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

Sundry Print Report

10/19/2023

Well Name: DOS EQUIS 11-14 FEDERAL COM

Well Location: T24S / R32E / SEC 11 / NENW /

County or Parish/State:

Well Number: 26H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM01917

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002550117

Well Status: Approved Application for Permit to Drill

Operator: CIMAREX ENERGY COMPANY

Notice of Intent

Sundry ID: 2726538

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/19/2023

Time Sundry Submitted: 09:34

Date proposed operation will begin: 07/10/2023

Procedure Description: Dos Equis 1114 Fed Com 26H - API 30-025-50117 Cimarex Energy Co. respectfully requests to change the approved APD as follows: LP/FTP Current: Unit N, Sec 11, T24S, R32E, 485 FNL & 2580 FWL LP/FTP New: Unit N, Sec 11, T24S, R32E, 100 FNL & 2310 FWL BHL/LTP Current: Unit N, Sec 14, T24S, R32E 100 FSL, 2580 FWL BHL/LTP New: Unit N, Sec 14, T24S, R32E 100 FSL, 2310 FWL TVD/TD Current: 12,900 TVD & 22,726 MD TVD/TD New: 11,440 TVD & 21,606 MD Coterra would like to request variances listed below: Variance Request #1: Coterra requests permission to skid the rig to the next well on the pad to begin operations immediately after the cement job for the surface casing has been completed. After the cement job is completed, no operations on the subject well will be conducted until at least 8 hours have elapsed and both lead and tail slurries have achieved 500 psi compressive strength. While cement cures, the surface casing of the subject well will be suspended in the well by a mandrel and landing ring system, which is independent from the rig and ensures that casing remains centered while the rig is active on other wells.

NOI Attachments

Procedure Description

Dos_Equis_11_14_Fed_Com_26H_Sundry_Attachments_10092023_20231010065848.pdf

Well Name: DOS EQUIS 11-14 FEDERAL COM	**Well Location:** T24S / R32E / SEC 11 / NENW /	**County or Parish/State:**
Well Number: 26H	**Type of Well:** OIL WELL	**Allottee or Tribe Name:**
Lease Number: NMNM01917	**Unit or CA Name:**	**Unit or CA Number:**
US Well Number: 3002550117	**Well Status:** Approved Application for Permit to Drill	**Operator:** CIMAREX ENERGY COMPANY

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: SHELLY BOWEN

Signed on: OCT 10, 2023 06:58 AM

Name: CIMAREX ENERGY COMPANY

Title: Regulatory Analyst

Street Address: 6001 DEAUVILLE BLVD STE 300N

City: MIDLAND **State:** TX

Phone: (432) 620-1644

Email address: DL_PBUREGULATORY@COTERRA.COM

Field

Representative Name:

Street Address:

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

Phone:

Email address:

BLM Point of Contact

BLM POC Name: ZOTA M STEVENS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752345998

BLM POC Email Address: ZSTEVENS@BLM.GOV

Disposition: Approved

Disposition Date: 10/13/2023

Signature: Zota Stevens

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.

6. If Indian, Allottee or Tribe Name

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

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

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool or Exploratory Area

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*

11. Country or Parish, State

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
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ 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.)

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by

Title

Date

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

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

Additional Remarks

Variance Request #1: Coterra requests permission to skid the rig to the next well on the pad to begin operations immediately after the cement job for the surface casing has been completed. After the cement job is completed, no operations on the subject well will be conducted until at least 8 hours have elapsed and both lead and tail slurries have achieved 500 psi compressive strength. While cement cures, the surface casing of the subject well will be suspended in the well by a mandrel and landing ring system, which is independent from the rig and ensures that casing remains centered while the rig is active on other wells.

