Form 3160-3
(June 2015)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
NMNM126490

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☑ DRILL ☐ REENTER

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

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

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

8. Lease Name and Well No.
DL 10 3 KRAKEN FED COM
[331068]
209H

2. Name of Operator
CHEVRON USA INCORPORATED [4323]

9. API Well No.
30-025-49080

3a. Address
PO BOX 2100, DENVER, CO 80201-2100

3b. Phone No. *(include area code)*
(303) 793-4602

10. Field and Pool, or Exploratory
[97846]
RED TANK/BONE SPRING EAST

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface SESW / 370 FSL / 1840 FWL / LAT 32.400054 / LONG -103.562902
At proposed prod. zone NENW / 25 FNL / 2178 FWL / LAT 32.428018 / LONG -103.56181

11. Sec., T. R. M. or Blk. and Survey or Area
SEC 10/T22S/R33E/NMP

14. Distance in miles and direction from nearest town or post office*
29 miles

12. County or Parish
LEA

13. State
NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
370 feet

16. No of acres in lease

17. Spacing Unit dedicated to this well
640.0

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.
1015 feet

19. Proposed Depth
9414 feet / 20460 feet

20. BLM/BIA Bond No. in file
FED: ES0022

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3557 feet

22. Approximate date work will start*
12/31/2020

23. Estimated duration
130 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

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

25. Signature
(Electronic Submission)

Name *(Printed/Typed)*
LAURA BECERRA / Ph: (432) 687-7866

Date
05/25/2020

Title
Permitting Specialist

Approved by *(Signature)*
(Electronic Submission)

Name *(Printed/Typed)*
Cody Layton / Ph: (575) 234-5959

Date
04/02/2021

Title
Assistant Field Manager Lands & Minerals

Office
Carlsbad Field Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

GCP Rec 05/11/2021

KZ
06/23/2021

SL

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 04/02/2021

INSTRUCTIONS

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

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

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

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

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

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

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

NOTICES

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

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

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

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

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

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

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

(Continued on page 3)

Approval Date: 04/02/2021

Additional Operator Remarks

Location of Well

0. SHL: SESW / 370 FSL / 1840 FWL / TWSP: 22S / RANGE: 33E / SECTION: 10 / LAT: 32.400054 / LONG: -103.562902 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 365 FNL / 2178 FWL / TWSP: 22S / RANGE: 33E / SECTION: 10 / LAT: 32.412554 / LONG: -103.561806 (TVD: 9414 feet, MD: 9939 feet)

PPP: SENW / 1505 FNL / 2178 FWL / TWSP: 22S / RANGE: 33E / SECTION: 10 / LAT: 32.40943 / LONG: -103.561806 (TVD: 9414 feet, MD: 9939 feet)

PPP: SESW / 25 FSL / 2178 FWL / TWSP: 22S / RANGE: 33E / SECTION: 10 / LAT: 32.399104 / LONG: -103.561806 (TVD: 9414 feet, MD: 9939 feet)

BHL: NENW / 25 FNL / 2178 FWL / TWSP: 22S / RANGE: 33E / SECTION: 3 / LAT: 32.428018 / LONG: -103.56181 (TVD: 9414 feet, MD: 20460 feet)

BLM Point of Contact

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

Review and Appeal Rights

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

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-025-49080	97846	WC-025 G-06 S223322J;BONE SPRING

[4] Property Code	[5] Property Name	[6] Well Number
331068	DL 10 3 KRAKEN FED COM	209H

[7] OGRID No.	[8] Operator Name	[9] Elevation
4323	CHEVRON U.S.A. INC.	3557'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	10	22 SOUTH	33 EAST, N.M.P.M.		370'	SOUTH	1840'	WEST	LEA

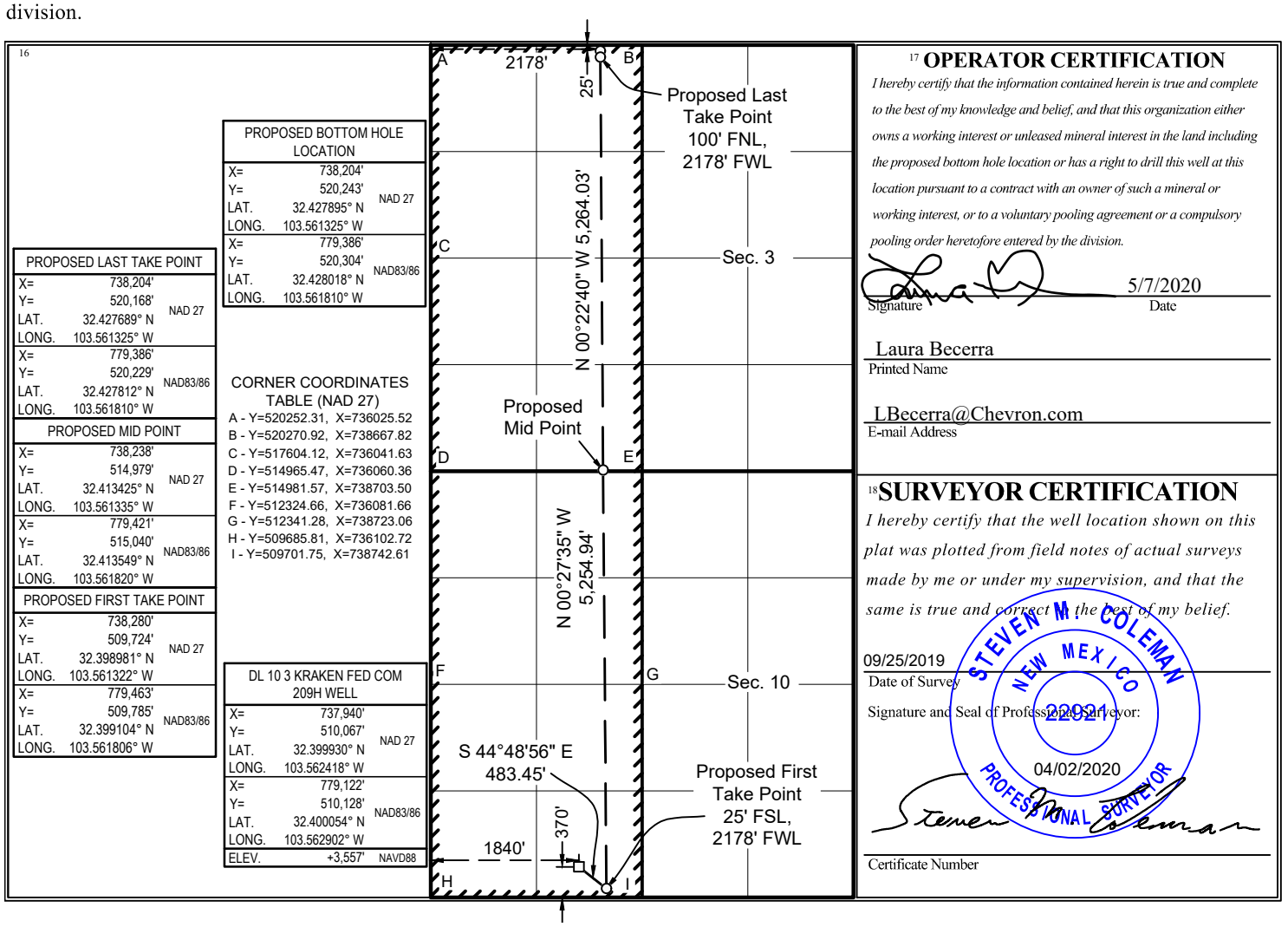
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	3	22 SOUTH	33 EAST, N.M.P.M.		25'	NORTH	2178'	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
640			

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

16



PROPOSED LAST TAKE POINT		
X=	738,204'	NAD 27
Y=	520,168'	
LAT.	32.427689° N	
LONG.	103.561325° W	
X=	779,386'	NAD83/86
Y=	520,229'	
LAT.	32.427812° N	
LONG.	103.561810° W	

PROPOSED MID POINT		
X=	738,238'	NAD 27
Y=	514,979'	
LAT.	32.413425° N	
LONG.	103.561335° W	
X=	779,421'	NAD83/86
Y=	515,040'	
LAT.	32.413549° N	
LONG.	103.561820° W	

PROPOSED FIRST TAKE POINT		
X=	738,280'	NAD 27
Y=	509,724'	
LAT.	32.398981° N	
LONG.	103.561322° W	
X=	779,463'	NAD83/86
Y=	509,785'	
LAT.	32.399104° N	
LONG.	103.561806° W	

PROPOSED BOTTOM HOLE LOCATION		
X=	738,204'	NAD 27
Y=	520,243'	
LAT.	32.427895° N	
LONG.	103.561325° W	
X=	779,386'	NAD83/86
Y=	520,304'	
LAT.	32.428018° N	
LONG.	103.561810° W	

CORNER COORDINATES TABLE (NAD 27)
A - Y=520252.31, X=736025.52
B - Y=520270.92, X=738667.82
C - Y=517604.12, X=736041.63
D - Y=514965.47, X=736060.36
E - Y=514981.57, X=738703.50
F - Y=512324.66, X=736081.66
G - Y=512341.28, X=738723.06
H - Y=509685.81, X=736102.72
I - Y=509701.75, X=738742.61

DL 10 3 KRAKEN FED COM 209H WELL		
X=	737,940'	NAD 27
Y=	510,067'	
LAT.	32.399930° N	
LONG.	103.562418° W	
X=	779,122'	NAD83/86
Y=	510,128'	
LAT.	32.400054° N	
LONG.	103.562902° W	
ELEV.	+3,557'	NAVD88

[17] OPERATOR CERTIFICATION

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

Signature 5/7/2020 Date

Laura Becerra
Printed Name

LBecerra@Chevron.com
E-mail Address

[18] SURVEYOR CERTIFICATION

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

09/25/2019
Date of Survey

Signature and Seal of Professional Surveyor: STEVEN M. COLEMAN NEW MEXICO 22032 PROFESSIONAL SURVEYOR

04/02/2020

Certificate Number

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

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

Submit Original to Appropriate District Office

GAS CAPTURE PLAN

X Original Operator & OGRID No.: CHEVRON U S A INC 4323
☐ Amended Date: 02/10/2020
Reason for Amendment:

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

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

Well(s)/Production Facility – DAGGER LAKE CTB 4

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

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
DL 10 3 KRAKEN FED COM 207H	Pending	UL:O, SEC 4, T22S-R33E	264' FSL, 1347' FEL	4,135	0	
DL 10 3 KRAKEN FED COM 208H	Pending	UL:P, SEC 4, T22S-R33E	264' FSL, 1297' FEL	4,135	0	
DL 10 3 KRAKEN FED COM 209H **30-025-49080**	Pending	UL:P, SEC 4, T22S-R33E	264' FSL, 1247' FEL	4,135	0	

Gathering System and Pipeline Notification
These wells will first flow to a satellite facility located in S10, T22S-R33E for well testing purposes, the produced fluid and gas will then be sent to Chevron's Dagger Lake CTB #4 production facility and compressor station located in Sec 4, T22S-R33E, Lea County, New Mexico during flowback and production. MarkWest will provide takeaway for the gas produced from the production facility.

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

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

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

- NGL Removal – On lease and trucked from condensate tanks
  - Plants are expensive and uneconomical to operate when gas volume declines.
  - Any residue gas that results in the future may be flared.

ONSHORE ORDER NO. 1
Chevron USA Inc
DL 10 3 Kraken FED COM 209H
Lea County, NM

CONFIDENTIAL -- TIGHT HOLE
DRILLING PLAN
PAGE: 1

Pad Summary

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

Well Name(s)	Target TVD	Formation Desc.
DL 10 3 Kraken FED COM 207H	9,500	Avalon
DL 10 3 Kraken FED COM 208H	9,496	Avalon
DL 10 3 Kraken FED COM 209H	9,494	Avalon

1. **FORMATION TOPS**

The estimated tops of important geologic markers are as follows:
Elevation: 3558 ft

FORMATION	SUB-SEA TVD	TVD	MD	LITHOLOGIES	MIN. RESOURCES	PROD. FORMATION
Rustler	2260	1,298	1,298	DOLOMITE	N/A	
Castile	183	3,375	3,375	SALT/ANYDRITE	N/A	
Capitan Reef	-309	3,867	3,867	LIMESTONE	N/A	
Lamar	-1311	4,869	4,869	LIMESTONE	N/A	
Bell Canyon	-1429	4,987	4,987	SAND STONE	N/A	
Cherry Canyon	-2241	5,799	5,799	SAND STONE	N/A	
Brushy Canyon	-3494	7,052	7,052	SAND STONE	N/A	
Bone Spring	-5274	8,832	8,940	SHALE/LIMESTONE	Oil	
Upper Avalon	-5912	9,470	9,600	SHALE	Oil	
Upper Avalon Target 1	-5949	9,507	20,459	SHALE	Oil	

WELLBORE LOCATIONS	SUB-SEA TVD	RKB TVD	MD
SHL	3558	-	-
KOP	-5357	8,915	9,030
FTP	-5936	9,494	9,939
LTP	-5856	9,414	20,384

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

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

Substance	Formation	Depth
Deepest Expected Base of Fresh Water		900
Water	Cherry Canyon	4,987
Oil/Gas	Brushy Canyon	5,799
Oil/Gas	Avalon	8,832

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

3. **BOP EQUIPMENT**

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

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.

