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

Sundry Print Report

04/02/2025

Well Name: CO RAPTOR 4 9 FED COM

Well Location: T25S / R32E / SEC 4 / SWNE / 32.160497 / -103.676177

County or Parish/State: LEA / NM

Well Number: 411H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM054031

Unit or CA Name:

Unit or CA Number: NMNM070928X

US Well Number: 3002553498

Operator: CHEVRON USA INCORPORATED

Notice of Intent

Sundry ID: 2827926

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 12/17/2024

Time Sundry Submitted: 02:48

Date proposed operation will begin: 12/17/2024

Procedure Description: CHEVRON USA INC REQUESTS TO MAKE THE FOLLOWING CHANGES TO THE CO RAPTOR 4 9 FED COM 411H (30-025-53498) NAME CHANGE, DEDICATED ACREAGE/HSU AND FIRST TAKE POINT o Old Name: CO RAPTOR 4 9 FED COM 411H o New Name: CO 4 9 FEDERAL COM 411H o Old Dedicated Acreage/HSU: 640 acres, E/2 Section 4-25S-32E & E/2 Section 9-25S-32E o New Dedicated Acreage/HSU: 480 acres, SE/4 Section 4-25S-32E & E/2 Section 9-25S-32E o Old First Take Point: 100' FNL, 1210' FEL o New First Take Point: 2615' FSL, 1210' FEL PLEASE SEE NEW C102 ATTACHED

NOI Attachments

Procedure Description

CO_4_9_Federal_Com_411H_C_102_Cert121224__SIGNED_20241217144741.pdf

Well Name: CO RAPTOR 4 9 FED COM

Well Location: T25S / R32E / SEC 4 / SWNE / 32.160497 / -103.676177

County or Parish/State: LEA / NM

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Lease Number: NMNM054031

Unit or CA Name:

Unit or CA Number: NMNM070928X

US Well Number: 3002553498

Operator: CHEVRON USA INCORPORATED

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: CINDY HERRERA-MURILLO

Signed on: DEC 17, 2024 02:47 PM

Name: CHEVRON USA INCORPORATED

Title: Permitting Specialist

Street Address: 1616 W BENDER BLVD

City: HOBBS **State:** NM

Phone: (575) 263-0431

Email address: EEOF@CHEVRON.COM

Field

Representative Name:

Street Address:

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

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 04/02/2025

Signature: Chris Walls

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No. NMNM054031

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No. NMNM070928X

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

8. Well Name and No. CO RAPTOR 4 9 FED COM/411H

2. Name of Operator CHEVRON USA INCORPORATED

9. API Well No. 3002553498

3a. Address PO BOX 1392, BAKERSFIELD, CA 93302

3b. Phone No. *(include area code)* (661) 633-4000

10. Field and Pool or Exploratory Area WC-025 G06 S253209L/BONE SPRIING

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)* SEC 4/T25S/R32E/NMP

11. Country or Parish, State LEA/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☑ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

CHEVRON USA INC REQUESTS TO MAKE THE FOLLOWING CHANGES TO THE CO RAPTOR 4 9 FED COM 411H (30-025-53498)
NAME CHANGE, DEDICATED ACREAGE/HSU AND FIRST TAKE POINT
o Old Name: CO RAPTOR 4 9 FED COM 411H
o New Name: CO 4 9 FEDERAL COM 411H
o Old Dedicated Acreage/HSU: 640 acres, E/2 Section 4-25S-32E & E/2 Section 9-25S-32E
o New Dedicated Acreage/HSU: 480 acres, SE/4 Section 4-25S-32E & E/2 Section 9-25S-32E
o Old First Take Point: 100' FNL, 1210' FEL
o New First Take Point: 2615' FSL, 1210' FEL
PLEASE SEE NEW C102 ATTACHED

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)* CINDY HERRERA-MURILLO / Ph: (575) 263-0431

Title Permitting Specialist

Signature (Electronic Submission)

Date 12/17/2024

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved

Title Petroleum Engineer

Date 04/02/2025

Conditions of approval, if any, are attached. Approval of this notice 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.

Office CARLSBAD

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.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law 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, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. 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 the 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., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.
ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.
EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.
Response to this request is mandatory.
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 ofthis form to U.S. Department ofthe Interior, Bureau ofLand Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: SWNE / 2269 FNL / 1533 FEL / TWSP: 25S / RANGE: 32E / SECTION: 4 / LAT: 32.160497 / LONG: -103.676177 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 0 FNL / 1210 FEL / TWSP: 25S / RANGE: 32E / SECTION: 9 / LAT: 32.152216 / LONG: -103.675359 (TVD: 10686 feet, MD: 11032 feet)

PPP: NENE / 100 FNL / 1210 FEL / TWSP: 25S / RANGE: 32E / SECTION: 4 / LAT: 32.166465 / LONG: -103.67497 (TVD: 10686 feet, MD: 11032 feet)

BHL: SESE / 25 FSL / 1210 FEL / TWSP: 25S / RANGE: 32E / SECTION: 9 / LAT: 32.137771 / LONG: -103.675344 (TVD: 10612 feet, MD: 18904 feet)

Santa Fe Main Office
Phone: (505) 476-3441 Fax: (55) 476-3462
General Information
Phone: (505) 629-6116

Online Phone Directory Visit:
https://www.emnrd.nm.gov/ocd/contact-us/

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

C-102
Revised July 9, 2024
Submit Electronically via OCD Permitting

Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-025-53498	96715	WC-025 G-06 S253209L; BONE SPRING

Property Code	Property Name	Well Number
~~336238~~ 337385	CO 4 9 FEDERAL COM	411H

OGRID No.	Operator Name	Ground Level Elevation
4323	CHEVRON U.S.A. INC.	3489'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
G	4	25 SOUTH	32 EAST, N.M.P.M.	N/A	2269' NORTH	1533' EAST	32.160497° N	103.676177° W	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	9	25 SOUTH	32 EAST, N.M.P.M.	N/A	25' SOUTH	1210' EAST	32.137771° N	103.675344° W	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
480	DEFINING	30-025-53498	NO	P, C

Order Numbers. N/A
Well setbacks are under Common Ownership: ☒Yes ☐No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	4	25 SOUTH	32 EAST, N.M.P.M.	N/A	2615' SOUTH	1210' EAST	32.159405° N	103.675164° W	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	4	25 SOUTH	32 EAST, N.M.P.M.	N/A	2615' SOUTH	1210' EAST	32.159405° N	103.675164° W	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	9	25 SOUTH	32 EAST, N.M.P.M.	N/A	100' SOUTH	1210' EAST	32.137977° N	103.675344° W	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type	Ground Floor Elevation:
CA PENDING	☒ Horizontal ☐ Vertical	3489'

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Cindy Herrera-Murillo 12/17/2024
Signature Date

Cindy Herrera-Murillo
Printed Name

eeof@chevron.com
Email Address

SURVEYOR CERTIFICATIONS

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.