Location of Well

0. SHL: NENW / 485 FNL / 1666 FWL / TWSP: 24S / RANGE: 32E / SECTION: 11 / LAT: 32.238073 / LONG: -103.648569 (TVD: 0 feet, MD: 0 feet)
PPP: NENW / 485 FNL / 2580 FWL / TWSP: 24S / RANGE: 32E / SECTION: 11 / LAT: 32.238077 / LONG: -103.645613 (TVD: 12900 feet, MD: 13471 feet)
PPP: NESW / 0 FNL / 2580 FWL / TWSP: 24S / RANGE: 32E / SECTION: 11 / LAT: 32.232147 / LONG: -103.645614 (TVD: 12900 feet, MD: 14903 feet)
BHL: SESW / 100 FSL / 2580 FWL / TWSP: 24S / RANGE: 32E / SECTION: 14 / LAT: 32.210648 / LONG: -103.645625 (TVD: 12900 feet, MD: 22726 feet)

Dos Equis 11-14 Fed Com 26H - API 30-025-50117

Cimarex Energy Co. respectfully requests to change the approved APD as follows:

LP/FTP Current: Unit N, Sec 11, T24S, R32E, 485 FNL & 2580 FWL
LP/FTP New: Unit N, Sec 11, T24S, R32E, 100 FNL & 2310 FWL
BHL/LTP Current: Unit N, Sec 14, T24S, R32E 100 FSL, 2580 FWL
BHL/LTP New: Unit N, Sec 14, T24S, R32E 100 FSL, 2310 FWL
TVD/TD Current: 12,900 TVD & 22,726 MD
TVD/TD New: 11,440 TVD & 21,606 MD

Coterra would like to request variances listed below:

- **Variance Request #1:** Coterra requests permission to skid the rig to the next well on the pad to begin operations immediately after the cement job for the surface casing has been completed. After the cement job is completed, no operations on the subject well will be conducted until at least 8 hours have elapsed and both lead and tail slurries have achieved 500 psi compressive strength. While cement cures, the surface casing of the subject well will be suspended in the well by a mandrel and landing ring system, which is independent from the rig and ensures that casing remains centered while the rig is active on other wells.

1. Geological Formations

TVD of target 11,440
MD at TD 21,606

Pilot Hole TD N/A
Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	1166	N/A	
Salado (Top Salt)	1390	N/A	
Base of Salt	4684	N/A	
Lamar	4910	N/A	
Bell Canyon	4965	N/A	
Cherry Canyon	5858	N/A	
Brushy Canyon	7222	Hydrocarbons	
Bone Spring	8779	Hydrocarbons	
Leonard Shale	8892	N/A	
Avalon	9219	Hydrocarbons	
1st Bone Spring Sand	9944	Hydrocarbons	
2nd Bone Spring Sand	10108	Hydrocarbons	
3rd Bone Spring Carb	11036	Hydrocarbons	
3rd Bone Spring Sand	11845	N/A	
Wolfcamp	12228	N/A	
Wolfcamp A1	12327	N/A	
Lower A1 Target	12340	Hydrocarbons	
Wolfcamp A2	12991	Hydrocarbons	

2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	1216	1216	13-3/8"	48.00	H-40	ST&C	1.40	3.28	5.52
12 1/4	0	4938	4938	9-5/8"	40.00	J-55	BT&C	1.26	1.49	3.19
8 3/4	0	10912	10912	7"	29.00	L-80	LT&C	1.37	1.60	1.78
8 3/4	10912	11662	11401	7"	29.00	P-110	BT&C	1.60	2.10	65.51
6	9912	21606	11440	4-1/2"	11.60	P-110	BT&C	1.34	1.90	20.71
					BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet

TVD was used on all calculations.
All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	N
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	N
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	N
Is 2nd string set 100' to 600' below the base of salt?	N
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	N
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	N
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	N
Is AC Report included?	Y

3. Cementing Program

Casing	# Sks	Wt. lb/gal	Yld ft3/sack	H2O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	589	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	158	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	928	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
	289	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Production	379	10.30	3.64	22.18		Lead: Tuned Light + LCM
	125	14.80	1.36	6.57	9.5	Tail: Class C + Retarder
Completion System	743	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS

Casing String	TOC	% Excess
Surface	0	45
Intermediate	0	51
Production	4738	25
Completion System	11402	10

Cimarex request the ability to perform casing integrity tests after plug bump of cement job.

4. Pressure Control Equipment

	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.

BOP installed and tested before drilling which hole?	Size	Min Required WP	Type		Tested To
12 1/4	13 5/8	2M	Annular	X	50% of working pressure
			Blind Ram		2M
			Pipe Ram		
			Double Ram	X	
			Other		
8 3/4	13 5/8	3M	Annular	X	50% of working pressure
			Blind Ram		3M
			Pipe Ram		
			Double Ram	X	
			Other		
6	13 5/8	5M	Annular	X	50% of working pressure
			Blind Ram		5M
			Pipe Ram	X	
			Double Ram	X	
			Other		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

X	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.	
X	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.	
	N	Are anchors required by manufacturer?

