17.75         3359.95         -346.05         -346.86         0.75         38130.81         55773.85         N 32         2.5.3.8         V104         84.92           3600.00         2.19         137.65         3558.66         -346.27         316.66         0.75         38128.04         55773.87         N 32         2.5.3.8         V104         84.91           3700.00         1.44         137.55         3566.16         -352.40         320.72         7.5         38128.04         55773.87         N 32         2.5.3.1													
3000.00         6.66         137.55         290.64         -915.23         -915.23         -922.10         294.64         0.75         38131.73         57776.19         N         22         25.88         N 104         849.43           Charry Canyon         320.00         5.19         137.55         3190.56         -330.57         -330.65         301.92         0.75         38131.77         57774.17         N         32         25.53         W 104         849.37           (CRCh)         3300.00         4.44         137.55         359.62         -336.77         -333.65         301.92         0.75         38130.57         57774.48         N         32         2.53.8         W 104         849.25           3300.00         4.44         137.55         359.62         -340.54         -343.64         301.66         0.75         38130.57         5774.48         N         32         2.53.4         W 104         84.92           3300.00         2.64         137.55         3569.63         -350.01         -321.78         371.66         0.75         38130.44         57773.57         N         32         2.53.1         W 104         84.91           360.00         0.69         137.55         3568.61			8.19	137.55	2762.33	-296.04			0.75	381346.16	557687.71	N 32 2 53.88	W 104 8 49.72
310.00         5.94         137.55         3196.00         -322.38         -322.10         294.64         0.75         381311.77         52         25.81         V1.48         84.93           Cherry Carryon (GRCV)         3211.96         5.10         137.55         3171.47         -331.37         -330.05         301.92         0.75         381311.77         52         25.33         V1.48         84.93           C/GCV)         3300.00         4.44         137.55         325.92         -336.65         301.92         0.75         38130.67         5771.81         N         2         2.53.47         V1.48         84.93           3400.00         4.44         137.55         3358.66         -346.64         316.55         0.75         38130.67         5773.85         N         2         2.53.87         V1.48         84.91           3600.00         2.44         137.55         358.66         -346.64         -344.96         316.55         0.75         3172.86         7573.85         N         2         2.53.87         V1.8         84.91           3900.00         0.01         137.55         358.66         -346.30         -352.40         322.86         0.00         381286.05         5774.03.87         N<		2900.00	7.44	137.55	2861.40	-306.12	-304.90	278.91	0.75	381336.12	557696.89	N 32 253.78	W 104 8 49.61
320.00         5.19         137.55         3199.56         -330.57         -322.26         301.19         0.75         38131.77         55771.81         N         2         25.33         V1.08         84.92           CRC0)         3300.00         4.44         137.55         335.95         -330.77         -330.05         301.92         0.75         381305.57         55774.84         N         2         2.53.7         V1.08         84.92           3400.00         3.69         137.55         3358.95         -346.07         381305.57         55774.84         N         2         2.53.8         V1.08         84.92           3600.00         2.19         137.55         3568.68         -342.01         -350.61         320.72         75         391290.07         56773.85         N         2         2.53.3         V1.08         84.91           3000.00         0.69         137.55         358.61         -353.80         -352.40         320.82         0.00         391286.07         56774.03         N         2         2.53.3         V1.08         84.91           400.00         0.00         137.55         3958.61         -353.80         -352.40         322.36         0.00         31286.65         5		3000.00	6.69	137.55	2960.64	-315.23	-313.98	287.22	0.75	381327.05	557705.19	N 32 2 53.69	W 104 8 49.51
Charry Cargon         32 11.96         5.10         137.55         371.47         -331.37         -330.05         301.92         0.75         38130.93         557719.89         N         32         2 53.5         W 104         849.32           3300.00         4.44         137.55         3258.20         -335.46         306.66         0.75         38130.57         557724.84         N 32         2 53.47         W 104         849.24           3400.00         2.94         137.55         358.63         -342.05         -346.64         -345.65         0.75         381202.07         55773.65         N 22         2 53.38         W 104         849.16           3500.00         2.94         137.55         3568.83         -362.01         320.12         0.75         381202.04         55773.67         N 22         2 53.38         W 104         849.11           3700.00         1.44         137.55         3861.04         -353.80         -352.40         322.38         0.07         38128.63         55774.03         N 32         2 53.31         W 104         849.11           400 Vertical         3892.43         0.00         137.55         3861.64         -353.80         -352.40         322.38         0.00         38128.63													
CCRCON         30 10         137.30         377.47         -530.37         -530.46         301.82         0.73         301.10.96         307.18.07         0.73         301.10.96         307.18.07         0.73         301.10.96         307.18.07         0.73         301.10.96         107.18.07         107         812         25.33.7         V104         84.92.2           3000.00         2.44         137.55         3568.18         -346.24         -344.63         -344.64         -344.63         -344.62         -346.68         0.75         381292.76         65773.85         N<2	Cherry Canyon									381311.77			
3400.00         3.60         137.55         3356.95         -342.05         -346.46         -344.96         311.65         0.75         381202.47         557736.55         N 32         2 53.38         W104         849.15           3600.00         2.19         137.55         3558.68         -349.66         -349.61         207.75         381292.76         557736.55         N 32         2 53.38         W104         849.15           3800.00         0.69         137.55         3551.04         -353.30         -352.40         322.36         0.75         381289.04         557740.33         N 32         2 53.31         W104         849.13           3900.00         0.00         137.55         356.61         -353.80         -352.40         322.36         0.00         381286.3         557740.33         N 32         2 53.31         W104         849.11           4000.00         0.00         137.55         456.61         -353.80         -352.40         322.36         0.00         381286.3         557740.33         N 32         2 53.31         W104         849.11           400.00         0.00         137.55         4556.61         -353.80         -352.40         322.36         0.00         381288.63         557740.33	(CRCN)												
3500.00         2.94         137.55         3568.68         -346.34         -344.36         315.56         0.75         381296.07         557735.55         N         2         2         2         2         2         2         2         2         2         33.8         V1.0         849.15           300.00         1.44         137.55         356.61         -363.39         -361.91         321.98         0.75         381294.04         557738.55         N         2         2         2         2         2         33.31         V1.0         849.1           3000.00         0.00         137.55         356.61         -363.30         -352.40         322.36         0.00         381286.63         557740.33         N         2         2         2         33.31         V1.0         849.11           4000.00         0.00         137.55         456.61         -353.80         -352.40         322.36         0.00         381286.63         557740.33         N         2         2         33.31         V1.0         849.11           400.00         0.00         137.55         458.61         -353.80         -352.40         322.36         0.00         381288.63         557740.33         N													
3600.00         2.19         137.55         3588.68         -349.66         -348.27         316.88         0.75         38129.42         557738.57         N<32         253.35         W104         849.15           4hdl Vertical         3800.00         0.69         137.55         3758.61         -353.39         -351.99         322.96         0.75         381280.42         557738.07         N<32													
3700.00       1.44       137.55       3668.63       -352.10       -350.14       320.72       0.75       38129.42       577798.70       N 2       25.32       W 104       849.12         Hold Vertical       3892.43       0.00       137.55       3851.61       -353.39       -352.40       322.26       0.075       38128.63       557740.33       N 32       25.31       W 104       849.11         4000.00       0.00       137.55       3958.61       -353.80       -352.40       322.26       0.00       38128.63       557740.33       N 32       25.31       W 104       849.11         4000.00       0.00       137.55       4958.61       -353.80       -352.40       322.26       0.00       38128.63       557740.33       N 32       25.31       W 104       849.11         4300.00       0.00       137.55       4258.61       -353.80       -352.40       322.36       0.00       38128.63       557740.33       N 32       25.31       W 104       849.11         (Ex)       4300.00       0.00       137.55       4358.61       -353.80       -352.40       322.36       0.00       381286.63       557740.33       N 32       25.31       W 104       849.11         <													