See Sheet 2 of 2 for plat.

ROBERT L. LASTRAPES NEW MEXICO 23006 PROFESSIONAL SURVEYOR 12/12/2024

Signature and Seal of Professional Surveyor

06/24/2021
Certificate Number | Date of Survey

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ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

See Sheet 1 of 2 for notes & certification.

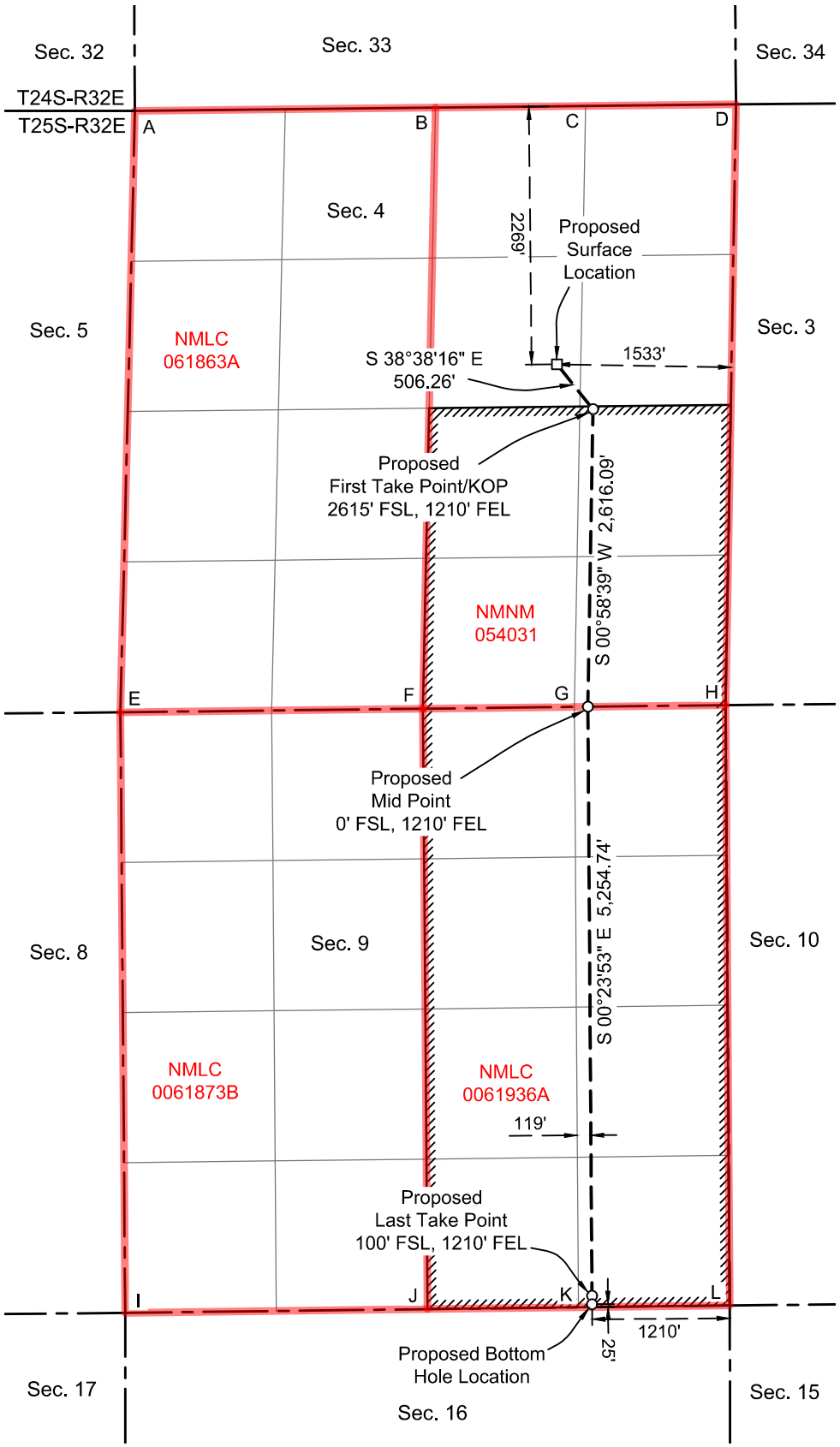
CO 4 9 FEDERAL COM 411H
X = 703,509.18' (NAD27 NM E)
Y = 422,686.66'
LAT. 32.160373° N (NAD27)
LONG. 103.675700° W
X = 744,694.30' (NAD83/2011 NM E)
Y = 422,744.82'
LAT. 32.160497° N (NAD83/2011)
LONG. 103.676177° W

PROPOSED FIRST TAKE POINT/KOP
X = 703,825.29' (NAD27 NM E)
Y = 422,291.22'
LAT. 32.159281° N (NAD27)
LONG. 103.674686° W
X = 745,010.42' (NAD83/2011 NM E)
Y = 422,349.37'
LAT. 32.159405° N (NAD83/2011)
LONG. 103.675164° W

PROPOSED MID POINT
X = 703,780.66' (NAD27 NM E)
Y = 419,675.51'
LAT. 32.152092° N (NAD27)
LONG. 103.674882° W
X = 744,965.91' (NAD83/2011 NM E)
Y = 419,733.60'
LAT. 32.152216° N (NAD83/2011)
LONG. 103.675359° W

PROPOSED LAST TAKE POINT
X = 703,816.64' (NAD27 NM E)
Y = 414,495.90'
LAT. 32.137853° N (NAD27)
LONG. 103.674868° W
X = 745,002.11' (NAD83/2011 NM E)
Y = 414,553.88'
LAT. 32.137977° N (NAD83/2011)
LONG. 103.675344° W

PROPOSED BOTTOM HOLE LOCATION
X = 703,817.16' (NAD27 NM E)
Y = 414,420.90'
LAT. 32.137647° N (NAD27)
LONG. 103.674868° W
X = 745,002.63' (NAD83/2011 NM E)
Y = 414,478.88'
LAT. 32.137771° N (NAD83/2011)
LONG. 103.675344° W



CORNER COORDINATES TABLE (NAD 27)

A - X= 699799.62, Y= 424915.87
B - X= 702440.68, Y= 424944.37
C - X= 703761.21, Y= 424958.61
D - X= 705081.74, Y= 424972.86
E - X= 699671.73, Y= 419627.04
F - X= 702331.15, Y= 419658.41
G - X= 703660.87, Y= 419674.10
H - X= 704990.58, Y= 419689.78
I - X= 699713.24, Y= 414345.61
J - X= 702370.25, Y= 414378.17
K - X= 703698.75, Y= 414394.45
L - X= 705027.26, Y= 414410.73

T:\2021\221347\8\DWG\CO 4 9 Federal Com 411H_C-102.dwg

Pad Summary: CO Pad 410

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.
CO Raptor 4 9 FED COM 410H	10,287	Second Bonespring
CO Raptor 4 9 FED COM 411H	10,653	Second Bonespring
CO Raptor 4 9 FED COM 412H	10,357	Second Bonespring