5. Mud Program

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0' to 1216'	Fresh Water	7.83 - 8.33	28	N/C
1216' to 4938'	Brine Water	9.80 - 10.30	30-32	N/C
4938' to 11662'	Cut Brine or OBM	8.50 - 9.00	27-70	N/C
11962' to 21606'	Cut Brine or OBM	9.00 - 9.50	27-70	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

6. Logging and Testing Procedures

	Logging, Coring and Testing
	Will run GR/CNL fromTD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
X	No logs are planned based on well control or offset log information.
	Drill stem test?
	Coring?

Additional Logs Planned	Interval

7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	5651 psi
Abnormal Temperature	No

	Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.
X	H2S is present
X	H2S plan is attached

8. Other Facets of Operation

9. Wellhead

A multi-bowl wellhead system will be utilized.

After running the 13-3/8" surface casing, a 13 5/8" BOP/BOPE system with a minimum working pressure of 5000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5000 psi test. Annular will be tested to 50% of working pressure. The pressure test will be repeated at least every 30 days, as per Onshore Order No. 2.

The multi-bowl wellhead will be installed by vendor's representative. A copy of the installation instructions has been sent to the BLM field office.

The wellhead will be installed by a third-party welder while being monitored by the wellhead vendor representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi.

A solid steel body pack-off will be utilized after running and cementing the production casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi.

All casing strings will be tested as per Onshore Order No.2 to atleast 0.22 psi/ft or 1,500 whichever is greater and not to exceed 70% of casing burst.

If well conditions dictate conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.

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
30-025-50117	98309	WC-025 G-08 S243213C; Wolfcamp

[4] Property Code	[5] Property Name	[6] Well Number
322999	DOS EQUIS 11-14 FEDERAL COM	26H

[7] OGRID No.	[8] Operator Name	[9] Elevation
215099	CIMAREX ENERGY CO.	3617.9'

[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
C	11	24S	32E		485	NORTH	1666	WEST	LEA

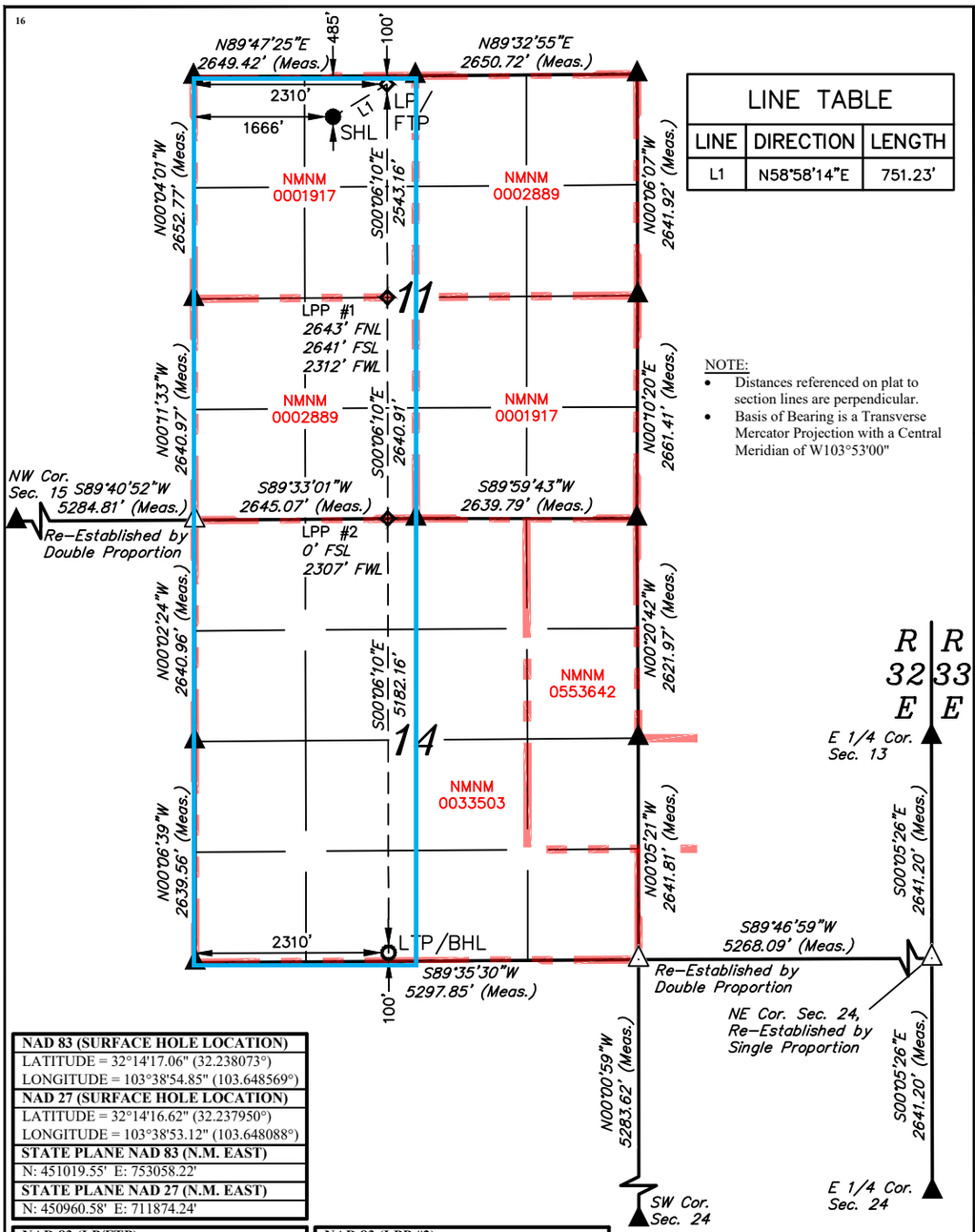
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	14	24S	32E		100	SOUTH	2310	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