4. **CASING PROGRAM**

Proposed	Hole Size	Casing Size	Top (MD)	Btm (MD)	Top (TVD)	Btm (TVD)	*Top (SSTVD)*	*Btm (SSTVD)*	Grade	Weight	Joint type
Surface	16"	13-3/8"	0'	1,300'	0'	1,300'	3,558'	2,258'	J-55	54.5 #	BTC
Intermediate	12-1/4"	9-5/8"	0'	4,865'	0'	4,865'	3,558'	-1,307'	L80IC	40.0 #	LTC
Production	8-1/2"	5-1/2"	0'	20,459'	0'	9,520'	3,558'	-5,962'	P110	20.0 #	TXP-BTC

b. **Casing design subject to revision based on geologic conditions encountered.**

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

d. **Chevron will fill casing at a minimum of every 20 jts (~840') while running for intermediate and production casing in order to maintain collapse SF.**

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

Surface Casing:	1,550'	ftTVD
Intermediate Casing:	5,217'	ftTVD
Production Casing:	23,551'	ftMD

Casing String	Min SF Burst	Min SF Collapse	Min SF Tension	Min SF Tri-Axial
Surface	1.65	1.59	1.64	1.88
Intermediate	1.67	3.62	2.72	2.07
Production	1.29	1.75	2.16	1.54

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

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

5. **CEMENTING PROGRAM**

Slurry	Type	Top	Bottom	*Sacks*	Yield	Density	%Excess	Water	*Volume*	Additives
Surface					(cu ft/sk)	(ppg)	Open Hole	gal/sk	cuft	
Lead	Class C	0'	800'	662	1.69	12.8	125	8.92	1119	Extender, Antifoam, Retarder
Tail	Class C	800'	1,300'	1321	1.34	14.8	125	6.40	1770	Extender, Antifoam, Retarder
Intermediate Csg										
Lead	Class C	0'	3,865'	946	2.56	11.9	100	14.66	2421	Extender, Antifoam, Retarder, Viscosifier
Tail	Class C	3,865'	4,865'	382	1.33	14.8	50	6.38	507	Extender, Antifoam, Retarder, Viscosifier
Production										
Lead 1	Class C	800'	8,500'	996	2.49	11.5	50	14.07	2480	Extender, Antifoam, Retarder, Viscosifier
Lead 2	Class C	8,500'	19,459'	1832	1.85	13.2	35	9.87	3389	Extender, Antifoam, Retarder, Viscosifier
Tail	Acid Sol Class H	19,459'	20,459'	115	2.19	15	10	9.54	252	Extender, Antifoam, Retarder, Viscosifier

CONTINGENCY CEMENT OPTIONS

Intermediate Csg	Foam Cement Contingency									
Cap	Class C	0'	562'	146	1.33	13.2	10	6.55	194	Extender, Antifoam, Retarder, Viscosifier
Foam Lead	Class C	562'	4,459'	1835	1.33	9.5	100	14.66	2441	Nitrogen, Surfactant, Extender, Antifoam, Retarder, Viscosifier
Tail	Class C	4,459'	4,865'	133	1.33	13.2	10	6.38	178	Extender, Antifoam, Retarder, Viscosifier
Top Out Contingency	Class C	0'	400'	19	1.3	14.8	10	6.38	25	Extender, Antifoam, Retarder, Viscosifier

CONTINGENCY CEMENT OPTIONS

Intermediate Csg	2 Stage Contingency									
1st Stage Lead (Contingent)	Class C	0'	3,865'	946	2.56	11.9	100	14.66	2421	Extender, Antifoam, Retarder, Viscosifier
1st Stage Tail	Class C	3,865'	4,865'	382	1.33	14.8	50	6.38	507	Extender, Antifoam, Retarder, Viscosifier
2nd Stage Lead	Class C	0'	2,865'	701	2.56	11.9	100	14.66	1795	Extender, Antifoam, Retarder, Viscosifier
2nd Stage Tail	Class C	2,865'	3,865'	382	1.33	14.8	50	6.38	507	Extender, Antifoam, Retarder, Viscosifier

DV TOOL LOCATED AT ~3,865

1. Final cement volumes will be determined by caliper.
2. Surface casing shall have at least one centralizer installed on each of the bottom three joints starting with the shoe joint.
3. Production casing will have one solid body type centralizer on every joint in the lateral, then every other joint to KOP. Bowspring type centralizers will be run from KOP to intermediate casing and surface.

6. **MUD PROGRAM**

From	To	Type	Weight	Viscosity	Filtrate	Notes
0'	1,300'	Fresh water mud	8.3 - 9.0	28-30	N/C	
1,300'	4,865'	Brine/OBM	8.3 - 10.5	28-31	15-25	
4,865'	20,459'	OBM	8.3 - 10.5	28-60	15-25	Due to wellbore stability in the lateral well, MW will be adjusted as needed to ensure the hole doesn't collapse.

A closed system will be used consisting of above ground steel tanks. All wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in an approved sanitary landfill. Sanitary wastes will be contained in a chemical porta-toilet and then hauled to an approved sanitary landfill.

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

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

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

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

7. **TESTING, LOGGING, AND CORING**

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

TYPE	Logs	Interval	Timing
Mudlogs	2 man mudlog	Surface casing shoe through prod hole TD	While drilling or circulating
LWD	MWD Gamma	Int. and Prod. Hole	While Drilling

8. **ABNORMAL PRESSURES AND HYDROGEN SULFIDE**

a. No abnormal pressure or temperatures are expected. Estimated BHP is: 4,363 psi
b. Hydrogen sulfide gas is not anticipated. An H2S Contingency plan is attached with this APD in the event that H2S is encountered

H_2S Preparedness and Contingency Plan Summary

Training

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

Awareness Level

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

1. Physical and chemical properties of H_2S
2. Health hazards of H_2S
3. Personal protective equipment
4. Information regarding potential sources of H_2S
5. Alarms and emergency evacuation procedures

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

Advanced Level H_2S Training

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

1. H_2S safe work practice procedures;
2. Emergency contingency plan procedures;
3. Methods to detect the presence or release of H_2S (e.g., alarms, monitoring equipment), including hands-on training with direct reading and personal monitoring H_2S equipment.
4. Basic overview of respiratory protective equipment suitable for use in H_2S environments. Note: Employees who work at sites that participate in the Chevron Respirator User program will require separate respirator training as required by the MCBU Respiratory Protection Program;
5. Basic overview of emergency rescue techniques, first aid, CPR and medical evaluation procedures. Employees who may be required to perform “standby” duties are required to receive additional first aid and CPR training, which is not covered in the Advanced Level H_2S training;
6. Proficiency examination covering all course material.

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

H_2S Preparedness and Contingency Plan Summary

H_2S Training Certification

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

Briefing Area

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

H_2S Equipment

Respiratory Protection

a) Six 30 minute SCBAs – 2 at each briefing area and 2 in the Safety Trailer.

b) Eight 5 minute EBAs – 5 in the dog house at the rig floor, 1 at the accumulator, 1 at the shale shakers and 1 at the mud pits.

Visual Warning System

a) One color code sign, displaying all possible conditions, will be placed at the entrance to the location with a flag displaying the current condition.

b) Two windsocks will be on location, one on the dog house and one on the Drill Site Manager's Trailer.

H_2S Detection and Monitoring System

a) H_2S monitoring system (sensor head, warning light and siren) placed throughout rig.

- Drilling Rig Locations: at a minimum, in the area of the Shale shaker, rig floor, and bell nipple.
- Workover Rig Locations: at a minimum, in the area of the Cellar, rig floor and circulating tanks or shale shaker.

H_2S Preparedness and Contingency Plan Summary

Well Control Equipment

a) Flare Line 150' from wellhead with igniter.

b) Choke manifold with a remotely operated choke.

c) Mud / gas separator

Mud Program

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

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

Public Safety - Emergency Assistance

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

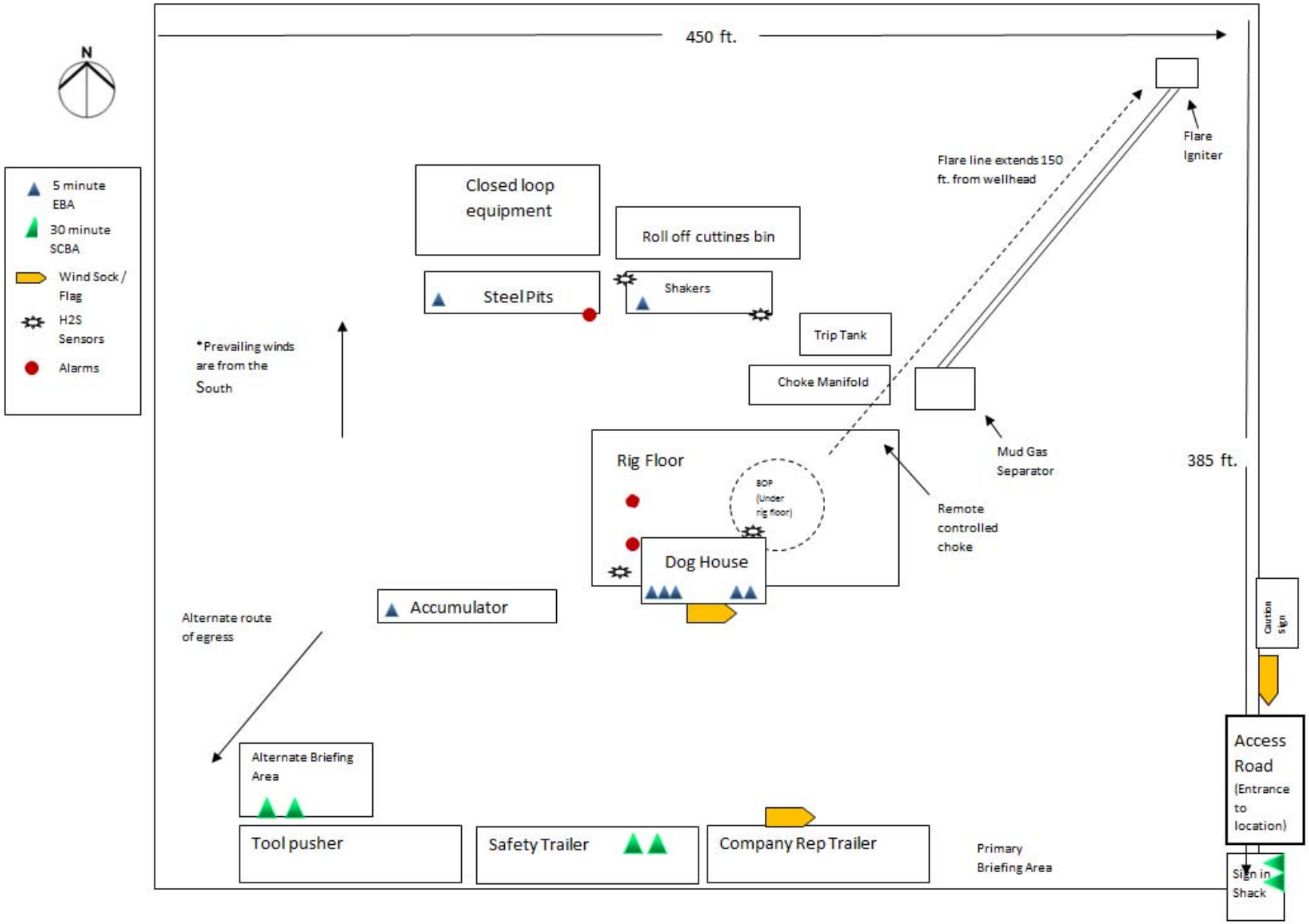
H_2S Preparedness and Contingency Plan Summary

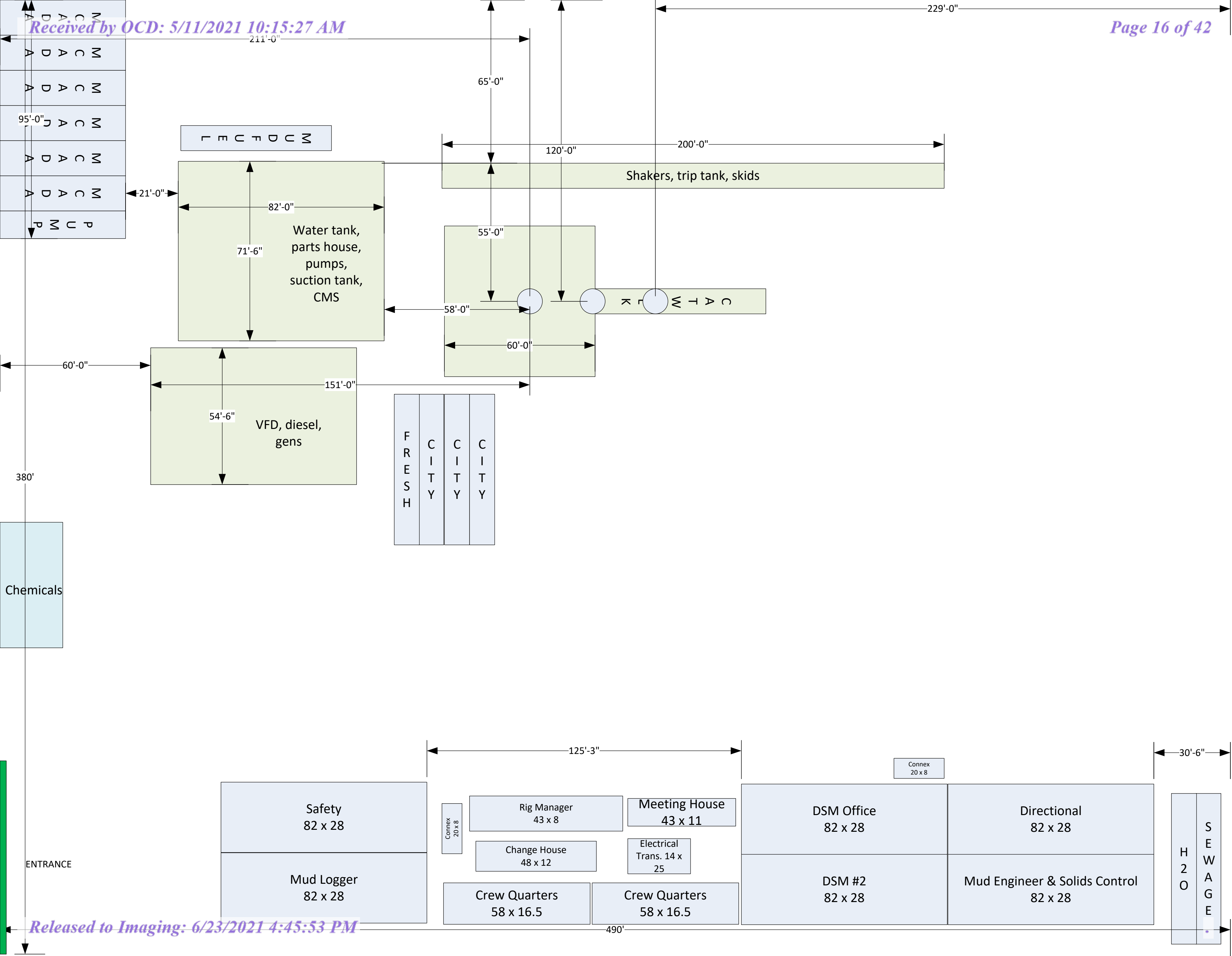
Chevron MCBU D&C Emergency Notifications