1. **GEOLOGICAL TOPS**

Elevation: As seen in C-102

The estimated tops of important geologic markers are as follows:

FORMATION	LITHOLOGIES	TVD	MD	Producing Formation?
Rustler (RSLR)	Sandstone	804	804	No
Salado (SLDO)	Anhydrite/Salt	1,129	1,129	No
Castile (CSTL)	Anhydrite/Salt	3,177	3,177	No
Lamar (LMAR)	Limestone/Shale	4,699	4,739	No
Bell Canyon (BEL)	Sandstone/Limestone	4,735	4,775	No
Cherry Canyon (CHR)	Sandstone/Siltstone	5,628	5,668	No
Brushy Canyon (BCN)	Sandstone/Limestone	7,056	7,131	No
Bone Spring (BSL)	Shale/Siltstone	8,619	8,637	No
Upper Avalon (AVU)	Shale	8,735	8,753	No
First Bone Spring Upper (FBU)	Sandstone/Shale	9,699	9,717	No
Second Bone Spring Upper (SBU)	Sandstone/Shale	10,301	10,319	Yes: Oil & Natural Gas

WELLBORE LOCATIONS	MD	TVD
SHL	-	-
KOP	10,131	10,113
FTP	11,032	10,686
LTP	18,828	10,613
BHL	18,904	10,612

2. **BOP EQUIPMENT AND TESTING**

Rating Depth 10,686 TVD

Equipment

Chevron will have a minimum of a 5,000 psi rig stack for drill out below surface casing

Request Variance: Yes
Variance Request(s)
Chevron respectfully request to vary from the 43 CFR 3172 where it states: "(A full BOP Test) shall be performed: when initially installed and whenever any seal subject to test pressure is broken." We propose to break test if able to finish the next hole section within 21 days of the previous full BOP test. No BOP components nor any break will ever surpass 21 days between testing. A break test will consist of a 250 psi low / ≥ 5,000 psi high for 10 min each test against the connection that was broken when skidding the rig. Upon the first nipple up of the pad a full BOP test will be performed. A full BOP test will be completed prior to drilling the production lateral sections unless the BOP connection was not broken prior to drilling that hole section (example: drilling straight from production into production liner hole section). A break test will only be performed on operations where BLM documentation states a 5M or less BOP can be utilized.

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

Chevron respectfully requests a variance from the 0.422" annular clearance requirement per 43 CFR3172 for the intermediate 1 (salt) section under the following condition:
1. Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing connection OD for the first 500' of overlap between both strings.

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

3. **CASING PROGRAM**

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

Purpose	Top (MD)	Top (TVD)	Bot (MD)	Bot (TVD)	Hole Size	Csg Size	Weight	Grade	Thread
Surface	0'	0'	1,030'	1,030'	17.5"	13.375"	54.5 #	J-55	BTC
Intermediate 1	0'	0'	4,719'	4,679'	12.25"	10.75"	40.5 #	J-55	BTC
Intermediate 2	0'	0'	10,131'	10,113'	9.875"	7.625"	29.7 #	P-110ICY	W441
Production Liner	9,931'	9,913'	18,904'	10,612'	6.75"	5."	13.0 #	P110-ICY	W421

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

b. **All casing strings will be new pipe.**
c. **Casing design depths subject to revision based on directional drilling and geologic conditions encountered.**
d. **Chevon will keep intermediate casing fluid filled at all times and while RIH. Chevron will check casing at a minimum of every 20 jts (~840'), and never to surpass ⅓ of casing, while running intermediate casing in order to maintain collapse SF.**

Casing String	Min SF Collapse	Min SF Burst	Min SF Axial (Joint)	Min SF Axial (Body)
Surface	2.34	1.95	16.19	15.20
Intermediate 1	Refer to attached casing design load analysis			
Intermediate 2	1.40	3.48	2.67	3.56
Production Liner	1.30	3.48	2.74	3.42

4. **CEMENTING PROGRAM**

Slurry	Type	Top	Bottom	*Quantity*	Yield	Density	%Excess	Volume	Additives
Surface Casing 13-3/8"				(sks)	(cuft/sk)	(ppg)		(cuft)	
Lead	Class C	0'	530'	91	2.29	12.8	25	208	Extender, Antifoam, Retarder, Viscosifier
Tail	Class C	530'	1,030'	663	1.35	14.8	25	894	Extender, Antifoam, Retarder, Viscosifier
Intermediate 1 Casing 10-3/4"									
Planned single stage cement job									
Lead	Class C	0'	3,719'	341	2.29	11.5	25	781	Extender, Antifoam, Retarder, Viscosifier
Tail	Class C	3,719'	4,719'	175	1.63	12.6	25	285	Extender, Antifoam, Retarder, Viscosifier
Contingency: Top Job									
1st Tail	Class C	0'	3,719'	818	1.35	14.8	25	1105	Extender, Antifoam, Retarder, Viscosifier
Intermediate 2 Casing 7-5/8"									
Planned single stage cement job									
Lead	Class C	0'	9,131'	650	3.52	10.5	25	2288	Extender, Antifoam, Retarder, Viscosifier
Tail	Class C	9,131'	10,131'	192	1.52	12.6	25	292	Extender, Antifoam, Retarder, Viscosifier
Contingency: Top Job									
1st Tail	Class C	0'	7,131'	1544	1.35	14.8	25	2084	Extender, Antifoam, Retarder, Viscosifier
Production Liner 5									
Lead	Class H	9,931'	18,904'	828	1.52	12.6	25	1258	Extender, Antifoam, Retarder, Viscosifier

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

5. MUD PROGRAM

Top	Bottom	Type	Min MW	Max MW at TD	Additional Charactistics
0'	1,030'	Spud Mud	8.3	9	
1,030'	4,719'	Brine	8.3	10.0	Saturated brine would be used through salt sections.
4,719'	10,131'	WBM/Brine	8.7	10.0	
10,131'	18,904'	OBM	9.0	10.0	Due to wellbore instability in the lateral, may exceed the MW window needed to maintain overburden stresses

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

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

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

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

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

6. TESTING, LOGGING, AND CORING

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

c. **Coring Operations are not planned.**

7. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

Anticipated BHP	**5,557**	psi
Anticipated BHT	**186**	°F
Anticipated abnormal pressures?	**No**	
Describe abnormal pressures	N/A - Pressure ramp begins in the bottom of the Third Bone Spring formation	
Contingency plan(s) description:	- Casing design accounts for pressure ramp - Mud weighting agents available on location to increase drilling fluid density - BOP, choke, and well control drills - BOP functioned and pressure tested	

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

8. OTHER ITEMS

a. **Batch drilling** will be employed whereby the drilling rig may drill a specific hole section on all wells prior to moving to the next hole section.
b. **Shallow rig** may be utilized to drill surface or intermediate sections. The production section will not be drilled by the shallow rig.
c. **Wait on cement** duration for surface and intermediate string(s) will be based on time for tail slurry to develop 500 psi compressive strength and will follow rules as laid out in 43 CFR 3172
d. **Offline cementing** will be employed on the hole sections that run a long string casing to surface. Offline cementing schematic below.