3800.00         0.69         137.55         3768.61         -563.39         -351.99         321.98         0.75         38128.63         557740.33         N 32         25.31         W104         84.911           Hold Vertical         3900.00         0.00         137.55         3956.16         -353.80         -352.40         322.36         0.00         38128.63         557740.33         N 32         25.31         W104         84.911           4100.00         0.00         137.55         3956.61         -353.80         -352.40         322.36         0.00         38128.63         557740.33         N 32         25.31         W104         84.911           4200.00         0.00         137.55         4156.61         -353.80         -352.40         322.36         0.00         381286.63         557740.33         N 32         25.31         W104         84.911           4400.00         0.00         137.55         4395.51         -353.80         -352.40         322.36         0.00         381286.63         557740.33         N 32         25.31         W104         84.911           4400.00         0.00         137.55         4395.51         -353.80         -352.40         322.36         0.00         381286.3         <													
Hold Vertical         3892.43         0.00         137.55         3861.04         -353.80         -352.40         322.36         0.75         381286.83         557740.33         N         2         2 5.31         W10.4         8 49.11           4000 00         0.00         137.55         3856.61         -353.80         -352.40         322.36         0.00         381286.63         557740.33         N         32         2 5.31         W10.4         8 49.11           4000 00         0.00         137.55         4556.61         -353.80         -352.40         322.36         0.00         381286.63         557740.33         N         32         2 5.31         W10.4         8 49.11           4400.00         0.00         137.55         4256.61         -353.80         -352.40         322.36         0.00         381286.63         557740.33         N         32         2 5.31         W10         8 49.11           (G/M)         4430.00         0.00         137.55         4395.51         -353.40         -352.40         322.36         0.00         381286.63         557740.33         N         32         2 5.31         W10         8 49.11           (G/M)         4600.0         0.00         137.55         4													
3900.00         0.00         137.55         3858.61         -353.80         -352.40         322.36         0.00         381288.63         57740.33         N         32         25.31         W104         84.911           4100.00         0.00         137.55         3958.61         -353.80         -352.40         322.36         0.00         381288.63         557740.33         N         32         253.31         W104         84.911           4200.00         0.00         137.55         4158.61         -353.80         -352.40         322.36         0.00         381288.63         557740.33         N         32         253.31         W104         84.911           4300.00         0.00         137.55         4256.61         -353.80         -352.40         322.36         0.00         381288.63         557740.33         N         32         2 53.31         W104         84.911           (BCN)         4400.00         0.00         137.55         4565.61         -353.80         -352.40         322.36         0.00         381286.63         557740.33         N         32         2 53.31         W104         84.911           (BCN)         4400.00         0.00         137.55         4565.61         -353.80 <td></td>													
4000.00         0.00         137.55         398.61         -353.80         -352.40         322.36         0.00         38128.63         557740.33         N<32	Hold Vertical												
4100.00         0.00         137.55         4058.61         -353.80         -352.40         322.36         0.00         381288.63         557740.33         N         32         25.31         W104         84.911           4300.00         0.00         137.55         4258.61         -353.80         -352.40         322.36         0.00         381288.63         557740.33         N         32         25.31         W104         84.911           4400.00         0.00         137.55         4258.61         -353.80         -352.40         322.36         0.00         381288.63         557740.33         N         32         25.31         W104         84.911           Brushy Canyon         4436.90         0.00         137.55         4588.61         -353.80         -352.40         322.36         0.00         381288.63         557740.33         N         32         25.31         W104         84.911           4600.00         0.00         137.55         4588.61         -353.80         -352.40         322.36         0.00         381288.63         557740.33         N         32         25.31         W104         84.911           4700.00         0.00         137.55         4568.61         -353.80         -352.4													
4200.00         0.00         137.55         4158.61         -353.80         -352.40         322.36         0.00         381288.63         557740.33         N         32         25.31         W104         8 49.11           4400.00         0.00         137.55         4256.61         -353.80         -352.40         322.36         0.00         381288.63         557740.33         N         32         25.31         W104         8 49.11           Brushy Canyon         436.90         0.00         137.55         4456.61         -353.80         -352.40         322.36         0.00         381288.63         557740.33         N         32         2 53.31         W104         8 49.11           (BCN)         4500.00         0.00         137.55         4456.61         -353.80         -352.40         322.36         0.00         381288.63         557740.33         N         32         2 53.31         W104         8 49.11           (BCN)         0.00         137.55         4556.61         -353.80         -352.40         322.36         0.00         381288.63         557740.33         N         2         2 53.31         W104         8 49.11           4900.00         0.00         137.55         4556.61         -													
4300.00       0.00       137.55       4258.61       -353.80       -352.40       322.36       0.00       381286.63       557740.33       N       32       2 53.31       W 104       8 49.11         Brushy Canyon (BCN)       4400.00       0.00       137.55       4356.61       -353.80       -352.40       322.36       0.00       381286.63       557740.33       N       32       2 53.31       W 104       8 49.11         Brushy Canyon (BCN)       4460.00       0.00       137.55       4458.61       -353.80       -352.40       322.36       0.00       381286.63       557740.33       N       32       2 53.31       W 104       8 49.11         4500.00       0.00       137.55       4558.61       -353.80       -352.40       322.36       0.00       381286.63       557740.33       N       32       2 53.31       W 104       8 49.11         4700.00       0.00       137.55       4558.61       -353.80       -352.40       322.36       0.00       381286.63       557740.33       N       32       2 53.31       W 104       8 49.11         490.00       0.00       137.55       4558.61       -353.80       -352.40       322.36       0.00       381286.63       557740.33<													
4400.00       0.00       137.55       4358.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         Brushy Canyon       436.90       0.00       137.55       4458.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         (BCN)       4600.00       0.00       137.55       4458.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         (BCN)       4600.00       0.00       137.55       4558.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         4800.00       0.00       137.55       4558.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         500.00       0.00       137.55       5058.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33<													
Brushy Canyon (BCN)         4436.90         0.00         137.55         4395.51         -353.80         -352.40         322.36         0.00         381288.63         557740.33         N         32         2 53.31         W 104         8 49.11           4600.00         0.00         137.55         4458.61         -353.80         -352.40         322.36         0.00         381288.63         557740.33         N         32         2 53.31         W 104         8 49.11           4600.00         0.00         137.55         4558.61         -353.80         -352.40         322.36         0.00         381288.63         557740.33         N         32         2 53.31         W 104         8 49.11           4800.00         0.00         137.55         4758.61         -353.80         -352.40         322.36         0.00         381288.63         557740.33         N         32         2 53.31         W 104         8 49.11           4900.00         0.00         137.55         4958.61         -353.80         -352.40         322.36         0.00         381288.63         557740.33         N         32         2 53.31         W 104         8 49.11           500.00         0.00         137.55         5058.61         -353.8													
(BCN)         4436.90         0.00         137.55         4436.81         -353.80         -322.40         322.36         0.00         381286.3         557740.33         N         32         253.31         W 104         8 49.11           4500.00         0.00         137.55         4458.61         -353.80         -352.40         322.36         0.00         381288.63         557740.33         N         32         253.31         W 104         8 49.11           4700.00         0.00         137.55         4658.61         -353.80         -352.40         322.36         0.00         381288.63         557740.33         N         32         2 53.31         W 104         8 49.11           4800.00         0.00         137.55         4658.61         -353.80         -352.40         322.36         0.00         381288.63         557740.33         N         32         2 53.31         W 104         8 49.11           4900.00         0.00         137.55         4958.61         -353.80         -352.40         322.36         0.00         381288.63         557740.33         N         32         2 53.31         W 104         8 49.11           500.00         0.00         137.55         5058.61         -353.80 <t< td=""><td>Brushy Canyon</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Brushy Canyon												