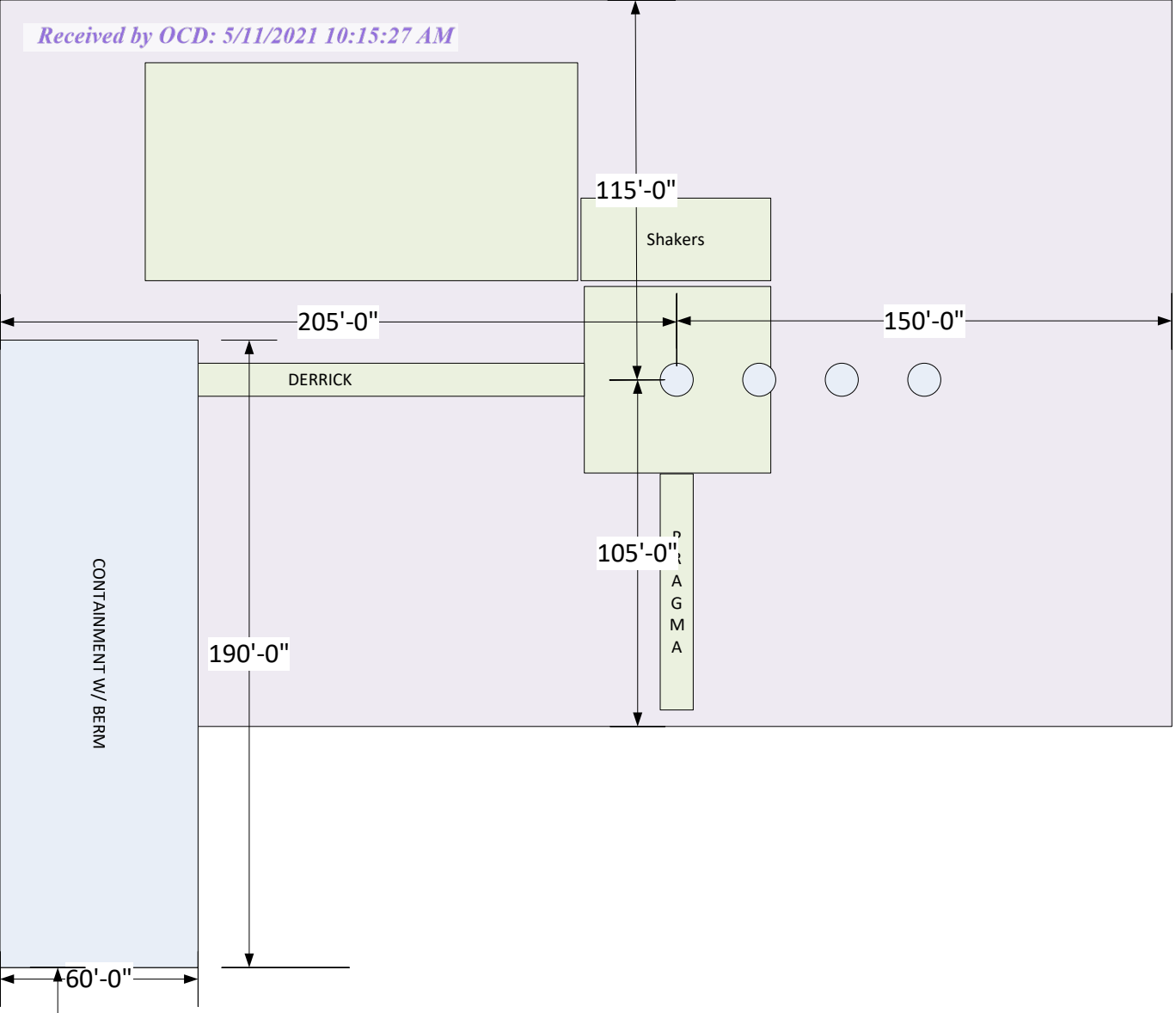
Below are lists of contacts to be used in emergency situations.

	Name	Title	Office Number	Cell Phone
1.	**TBD**	Drilling Engineer		
2.	TBD	Superintendent		
5.	Steve Hassmann	Drilling Manager	(713) 372-4496	832-729-3236
6.	Kyle Eastman	Operations Manager	TBD	281-755-6554
7.	TBD	D&C HES		
8.	TBD	Completion Engineer		

H_2S Preparedness and Contingency Plan Summary




229'-0"
211'-0"
65'-0"
M C A D A
M C A D A
M C A D A
95'-0"
M C A D A
M C A D A
P U M P
M U D F U E L
120'-0"
200'-0"
Shakers, trip tank, skids
21'-0"
82'-0"
71'-6"
Water tank, parts house, pumps, suction tank, CMS
55'-0"
58'-0"
C A T W L K
60'-0"
60'-0"
151'-0"
54'-6"
VFD, diesel, gens
F R E S H
C I T Y
C I T Y
C I T Y
380'
Chemicals
125'-3"
Connex 20 x 8
30'-6"
Safety 82 x 28
Mud Logger 82 x 28
Connex 20 x 8
Rig Manager 43 x 8
Meeting House 43 x 11
Change House 48 x 12
Electrical Trans. 14 x 25
Crew Quarters 58 x 16.5
Crew Quarters 58 x 16.5
DSM Office 82 x 28
DSM #2 82 x 28
Directional 82 x 28
Mud Engineer & Solids Control 82 x 28
H 2 O
S E W A G E
ENTRANCE
490'


115'-0"
Shakers
205'-0"
150'-0"
DERRICK
105'-0"
PAGMA
190'-0"
CONTAINMENT W/ BERM
60'-0"
82'-0"

ENTRANCE

Planned Wellpath Report

DL 10 3 Kraken Fed Com No. 209H Rev-A.0

REFERENCE WELLPATH IDENTIFICATION			
Operator	**Chevron U.S.A. Inc.**	Well	**DL 10 3 Kraken Fed Com No. 209H**
Field	**Bone Spring (Lea County, NM) NAD27**	API/Legal	
Facility	**Dagger Lake Kraken Fed Com Pad**	Wellbore	**DL 10 3 Kraken Fed Com No. 209H**
Slot	**DL 10 3 Kraken Fed Com No. 209H**		

REPORT SETUP INFORMATION			
Projection System	**NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet**	Software System	**WellArchitect® 6.0**
North Reference	**Grid**	User	**Moyagusa**
Scale	**0.999974**	Report Generated	**06/Apr/2020** at **16:06**
Convergence at slot	**0.41° East**	Database	**WA_HOU_Midland_Defn**

WELLPATH LOCATION	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	**East[ft]**	**Easting[US ft]**	**Northing[US ft]**	**Latitude**	**Longitude**
Slot Location	0.00	50.00	**737940.00**	**510067.00**	32°23'59.7499"N	103°33'44.7007"W
Facility Reference Pt			**737890.00**	**510067.00**	32°23'59.7535"N	103°33'45.2839"W
Field Reference Pt			**152400.30**	**0.00**	30°59'42.8458"N	105°26'33.6593"W

WELLPATH DATUM			
Calculation method	**Minimum curvature**	Rig on DL 10 3 Kraken Fed Com No. 209H (KB) to Facility Vertical Datum	**3587.00ft**
Horizontal Reference Pt	**Slot**	Rig on DL 10 3 Kraken Fed Com No. 209H (KB) to Mean Sea Level	**3587.00ft**
Vertical Reference Pt	**Rig on DL 10 3 Kraken Fed Com No. 209H (KB)**	Rig on DL 10 3 Kraken Fed Com No. 209H (KB) to Ground Level at Slot (DL 10 3 Kraken Fed Com No. 209H)	**30.00ft**
MD Reference Pt	**Rig on DL 10 3 Kraken Fed Com No. 209H (KB)**	Section Origin	**N 0.00, E 0.00 ft**
Field Vertical Reference	**Mean Sea Level**	Section Azimuth	**359.63°**

Planned Wellpath Report

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Field	**Bone Spring (Lea County, NM) NAD27**	API/Legal	
Facility	**Dagger Lake Kraken Fed Com Pad**	Wellbore	**DL 10 3 Kraken Fed Com No. 209H**
Slot	**DL 10 3 Kraken Fed Com No. 209H**		

WELLPATH DATA (220 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
0.00†	0.000	155.921	0.00	0.00	0.00	0.00	737940.00	510067.00	32°23'59.7499"N	103°33'44.7007"W	0.00	0.00	0.00	
30.00	0.000	155.921	30.00	0.00	0.00	0.00	737940.00	510067.00	32°23'59.7499"N	103°33'44.7007"W	0.00	0.00	0.00	Tie On
130.00†	0.000	155.921	130.00	0.00	0.00	0.00	737940.00	510067.00	32°23'59.7499"N	103°33'44.7007"W	0.00	0.00	0.00	
230.00†	0.000	155.921	230.00	0.00	0.00	0.00	737940.00	510067.00	32°23'59.7499"N	103°33'44.7007"W	0.00	0.00	0.00	
330.00†	0.000	155.921	330.00	0.00	0.00	0.00	737940.00	510067.00	32°23'59.7499"N	103°33'44.7007"W	0.00	0.00	0.00	
430.00†	0.000	155.921	430.00	0.00	0.00	0.00	737940.00	510067.00	32°23'59.7499"N	103°33'44.7007"W	0.00	0.00	0.00	
530.00†	0.000	155.921	530.00	0.00	0.00	0.00	737940.00	510067.00	32°23'59.7499"N	103°33'44.7007"W	0.00	0.00	0.00	
630.00†	0.000	155.921	630.00	0.00	0.00	0.00	737940.00	510067.00	32°23'59.7499"N	103°33'44.7007"W	0.00	0.00	0.00	
730.00†	0.000	155.921	730.00	0.00	0.00	0.00	737940.00	510067.00	32°23'59.7499"N	103°33'44.7007"W	0.00	0.00	0.00	
830.00†	0.000	155.921	830.00	0.00	0.00	0.00	737940.00	510067.00	32°23'59.7499"N	103°33'44.7007"W	0.00	0.00	0.00	
930.00†	0.000	155.921	930.00	0.00	0.00	0.00	737940.00	510067.00	32°23'59.7499"N	103°33'44.7007"W	0.00	0.00	0.00	
1030.00†	0.000	155.921	1030.00	0.00	0.00	0.00	737940.00	510067.00	32°23'59.7499"N	103°33'44.7007"W	0.00	0.00	0.00	
1130.00†	0.000	155.921	1130.00	0.00	0.00	0.00	737940.00	510067.00	32°23'59.7499"N	103°33'44.7007"W	0.00	0.00	0.00	
1150.00	0.000	155.921	1150.00	0.00	0.00	0.00	737940.00	510067.00	32°23'59.7499"N	103°33'44.7007"W	0.00	0.00	0.00	Start Build
1230.00†	1.200	155.921	1229.99	-0.77	-0.76	0.34	737940.34	510066.24	32°23'59.7423"N	103°33'44.6968"W	1.50	1.50	0.00	
1330.00†	2.700	155.921	1329.93	-3.88	-3.87	1.73	737941.73	510063.13	32°23'59.7115"N	103°33'44.6809"W	1.50	1.50	0.00	
1430.00†	4.200	155.921	1429.75	-9.39	-9.37	4.19	737944.19	510057.63	32°23'59.6570"N	103°33'44.6527"W	1.50	1.50	0.00	
1530.00†	5.700	155.921	1529.37	-17.29	-17.24	7.71	737947.71	510049.76	32°23'59.5788"N	103°33'44.6123"W	1.50	1.50	0.00	
1630.00†	7.200	155.921	1628.74	-27.58	-27.50	12.29	737952.29	510039.50	32°23'59.4769"N	103°33'44.5597"W	1.50	1.50	0.00	
1730.00†	8.700	155.921	1727.77	-40.24	-40.13	17.93	737957.93	510026.88	32°23'59.3516"N	103°33'44.4950"W	1.50	1.50	0.00	
1830.00†	10.200	155.921	1826.41	-55.27	-55.12	24.63	737964.63	510011.89	32°23'59.2028"N	103°33'44.4181"W	1.50	1.50	0.00	
1930.00†	11.700	155.921	1924.59	-72.66	-72.46	32.38	737972.38	509994.54	32°23'59.0307"N	103°33'44.3292"W	1.50	1.50	0.00	
2030.00†	13.200	155.921	2022.24	-92.40	-92.14	41.17	737981.17	509974.86	32°23'58.8353"N	103°33'44.2283"W	1.50	1.50	0.00	
2130.00†	14.700	155.921	2119.28	-114.48	-114.15	51.01	737991.01	509952.85	32°23'58.6168"N	103°33'44.1154"W	1.50	1.50	0.00	
2150.00	15.000	155.921	2138.62	-119.17	-118.83	53.10	737993.10	509948.17	32°23'58.5703"N	103°33'44.0914"W	1.50	1.50	0.00	End Build
2230.00†	15.000	155.921	2215.89	-138.13	-137.73	61.55	738001.55	509929.27	32°23'58.3827"N	103°33'43.9945"W	0.00	0.00	0.00	
2330.00†	15.000	155.921	2312.48	-161.82	-161.36	72.11	738012.11	509905.64	32°23'58.1481"N	103°33'43.8733"W	0.00	0.00	0.00	
2430.00†	15.000	155.921	2409.08	-185.52	-184.99	82.67	738022.67	509882.01	32°23'57.9135"N	103°33'43.7522"W	0.00	0.00	0.00	
2530.00†	15.000	155.921	2505.67	-209.22	-208.62	93.23	738033.22	509858.38	32°23'57.6790"N	103°33'43.6310"W	0.00	0.00	0.00	
2630.00†	15.000	155.921	2602.26	-232.92	-232.25	103.79	738043.78	509834.75	32°23'57.4444"N	103°33'43.5098"W	0.00	0.00	0.00	