Schlumberger

CO Raptor 4 9 Fed Com 411H R2 mdv 20May22 Proposal Geodetic Report

(Def Plan)

Report Date:	May 20, 2022 - 04:20 PM	**Survey / DLS Computation:**	Minimum Curvature / Lubinski
Client:	Chevron	**Vertical Section Azimuth:**	180.060 ° (Grid North)
Field:	NM Lea County (NAD 27)	**Vertical Section Origin:**	0.000 ft, 0.000 ft
Structure / Slot:	Chevron CO Raptor 4 9 Fed Com Pad / 411H	**TVD Reference Datum:**	RKB = 28ft
Well:	CO Raptor 4 9 Fed Com 411H	**TVD Reference Elevation:**	3517.000 ft above MSL
Borehole:	CO Raptor 4 9 Fed Com 411H	**Seabed / Ground Elevation:**	3489.000 ft above MSL
UWI / API#:	Unknown / Unknown	**Magnetic Declination:**	6.371 °
Survey Name:	CO Raptor 4 9 Fed Com 411H R2 mdv 20May22	**Total Gravity Field Strength:**	998.4279mgn (9.80665 Based)
Survey Date:	May 20, 2022	**Gravity Model:**	GARM
Tort / AHD / DDI / ERD Ratio:	104.530 ° / 8816.106 ft / 6.212 / 0.825	**Total Magnetic Field Strength:**	47543.076 nT
Coordinate Reference System:	NAD27 New Mexico State Plane, Eastern Zone, US Feet	**Magnetic Dip Angle:**	59.742 °
Location Lat / Long:	N 32° 9' 37.34785", W 103° 40' 32.52186"	**Declination Date:**	May 20, 2022
Location Grid N/E Y/X:	N 422687.000 ftUS, E 703509.000 ftUS	**Magnetic Declination Model:**	HDGM 2022
CRS Grid Convergence Angle:	0.3501 °	**North Reference:**	Grid North
Grid Scale Factor:	0.99995653	**Grid Convergence Used:**	0.3501 °
Version / Patch:	2.10.829.1	**Total Corr Mag North->Grid North:**	6.0211 °
		Local Coord Referenced To:	Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	422687.00	703509.00	N 32 9 37.35	W 103 40 32.52
	100.00	0.00	61.34	100.00	0.00	0.00	0.00	0.00	422687.00	703509.00	N 32 9 37.35	W 103 40 32.52
	200.00	0.00	61.34	200.00	0.00	0.00	0.00	0.00	422687.00	703509.00	N 32 9 37.35	W 103 40 32.52
	300.00	0.00	61.34	300.00	0.00	0.00	0.00	0.00	422687.00	703509.00	N 32 9 37.35	W 103 40 32.52
	400.00	0.00	61.34	400.00	0.00	0.00	0.00	0.00	422687.00	703509.00	N 32 9 37.35	W 103 40 32.52
	500.00	0.00	61.34	500.00	0.00	0.00	0.00	0.00	422687.00	703509.00	N 32 9 37.35	W 103 40 32.52
	600.00	0.00	61.34	600.00	0.00	0.00	0.00	0.00	422687.00	703509.00	N 32 9 37.35	W 103 40 32.52
Build 1.5°/100ft	700.00	0.00	61.34	700.00	0.00	0.00	0.00	0.00	422687.00	703509.00	N 32 9 37.35	W 103 40 32.52
	800.00	1.50	61.34	799.99	-0.63	0.63	1.15	1.50	422687.63	703510.15	N 32 9 37.35	W 103 40 32.51
Rustler (RSLR)	*803.01*	*1.55*	*61.34*	*803.00*	*-0.67*	*0.67*	*1.22*	*1.50*	*422687.67*	*703510.22*	*N 32 9 37.35*	*W 103 40 32.51*
	900.00	3.00	61.34	899.91	-2.52	2.51	4.59	1.50	422689.51	703513.59	N 32 9 37.37	W 103 40 32.47
	1000.00	4.50	61.34	999.69	-5.66	5.65	10.33	1.50	422692.65	703519.33	N 32 9 37.40	W 103 40 32.40
Rustler Los Medaños Member	*1002.32*	*4.53*	*61.34*	*1002.00*	*-5.75*	*5.73*	*10.49*	*1.50*	*422692.73*	*703519.49*	*N 32 9 37.40*	*W 103 40 32.40*
Rustler Los Medaños M-1 siltstone unit	*1032.42*	*4.99*	*61.34*	*1032.00*	*-6.95*	*6.93*	*12.68*	*1.50*	*422693.93*	*703521.68*	*N 32 9 37.42*	*W 103 40 32.37*
Hold	1099.83	6.00	61.34	1099.10	-10.05	10.03	18.35	1.50	422697.03	703527.35	N 32 9 37.45	W 103 40 32.31
	1100.00	6.00	61.34	1099.27	-10.05	10.04	18.36	0.00	422697.03	703527.36	N 32 9 37.45	W 103 40 32.31
Saldo (SLDO)	*1129.89*	*6.00*	*61.34*	*1129.00*	*-11.56*	*11.53*	*21.10*	*0.00*	*422698.53*	*703530.10*	*N 32 9 37.46*	*W 103 40 32.28*
	1200.00	6.00	61.34	1198.72	-15.08	15.05	27.53	0.00	422702.05	703536.53	N 32 9 37.50	W 103 40 32.20
	1300.00	6.00	61.34	1298.17	-20.10	20.06	36.70	0.00	422707.06	703545.70	N 32 9 37.54	W 103 40 32.09
	1400.00	6.00	61.34	1397.63	-25.12	25.07	45.87	0.00	422712.07	703554.86	N 32 9 37.59	W 103 40 31.99
	1500.00	6.00	61.34	1497.08	-30.14	30.08	55.04	0.00	422717.08	703564.03	N 32 9 37.64	W 103 40 31.88
	1600.00	6.00	61.34	1596.53	-35.16	35.09	64.20	0.00	422722.09	703573.20	N 32 9 37.69	W 103 40 31.77
	1700.00	6.00	61.34	1695.99	-40.18	40.10	73.37	0.00	422727.10	703582.37	N 32 9 37.74	W 103 40 31.67
	1800.00	6.00	61.34	1795.44	-45.20	45.11	82.54	0.00	422732.11	703591.54	N 32 9 37.79	W 103 40 31.56
	1900.00	6.00	61.34	1894.89	-50.22	50.12	91.71	0.00	422737.12	703600.70	N 32 9 37.84	W 103 40 31.45
	2000.00	6.00	61.34	1994.34	-55.24	55.13	100.88	0.00	422742.13	703609.87	N 32 9 37.89	W 103 40 31.34
	2100.00	6.00	61.34	2093.80	-60.26	60.15	110.05	0.00	422747.14	703619.04	N 32 9 37.94	W 103 40 31.24
	2200.00	6.00	61.34	2193.25	-65.28	65.16	119.21	0.00	422752.15	703628.21	N 32 9 37.99	W 103 40 31.13
	2300.00	6.00	61.34	2292.70	-70.30	70.17	128.38	0.00	422757.16	703637.38	N 32 9 38.03	W 103 40 31.02
	2400.00	6.00	61.34	2392.15	-75.32	75.18	137.55	0.00	422762.17	703646.54	N 32 9 38.08	W 103 40 30.92
	2500.00	6.00	61.34	2491.61	-80.34	80.19	146.72	0.00	422767.19	703655.71	N 32 9 38.13	W 103 40 30.81
	2600.00	6.00	61.34	2591.06	-85.36	85.20	155.89	0.00	422772.20	703664.88	N 32 9 38.18	W 103 40 30.70
	2700.00	6.00	61.34	2690.51	-90.38	90.21	165.06	0.00	422777.21	703674.05	N 32 9 38.23	W 103 40 30.60