4600.00       0.00       137.55       458.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       253.31       W 104       8 49.11         4700.00       0.00       137.55       4558.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       253.31       W 104       8 49.11         4800.00       0.00       137.55       4558.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       253.31       W 104       8 49.11         4900.00       0.00       137.55       4558.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5000.00       0.00       137.55       5058.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5200.00       0.00       137.55       5158.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31	(BCN)												
4700.00       0.00       137.55       4658.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       253.31       W104       8 49.11         4800.00       0.00       137.55       4758.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       253.31       W104       8 49.11         5000.00       0.00       137.55       458.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       253.31       W104       8 49.11         5000.00       0.00       137.55       4958.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W104       8 49.11         5000.00       0.00       137.55       5158.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W104       8 49.11         5000.00       0.00       137.55       5258.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W104<													
4800.00       0.00       137.55       4758.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5000.00       0.00       137.55       4858.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5000.00       0.00       137.55       4958.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5000.00       0.00       137.55       5058.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5000.00       0.00       137.55       5158.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5000.00       0.00       137.55       5458.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31													
4900.00       0.00       137.55       4858.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       253.31       W 104       8 49.11         5000.00       0.00       137.55       4958.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       253.31       W 104       8 49.11         5000.00       0.00       137.55       5058.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5200.00       0.00       137.55       5058.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5300.00       0.00       137.55       5258.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5400.00       0.00       137.55       5458.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>													
5000.00       0.00       137.55       4958.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5100.00       0.00       137.55       5058.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5200.00       0.00       137.55       5158.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5300.00       0.00       137.55       5158.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5400.00       0.00       137.55       5558.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5600.00       0.00       137.55       5458.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31													
5100.00       0.00       137.55       5058.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5200.00       0.00       137.55       5158.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5300.00       0.00       137.55       5258.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5400.00       0.00       137.55       5258.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5500.00       0.00       137.55       5458.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5600.00       0.00       137.55       5558.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31													
5200.00       0.00       137.55       5158.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5300.00       0.00       137.55       5258.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5400.00       0.00       137.55       5358.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5500.00       0.00       137.55       5458.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5600.00       0.00       137.55       5458.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5700.00       0.00       137.55       5658.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31													
5300.00       0.00       137.55       5258.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5400.00       0.00       137.55       5358.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5500.00       0.00       137.55       5458.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5600.00       0.00       137.55       5558.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5700.00       0.00       137.55       5658.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5800.00       0.00       137.55       5758.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31													
5400.00       0.00       137.55       5358.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5500.00       0.00       137.55       5458.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5600.00       0.00       137.55       5558.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5700.00       0.00       137.55       5658.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5800.00       0.00       137.55       5658.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5800.00       0.00       137.55       5858.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31													
5500.00       0.00       137.55       5458.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5600.00       0.00       137.55       5558.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5700.00       0.00       137.55       5558.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5700.00       0.00       137.55       5658.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5800.00       0.00       137.55       5758.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5900.00       0.00       137.55       5958.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31													
5600.00       0.00       137.55       5558.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5700.00       0.00       137.55       5658.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5800.00       0.00       137.55       5758.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5900.00       0.00       137.55       5758.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5900.00       0.00       137.55       5958.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         6000.00       0.00       137.55       5958.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31		5400.00			5358.61					381288.63			
5600.00       0.00       137.55       5558.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5700.00       0.00       137.55       5658.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5800.00       0.00       137.55       5758.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5900.00       0.00       137.55       5758.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5900.00       0.00       137.55       5958.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         6000.00       0.00       137.55       5958.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31		5500.00	0.00	137.55	5458.61	-353.80	-352.40	322.36	0.00	381288.63	557740.33	N 32 2 53.31	W 104 8 49.11
5700.00       0.00       137.55       5658.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5800.00       0.00       137.55       5758.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5900.00       0.00       137.55       5858.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         6000.00       0.00       137.55       5858.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         6000.00       0.00       137.55       5958.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         6100.00       0.00       137.55       6058.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31		5600.00	0.00	137.55	5558.61	-353.80	-352.40		0.00	381288.63	557740.33	N 32 2 53.31	W 104 8 49.11
5800.00       0.00       137.55       5758.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         5900.00       0.00       137.55       5858.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         6000.00       0.00       137.55       5958.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         6100.00       0.00       137.55       5958.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         6100.00       0.00       137.55       6058.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         Bone Spring Lime (BSGL)       6126.32       0.00       137.55       6084.93       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>													
5900.00       0.00       137.55       5858.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         6000.00       0.00       137.55       5958.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         6100.00       0.00       137.55       6058.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         Bone Spring Lime (BSGL)       6126.32       0.00       137.55       6084.93       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11													
6000.00       0.00       137.55       5958.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         6100.00       0.00       137.55       6058.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         Bone Spring Lime (BSGL)       6126.32       0.00       137.55       6084.93       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11													
6100.00       0.00       137.55       6058.61       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11         Bone Spring Lime (BSGL)       6126.32       0.00       137.55       6084.93       -353.80       -352.40       322.36       0.00       381288.63       557740.33       N       32       2 53.31       W 104       8 49.11													
Lime (BSGL) 0.00 137.55 6084.93 -353.80 -352.40 322.36 0.00 381288.63 557740.33 N 32 2 53.31 W 104 8 49.11													
	Bone Spring Lime (BSGL)	6126.32	0.00	137.55	6084.93	-353.80	-352.40	322.36	0.00	381288.63	557740.33	N 32 2 53.31	W 104 8 49.11
	(2002)	6200.00	0.00	137.55	6158.61	-353.80	-352.40	322.36	0.00	381288.63	557740.33	N 32 2 53.31	W 104 8 49.11