Planned Wellpath Report

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Field	**Bone Spring (Lea County, NM) NAD27**	API/Legal	
Facility	**Dagger Lake Kraken Fed Com Pad**	Wellbore	**DL 10 3 Kraken Fed Com No. 209H**
Slot	**DL 10 3 Kraken Fed Com No. 209H**		

WELLPATH DATA (220 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
2730.00†	15.000	155.921	2698.85	-256.61	-255.88	114.35	738054.34	509811.13	32°23'57.2098"N	103°33'43.3887"W	0.00	0.00	0.00	
2830.00†	15.000	155.921	2795.45	-280.31	-279.51	124.91	738064.90	509787.50	32°23'56.9753"N	103°33'43.2675"W	0.00	0.00	0.00	
2930.00†	15.000	155.921	2892.04	-304.01	-303.14	135.47	738075.46	509763.87	32°23'56.7407"N	103°33'43.1464"W	0.00	0.00	0.00	
3030.00†	15.000	155.921	2988.63	-327.71	-326.77	146.02	738086.02	509740.24	32°23'56.5061"N	103°33'43.0252"W	0.00	0.00	0.00	
3130.00†	15.000	155.921	3085.22	-351.41	-350.40	156.58	738096.58	509716.61	32°23'56.2716"N	103°33'42.9040"W	0.00	0.00	0.00	
3230.00†	15.000	155.921	3181.82	-375.10	-374.03	167.14	738107.14	509692.98	32°23'56.0370"N	103°33'42.7829"W	0.00	0.00	0.00	
3330.00†	15.000	155.921	3278.41	-398.80	-397.66	177.70	738117.70	509669.35	32°23'55.8024"N	103°33'42.6617"W	0.00	0.00	0.00	
3430.00†	15.000	155.921	3375.00	-422.50	-421.29	188.26	738128.26	509645.72	32°23'55.5678"N	103°33'42.5405"W	0.00	0.00	0.00	
3530.00†	15.000	155.921	3471.59	-446.20	-444.92	198.82	738138.82	509622.09	32°23'55.3333"N	103°33'42.4194"W	0.00	0.00	0.00	
3630.00†	15.000	155.921	3568.19	-469.89	-468.55	209.38	738149.38	509598.46	32°23'55.0987"N	103°33'42.2982"W	0.00	0.00	0.00	
3730.00†	15.000	155.921	3664.78	-493.59	-492.18	219.94	738159.94	509574.83	32°23'54.8641"N	103°33'42.1771"W	0.00	0.00	0.00	
3830.00†	15.000	155.921	3761.37	-517.29	-515.81	230.50	738170.49	509551.20	32°23'54.6296"N	103°33'42.0559"W	0.00	0.00	0.00	
3930.00†	15.000	155.921	3857.96	-540.99	-539.44	241.06	738181.05	509527.58	32°23'54.3950"N	103°33'41.9347"W	0.00	0.00	0.00	
4030.00†	15.000	155.921	3954.56	-564.68	-563.07	251.62	738191.61	509503.95	32°23'54.1604"N	103°33'41.8136"W	0.00	0.00	0.00	
4130.00†	15.000	155.921	4051.15	-588.38	-586.70	262.18	738202.17	509480.32	32°23'53.9259"N	103°33'41.6924"W	0.00	0.00	0.00	
4230.00†	15.000	155.921	4147.74	-612.08	-610.33	272.74	738212.73	509456.69	32°23'53.6913"N	103°33'41.5713"W	0.00	0.00	0.00	
4330.00†	15.000	155.921	4244.33	-635.78	-633.96	283.30	738223.29	509433.06	32°23'53.4567"N	103°33'41.4501"W	0.00	0.00	0.00	
4430.00†	15.000	155.921	4340.93	-659.47	-657.59	293.86	738233.85	509409.43	32°23'53.2221"N	103°33'41.3289"W	0.00	0.00	0.00	
4522.64	15.000	155.921	4430.41	-681.43	-679.48	303.64	738243.63	509387.54	32°23'53.0049"N	103°33'41.2167"W	0.00	0.00	0.00	Rotate/Drop
4530.00†	14.945	155.921	4437.52	-683.17	-681.22	304.42	738244.41	509385.80	32°23'52.9876"N	103°33'41.2078"W	0.75	-0.75	0.00	
4630.00†	14.195	155.921	4534.30	-706.20	-704.18	314.68	738254.67	509362.84	32°23'52.7596"N	103°33'41.0900"W	0.75	-0.75	0.00	
4730.00†	13.445	155.921	4631.41	-728.07	-725.99	324.42	738264.42	509341.03	32°23'52.5431"N	103°33'40.9782"W	0.75	-0.75	0.00	
4830.00†	12.695	155.921	4728.82	-748.78	-746.64	333.65	738273.64	509320.38	32°23'52.3382"N	103°33'40.8724"W	0.75	-0.75	0.00	
4930.00†	11.945	155.921	4826.51	-768.31	-766.12	342.36	738282.35	509300.90	32°23'52.1448"N	103°33'40.7725"W	0.75	-0.75	0.00	
5030.00†	11.195	155.921	4924.48	-786.68	-784.43	350.54	738290.53	509282.59	32°23'51.9630"N	103°33'40.6786"W	0.75	-0.75	0.00	
5130.00†	10.445	155.921	5022.70	-803.86	-801.57	358.20	738298.19	509265.46	32°23'51.7929"N	103°33'40.5907"W	0.75	-0.75	0.00	
5230.00†	9.695	155.921	5121.16	-819.87	-817.53	365.33	738305.32	509249.49	32°23'51.6344"N	103°33'40.5089"W	0.75	-0.75	0.00	
5330.00†	8.945	155.921	5219.84	-834.70	-832.31	371.94	738311.93	509234.71	32°23'51.4877"N	103°33'40.4331"W	0.75	-0.75	0.00	
5430.00†	8.195	155.921	5318.72	-848.34	-845.92	378.02	738318.01	509221.10	32°23'51.3526"N	103°33'40.3633"W	0.75	-0.75	0.00	
5530.00†	7.445	155.921	5417.79	-860.80	-858.34	383.57	738323.56	509208.68	32°23'51.2293"N	103°33'40.2996"W	0.75	-0.75	0.00	

Planned Wellpath Report

DL 10 3 Kraken Fed Com No. 209H Rev-A.0

REFERENCE WELLPATH IDENTIFICATION			
Operator	**Chevron U.S.A. Inc.**	Well	**DL 10 3 Kraken Fed Com No. 209H**
Field	**Bone Spring (Lea County, NM) NAD27**	API/Legal	
Facility	**Dagger Lake Kraken Fed Com Pad**	Wellbore	**DL 10 3 Kraken Fed Com No. 209H**
Slot	**DL 10 3 Kraken Fed Com No. 209H**		

WELLPATH DATA (220 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
5630.00†	6.695	155.921	5517.03	-872.07	-869.58	388.59	738328.58	509197.45	32°23'51.1178"N	103°33'40.2420"W	0.75	-0.75	0.00	
5730.00†	5.945	155.921	5616.42	-882.15	-879.63	393.08	738333.07	509187.40	32°23'51.0180"N	103°33'40.1905"W	0.75	-0.75	0.00	
5830.00†	5.195	155.921	5715.95	-891.03	-888.49	397.04	738337.03	509178.54	32°23'50.9300"N	103°33'40.1450"W	0.75	-0.75	0.00	
5930.00†	4.445	155.921	5815.60	-898.73	-896.16	400.47	738340.46	509170.87	32°23'50.8539"N	103°33'40.1057"W	0.75	-0.75	0.00	
6030.00†	3.695	155.921	5915.34	-905.23	-902.64	403.36	738343.35	509164.39	32°23'50.7896"N	103°33'40.0725"W	0.75	-0.75	0.00	
6130.00†	2.945	155.921	6015.18	-910.53	-907.93	405.73	738345.72	509159.10	32°23'50.7371"N	103°33'40.0454"W	0.75	-0.75	0.00	
6230.00†	2.195	155.921	6115.07	-914.63	-912.02	407.56	738347.54	509155.01	32°23'50.6965"N	103°33'40.0244"W	0.75	-0.75	0.00	
6330.00†	1.445	155.921	6215.02	-917.54	-914.92	408.85	738348.84	509152.11	32°23'50.6677"N	103°33'40.0095"W	0.75	-0.75	0.00	
6430.00†	0.695	155.921	6315.00	-919.25	-916.62	409.61	738349.60	509150.40	32°23'50.6508"N	103°33'40.0008"W	0.75	-0.75	0.00	
6522.64	0.000	347.360	6407.64	-919.76	-917.14	409.84	738349.83	509149.89	32°23'50.6457"N	103°33'39.9981"W	0.75	-0.75	0.00	Hold Vertical
6530.00†	0.000	347.360	6415.00	-919.76	-917.14	409.84	738349.83	509149.89	32°23'50.6457"N	103°33'39.9981"W	0.00	0.00	0.00	
6630.00†	0.000	347.360	6515.00	-919.76	-917.14	409.84	738349.83	509149.89	32°23'50.6457"N	103°33'39.9981"W	0.00	0.00	0.00	
6730.00†	0.000	347.360	6615.00	-919.76	-917.14	409.84	738349.83	509149.89	32°23'50.6457"N	103°33'39.9981"W	0.00	0.00	0.00	
6830.00†	0.000	347.360	6715.00	-919.76	-917.14	409.84	738349.83	509149.89	32°23'50.6457"N	103°33'39.9981"W	0.00	0.00	0.00	
6930.00†	0.000	347.360	6815.00	-919.76	-917.14	409.84	738349.83	509149.89	32°23'50.6457"N	103°33'39.9981"W	0.00	0.00	0.00	
7030.00†	0.000	347.360	6915.00	-919.76	-917.14	409.84	738349.83	509149.89	32°23'50.6457"N	103°33'39.9981"W	0.00	0.00	0.00	
7130.00†	0.000	347.360	7015.00	-919.76	-917.14	409.84	738349.83	509149.89	32°23'50.6457"N	103°33'39.9981"W	0.00	0.00	0.00	
7230.00†	0.000	347.360	7115.00	-919.76	-917.14	409.84	738349.83	509149.89	32°23'50.6457"N	103°33'39.9981"W	0.00	0.00	0.00	
7330.00†	0.000	347.360	7215.00	-919.76	-917.14	409.84	738349.83	509149.89	32°23'50.6457"N	103°33'39.9981"W	0.00	0.00	0.00	
7430.00†	0.000	347.360	7315.00	-919.76	-917.14	409.84	738349.83	509149.89	32°23'50.6457"N	103°33'39.9981"W	0.00	0.00	0.00	
7530.00†	0.000	347.360	7415.00	-919.76	-917.14	409.84	738349.83	509149.89	32°23'50.6457"N	103°33'39.9981"W	0.00	0.00	0.00	
7630.00†	0.000	347.360	7515.00	-919.76	-917.14	409.84	738349.83	509149.89	32°23'50.6457"N	103°33'39.9981"W	0.00	0.00	0.00	
7730.00†	0.000	347.360	7615.00	-919.76	-917.14	409.84	738349.83	509149.89	32°23'50.6457"N	103°33'39.9981"W	0.00	0.00	0.00	
7830.00†	0.000	347.360	7715.00	-919.76	-917.14	409.84	738349.83	509149.89	32°23'50.6457"N	103°33'39.9981"W	0.00	0.00	0.00	
7930.00†	0.000	347.360	7815.00	-919.76	-917.14	409.84	738349.83	509149.89	32°23'50.6457"N	103°33'39.9981"W	0.00	0.00	0.00	
8030.00†	0.000	347.360	7915.00	-919.76	-917.14	409.84	738349.83	509149.89	32°23'50.6457"N	103°33'39.9981"W	0.00	0.00	0.00	
8130.00†	0.000	347.360	8015.00	-919.76	-917.14	409.84	738349.83	509149.89	32°23'50.6457"N	103°33'39.9981"W	0.00	0.00	0.00	
8230.00†	0.000	347.360	8115.00	-919.76	-917.14	409.84	738349.83	509149.89	32°23'50.6457"N	103°33'39.9981"W	0.00	0.00	0.00	
8330.00†	0.000	347.360	8215.00	-919.76	-917.14	409.84	738349.83	509149.89	32°23'50.6457"N	103°33'39.9981"W	0.00	0.00	0.00	
8430.00†	0.000	347.360	8315.00	-919.76	-917.14	409.84	738349.83	509149.89	32°23'50.6457"N	103°33'39.9981"W	0.00	0.00	0.00	

Planned Wellpath Report

DL 10 3 Kraken Fed Com No. 209H Rev-A.0

REFERENCE WELLPATH IDENTIFICATION			
Operator	**Chevron U.S.A. Inc.**	Well	**DL 10 3 Kraken Fed Com No. 209H**
Field	**Bone Spring (Lea County, NM) NAD27**	API/Legal	
Facility	**Dagger Lake Kraken Fed Com Pad**	Wellbore	**DL 10 3 Kraken Fed Com No. 209H**
Slot	**DL 10 3 Kraken Fed Com No. 209H**		