	2800.00	6.00	61.34	2789.96	-95.40	95.22	174.22	0.00	422782.22	703683.22	N 32 9 38.28	W 103 40 30.49
	2900.00	6.00	61.34	2889.42	-100.43	100.23	183.39	0.00	422787.23	703692.38	N 32 9 38.33	W 103 40 30.38
	3000.00	6.00	61.34	2988.87	-105.45	105.24	192.56	0.00	422792.24	703701.55	N 32 9 38.38	W 103 40 30.27
	3100.00	6.00	61.34	3088.32	-110.47	110.26	201.73	0.00	422797.25	703710.72	N 32 9 38.43	W 103 40 30.17
Castile (CSTL)	*3189.17*	*6.00*	*61.34*	*3177.00*	*-114.94*	*114.72*	*209.91*	*0.00*	*422801.72*	*703718.90*	*N 32 9 38.47*	*W 103 40 30.07*
	3200.00	6.00	61.34	3187.77	-115.49	115.27	210.90	0.00	422802.26	703719.89	N 32 9 38.48	W 103 40 30.06
	3300.00	6.00	61.34	3287.23	-120.51	120.28	220.07	0.00	422807.27	703729.06	N 32 9 38.52	W 103 40 29.95
	3400.00	6.00	61.34	3386.68	-125.53	125.29	229.24	0.00	422812.28	703738.22	N 32 9 38.57	W 103 40 29.85
	3500.00	6.00	61.34	3486.13	-130.55	130.30	238.40	0.00	422817.29	703747.39	N 32 9 38.62	W 103 40 29.74
	3600.00	6.00	61.34	3585.59	-135.57	135.31	247.57	0.00	422822.30	703756.56	N 32 9 38.67	W 103 40 29.63
	3700.00	6.00	61.34	3685.04	-140.59	140.32	256.74	0.00	422827.31	703765.73	N 32 9 38.72	W 103 40 29.53
	3800.00	6.00	61.34	3784.49	-145.61	145.33	265.91	0.00	422832.33	703774.90	N 32 9 38.77	W 103 40 29.42
	3900.00	6.00	61.34	3883.94	-150.63	150.34	275.08	0.00	422837.34	703784.07	N 32 9 38.82	W 103 40 29.31
	4000.00	6.00	61.34	3983.40	-155.65	155.35	284.25	0.00	422842.35	703793.23	N 32 9 38.87	W 103 40 29.20
Drop .75°/100ft	4051.72	6.00	61.34	4034.84	-158.25	157.95	288.99	0.00	422844.94	703797.98	N 32 9 38.89	W 103 40 29.15
	4100.00	5.64	61.34	4082.86	-160.60	160.29	293.28	0.75	422847.29	703802.27	N 32 9 38.92	W 103 40 29.10
	4200.00	4.89	61.34	4182.44	-165.00	164.69	301.33	0.75	422851.68	703810.31	N 32 9 38.96	W 103 40 29.01
	4300.00	4.14	61.34	4282.13	-168.78	168.46	308.23	0.75	422855.45	703817.21	N 32 9 39.00	W 103 40 28.92
	4400.00	3.39	61.34	4381.92	-171.94	171.61	313.98	0.75	422858.60	703822.97	N 32 9 39.03	W 103 40 28.86
	4500.00	2.64	61.34	4481.78	-174.46	174.12	318.59	0.75	422861.12	703827.58	N 32 9 39.05	W 103 40 28.80
	4600.00	1.89	61.34	4581.70	-176.35	176.02	322.05	0.75	422863.01	703831.04	N 32 9 39.07	W 103 40 28.76
	4700.00	1.14	61.34	4681.66	-177.62	177.28	324.36	0.75	422864.27	703833.35	N 32 9 39.08	W 103 40 28.74
Lamar (LMAR)	*4717.34*	*1.01*	*61.34*	*4699.00*	*-177.78*	*177.44*	*324.65*	*0.75*	*422864.43*	*703833.63*	*N 32 9 39.08*	*W 103 40 28.73*
Bell Canyon (BLCN)	*4753.34*	*0.74*	*61.34*	*4735.00*	*-178.04*	*177.70*	*325.13*	*0.75*	*422864.69*	*703834.11*	*N 32 9 39.09*	*W 103 40 28.73*
	4800.00	0.39	61.34	4781.65	-178.26	177.92	325.53	0.75	422864.91	703834.51	N 32 9 39.09	W 103 40 28.72
Hold Vertical	4851.39	0.00	61.34	4833.04	-178.34	178.00	325.68	0.75	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	4900.00	0.00	61.34	4881.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	5000.00	0.00	61.34	4981.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	5100.00	0.00	61.34	5081.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	5200.00	0.00	61.34	5181.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	5300.00	0.00	61.34	5281.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	5400.00	0.00	61.34	5381.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	5500.00	0.00	61.34	5481.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	5600.00	0.00	61.34	5581.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
Cherry Canyon (CRCN)	*5646.35*	*0.00*	*61.34*	*5628.00*	*-178.34*	*178.00*	*325.68*	*0.00*	*422864.99*	*703834.67*	*N 32 9 39.09*	*W 103 40 28.72*
	5700.00	0.00	61.34	5681.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	5800.00	0.00	61.34	5781.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	5900.00	0.00	61.34	5881.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	6000.00	0.00	61.34	5981.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	6100.00	0.00	61.34	6081.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	6200.00	0.00	61.34	6181.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	6300.00	0.00	61.34	6281.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	6400.00	0.00	61.34	6381.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	6500.00	0.00	61.34	6481.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	6600.00	0.00	61.34	6581.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	6700.00	0.00	61.34	6681.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	6800.00	0.00	61.34	6781.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	6900.00	0.00	61.34	6881.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	7000.00	0.00	61.34	6981.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
Brushy Canyon (BCN)	*7074.35*	*0.00*	*61.34*	*7056.00*	*-178.34*	*178.00*	*325.68*	*0.00*	*422864.99*	*703834.67*	*N 32 9 39.09*	*W 103 40 28.72*
	7100.00	0.00	61.34	7081.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72