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Drilling Office 2.10.826.8

Schlumberger-Private

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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 ° ' ")
Avalon Upper (AVU)	6208.83	0.00	137.55	6167.44	-353.80	-352.40	322.36	0.00	381288.63	557740.33	N 32 253.31 V	V 104 8 49.11
	6300.00 6400.00	0.00 0.00	137.55 137.55	6258.61 6358.61	-353.80 -353.80	-352.40 -352.40	322.36 322.36	0.00 0.00	381288.63 381288.63		N 32 2 53.31 N N 32 2 53.31 N	
	6500.00	0.00	137.55	6458.61	-353.80	-352.40	322.36	0.00	381288.63		N 32 2 53.31 \	
Avalon Lower (AVL)	6599.06	0.00	137.55	6557.67	-353.80	-352.40	322.36	0.00	381288.63	557740.33	N 32 253.31 V	V 104 8 49.11
	6600.00 6700.00	0.00 0.00	137.55 137.55	6558.61 6658.61	-353.80 -353.80	-352.40 -352.40	322.36 322.36	0.00 0.00	381288.63 381288.63		N 32 2 53.31 N N 32 2 53.31 N	
	6800.00	0.00	137.55	6758.61	-353.80	-352.40	322.36	0.00	381288.63	557740.33	N 32 253.31 \	V 104 8 49.11
First Bone	6900.00 6987.70	0.00 <i>0.00</i>	137.55 <i>137.55</i>	6858.61 6946.31	-353.80 -353.80	-352.40 -352.40	322.36 322.36	0.00 <i>0.00</i>	381288.63 38 <i>1288.6</i> 3		N 32 253.31 V N 32 253.31 V	
Spring (FBS)	7000.00	0.00	137.55	6958.61	-353.80	-352.40	322.30	0.00	381288.63		N 32 2 53.31 V	
First Bone	7100.00	0.00	137.55	7058.61	-353.80	-352.40	322.36	0.00	381288.63		N 32 2 53.31 \	
Spring Shale (FBS_SH)	7162.22	0.00	137.55	7120.83	-353.80	-352.40	322.36	0.00	381288.63	557740.33	N 32 253.31 V	V 104 8 49.11
	7200.00	0.00	137.55	7158.61	-353.80	-352.40	322.36	0.00	381288.63		N 32 2 53.31 \	
Build 10°/100ft	7231.43 7300.00	0.00 6.86	137.55 358.96	7190.04 7258.44	-353.80 -349.71	-352.40 -348.30	322.36 322.29	0.00 10.00	381288.63 381292.73		N 32 2 53.31 N N 32 2 53.35 N	
Second Bone	7400.00	16.86	358.96	7356.19	-329.19	-327.79	321.91	10.00	381313.24	557739.88	N 32 253.55 \	V 104 8 49.11
Spring Upper	7485.23	25.38	358.96	7435.62	-298.51	-297.11	321.35	10.00	381343.92	557739.32	N 32 253.85 V	V 104 8 49.12
(SBU)	7500.00	26.86	358.96	7448.88	-292.01	-290.61	321.23	10.00	381350.42		N 32 2 53.92 \	
	7600.00 7700.00	36.86 46.86	358.96 358.96	7533.71 7608.10	-239.30 -172.67	-237.91 -171.28	320.28 319.06	10.00 10.00	381403.11 381469.74		N 32 2 54.44 N N 32 2 55.10 N	
	7800.00 7900.00	56.86 66.86	358.96 358.96	7669.78 7716.89	-94.13 -6.07	-92.74 -4.69	317.63 316.03	10.00 10.00	381548.27 381636.31		N 32 2 55.87 N 32 2 56.75 N	
	8000.00	76.86	358.96	7747.99	88.83	90.20	314.30	10.00	381731.19	557732.27	N 32 2 57.69 \	V 104 8 49.19
Landing Point	8100.00 8131.00	86.86 89.96	358.96 358.96	7762.14 7763.00	187.69 218.66	189.05 220.03	312.50 311.94	10.00 10.00	381830.03 381861.01	557729.91	N 32 2 58.66 N N 32 2 58.97 N	V 104 8 49.22
FTP Cross	8181.00 8200.00	89.96 89.96	358.96 358.96	7763.04 7763.05	268.66 287.66	270.02 289.02	<i>311.0</i> 3 310.68	<i>0.00</i> 0.00	38 <i>1911.00</i> 381929.99		N 32 259.46 V N 32 259.65 V	
	8300.00	89.96	358.96	7763.13	387.65	389.00	308.86	0.00	382029.97	557726.83	N 32 3 0.64 \	V 104 8 49.25
	8400.00 8500.00	89.96 89.96	358.96 358.96	7763.20 7763.28	487.64 587.63	488.99 588.97	307.04 305.22	0.00 0.00	382129.94 382229.92		N 32 3 1.63 \ N 32 3 2.62 \	
	8600.00 8700.00	89.96 89.96	358.96 358.96	7763.35 7763.43	687.62 787.61	688.95 788.94	303.40 301.58	0.00 0.00	382329.89 382429.87		N 32 3 3.61 N N 32 3 4.60 N	
	8800.00	89.96	358.96	7763.51	887.60	888.92	299.76	0.00	382529.84	557717.73	N 32 3 5.59 \	V 104 8 49.34
	8900.00 9000.00	89.96 89.96	358.96 358.96	7763.58 7763.66	987.59 1087.58	988.90 1088.89	297.94 296.12	0.00 0.00	382629.81 382729.79	557714.09	N 32 3 6.58 \ N 32 3 7.57 \	V 104 8 49.38
	9100.00 9200.00	89.96 89.96	358.96 358.96	7763.73 7763.81	1187.57 1287.56	1188.87 1288.85	294.29 292.47	0.00 0.00	382829.76 382929.74		N 32 3 8.56 \ N 32 3 9.55 \	
	9300.00	89.96	358.96	7763.89	1387.55	1388.84	290.65	0.00	383029.71	557708.63	N 32 3 10.54 \	V 104 8 49.44
	9400.00 9500.00	89.96 89.96	358.96 358.96	7763.96 7764.04	1487.55 1587.54	1488.82 1588.80	288.83 287.01	0.00 0.00	383129.69 383229.66	557704.99	N 32 3 11.53 N N 32 3 12.52 N	V 104 8 49.48
	9600.00 9700.00	89.96 89.96	358.96 358.96	7764.11 7764.19	1687.53 1787.52	1688.79 1788.77	285.19 283.37	0.00 0.00	383329.64 383429.61		N 32 3 13.51 N N 32 3 14.49 N	
	9800.00 9900.00	89.96 89.96	358.96 358.96	7764.27 7764.34	1887.51 1987.50	1888.75 1988.74	281.55 279.73	0.00 0.00	383529.58 383629.56		N 32 3 15.48 N 32 3 16.47 N	
	10000.00	89.96	358.96	7764.42	2087.49	2088.72	277.91	0.00	383729.53	557695.88	N 32 3 17.46 \	V 104 8 49.57
	10100.00 10200.00	89.96 89.96	358.96 358.96	7764.49 7764.57	2187.48 2287.47	2188.70 2288.69	276.09 274.27	0.00 0.00	383829.51 383929.48		N 32 3 18.45 N N 32 3 19.44 N	