WELLPATH DATA (220 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
8530.00†	0.000	347.360	8415.00	-919.76	-917.14	409.84	738349.83	509149.89	32°23'50.6457"N	103°33'39.9981"W	0.00	0.00	0.00	
8630.00†	0.000	347.360	8515.00	-919.76	-917.14	409.84	738349.83	509149.89	32°23'50.6457"N	103°33'39.9981"W	0.00	0.00	0.00	
8730.00†	0.000	347.360	8615.00	-919.76	-917.14	409.84	738349.83	509149.89	32°23'50.6457"N	103°33'39.9981"W	0.00	0.00	0.00	
8830.00†	0.000	347.360	8715.00	-919.76	-917.14	409.84	738349.83	509149.89	32°23'50.6457"N	103°33'39.9981"W	0.00	0.00	0.00	
8930.00†	0.000	347.360	8815.00	-919.76	-917.14	409.84	738349.83	509149.89	32°23'50.6457"N	103°33'39.9981"W	0.00	0.00	0.00	
9030.00†	0.000	347.360	8915.00	-919.76	-917.14	409.84	738349.83	509149.89	32°23'50.6457"N	103°33'39.9981"W	0.00	0.00	0.00	
9030.98	0.000	347.360	8915.98	-919.76	-917.14	409.84	738349.83	509149.89	32°23'50.6457"N	103°33'39.9981"W	0.00	0.00	0.00	Curve KOP
9130.00†	9.902	347.360	9014.51	-911.42	-908.81	407.97	738347.96	509158.22	32°23'50.7282"N	103°33'40.0192"W	10.00	10.00	0.00	
9230.00†	19.902	347.360	9111.02	-886.33	-883.75	402.35	738342.34	509183.28	32°23'50.9766"N	103°33'40.0827"W	10.00	10.00	0.00	
9330.00†	29.902	347.360	9201.61	-845.23	-842.71	393.15	738333.14	509224.31	32°23'51.3833"N	103°33'40.1865"W	10.00	10.00	0.00	
9430.00†	39.902	347.360	9283.52	-789.40	-786.95	380.65	738320.64	509280.07	32°23'51.9359"N	103°33'40.3277"W	10.00	10.00	0.00	
9430.98	40.000	347.360	9284.27	-788.78	-786.34	380.51	738320.50	509280.68	32°23'51.9420"N	103°33'40.3292"W	10.00	10.00	0.00	Cont. Build/Start Turn
9530.00†	49.589	350.883	9354.47	-720.25	-717.89	367.54	738307.53	509349.13	32°23'52.6202"N	103°33'40.4747"W	10.00	9.68	3.56	
9630.00†	59.354	353.540	9412.52	-639.65	-637.36	356.64	738296.63	509429.66	32°23'53.4179"N	103°33'40.5950"W	10.00	9.76	2.66	
9730.00†	69.163	355.704	9455.90	-550.03	-547.79	348.28	738288.27	509519.23	32°23'54.3047"N	103°33'40.6850"W	10.00	9.81	2.16	
9830.00†	78.995	357.601	9483.30	-454.11	-451.91	342.71	738282.70	509615.10	32°23'55.2539"N	103°33'40.7419"W	10.00	9.83	1.90	
9930.00†	88.839	359.374	9493.88	-354.82	-352.63	340.10	738280.09	509714.38	32°23'56.2364"N	103°33'40.7640"W	10.00	9.84	1.77	
9939.62	89.787	359.542	9494.00[1]	-345.20	-343.01	340.01	738280.00	509724.00	32°23'56.3316"N	103°33'40.7642"W	10.00	9.85	1.75	End Build/Turn - Landing
10030.00†	89.787	359.542	9494.34	-254.82	-252.64	339.29	738279.28	509814.37	32°23'57.2259"N	103°33'40.7650"W	0.00	0.00	0.00	
10130.00†	89.787	359.542	9494.71	-154.82	-152.64	338.49	738278.48	509914.36	32°23'58.2154"N	103°33'40.7659"W	0.00	0.00	0.00	
10230.00†	89.787	359.542	9495.08	-54.82	-52.64	337.69	738277.68	510014.36	32°23'59.2049"N	103°33'40.7668"W	0.00	0.00	0.00	
10330.00†	89.787	359.542	9495.45	45.18	47.35	336.89	738276.88	510114.35	32°24'0.1944"N	103°33'40.7677"W	0.00	0.00	0.00	
10430.00†	89.787	359.542	9495.83	145.17	147.35	336.09	738276.08	510214.34	32°24'1.1839"N	103°33'40.7686"W	0.00	0.00	0.00	
10530.00†	89.787	359.542	9496.20	245.17	247.34	335.29	738275.28	510314.34	32°24'2.1734"N	103°33'40.7695"W	0.00	0.00	0.00	
10630.00†	89.787	359.542	9496.57	345.17	347.34	334.49	738274.48	510414.33	32°24'3.1629"N	103°33'40.7704"W	0.00	0.00	0.00	
10730.00†	89.787	359.542	9496.94	445.17	447.34	333.69	738273.68	510514.32	32°24'4.1525"N	103°33'40.7713"W	0.00	0.00	0.00	
10830.00†	89.787	359.542	9497.31	545.17	547.33	332.89	738272.88	510614.32	32°24'5.1420"N	103°33'40.7722"W	0.00	0.00	0.00	
10930.00†	89.787	359.542	9497.69	645.17	647.33	332.09	738272.09	510714.31	32°24'6.1315"N	103°33'40.7731"W	0.00	0.00	0.00	
11030.00†	89.787	359.542	9498.06	745.17	747.32	331.30	738271.29	510814.30	32°24'7.1210"N	103°33'40.7740"W	0.00	0.00	0.00	
11130.00†	89.787	359.542	9498.43	845.17	847.32	330.50	738270.49	510914.30	32°24'8.1105"N	103°33'40.7749"W	0.00	0.00	0.00	

Planned Wellpath Report

DL 10 3 Kraken Fed Com No. 209H Rev-A.0

Page 6 of 10

REFERENCE WELLPATH IDENTIFICATION			
Operator	**Chevron U.S.A. Inc.**	Well	**DL 10 3 Kraken Fed Com No. 209H**
Field	**Bone Spring (Lea County, NM) NAD27**	API/Legal	
Facility	**Dagger Lake Kraken Fed Com Pad**	Wellbore	**DL 10 3 Kraken Fed Com No. 209H**
Slot	**DL 10 3 Kraken Fed Com No. 209H**		

WELLPATH DATA (220 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
11230.00†	89.787	359.542	9498.80	945.17	947.32	329.70	738269.69	511014.29	32°24'9.1000"N	103°33'40.7758"W	0.00	0.00	0.00	
11330.00†	89.787	359.542	9499.18	1045.17	1047.31	328.90	738268.89	511114.28	32°24'10.0895"N	103°33'40.7767"W	0.00	0.00	0.00	
11430.00†	89.787	359.542	9499.55	1145.17	1147.31	328.10	738268.09	511214.28	32°24'11.0790"N	103°33'40.7776"W	0.00	0.00	0.00	
11530.00†	89.787	359.542	9499.92	1245.17	1247.31	327.30	738267.29	511314.27	32°24'12.0685"N	103°33'40.7785"W	0.00	0.00	0.00	
11630.00†	89.787	359.542	9500.29	1345.16	1347.30	326.50	738266.49	511414.26	32°24'13.0581"N	103°33'40.7794"W	0.00	0.00	0.00	
11730.00†	89.787	359.542	9500.67	1445.16	1447.30	325.70	738265.69	511514.26	32°24'14.0476"N	103°33'40.7803"W	0.00	0.00	0.00	
11830.00†	89.787	359.542	9501.04	1545.16	1547.29	324.90	738264.89	511614.25	32°24'15.0371"N	103°33'40.7812"W	0.00	0.00	0.00	
11930.00†	89.787	359.542	9501.41	1645.16	1647.29	324.10	738264.09	511714.24	32°24'16.0266"N	103°33'40.7821"W	0.00	0.00	0.00	
12030.00†	89.787	359.542	9501.78	1745.16	1747.29	323.30	738263.29	511814.24	32°24'17.0161"N	103°33'40.7830"W	0.00	0.00	0.00	
12130.00†	89.787	359.542	9502.15	1845.16	1847.28	322.50	738262.50	511914.23	32°24'18.0056"N	103°33'40.7839"W	0.00	0.00	0.00	
12230.00†	89.787	359.542	9502.53	1945.16	1947.28	321.71	738261.70	512014.22	32°24'18.9951"N	103°33'40.7848"W	0.00	0.00	0.00	
12330.00†	89.787	359.542	9502.90	2045.16	2047.27	320.91	738260.90	512114.22	32°24'19.9846"N	103°33'40.7857"W	0.00	0.00	0.00	
12430.00†	89.787	359.542	9503.27	2145.16	2147.27	320.11	738260.10	512214.21	32°24'20.9741"N	103°33'40.7866"W	0.00	0.00	0.00	
12530.00†	89.787	359.542	9503.64	2245.16	2247.27	319.31	738259.30	512314.20	32°24'21.9636"N	103°33'40.7875"W	0.00	0.00	0.00	
12625.78	89.787	359.542	9504.00[2]	2340.94	2343.05	318.54	738258.53	512409.98	32°24'22.9114"N	103°33'40.7884"W	0.00	0.00	0.00	Start Build
12630.00†	89.871	359.542	9504.01	2345.16	2347.26	318.51	738258.50	512414.20	32°24'22.9532"N	103°33'40.7884"W	2.00	2.00	0.00	
12660.82	90.487	359.543	9503.92	2375.98	2378.08	318.26	738258.25	512445.01	32°24'23.2581"N	103°33'40.7887"W	2.00	2.00	0.00	End Build
12730.00†	90.487	359.543	9503.33	2445.15	2447.26	317.71	738257.70	512514.19	32°24'23.9426"N	103°33'40.7893"W	0.00	0.00	0.00	
12830.00†	90.487	359.543	9502.48	2545.15	2547.25	316.91	738256.91	512614.18	32°24'24.9321"N	103°33'40.7902"W	0.00	0.00	0.00	
12930.00†	90.487	359.543	9501.63	2645.15	2647.24	316.12	738256.11	512714.17	32°24'25.9216"N	103°33'40.7910"W	0.00	0.00	0.00	
13030.00†	90.487	359.543	9500.78	2745.14	2747.24	315.32	738255.31	512814.16	32°24'26.9111"N	103°33'40.7919"W	0.00	0.00	0.00	
13130.00†	90.487	359.543	9499.92	2845.14	2847.23	314.52	738254.52	512914.15	32°24'27.9006"N	103°33'40.7928"W	0.00	0.00	0.00	
13230.00†	90.487	359.543	9499.07	2945.13	2947.22	313.73	738253.72	513014.14	32°24'28.8901"N	103°33'40.7936"W	0.00	0.00	0.00	
13330.00†	90.487	359.543	9498.22	3045.13	3047.22	312.93	738252.92	513114.13	32°24'29.8795"N	103°33'40.7945"W	0.00	0.00	0.00	
13430.00†	90.487	359.543	9497.37	3145.13	3147.21	312.13	738252.13	513214.12	32°24'30.8690"N	103°33'40.7954"W	0.00	0.00	0.00	
13530.00†	90.487	359.543	9496.52	3245.12	3247.20	311.34	738251.33	513314.11	32°24'31.8585"N	103°33'40.7963"W	0.00	0.00	0.00	
13630.00†	90.487	359.543	9495.67	3345.12	3347.20	310.54	738250.53	513414.10	32°24'32.8480"N	103°33'40.7971"W	0.00	0.00	0.00	
13730.00†	90.487	359.543	9494.82	3445.12	3447.19	309.74	738249.74	513514.09	32°24'33.8375"N	103°33'40.7980"W	0.00	0.00	0.00	
13830.00†	90.487	359.543	9493.97	3545.11	3547.18	308.95	738248.94	513614.08	32°24'34.8269"N	103°33'40.7989"W	0.00	0.00	0.00	
13930.00†	90.487	359.543	9493.12	3645.11	3647.17	308.15	738248.14	513714.07	32°24'35.8164"N	103°33'40.7997"W	0.00	0.00	0.00	

Planned Wellpath Report

DL 10 3 Kraken Fed Com No. 209H Rev-A.0

Page 7 of 10

REFERENCE WELLPATH IDENTIFICATION			
Operator	**Chevron U.S.A. Inc.**	Well	**DL 10 3 Kraken Fed Com No. 209H**
Field	**Bone Spring (Lea County, NM) NAD27**	API/Legal	
Facility	**Dagger Lake Kraken Fed Com Pad**	Wellbore	**DL 10 3 Kraken Fed Com No. 209H**
Slot	**DL 10 3 Kraken Fed Com No. 209H**		