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 ° ' ")
	7200.00	0.00	61.34	7181.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	7300.00	0.00	61.34	7281.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	7400.00	0.00	61.34	7381.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	7500.00	0.00	61.34	7481.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	7600.00	0.00	61.34	7581.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	7700.00	0.00	61.34	7681.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	7800.00	0.00	61.34	7781.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	7900.00	0.00	61.34	7881.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	8000.00	0.00	61.34	7981.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	8100.00	0.00	61.34	8081.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	8200.00	0.00	61.34	8181.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	8300.00	0.00	61.34	8281.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	8400.00	0.00	61.34	8381.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	8500.00	0.00	61.34	8481.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	8600.00	0.00	61.34	8581.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
Bone Spring (BSGL)	*8637.35*	*0.00*	*61.34*	*8619.00*	*-178.34*	*178.00*	*325.68*	*0.00*	*422864.99*	*703834.67*	*N 32 9 39.09*	*W 103 40 28.72*
	8700.00	0.00	61.34	8681.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
Upper Avalon (AVU)	*8753.35*	*0.00*	*61.34*	*8735.00*	*-178.34*	*178.00*	*325.68*	*0.00*	*422864.99*	*703834.67*	*N 32 9 39.09*	*W 103 40 28.72*
	8800.00	0.00	61.34	8781.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	8900.00	0.00	61.34	8881.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	9000.00	0.00	61.34	8981.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	9100.00	0.00	61.34	9081.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
Lower Avalon (AVL)	*9184.35*	*0.00*	*61.34*	*9166.00*	*-178.34*	*178.00*	*325.68*	*0.00*	*422864.99*	*703834.67*	*N 32 9 39.09*	*W 103 40 28.72*
	9200.00	0.00	61.34	9181.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	9300.00	0.00	61.34	9281.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	9400.00	0.00	61.34	9381.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	9500.00	0.00	61.34	9481.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	9600.00	0.00	61.34	9581.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	9700.00	0.00	61.34	9681.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
First Bone Spring Upper (FBS)	*9717.35*	*0.00*	*61.34*	*9699.00*	*-178.34*	*178.00*	*325.68*	*0.00*	*422864.99*	*703834.67*	*N 32 9 39.09*	*W 103 40 28.72*
	9800.00	0.00	61.34	9781.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	9900.00	0.00	61.34	9881.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
First Bone Spring Lower (FBL)	*9987.35*	*0.00*	*61.34*	*9969.00*	*-178.34*	*178.00*	*325.68*	*0.00*	*422864.99*	*703834.67*	*N 32 9 39.09*	*W 103 40 28.72*
	10000.00	0.00	61.34	9981.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	10100.00	0.00	61.34	10081.65	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
Build 10°/100ft	10131.39	0.00	61.34	10113.04	-178.34	178.00	325.68	0.00	422864.99	703834.67	N 32 9 39.09	W 103 40 28.72
	10200.00	6.86	180.96	10181.49	-174.24	173.90	325.61	10.00	422860.89	703834.60	N 32 9 39.05	W 103 40 28.72
	10300.00	16.86	180.96	10279.23	-153.71	153.37	325.27	10.00	422840.36	703834.25	N 32 9 38.85	W 103 40 28.73
Second Bone Spring Upper (SBU)	*10322.89*	*19.15*	*180.96*	*10301.00*	*-146.64*	*146.30*	*325.15*	*10.00*	*422833.29*	*703834.13*	*N 32 9 38.78*	*W 103 40 28.73*
	10400.00	26.86	180.96	10371.92	-116.53	116.19	324.64	10.00	422803.18	703833.63	N 32 9 38.48	W 103 40 28.74
	10500.00	36.86	180.96	10456.75	-63.81	63.48	323.75	10.00	422750.47	703832.74	N 32 9 37.96	W 103 40 28.75
	10600.00	46.86	180.96	10531.13	2.83	-3.16	322.63	10.00	422683.84	703831.62	N 32 9 37.30	W 103 40 28.77
	10700.00	56.86	180.96	10592.81	81.37	-81.70	321.31	10.00	422605.30	703830.30	N 32 9 36.52	W 103 40 28.79
	10800.00	66.86	180.96	10639.91	169.43	-169.76	319.83	10.00	422517.25	703828.81	N 32 9 35.65	W 103 40 28.81
	10900.00	76.86	180.96	10671.00	264.32	-264.66	318.23	10.00	422422.35	703827.22	N 32 9 34.71	W 103 40 28.84
	11000.00	86.86	180.96	10685.14	363.18	-363.51	316.57	10.00	422323.51	703825.55	N 32 9 33.73	W 103 40 28.87
Landing Point	11032.48	90.11	180.96	10686.00	395.64	-395.97	316.02	10.00	422291.05	703825.01	N 32 9 33.41	W 103 40 28.87
FTP Cross	*11032.51*	*90.11*	*180.96*	*10686.00*	*395.67*	*-396.00*	*316.02*	*0.00*	*422291.02*	*703825.01*	*N 32 9 33.41*	*W 103 40 28.87*
	11100.00	90.11	180.96	10685.87	463.15	-463.48	314.88	0.00	422223.54	703823.87	N 32 9 32.74	W 103 40 28.89
	11200.00	90.11	180.96	10685.68	563.14	-563.47	313.20	0.00	422123.56	703822.19	N 32 9 31.75	W 103 40 28.92
	11300.00	90.11	180.96	10685.49	663.13	-663.45	311.52	0.00	422023.58	703820.51	N 32 9 30.76	W 103 40 28.95
	11400.00	90.11	180.96	10685.29	763.11	-763.44	309.84	0.00	421923.60	703818.82	N 32 9 29.77	W 103 40 28.97
	11500.00	90.11	180.96	10685.10	863.10	-863.42	308.15	0.00	421823.62	703817.14	N 32 9 28.79	W 103 40 29.00
	11600.00	90.11	180.96	10684.91	963.09	-963.41	306.47	0.00	421723.64	703815.46	N 32 9 27.80	W 103 40 29.03
	11700.00	90.11	180.96	10684.72	1063.07	-1063.39	304.79	0.00	421623.65	703813.78	N 32 9 26.81	W 103 40 29.05
	11800.00	90.11	180.96	10684.53	1163.06	-1163.38	303.11	0.00	421523.67	703812.09	N 32 9 25.82	W 103 40 29.08
	11900.00	90.11	180.96	10684.34	1263.05	-1263.37	301.42	0.00	421423.69	703810.41	N 32 9 24.83	W 103 40 29.11
	12000.00	90.11	180.96	10684.15	1363.04	-1363.35	299.74	0.00	421323.71	703808.73	N 32 9 23.84	W 103 40 29.13
	12100.00	90.11	180.96	10683.96	1463.02	-1463.34	298.06	0.00	421223.73	703807.05	N 32 9 22.85	W 103 40 29.16