	10300.00 10400.00	89.96 89.96	358.96 358.96	7764.65 7764.72	2387.46 2487.45	2388.67 2488.65	272.45 270.63	0.00 0.00	384029.46 384129.43		N 32 3 20.43 N N 32 3 21.42 N	
	10500.00	89.96	358.96	7764.80	2587.44	2588.64	268.81	0.00	384229.41	557686.78	N 32 3 22.41 \	V 104 8 49.67
	10600.00 10700.00	89.96 89.96	358.96 358.96	7764.87 7764.95	2687.43 2787.42	2688.62 2788.60	266.98 265.16	0.00 0.00	384329.38 384429.36	557683.14	N 32 3 23.40 V N 32 3 24.39 V	V 104 8 49.71
	10800.00 10900.00	89.96 89.96	358.96 358.96	7765.03 7765.10	2887.41 2987.40	2888.59 2988.57	263.34 261.52	0.00 0.00	384529.33 384629.30		N 32 3 25.38 N N 32 3 26.37 N	
	11000.00 11100.00	89.96 89.96	358.96 358.96	7765.18 7765.25	3087.39 3187.38	3088.55 3188.54	259.70 257.88	0.00 0.00	384729.28 384829.25		N 32 3 27.36 N 32 3 28.35 N	
	11200.00	89.96	358.96	7765.33	3287.37	3288.52	256.06	0.00	384929.23	557674.04	N 32 3 29.34 \	V 104 8 49.80
	11300.00 11400.00	89.96 89.96	358.96 358.96	7765.41 7765.48	3387.36 3487.35	3388.50 3488.49	254.24 252.42	0.00 0.00	385029.20 385129.18		N 32 3 30.33 N N 32 3 31.31 N	
	11500.00 11600.00	89.96 89.96	358.96 358.96	7765.56 7765.63	3587.34 3687.33	3588.47 3688.45	250.60 248.78	0.00 0.00	385229.15 385329.13		N 32 3 32.30 N N 32 3 33.29 N	
	11700.00	89.96	358.96	7765.71	3787.32	3788.44	246.96	0.00	385429.10	557664.94	N 32 3 34.28 \	V 104 8 49.90
	11800.00 11900.00	89.96 89.96	358.96 358.96	7765.78 7765.86	3887.31 3987.30	3888.42 3988.40	245.14 243.32	0.00 0.00	385529.07 385629.05	557661.29	N 32 3 35.27 N N 32 3 36.26 N	V 104 8 49.94
	12000.00 12100.00	89.96 89.96	358.96 358.96	7765.94 7766.01	4087.30 4187.29	4088.39 4188.37	241.50 239.68	0.00 0.00	385729.02 385829.00		N 32 3 37.25 N N 32 3 38.24 N	
	12200.00 12300.00	89.96	358.96	7766.09 7766.16	4287.28 4387.27	4288.35	237.85 236.03	0.00 0.00	385928.97 386028.95	557655.83	N 32 3 39.23 V N 32 3 40.22 V	V 104 8 49.99
	12400.00	89.96 89.96	358.96 358.96	7766.24	4487.26	4388.34 4488.32	234.21	0.00	386128.92	557652.19	N 32 3 41.21 \	V 104 8 50.03
	12500.00 12600.00	89.96 89.96	358.96 358.96	7766.32 7766.39	4587.25 4687.24	4588.30 4688.29	232.39 230.57	0.00 0.00	386228.90 386328.87		N 32 3 42.20 N N 32 3 43.19 N	
	12700.00 12800.00	89.96 89.96	358.96 358.96	7766.47 7766.54	4787.23 4887.22	4788.27 4888.26	228.75 226.93	0.00 0.00	386428.84 386528.82		N 32 3 44.18 N 32 3 45.17 N	
	12900.00	89.96	358.96	7766.62	4987.21	4988.24	225.11	0.00	386628.79	557643.09	N 32 346.16 \	V 104 8 50.13
	13000.00 13100.00	89.96 89.96	358.96 358.96	7766.70 7766.77	5087.20 5187.19	5088.22 5188.21	223.29 221.47	0.00 0.00	386728.77 386828.74		N 32 3 47.15 N N 32 3 48.14 N	
	13200.00 13300.00	89.96 89.96	358.96 358.96	7766.85 7766.92	5287.18 5387.17	5288.19 5388.17	219.65 217.83	0.00 0.00	386928.72 387028.69		N 32 3 49.12 N N 32 3 50.11 N	
MP, Turn	13399.33	89.96	358.96	7767.00	5486.49	5487.49	216.02	0.00	387128.00		N 32 3 51.10 \	
2°/100ft	13400.00	89.96	358.97	7767.00	5487.16	5488.16	216.01	2.00	387128.67		N 32 3 51.10 \	
Hold	13478.61 13500.00	89.96 89.96	0.54 0.54	7767.06 7767.08	5565.77 5587.16	5566.76 5588.15	215.67 215.88	2.00 0.00	387207.27 387228.65		N 32 3 51.88 N 32 3 52.09	
	13600.00	89.96	0.54	7767.15	5687.15	5688.15	216.82	0.00	387328.64	557634.80	N 32 3 53.08 \	V 104 8 50.21
	13700.00 13800.00	89.96 89.96	0.54 0.54	7767.23 7767.30	5787.14 5887.13	5788.14 5888.14	217.77 218.72	0.00 0.00	387428.63 387528.61	557636.70	N 32 3 54.07 N N 32 3 55.06 N	V 104 8 50.18
	13900.00 14000.00	89.96 89.96	0.54 0.54	7767.38 7767.45	5987.12 6087.11	5988.13 6088.13	219.66 220.61	0.00 0.00	387628.60 387728.59		N 32 3 56.05 N N 32 3 57.04 N	
	14100.00 14200.00	89.96 89.96	0.54 0.54	7767.53 7767.61	6187.10 6287.09	6188.12 6288.12	221.55 222.50	0.00 0.00	387828.57 387928.56	557639.54	N 32 3 58.03 V N 32 3 59.02 V	V 104 8 50.15
	14300.00	89.96	0.54	7767.68	6387.08	6388.12	223.45	0.00	388028.55	557641.43	N 32 4 0.01 \	V 104 8 50.12
	14400.00 14500.00	89.96 89.96	0.54 0.54	7767.76 7767.83	6487.07 6587.06	6488.11 6588.11	224.39 225.34	0.00 0.00	388128.53 388228.52		N 32 4 1.00 N N 32 4 1.99 N	
	14600.00 14700.00	89.96 89.96	0.54 0.54	7767.91 7767.98	6687.05 6787.04	6688.10 6788.10	226.29 227.23	0.00 0.00	388328.51 388428.49	557644.27	N 32 4 2.98 V N 32 4 3.97 V	V 104 8 50.08
	14800.00	89.96	0.54	7768.06	6887.03	6888.09	228.18	0.00	388528.48	557646.16	N 32 4 4.96 \	V 104 8 50.05
	14900.00 15000.00	89.96 89.96	0.54 0.54	7768.13 7768.21	6987.02 7087.01	6988.09 7088.08	229.13 230.07	0.00 0.00	388628.47 388728.45	557648.05	N 32 4 5.95 \ N 32 4 6.94 \	V 104 8 50.03
	15100.00 15200.00	89.96 89.96	0.54 0.54	7768.29 7768.36	7187.00 7286.99	7188.08 7288.07	231.02 231.97	0.00 0.00	388828.44 388928.42		N 32 4 7.93 \ N 32 4 8.91 \	
	15300.00	89.96	0.54	7768.44	7386.98	7388.07	232.91	0.00	389028.41		N 32 4 9.90 \	