WELLPATH DATA (220 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
14030.00†	90.487	359.543	9492.27	3745.11	3747.17	307.35	738247.35	513814.06	32°24'36.8059"N	103°33'40.8006"W	0.00	0.00	0.00	
14130.00†	90.487	359.543	9491.42	3845.10	3847.16	306.56	738246.55	513914.05	32°24'37.7954"N	103°33'40.8015"W	0.00	0.00	0.00	
14230.00†	90.487	359.543	9490.57	3945.10	3947.15	305.76	738245.75	514014.04	32°24'38.7849"N	103°33'40.8023"W	0.00	0.00	0.00	
14330.00†	90.487	359.543	9489.72	4045.09	4047.15	304.96	738244.96	514114.03	32°24'39.7743"N	103°33'40.8032"W	0.00	0.00	0.00	
14430.00†	90.487	359.543	9488.87	4145.09	4147.14	304.17	738244.16	514214.02	32°24'40.7638"N	103°33'40.8041"W	0.00	0.00	0.00	
14530.00†	90.487	359.543	9488.01	4245.09	4247.13	303.37	738243.36	514314.01	32°24'41.7533"N	103°33'40.8049"W	0.00	0.00	0.00	
14630.00†	90.487	359.543	9487.16	4345.08	4347.13	302.57	738242.57	514414.01	32°24'42.7428"N	103°33'40.8058"W	0.00	0.00	0.00	
14730.00†	90.487	359.543	9486.31	4445.08	4447.12	301.78	738241.77	514514.00	32°24'43.7323"N	103°33'40.8067"W	0.00	0.00	0.00	
14830.00†	90.487	359.543	9485.46	4545.08	4547.11	300.98	738240.97	514613.99	32°24'44.7217"N	103°33'40.8076"W	0.00	0.00	0.00	
14930.00†	90.487	359.543	9484.61	4645.07	4647.11	300.18	738240.18	514713.98	32°24'45.7112"N	103°33'40.8084"W	0.00	0.00	0.00	
15030.00†	90.487	359.543	9483.76	4745.07	4747.10	299.39	738239.38	514813.97	32°24'46.7007"N	103°33'40.8093"W	0.00	0.00	0.00	
15130.00†	90.487	359.543	9482.91	4845.06	4847.09	298.59	738238.58	514913.96	32°24'47.6902"N	103°33'40.8102"W	0.00	0.00	0.00	
15230.00†	90.487	359.543	9482.06	4945.06	4947.09	297.79	738237.78	515013.95	32°24'48.6797"N	103°33'40.8110"W	0.00	0.00	0.00	
15237.02	90.487	359.543	9482.00[3]	4952.09	4954.11	297.74	738237.73	515020.97	32°24'48.7492"N	103°33'40.8111"W	0.00	0.00	0.00	Start Drop
15244.20	90.373	359.630	9481.95	4959.26	4961.29	297.69	738237.68	515028.15	32°24'48.8202"N	103°33'40.8111"W	2.00	-1.60	1.21	End Drop
15330.00†	90.373	359.630	9481.39	5045.06	5047.08	297.13	738237.12	515113.94	32°24'49.6692"N	103°33'40.8103"W	0.00	0.00	0.00	
15430.00†	90.373	359.630	9480.74	5145.06	5147.08	296.49	738236.48	515213.93	32°24'50.6587"N	103°33'40.8094"W	0.00	0.00	0.00	
15530.00†	90.373	359.630	9480.09	5245.05	5247.07	295.84	738235.83	515313.93	32°24'51.6481"N	103°33'40.8085"W	0.00	0.00	0.00	
15630.00†	90.373	359.630	9479.44	5345.05	5347.07	295.19	738235.19	515413.92	32°24'52.6376"N	103°33'40.8076"W	0.00	0.00	0.00	
15730.00†	90.373	359.630	9478.78	5445.05	5447.07	294.55	738234.54	515513.91	32°24'53.6271"N	103°33'40.8068"W	0.00	0.00	0.00	
15830.00†	90.373	359.630	9478.13	5545.05	5547.06	293.90	738233.90	515613.91	32°24'54.6166"N	103°33'40.8059"W	0.00	0.00	0.00	
15930.00†	90.373	359.630	9477.48	5645.05	5647.06	293.26	738233.25	515713.90	32°24'55.6061"N	103°33'40.8050"W	0.00	0.00	0.00	
16030.00†	90.373	359.630	9476.83	5745.04	5747.05	292.61	738232.60	515813.89	32°24'56.5956"N	103°33'40.8041"W	0.00	0.00	0.00	
16130.00†	90.373	359.630	9476.18	5845.04	5847.05	291.97	738231.96	515913.88	32°24'57.5851"N	103°33'40.8032"W	0.00	0.00	0.00	
16230.00†	90.373	359.630	9475.53	5945.04	5947.04	291.32	738231.31	516013.88	32°24'58.5746"N	103°33'40.8023"W	0.00	0.00	0.00	
16330.00†	90.373	359.630	9474.88	6045.04	6047.04	290.68	738230.67	516113.87	32°24'59.5641"N	103°33'40.8014"W	0.00	0.00	0.00	
16430.00†	90.373	359.630	9474.23	6145.03	6147.04	290.03	738230.02	516213.86	32°25'0.5536"N	103°33'40.8005"W	0.00	0.00	0.00	
16530.00†	90.373	359.630	9473.58	6245.03	6247.03	289.38	738229.38	516313.86	32°25'1.5431"N	103°33'40.7996"W	0.00	0.00	0.00	
16630.00†	90.373	359.630	9472.93	6345.03	6347.03	288.74	738228.73	516413.85	32°25'2.5326"N	103°33'40.7987"W	0.00	0.00	0.00	
16730.00†	90.373	359.630	9472.28	6445.03	6447.02	288.09	738228.08	516513.84	32°25'3.5221"N	103°33'40.7978"W	0.00	0.00	0.00	

Planned Wellpath Report

DL 10 3 Kraken Fed Com No. 209H Rev-A.0

REFERENCE WELLPATH IDENTIFICATION			
Operator	**Chevron U.S.A. Inc.**	Well	**DL 10 3 Kraken Fed Com No. 209H**
Field	**Bone Spring (Lea County, NM) NAD27**	API/Legal	
Facility	**Dagger Lake Kraken Fed Com Pad**	Wellbore	**DL 10 3 Kraken Fed Com No. 209H**
Slot	**DL 10 3 Kraken Fed Com No. 209H**		

WELLPATH DATA (220 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
16830.00†	90.373	359.630	9471.63	6545.03	6547.02	287.45	738227.44	516613.84	32°25'4.5116"N	103°33'40.7969"W	0.00	0.00	0.00	
16930.00†	90.373	359.630	9470.98	6645.02	6647.01	286.80	738226.79	516713.83	32°25'5.5011"N	103°33'40.7960"W	0.00	0.00	0.00	
17030.00†	90.373	359.630	9470.32	6745.02	6747.01	286.16	738226.15	516813.82	32°25'6.4906"N	103°33'40.7951"W	0.00	0.00	0.00	
17130.00†	90.373	359.630	9469.67	6845.02	6847.01	285.51	738225.50	516913.81	32°25'7.4801"N	103°33'40.7942"W	0.00	0.00	0.00	
17230.00†	90.373	359.630	9469.02	6945.02	6947.00	284.86	738224.86	517013.81	32°25'8.4696"N	103°33'40.7933"W	0.00	0.00	0.00	
17330.00†	90.373	359.630	9468.37	7045.02	7047.00	284.22	738224.21	517113.80	32°25'9.4590"N	103°33'40.7924"W	0.00	0.00	0.00	
17430.00†	90.373	359.630	9467.72	7145.01	7146.99	283.57	738223.57	517213.79	32°25'10.4485"N	103°33'40.7915"W	0.00	0.00	0.00	
17530.00†	90.373	359.630	9467.07	7245.01	7246.99	282.93	738222.92	517313.79	32°25'11.4380"N	103°33'40.7906"W	0.00	0.00	0.00	
17630.00†	90.373	359.630	9466.42	7345.01	7346.99	282.28	738222.27	517413.78	32°25'12.4275"N	103°33'40.7898"W	0.00	0.00	0.00	
17730.00†	90.373	359.630	9465.77	7445.01	7446.98	281.64	738221.63	517513.77	32°25'13.4170"N	103°33'40.7889"W	0.00	0.00	0.00	
17830.00†	90.373	359.630	9465.12	7545.01	7546.98	280.99	738220.98	517613.77	32°25'14.4065"N	103°33'40.7880"W	0.00	0.00	0.00	
17848.22	90.373	359.630	9465.00[4]	7563.23	7565.20	280.87	738220.86	517631.99	32°25'14.5868"N	103°33'40.7878"W	0.00	0.00	0.00	Start Build
17885.80	91.124	359.630	9464.51	7600.80	7602.77	280.63	738220.62	517669.55	32°25'14.9586"N	103°33'40.7875"W	2.00	2.00	0.00	End Build
17930.00†	91.124	359.630	9463.64	7644.99	7646.96	280.34	738220.34	517713.75	32°25'15.3959"N	103°33'40.7871"W	0.00	0.00	0.00	
18030.00†	91.124	359.630	9461.68	7744.97	7746.94	279.70	738219.69	517813.72	32°25'16.3852"N	103°33'40.7862"W	0.00	0.00	0.00	
18130.00†	91.124	359.630	9459.72	7844.95	7846.92	279.05	738219.05	517913.70	32°25'17.3746"N	103°33'40.7853"W	0.00	0.00	0.00	
18230.00†	91.124	359.630	9457.76	7944.93	7946.90	278.41	738218.40	518013.68	32°25'18.3639"N	103°33'40.7844"W	0.00	0.00	0.00	
18330.00†	91.124	359.630	9455.79	8044.92	8046.88	277.76	738217.75	518113.65	32°25'19.3532"N	103°33'40.7835"W	0.00	0.00	0.00	
18430.00†	91.124	359.630	9453.83	8144.90	8146.86	277.12	738217.11	518213.63	32°25'20.3425"N	103°33'40.7826"W	0.00	0.00	0.00	
18530.00†	91.124	359.630	9451.87	8244.88	8246.83	276.47	738216.46	518313.60	32°25'21.3319"N	103°33'40.7817"W	0.00	0.00	0.00	
18630.00†	91.124	359.630	9449.91	8344.86	8346.81	275.82	738215.82	518413.58	32°25'22.3212"N	103°33'40.7808"W	0.00	0.00	0.00	
18730.00†	91.124	359.630	9447.94	8444.84	8446.79	275.18	738215.17	518513.55	32°25'23.3105"N	103°33'40.7799"W	0.00	0.00	0.00	
18830.00†	91.124	359.630	9445.98	8544.82	8546.77	274.53	738214.53	518613.53	32°25'24.2998"N	103°33'40.7790"W	0.00	0.00	0.00	
18930.00†	91.124	359.630	9444.02	8644.80	8646.75	273.89	738213.88	518713.51	32°25'25.2891"N	103°33'40.7781"W	0.00	0.00	0.00	
19030.00†	91.124	359.630	9442.06	8744.78	8746.73	273.24	738213.23	518813.48	32°25'26.2785"N	103°33'40.7772"W	0.00	0.00	0.00	
19130.00†	91.124	359.630	9440.09	8844.76	8846.71	272.60	738212.59	518913.46	32°25'27.2678"N	103°33'40.7764"W	0.00	0.00	0.00	
19230.00†	91.124	359.630	9438.13	8944.74	8946.69	271.95	738211.94	519013.43	32°25'28.2571"N	103°33'40.7755"W	0.00	0.00	0.00	
19330.00†	91.124	359.630	9436.17	9044.72	9046.66	271.30	738211.30	519113.41	32°25'29.2464"N	103°33'40.7746"W	0.00	0.00	0.00	
19430.00†	91.124	359.630	9434.21	9144.70	9146.64	270.66	738210.65	519213.39	32°25'30.2358"N	103°33'40.7737"W	0.00	0.00	0.00	
19530.00†	91.124	359.630	9432.25	9244.68	9246.62	270.01	738210.00	519313.36	32°25'31.2251"N	103°33'40.7728"W	0.00	0.00	0.00	

Planned Wellpath Report

DL 10 3 Kraken Fed Com No. 209H Rev-A.0

REFERENCE WELLPATH IDENTIFICATION			
Operator	**Chevron U.S.A. Inc.**	Well	**DL 10 3 Kraken Fed Com No. 209H**
Field	**Bone Spring (Lea County, NM) NAD27**	API/Legal	
Facility	**Dagger Lake Kraken Fed Com Pad**	Wellbore	**DL 10 3 Kraken Fed Com No. 209H**
Slot	**DL 10 3 Kraken Fed Com No. 209H**		

WELLPATH DATA (220 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
19630.00†	91.124	359.630	9430.28	9344.67	9346.60	269.37	738209.36	519413.34	32°25'32.2144"N	103°33'40.7719"W	0.00	0.00	0.00	
19730.00†	91.124	359.630	9428.32	9444.65	9446.58	268.72	738208.71	519513.31	32°25'33.2037"N	103°33'40.7710"W	0.00	0.00	0.00	
19830.00†	91.124	359.630	9426.36	9544.63	9546.56	268.07	738208.07	519613.29	32°25'34.1931"N	103°33'40.7701"W	0.00	0.00	0.00	
19930.00†	91.124	359.630	9424.40	9644.61	9646.54	267.43	738207.42	519713.27	32°25'35.1824"N	103°33'40.7692"W	0.00	0.00	0.00	
20030.00†	91.124	359.630	9422.43	9744.59	9746.51	266.78	738206.78	519813.24	32°25'36.1717"N	103°33'40.7683"W	0.00	0.00	0.00	
20130.00†	91.124	359.630	9420.47	9844.57	9846.49	266.14	738206.13	519913.22	32°25'37.1610"N	103°33'40.7674"W	0.00	0.00	0.00	
20230.00†	91.124	359.630	9418.51	9944.55	9946.47	265.49	738205.48	520013.19	32°25'38.1504"N	103°33'40.7665"W	0.00	0.00	0.00	
20330.00†	91.124	359.630	9416.55	10044.53	10046.45	264.85	738204.84	520113.17	32°25'39.1397"N	103°33'40.7656"W	0.00	0.00	0.00	
20375.83†	91.124	359.630	9415.65	10090.36	10092.28	264.55	738204.54	520158.99	32°25'39.5931"N	103°33'40.7652"W	0.00	0.00	0.00	
20459.86	91.124	359.630	9414.00[5]	10174.37	10176.29	264.01	738204.00	520243.00	32°25'40.4244"N	103°33'40.7645"W	0.00	0.00	0.00	PBHL (25' FNBL)

HOLE & CASING SECTIONS - Ref Wellbore: DL 10 3 Kraken Fed Com No. 209H Ref Wellpath: DL 10 3 Kraken Fed Com No. 209H Rev-A.0

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.375in Casing	30.00	850.00	820.00	30.00	850.00	0.00	0.00	0.00	0.00
9.625in Casing	30.00	8315.00	8285.00	30.00	8200.00	0.00	0.00	-917.14	409.84
5.5in Casing	30.00	20459.86	20429.86	30.00	9414.00	0.00	0.00	10176.29	264.01

Planned Wellpath Report

DL 10 3 Kraken Fed Com No. 209H Rev-A.0

Page 10 of 10

REFERENCE WELLPATH IDENTIFICATION			
Operator	**Chevron U.S.A. Inc.**	Well	**DL 10 3 Kraken Fed Com No. 209H**
Field	**Bone Spring (Lea County, NM) NAD27**	API/Legal	
Facility	**Dagger Lake Kraken Fed Com Pad**	Wellbore	**DL 10 3 Kraken Fed Com No. 209H**
Slot	**DL 10 3 Kraken Fed Com No. 209H**		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
5) DL 10 3 Kraken Fed Com No. 209H PBHL	20459.86	9414.00	10176.29	264.01	**738204.00**	**520243.00**	32°25'40.4244"N	103°33'40.7645"W	point
DL 10 3 Kraken Fed Com No. 209H LTP	N/A	9415.48	10100.94	264.49	**738204.49**	**520167.65**	32°25'39.6788"N	103°33'40.7651"W	point
4) DL 10 3 Kraken Fed Com No. 209H TP3	17848.22	9465.00	7565.20	280.87	**738220.86**	**517631.99**	32°25'14.5868"N	103°33'40.7878"W	point
3) DL 10 3 Kraken Fed Com No. 209H TP2	15237.02	9482.00	4954.11	297.74	**738237.73**	**515020.97**	32°24'48.7492"N	103°33'40.8111"W	point
1) DL 10 3 Kraken Fed Com No. 209H FTP	9939.62	9494.00	-343.01	340.01	**738280.00**	**509724.00**	32°23'56.3316"N	103°33'40.7642"W	point
2) DL 10 3 Kraken Fed Com No. 209H TP1	12625.78	9504.00	2343.05	318.54	**738258.53**	**512409.98**	32°24'22.9114"N	103°33'40.7884"W	point

SURVEY PROGRAM - Ref Wellbore: DL 10 3 Kraken Fed Com No. 209H Ref Wellpath: DL 10 3 Kraken Fed Com No. 209H Rev-A.0

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
30.00	850.00	OWSG MWD rev2 + HRGM		DL 10 3 Kraken Fed Com No. 209H
850.00	8400.00	OWSG MWD rev2 + HRGM		DL 10 3 Kraken Fed Com No. 209H
8400.00	20459.86	OWSG MWD rev2 + HRGM		DL 10 3 Kraken Fed Com No. 209H

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

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

1. SUMMARY OF REQUEST:

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

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

2. Description of Operations

1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
   - **a.** After drilling the surface hole section, the spudder rig will run casing and cement following all the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
   - **b.** The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.