	12200.00	90.11	180.96	10683.77	1563.01	-1563.32	296.38	0.00	421123.75	703805.36	N 32 9 21.86	W 103 40 29.19
	12300.00	90.11	180.96	10683.58	1663.00	-1663.31	294.69	0.00	421023.77	703803.68	N 32 9 20.87	W 103 40 29.21
	12400.00	90.11	180.96	10683.38	1762.99	-1763.29	293.01	0.00	420923.79	703802.00	N 32 9 19.88	W 103 40 29.24
	12500.00	90.11	180.96	10683.19	1862.97	-1863.28	291.33	0.00	420823.81	703800.32	N 32 9 18.89	W 103 40 29.27
	12600.00	90.11	180.96	10683.00	1962.96	-1963.27	289.65	0.00	420723.82	703798.63	N 32 9 17.90	W 103 40 29.29
	12700.00	90.11	180.96	10682.81	2062.95	-2063.25	287.96	0.00	420623.84	703796.95	N 32 9 16.91	W 103 40 29.32
	12800.00	90.11	180.96	10682.62	2162.94	-2163.24	286.28	0.00	420523.86	703795.27	N 32 9 15.92	W 103 40 29.35
	12900.00	90.11	180.96	10682.43	2262.92	-2263.22	284.60	0.00	420423.88	703793.59	N 32 9 14.94	W 103 40 29.37
	13000.00	90.11	180.96	10682.24	2362.91	-2363.21	282.92	0.00	420323.90	703791.90	N 32 9 13.95	W 103 40 29.40
	13100.00	90.11	180.96	10682.05	2462.90	-2463.19	281.23	0.00	420223.92	703790.22	N 32 9 12.96	W 103 40 29.43
	13200.00	90.11	180.96	10681.86	2562.89	-2563.18	279.55	0.00	420123.94	703788.54	N 32 9 11.97	W 103 40 29.45
	13300.00	90.11	180.96	10681.66	2662.87	-2663.16	277.87	0.00	420023.96	703786.86	N 32 9 10.98	W 103 40 29.48
	13400.00	90.11	180.96	10681.47	2762.86	-2763.15	276.19	0.00	419923.98	703785.17	N 32 9 9.99	W 103 40 29.51
	13500.00	90.11	180.96	10681.28	2862.85	-2863.14	274.50	0.00	419823.99	703783.49	N 32 9 9.00	W 103 40 29.53
	13600.00	90.11	180.96	10681.09	2962.83	-2963.12	272.82	0.00	419724.01	703781.81	N 32 9 8.01	W 103 40 29.56
MP, Turn 2°/100ft	13648.02	90.11	180.96	10681.00	3010.85	-3011.14	272.01	0.00	419676.00	703781.00	N 32 9 7.54	W 103 40 29.57
	13700.00	90.11	179.92	10680.90	3062.83	-3063.11	271.61	2.00	419624.03	703780.60	N 32 9 7.02	W 103 40 29.58
Hold	13716.09	90.11	179.60	10680.87	3078.91	-3079.20	271.68	2.00	419607.94	703780.66	N 32 9 6.86	W 103 40 29.58
	13800.00	90.11	179.60	10680.71	3162.82	-3163.11	272.26	0.00	419524.03	703781.25	N 32 9 6.03	W 103 40 29.58
	13900.00	90.11	179.60	10680.51	3262.82	-3263.11	272.95	0.00	419424.04	703781.94	N 32 9 5.04	W 103 40 29.58
	14000.00	90.11	179.60	10680.32	3362.82	-3363.11	273.64	0.00	419324.05	703782.63	N 32 9 4.05	W 103 40 29.58
	14100.00	90.11	179.60	10680.12	3462.81	-3463.10	274.34	0.00	419224.05	703783.32	N 32 9 3.06	W 103 40 29.58
	14200.00	90.11	179.60	10679.93	3562.81	-3563.10	275.03	0.00	419124.06	703784.02	N 32 9 2.07	W 103 40 29.58
	14300.00	90.11	179.60	10679.74	3662.81	-3663.10	275.72	0.00	419024.07	703784.71	N 32 9 1.08	W 103 40 29.58
	14400.00	90.11	179.60	10679.54	3762.80	-3763.09	276.42	0.00	418924.08	703785.40	N 32 9 0.09	W 103 40 29.57
	14500.00	90.11	179.60	10679.35	3862.80	-3863.09	277.11	0.00	418824.08	703786.10	N 32 8 59.10	W 103 40 29.57
	14600.00	90.11	179.60	10679.15	3962.80	-3963.09	277.80	0.00	418724.09	703786.79	N 32 8 58.11	W 103 40 29.57
	14700.00	90.11	179.60	10678.96	4062.79	-4063.09	278.50	0.00	418624.10	703787.48	N 32 8 57.13	W 103 40 29.57
	14800.00	90.11	179.60	10678.77	4162.79	-4163.08	279.19	0.00	418524.10	703788.18	N 32 8 56.14	W 103 40 29.57
	14900.00	90.11	179.60	10678.57	4262.79	-4263.08	279.88	0.00	418424.11	703788.87	N 32 8 55.15	W 103 40 29.57
	15000.00	90.11	179.60	10678.38	4362.78	-4363.08	280.58	0.00	418324.12	703789.56	N 32 8 54.16	W 103 40 29.57
	15100.00	90.11	179.60	10678.18	4462.78	-4463.08	281.27	0.00	418224.13	703790.26	N 32 8 53.17	W 103 40 29.57
	15200.00	90.11	179.60	10677.99	4562.78	-4563.07	281.96	0.00	418124.13	703790.95	N 32 8 52.18	W 103 40 29.57
	15300.00	90.11	179.60	10677.80	4662.77	-4663.07	282.66	0.00	418024.14	703791.64	N 32 8 51.19	W 103 40 29.57
	15400.00	90.11	179.60	10677.60	4762.77	-4763.07	283.35	0.00	417924.15	703792.34	N 32 8 50.20	W 103 40 29.56
	15500.00	90.11	179.60	10677.41	4862.77	-4863.07	284.04	0.00	417824.15	703793.03	N 32 8 49.21	W 103 40 29.56
	15600.00	90.11	179.60	10677.21	4962.76	-4963.06	284.74	0.00	417724.16	703793.72	N 32 8 48.22	W 103 40 29.56
	15700.00	90.11	179.60	10677.02	5062.76	-5063.06	285.43	0.00	417624.17	703794.42	N 32 8 47.23	W 103 40 29.56
IFP1, Build 2°/100ft	15710.17	90.11	179.60	10677.00	5072.93	-5073.23	285.50	0.00	417614.00	703794.49	N 32 8 47.13	W 103 40 29.56
Hold	15763.36	91.17	179.60	10676.40	5126.12	-5126.42	285.87	2.00	417560.82	703794.86	N 32 8 46.60	W 103 40 29.56
	15800.00	91.17	179.60	10675.65	5162.74	-5163.05	286.13	0.00	417524.19	703795.12	N 32 8 46.24	W 103 40 29.56
	15900.00	91.17	179.60	10673.60	5262.72	-5263.02	286.84	0.00	417424.22	703795.82	N 32 8 45.25	W 103 40 29.56
	16000.00	91.17	179.60	10671.55	5362.70	-5363.00	287.54	0.00	417324.24	703796.53	N 32 8 44.26	W 103 40 29.56
	16100.00	91.17	179.60	10669.50	5462.67	-5462.98	288.25	0.00	417224.27	703797.23	N 32 8 43.27	W 103 40 29.56
	16200.00	91.17	179.60	10667.45	5562.65	-5562.95	288.95	0.00	417124.30	703797.94	N 32 8 42.28	W 103 40 29.56
	16300.00	91.17	179.60	10665.40	5662.62	-5662.93	289.66	0.00	417024.33	703798.64	N 32 8 41.29	W 103 40 29.56
	16400.00	91.17	179.60	10663.35	5762.60	-5762.91	290.36	0.00	416924.36	703799.35	N 32 8 40.30	W 103 40 29.55
	16500.00	91.17	179.60	10661.30	5862.57	-5862.88	291.07	0.00	416824.38	703800.05	N 32 8 39.31	W 103 40 29.55
	16600.00	91.17	179.60	10659.25	5962.55	-5962.86	291.77	0.00	416724.41	703800.76	N 32 8 38.33	W 103 40 29.55
	16700.00	91.17	179.60	10657.20	6062.53	-6062.84	292.48	0.00	416624.44	703801.46	N 32 8 37.34	W 103 40 29.55
	16800.00	91.17	179.60	10655.15	6162.50	-6162.81	293.18	0.00	416524.47	703802.17	N 32 8 36.35	W 103 40 29.55
	16900.00	91.17	179.60	10653.10	6262.48	-6262.79	293.89	0.00	416424.50	703802.87	N 32 8 35.36	W 103 40 29.55
	17000.00	91.17	179.60	10651.04	6362.45	-6362.76	294.59	0.00	416324.52	703803.58	N 32 8 34.37	W 103 40 29.55