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Commonto	MD	Incl	Azim Grid	TVD	VSEC	NS	EW	DLS	Northing	Easting	Latitude	Longitude
Comments	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(ftUS)	(ftUS)	(N/S ° ' ")	(E/W ° ' ")
	15400.00	89.96	0.54	7768.51	7486.97	7488.07	233.86	0.00	389128.40		N 32 410.89 V	
	15500.00	89.96	0.54	7768.59	7586.96	7588.06	234.81	0.00	389228.38		N 32 411.88 V	
	15600.00	89.96	0.54	7768.66	7686.95	7688.06	235.75	0.00	389328.37		N 32 412.87 V	
	15700.00	89.96	0.54	7768.74	7786.95	7788.05	236.70	0.00	389428.36		N 32 413.86 V	
	15800.00	89.96	0.54	7768.81	7886.94	7888.05	237.65	0.00	389528.34		N 32 414.85 V	
	15900.00	89.96	0.54	7768.89	7986.93	7988.04	238.59	0.00	389628.33		N 32 4 15.84 V	
	16000.00	89.96	0.54	7768.97	8086.92	8088.04	239.54	0.00	389728.32		N 32 416.83 V	
	16100.00	89.96	0.54	7769.04	8186.91	8188.03	240.49	0.00	389828.30		N 32 417.82 V	
	16200.00	89.96	0.54	7769.12	8286.90	8288.03	241.43	0.00	389928.29		N 32 418.81 V	
	16300.00	89.96	0.54	7769.19	8386.89	8388.02	242.38	0.00	390028.28		N 32 419.80 V	
	16400.00	89.96	0.54	7769.27	8486.88	8488.02	243.33	0.00	390128.26		N 32 420.79 V	
	16500.00	89.96	0.54	7769.34	8586.87	8588.02	244.27	0.00	390228.25		N 32 421.78 V	
	16600.00	89.96	0.54	7769.42	8686.86	8688.01	245.22	0.00	390328.24		N 32 422.77 V	
	16700.00	89.96	0.54	7769.49	8786.85	8788.01	246.17	0.00	390428.22		N 32 423.76 V	
	16800.00	89.96	0.54	7769.57	8886.84	8888.00	247.11	0.00	390528.21		N 32 424.75 V	
	16900.00	89.96	0.54	7769.65	8986.83	8988.00	248.06	0.00	390628.20	557666.04	N 32 425.74 V	V 104 8 49.78
	17000.00	89.96	0.54	7769.72	9086.82	9087.99	249.01	0.00	390728.18		N 32 426.73 V	
	17100.00	89.96	0.54	7769.80	9186.81	9187.99	249.95	0.00	390828.17	557667.93 N	N 32 427.72 V	V 104 8 49.76
	17200.00	89.96	0.54	7769.87	9286.80	9287.98	250.90	0.00	390928.16	557668.88	N 32 428.70 V	V 104 8 49.74
	17300.00	89.96	0.54	7769.95	9386.79	9387.98	251.85	0.00	391028.14		N 32 429.69 V	
	17400.00	89.96	0.54	7770.02	9486.78	9487.98	252.79	0.00	391128.13	557670.77	N 32 430.68 V	V 104 8 49.72
	17500.00	89.96	0.54	7770.10	9586.77	9587.97	253.74	0.00	391228.12		N 32 431.67 V	
	17600.00	89.96	0.54	7770.17	9686.76	9687.97	254.69	0.00	391328.10		N 32 432.66 V	
	17700.00	89.96	0.54	7770.25	9786.75	9787.96	255.63	0.00	391428.09	557673.61	N 32 433.65 V	V 104 8 49.68
	17800.00	89.96	0.54	7770.33	9886.74	9887.96	256.58	0.00	391528.08		N 32 434.64 V	
	17900.00	89.96	0.54	7770.40	9986.73	9987.95	257.53	0.00	391628.06	557675.50	N 32 435.63 V	V 104 8 49.65
	18000.00	89.96	0.54	7770.48	10086.72	10087.95	258.47	0.00	391728.05	557676.45	N 32 436.62 V	V 104 8 49.64
	18100.00	89.96	0.54	7770.55	10186.71	10187.94	259.42	0.00	391828.04	557677.40	N 32 437.61 V	V 104 8 49.63
	18200.00	89.96	0.54	7770.63	10286.71	10287.94	260.37	0.00	391928.02	557678.34	N 32 438.60 V	V 104 8 49.61
	18300.00	89.96	0.54	7770.70	10386.70	10387.93	261.31	0.00	392028.01	557679.29	N 32 439.59 V	V 104 8 49.60
	18400.00	89.96	0.54	7770.78	10486.69	10487.93	262.26	0.00	392128.00	557680.24	N 32 440.58 V	V 104 8 49.59
	18500.00	89.96	0.54	7770.85	10586.68	10587.93	263.21	0.00	392227.98	557681.18	N 32 441.57 V	V 104 8 49.57
	18600.00	89.96	0.54	7770.93	10686.67	10687.92	264.15	0.00	392327.97	557682.13 N	N 32 442.56 V	V 104 8 49.56
LTP Cross	18617.03	89.96	0.54	7770.94	10703.70	10704.95	264.31	0.00	392345.00	557682.29 N	I 32 442.73 V	V 104 8 49.56
Macallan 12 1												
Fed St Com 23	18692.04	89.96	0.54	7771.00	10778.70	10779.96	265.02	0.00	392420.00	557683.00 N	N 32 443.47 V	V 104 8 49.55
2H - BHL												