2. The wellhead will be installed and then tested offline after the WOC time has been reached.

3. An abandonment cap at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on one wing-valve.
   - **a.** A means for intervention will be maintained while the drilling rig is not over the well.

4. Spudder rig operations are expected to take 2-3 days per well on the pad.

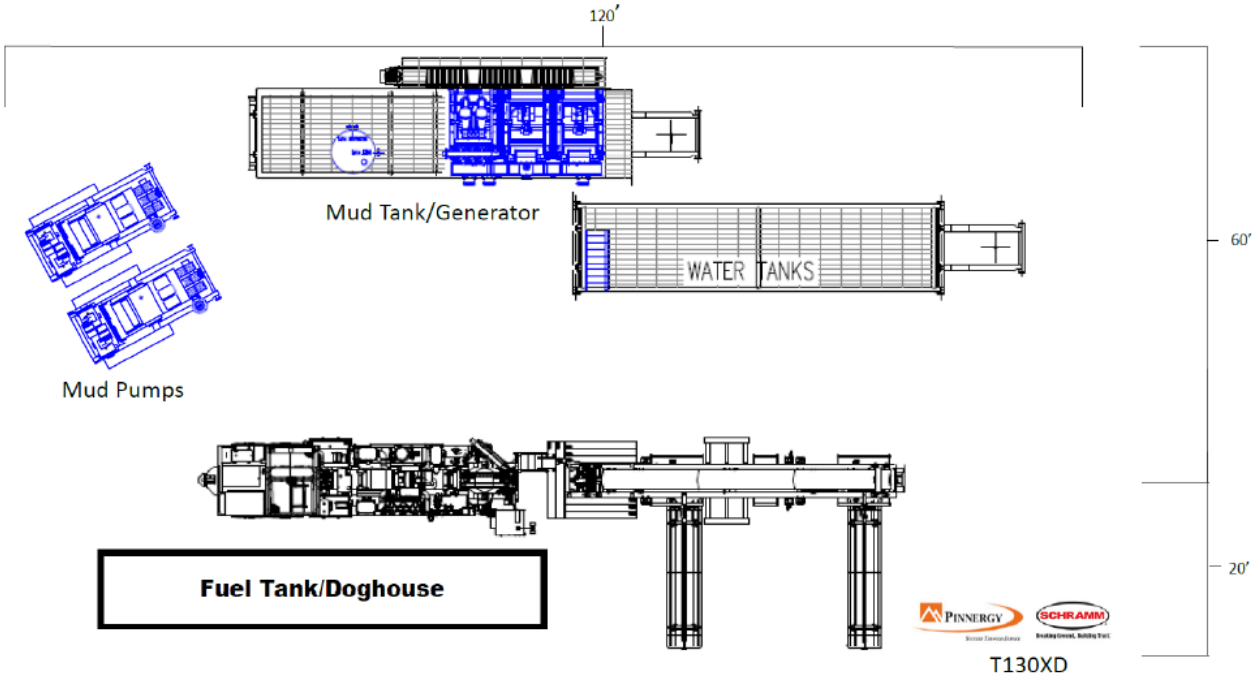
5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.

6. Drilling operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nippled up and tested on the wellhead before drilling operations resume on each well.
   - **a.** The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.
   - **b.** The BLM will be contacted / notified 24 hours before the larger rig moves back on the pre-set locations.

7. CUSA will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.

8. Once the rig is removed, CUSA will secure the wellhead area by placing a guard rail around the cellar area.

Surface Rig Layout



Delaware Basin
Variance / Sundry for Federal Well

Well Names:

Well Name	
DL 10 3 Kraken Fed Com	207H
DL 10 3 Kraken Fed Com	208H
DL 10 3 Kraken Fed Com	209H

Rig: Patterson 245

CVX CONTACT:

Phillipe Salanova
Drilling Engineer
MCBU D&C; New Mexico
psalanova@chevron.com
1400 Smith: 43005
Houston, TX 77002
713-372-1373 (office)

Request for execution

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

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

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

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

WELL INFORMATION

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

TEST DATA AND SCHEDULE

Time To Temp (min): 137 **Mud Density** (lb/gal): 9
Initial Press (psi): 610 **Mix Water Density** (lb/gal): 8.34
Final Press (psi): 5824 **Mix Water Type:** Rig Water
BHST (deg F): 155 **Surf Temp** (deg F): 80
BHCT (deg F): 141 **Job Type:** Intermediate
Comments: UCA: 80F to 155F in 4hrs. Apply full PSI from start of 5529psi

SLURRY AND TEST RESULTS

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

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

Compressive Strength

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

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

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

H_2S Preparedness and Contingency Plan Summary

Training

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

Awareness Level

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

1. Physical and chemical properties of H_2S
2. Health hazards of H_2S
3. Personal protective equipment
4. Information regarding potential sources of H_2S
5. Alarms and emergency evacuation procedures

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

Advanced Level H_2S Training

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

1. H_2S safe work practice procedures;
2. Emergency contingency plan procedures;
3. Methods to detect the presence or release of H_2S (e.g., alarms, monitoring equipment), including hands-on training with direct reading and personal monitoring H_2S equipment.
4. Basic overview of respiratory protective equipment suitable for use in H_2S environments. Note: Employees who work at sites that participate in the Chevron Respirator User program will require separate respirator training as required by the MCBU Respiratory Protection Program;
5. Basic overview of emergency rescue techniques, first aid, CPR and medical evaluation procedures. Employees who may be required to perform “standby” duties are required to receive additional first aid and CPR training, which is not covered in the Advanced Level H_2S training;
6. Proficiency examination covering all course material.

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

H_2S Preparedness and Contingency Plan Summary

H_2S Training Certification

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

Briefing Area

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

H_2S Equipment

Respiratory Protection

a) Six 30 minute SCBAs – 2 at each briefing area and 2 in the Safety Trailer.

b) Eight 5 minute EBAs – 5 in the dog house at the rig floor, 1 at the accumulator, 1 at the shale shakers and 1 at the mud pits.

Visual Warning System

a) One color code sign, displaying all possible conditions, will be placed at the entrance to the location with a flag displaying the current condition.

b) Two windsocks will be on location, one on the dog house and one on the Drill Site Manager's Trailer.

H_2S Detection and Monitoring System

a) H_2S monitoring system (sensor head, warning light and siren) placed throughout rig.

- Drilling Rig Locations: at a minimum, in the area of the Shale shaker, rig floor, and bell nipple.
- Workover Rig Locations: at a minimum, in the area of the Cellar, rig floor and circulating tanks or shale shaker.

H_2S Preparedness and Contingency Plan Summary

Well Control Equipment

a) Flare Line 150' from wellhead with igniter.

b) Choke manifold with a remotely operated choke.

c) Mud / gas separator

Mud Program

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

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

Public Safety - Emergency Assistance

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

H_2S Preparedness and Contingency Plan Summary

Chevron MCBU D&C Emergency Notifications

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

	Name	Title	Office Number	Cell Phone
1.	**TBD**	Drilling Engineer		
2.	TBD	Superintendent		
5.	Steve Hassmann	Drilling Manager	(713) 372-4496	832-729-3236
6.	Kyle Eastman	Operations Manager	TBD	281-755-6554
7.	TBD	D&C HES		
8.	TBD	Completion Engineer		

6. **MUD PROGRAM**

From	To	Type	Weight	Viscosity	Filtrate	Notes
0'	1,300'	Fresh water mud	8.3 - 9.0	28-30	N/C	
1,300'	4,865'	Brine/OBM	8.3 - 10.5	28-31	15-25	
4,865'	20,459'	OBM	8.3 - 10.5	28-60	15-25	Due to wellbore stability in the lateral well, MW will be adjusted as needed to ensure the hole doesn't collapse.

A closed system will be used consisting of above ground steel tanks. All wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in an approved sanitary landfill. Sanitary wastes will be contained in a chemical porta-toilet and then hauled to an approved sanitary landfill.

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

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

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

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

7. **TESTING, LOGGING, AND CORING**

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

TYPE	Logs	Interval	Timing
Mudlogs	2 man mudlog	Surface casing shoe through prod hole TD	While drilling or circulating
LWD	MWD Gamma	Int. and Prod. Hole	While Drilling

8. **ABNORMAL PRESSURES AND HYDROGEN SULFIDE**

a. No abnormal pressure or temperatures are expected. Estimated BHP is: 4,363 psi
b. Hydrogen sulfide gas is not anticipated. An H2S Contingency plan is attached with this APD in the event that H2S is encountered

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

Drilling Plan Data Report
04/02/2021

APD ID: 10400057160
Submission Date: 05/25/2020
Operator Name: CHEVRON USA INCORPORATED
Well Name: DL 10 3 KRAKEN FED COM
Well Number: 209H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
737897	RUSTLER	3558	1298	1298	DOLOMITE	NONE	N
737898	CASTILE	-17	3575	3575	ANHYDRITE	NONE	N
737899	LAMAR	-1311	4869	4869	LIMESTONE	NONE	N
737900	BELL CANYON	-1429	4987	4987	SANDSTONE	NONE	N
737901	CHERRY CANYON	-2241	5799	5799	SANDSTONE	NONE	N
737903	BRUSHY CANYON	-3494	7052	7052	SANDSTONE	NONE	N
737904	BONE SPRING	-5274	8832	8940	LIMESTONE, SHALE	NONE	N
737906	UPPER AVALON SHALE	-5856	9414	20460	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M
Rating Depth: 9414

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

Variance request: Chevron 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. A variance to use a CoFlex hose with a metal protective covering that will be utilized between the BOP and Choke manifold. Please refer to the attached testing and specification documents. - A variance from the Onshore Order 2 where it states: “A full BOP Test shall be performed: when initially installed and whenever any seal subject to test pressure is broken.” We propose to break test if able to finish the next hole section within 21 days of the previous full BOP test. No BOP components nor any break will ever surpass 21 days between testing. A break test will consist of a 250 psi low / 5,000 psi high for 10 min each test against the connection that was broken when skidding the rig. Upon the first nipple up of the pad a full BOP test will be performed. A break test will NOT be performed on our last production section. A break test will only be

Delaware Basin
Changes to APD for Federal Well

CHEVRON CONTACT:

PHILLIPE SALANOVA
DRILLING ENGINEER
1400 SMITH ST.
HOUSTON, TX 77002

DESK: HOU140/43RD FLOOR
CELL: 432-257-4140
EMAIL: PSALANOVA@CHEVRON.COM

Summary of Changes to MPD Submission

BOP Equipment – CoFlex Hose (Section 3 of 9 Point Drilling Plan in MPD)

BOP Equipment – CoFlex Hose

Summary: Variance to use a CoFlex hose between BOP and choke manifold not requested in original submittal.

As Defined in MPD:	As Planned on Well:
Variance to use CoFlex hose not requested.	Chevron requests a variance to use a CoFlex hose with a metal protective covering that will be utilized between the BOP and Choke manifold. Please refer to the attached testing and specification documents.