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	17100.00	91.17	179.60	10648.99	6462.43	-6462.74	295.30	0.00	416224.55	703804.28	N 32 8 33.38	W 103 40 29.55
	17200.00	91.17	179.60	10646.94	6562.40	-6562.72	296.00	0.00	416124.58	703804.99	N 32 8 32.39	W 103 40 29.55
	17300.00	91.17	179.60	10644.89	6662.38	-6662.69	296.71	0.00	416024.61	703805.69	N 32 8 31.40	W 103 40 29.54
	17400.00	91.17	179.60	10642.84	6762.36	-6762.67	297.41	0.00	415924.64	703806.40	N 32 8 30.41	W 103 40 29.54
	17500.00	91.17	179.60	10640.79	6862.33	-6862.65	298.12	0.00	415824.67	703807.10	N 32 8 29.42	W 103 40 29.54
	17600.00	91.17	179.60	10638.74	6962.31	-6962.62	298.82	0.00	415724.69	703807.81	N 32 8 28.43	W 103 40 29.54
	17700.00	91.17	179.60	10636.69	7062.28	-7062.60	299.53	0.00	415624.72	703808.51	N 32 8 27.44	W 103 40 29.54
	17800.00	91.17	179.60	10634.64	7162.26	-7162.58	300.23	0.00	415524.75	703809.22	N 32 8 26.45	W 103 40 29.54
	17900.00	91.17	179.60	10632.59	7262.23	-7262.55	300.94	0.00	415424.78	703809.92	N 32 8 25.46	W 103 40 29.54
	18000.00	91.17	179.60	10630.54	7362.21	-7362.53	301.64	0.00	415324.81	703810.63	N 32 8 24.47	W 103 40 29.54
	18100.00	91.17	179.60	10628.49	7462.19	-7462.51	302.35	0.00	415224.83	703811.33	N 32 8 23.49	W 103 40 29.54
	18200.00	91.17	179.60	10626.44	7562.16	-7562.48	303.05	0.00	415124.86	703812.04	N 32 8 22.50	W 103 40 29.53
	18300.00	91.17	179.60	10624.39	7662.14	-7662.46	303.76	0.00	415024.89	703812.74	N 32 8 21.51	W 103 40 29.53
	18400.00	91.17	179.60	10622.34	7762.11	-7762.44	304.46	0.00	414924.92	703813.45	N 32 8 20.52	W 103 40 29.53
	18500.00	91.17	179.60	10620.29	7862.09	-7862.41	305.17	0.00	414824.95	703814.15	N 32 8 19.53	W 103 40 29.53
	18600.00	91.17	179.60	10618.24	7962.06	-7962.39	305.87	0.00	414724.97	703814.86	N 32 8 18.54	W 103 40 29.53
	18700.00	91.17	179.60	10616.18	8062.04	-8062.36	306.58	0.00	414625.00	703815.56	N 32 8 17.55	W 103 40 29.53
	18800.00	91.17	179.60	10614.13	8162.02	-8162.34	307.28	0.00	414525.03	703816.27	N 32 8 16.56	W 103 40 29.53
LTP Cross	*18828.87*	*91.17*	*179.60*	*10613.54*	*8190.87*	*-8191.20*	*307.48*	*0.00*	*414496.17*	*703816.47*	*N 32 8 16.27*	*W 103 40 29.53*
	18900.00	91.17	179.60	10612.08	8261.99	-8262.32	307.99	0.00	414425.06	703816.97	N 32 8 15.57	W 103 40 29.53
CO Raptor 4 9 Fed Com 411H - BHL	18904.06	91.17	179.60	10612.00	8266.05	-8266.38	308.01	0.00	414421.00	703817.00	N 32 8 15.53	W 103 40 29.53

Survey Type: Def Plan

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

Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	28.000	1/100.000	30.000	30.000		B001Mb_MWD+HRGM-Depth Only	CO Raptor 4 9 Fed Com 411H / CO Raptor 4 9 Fed Com 411H R2 mdv 20May22
	1	28.000	18904.059	1/100.000	30.000	30.000		B001Mb_MWD+HRGM	CO Raptor 4 9 Fed Com 411H / CO Raptor 4 9 Fed Com 411H R2

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Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 491577
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
matthew.gomez	Administrative order required for non-standard location prior to production.	10/16/2025
matthew.gomez	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.	10/16/2025
matthew.gomez	Property code is now 337385.	10/16/2025
matthew.gomez	Any previous COA's not addressed within the updated COA's still apply.	10/16/2025