Survey Type:

Def Plan

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

Survey Program: Expected Max Hole Size Casing Diameter MD From MD To EOU Freq Borehole / Survey Description Part Inclination Survey Tool Type (ft) (ft) (in) (in) (ft) (deg) Macallan 12 1 Fed St Com 23 2H B001Mb\_MWD+HRGM-Depth / Macallan 12 1 Fed St Com 23 0.000 28.000 1/100.000 30.000 30.000 1 Only 2H R0 mdv 18Aug21 Macallan 12 1 Fed St Com 23 2H B001Mb\_MWD+HRGM 1 28.000 18692.044 1/100.000 30.000 30.000 / Macallan 12 1 Fed St Com 23

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**Released to Imaging: 6/8/2022 10:18:53 AM** 

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	Chevron USA Incorporated
LEASE NO.:	NMNM
LOCATION:	Section 13, T.26 S., R.27 E., NMPM
COUNTY:	Eddy County, New Mexico

WELL NAME & NO.:	MCALLAN 12 1 FED ST COM 23 1H
SURFACE HOLE FOOTAGE:	170'/N & 1152'/W
<b>BOTTOM HOLE FOOTAGE</b>	25'/N & 330'/W

WELL NAME & NO.:	MCALLAN 12 1 FED ST COM 23 2H
SURFACE HOLE FOOTAGE:	170'/N & 1172'/W
<b>BOTTOM HOLE FOOTAGE</b>	25'/N & 1485'/W

### COA

H2S	C Yes	🖸 No	
Potash	None	C Secretary	C R-111-P
Cave/Karst Potential	C Low	C Medium	💽 High
Cave/Karst Potential	Critical		
Variance	C None	• Flex Hose	C Other
Wellhead	C Conventional	C Multibowl	Soth
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 **550** 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  $\underline{8}$ <u>hours</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 **9-5/8** inch intermediate casing shall be set at approximately **2352** feet. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

#### **Option 1 (Single Stage):**

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

### **Option 2:**

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

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
  - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
     Wait on cement (WOC) time for a primary cement job is to include
- In <u>High Cave/Karst 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  $2^{nd}$  intermediate casing is:

the lead cement slurry due to cave/karst or potash.

### **Option 1 (Single Stage):**

• Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

### **Option 2:**

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

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
  - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
- 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>

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

- BOPE Break Testing is ONLY permitted for 5M BOPE or less.
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required.
- The BLM is to be contacted (**575-361-2822 Eddy County**) 4 hours prior to BOPE tests.

Page 4 of 10

- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.

Approval Date: 06/03/2022

## **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 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

### A. CASING

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

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.