BLOWOUT PREVENTER SCHEMATIC

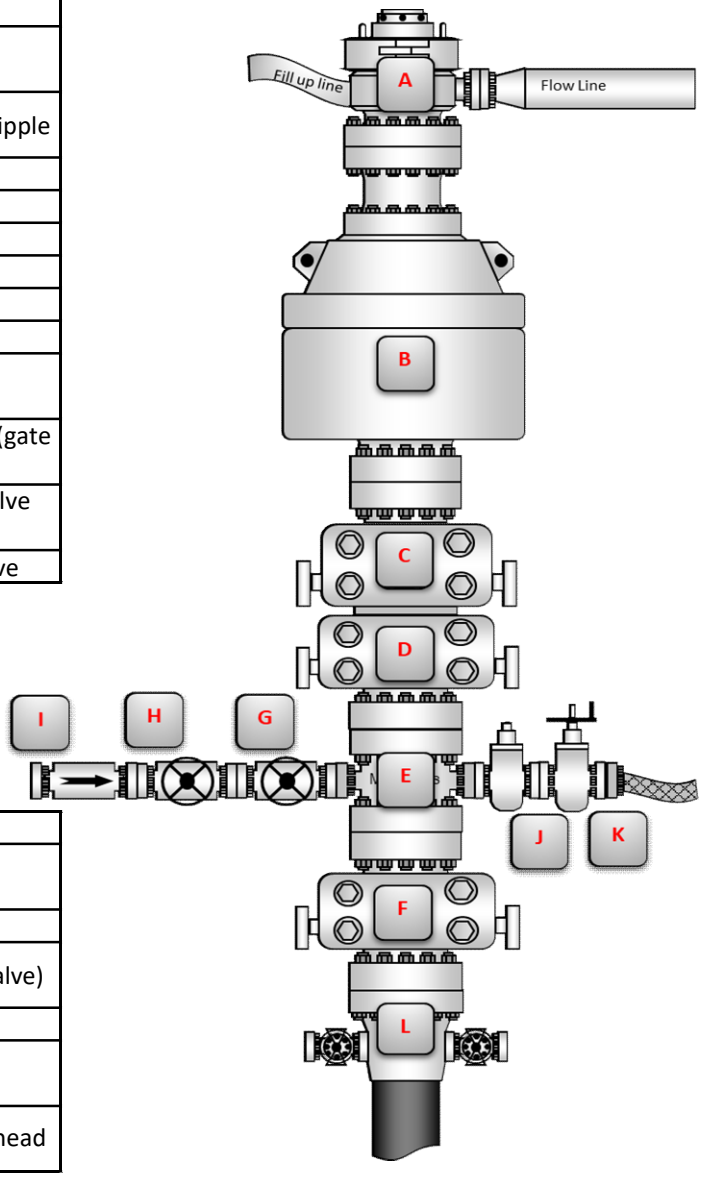
Operation:	Intermediate & Production Drilling Operations
Minimum System operation pressure	5,000 psi

BOP Stack

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

Kill Line

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



Choke line

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

Wellhead

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

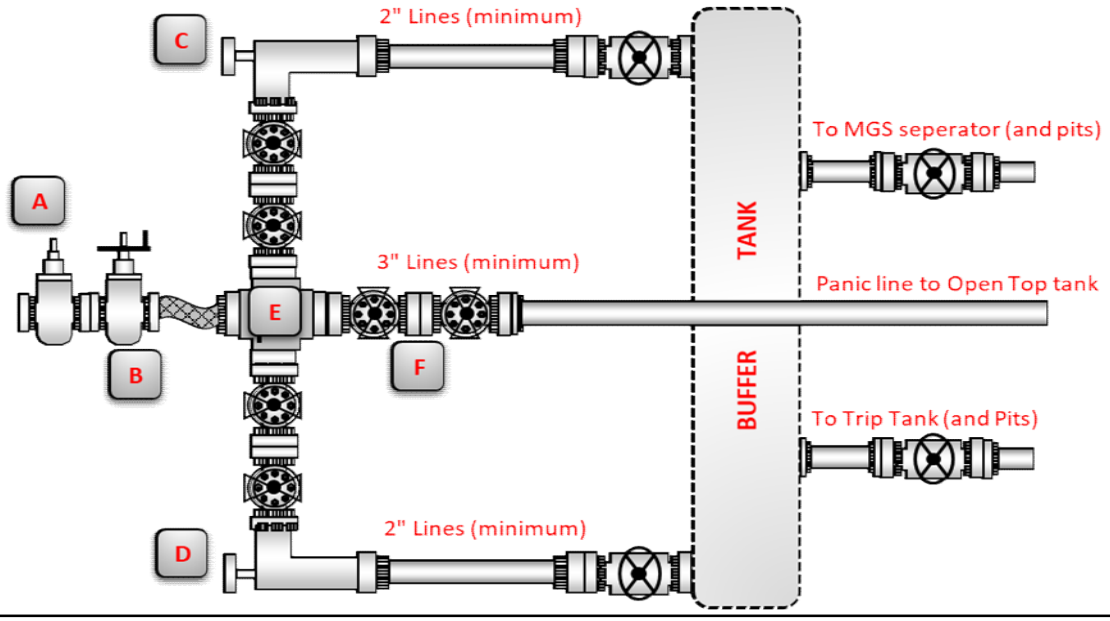
BOP Installation Checklist: *The following items must be verified and checked off prior to pressure testing BOP equipment*
The installed BOP equipment meets at least the minimum requirements (rating, type, size, configuration) as shown on this schematic. Components may be substituted for equivalent equipment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

CHOKE MANIFOLD SCHEMATIC

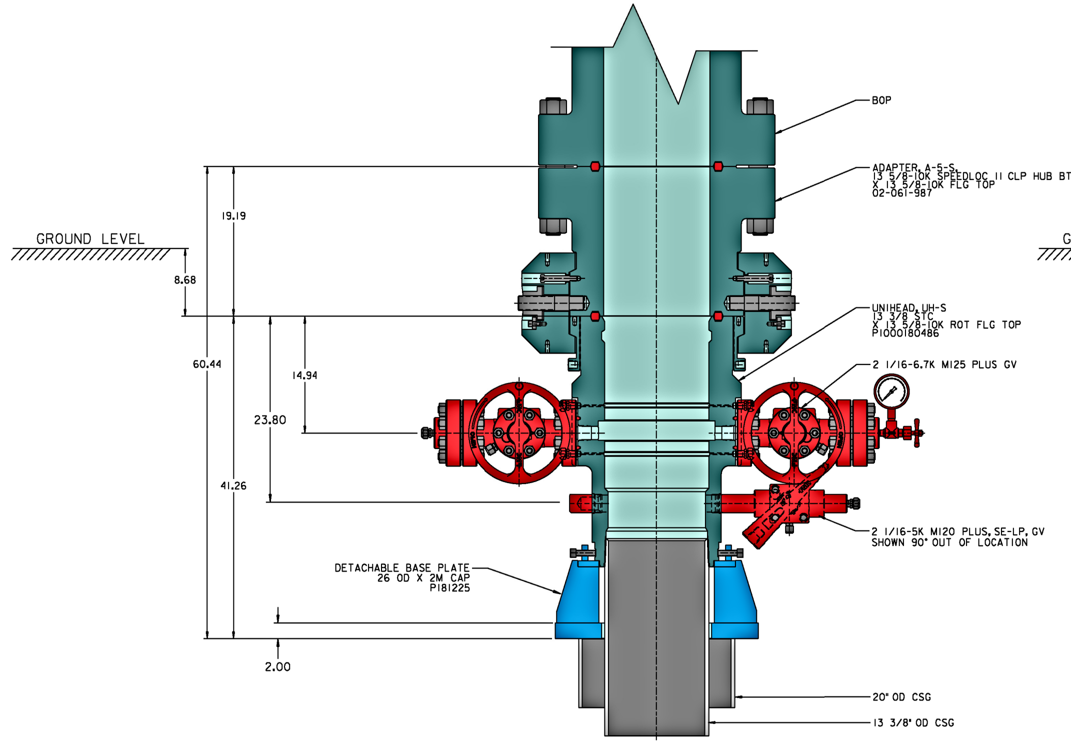
Operation:	Intermediate & Production
Minimum System operation pressure	5,000 psi

Choke Manifold

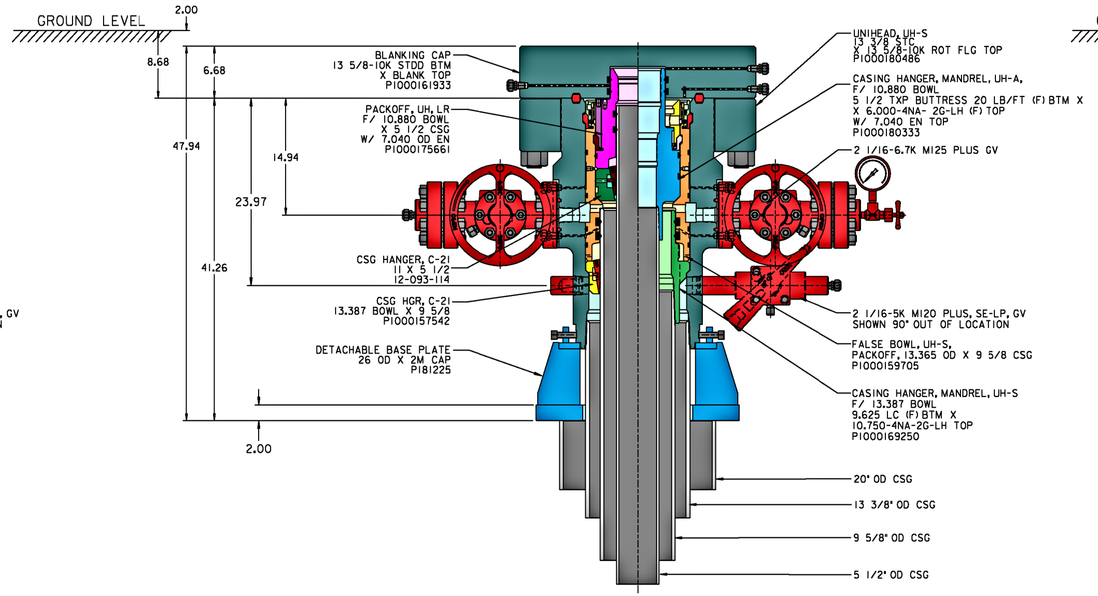
Part	Size	Pressure Rating	Description
A	3"	10,000	HCR (remotely operated)
B	3"	10,000	HCR (manually operated)
C	2"	10,000	Remotely operated choke
D	2"	10,000	Adjustable choke
E	3"	10,000	Crown valve with pressure gage
F	3"	10,000	Panic line valves



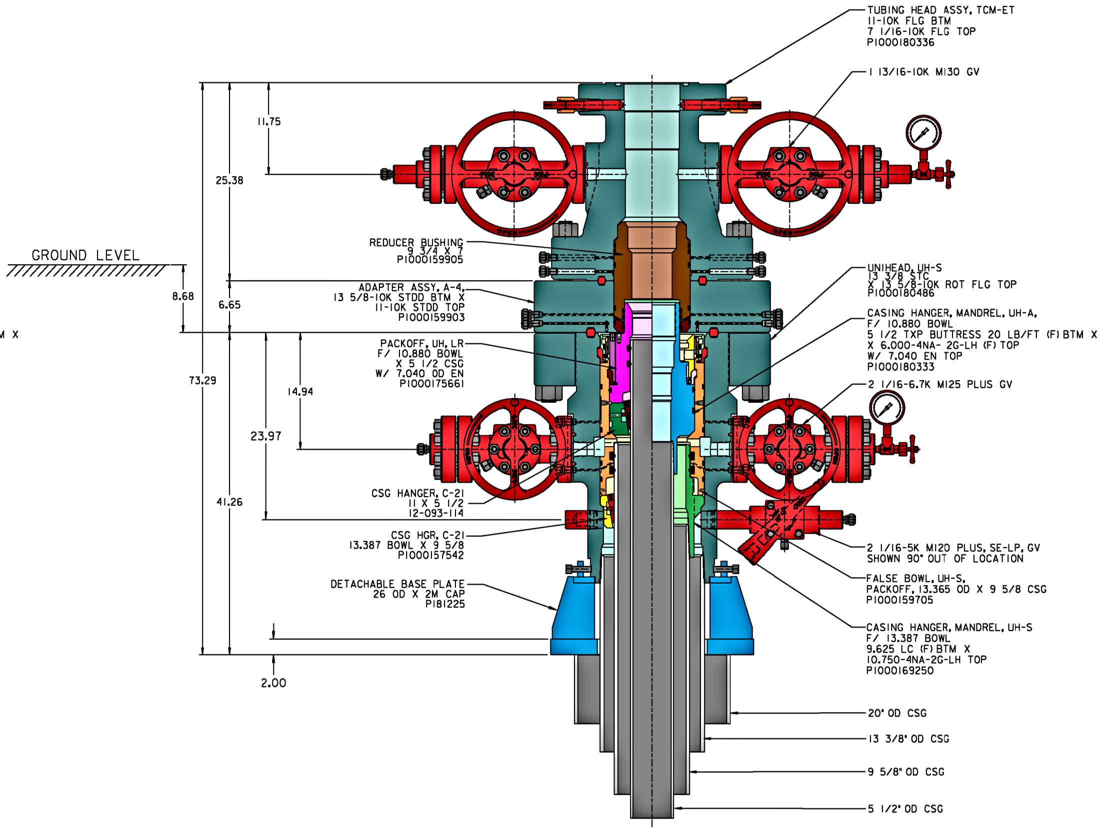
Choke Manifold Installation Checklist: *The following items must be verified and checked off prior to pressure testing BOP equipment*
The installed BOP equipment meets at least the minimum requirements (rating, type, size, configuration) as shown on this schematic. Components may be substituted for equivalent 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.
Adjustable chokes may be remotely operated but will have backup hand pump for hydraulic actuation in case of loss of rig air or power.
Flare and panic lines will terminate a minimum of 150' from the wellhead. These lines will terminate at a location as per approved APD.
All valves (except chokes) on choke line, kill line and choke manifold will be full opening and will allow straight through flow. This excludes any valves between the mud gas separator and shale shakers.
All manual valves will have hand wheels installed.
Flare systems will have an effective method for ignition.
All connections will be flanged, welded or clamped
If buffer tank is used, a valve will be used on all lines at any entry or exit point to or from the buffer tank.



DRILLING MODE



CAPPING MODE



COMPLETION MODE

6650 PSI UH-S

CHEVRON

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

QUOTE 20331133
F110262
DBD10143378
SEQ DWG: DM100262890
REF: DM100220685
DM100219485

PRIVATE AND CONFIDENTIAL	DESCRIPTION	DRAWN BY: T. PHAM	DATE: 03-07-17	TechnipFMC
UNLESS OTHERWISE AGREED TO IN WRITING, THIS DOCUMENT AND ALL THE INFORMATION CONTAINED HEREIN ARE THE CONFIDENTIAL AND EXCLUSIVE PROPERTY OF TechnipFMC AND MAY NOT BE REPRODUCED, USED, DISCLOSED, OR MADE PUBLIC IN ANY MANNER PRIOR TO EXPRESS WRITTEN AUTHORIZATION BY TechnipFMC. THIS DOCUMENT IS ACCEPTED BY RECIPIENT PURSUANT TO AGREEMENT TO THE FOREGOING, AND MUST BE RETURNED UPON DEMAND.	SURFACE WELLHEAD LAYOUT, UH-S, 20 X 13 3/8 X 9 5/8 X 5 1/2 CSG PROGRAM, 13 5/8-10K X 11-10K X 7 1/16-10K, CHEVRON, ODESSA	DRAFTING CHECK: Z. MARQUEZ	DATE: 03-07-17	
		DESIGN REVIEW: M. HUSSEINI	DATE: 08-25-17	SHEET SIZE NA
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		APPROVED BY: J. GARZA	DATE: 08-25-17	DRAWING NUMBER DM100233441

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

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

CONDITIONS

Action 27721

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 27721
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	6/23/2021
pkautz	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	6/23/2021