#### 2 10:18:53 AM Approval Date: 06/03/2022

### C. DRILLING MUD

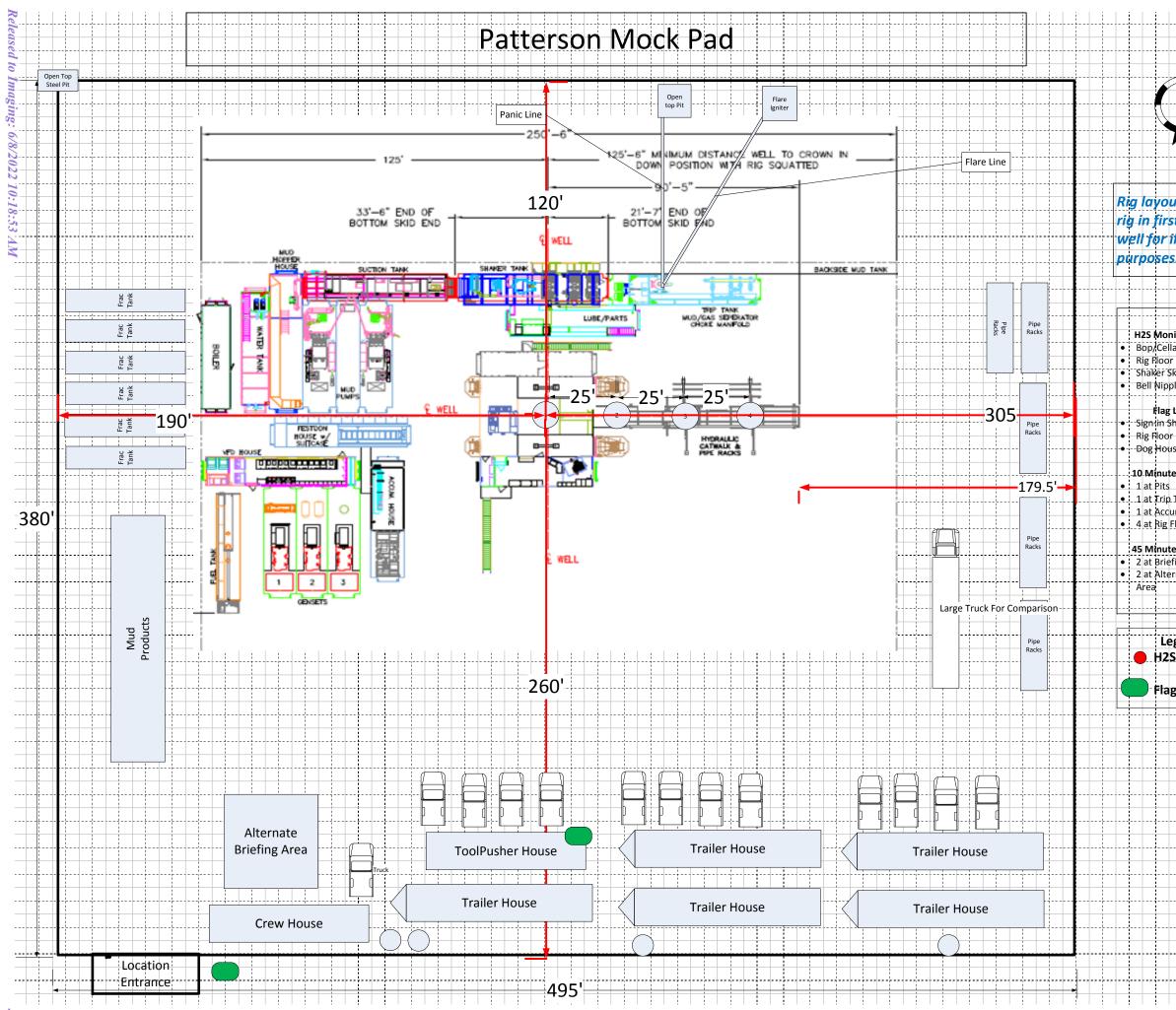
Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

#### 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.

NMK2-23-2022



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

APD ID: 10400080302

Operator Name: CHEVRON USA INCORPORATED

Well Name: MACALLAN 12 1 FED ST COM 23

Well Type: OIL WELL

Well Number: 2H Well Work Type: Drill

Submission Date: 09/28/2021

Highlighted data reflects the most recent changes

06/06/2022

Drilling Plan Data Report

Show Final Text

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

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
6982542	SALADO	3181	0	0	ANHYDRITĒ, SALT	NONE	N
6982554	CASTILE	2581	600	600	ANHYDRITE, SALT	NONE	N
6982544	LAMAR	896	2285	2300	LIMESTONE, SHALE	NONE	N
6982545	BELL CANYON	837	2344	2404	LIMESTONE, SANDSTONE	NONE	N
6982546	CHERRY CANYON	38	3143	3212	LIMESTONE, SANDSTONE, SILTSTONE	NONE	N
6982547	BRUSHY CANYON	-1187	4368	4437	LIMESTONE, SANDSTONE, SHALE	NONE	N
6982548	BONE SPRING LIME	-2876	6057	6126	SHALE, SILTSTONE	NONE	N
6982549	AVALON SAND	-2958	6139	6209	SHALE	NONE	N
6982551	BONE SPRING 1ST	-3737	6918	6988	SANDSTONE, SHALE	NATURAL GAS, OIL	N
6982553	BONE SPRING 2ND	-4227	7408	7485	SANDSTONE, SHALE	NATURAL GAS, OIL	Y
6982557	BONE SPRING	-4706	7887	18617	SANDSTONE, SHALE	NATURAL GAS, OIL	N

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

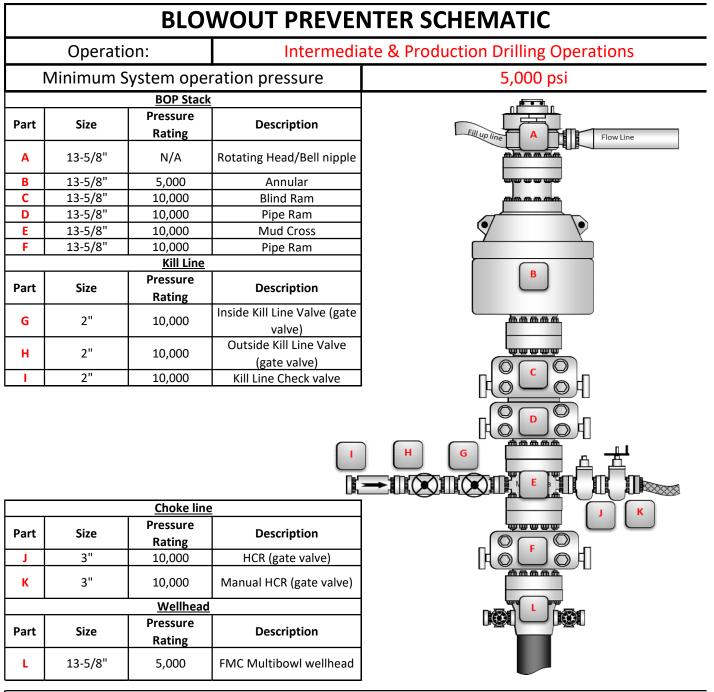
#### Pressure Rating (PSI): 5M

Rating Depth: 7763

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

#### Requesting Variance? YES

**Variance request:** Chevron respectfully request to vary from the Onshore Order 2 where it states: "(A full BOP Test) shall be performed: when initially installed and whenever any seal subject to test pressure is broken." We propose to break test if able to finish the next hole section within 21 days of the previous full



**BOP Installation Checklist:** The following items must be verified and checked off prior to pressure testing BOP equipment

The installed BOP equipment meets at least the minimum requirements (rating, type, size, configuration) as shown on this schematic. Components may be substituted for equivalent equipment rated to higher pressures. Additional components may be put into place as long as they meet or exceed the minimum pressure rating of the system.

All valves on the kill line and choke line will be full opening and will allow straight flow through.

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

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

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

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

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

District III

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

District IV

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

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

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Action 114366

CONDITIONS

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	114366
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

#### CONDITIONS

CONDITION	-	
Created By	Condition	Condition Date
kpickford	Notify OCD 24 hours prior to casing & cement	6/8/2022
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	6/8/2022
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	6/8/2022
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	6/8/2022
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	6/8/2022