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N58°58'14"E	751.23'

NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearing is a Transverse Mercator Projection with a Central Meridian of W103°53'00"

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°14'17.06" (32.238073°)
LONGITUDE = 103°38'54.85" (103.648569°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°14'16.62" (32.237950°)
LONGITUDE = 103°38'53.12" (103.648088°)
STATE PLANE NAD 83 (N.M. EAST)
N: 451019.55' E: 753058.22'
STATE PLANE NAD 27 (N.M. EAST)
N: 450960.58' E: 711874.24'

NAD 83 (LP/FTP)
LATITUDE = 32°14'20.88" (32.239134°)
LONGITUDE = 103°38'47.34" (103.646484°)
NAD 27 (LP/FTP)
LATITUDE = 32°14'20.44" (32.239010°)
LONGITUDE = 103°38'45.61" (103.646004°)
STATE PLANE NAD 83 (N.M. EAST)
N: 451409.42' E: 753700.21'
STATE PLANE NAD 27 (N.M. EAST)
N: 451350.44' E: 712516.24'

NAD 83 (LPP #2)
LATITUDE = 32°13'29.59" (32.224886°)
LONGITUDE = 103°38'47.37" (103.646491°)
NAD 27 (LPP #2)
LATITUDE = 32°13'29.15" (32.224763°)
LONGITUDE = 103°38'45.64" (103.646011°)
STATE PLANE NAD 83 (N.M. EAST)
N: 446226.36' E: 753731.22'
STATE PLANE NAD 27 (N.M. EAST)
N: 446167.51' E: 712547.03'

NAD 83 (LPP #1)
LATITUDE = 32°13'55.72" (32.232144°)
LONGITUDE = 103°38'47.36" (103.646488°)
NAD 27 (LPP #1)
LATITUDE = 32°13'55.27" (32.232021°)
LONGITUDE = 103°38'45.63" (103.646007°)
STATE PLANE NAD 83 (N.M. EAST)
N: 448866.76' E: 753715.42'
STATE PLANE NAD 27 (N.M. EAST)
N: 448807.84' E: 712531.34'

NAD 83 (LTP/BHL)
LATITUDE = 32°12'38.32" (32.210644°)
LONGITUDE = 103°38'47.39" (103.646498°)
NAD 27 (LTP/BHL)
LATITUDE = 32°12'37.87" (32.210521°)
LONGITUDE = 103°38'45.67" (103.646019°)
STATE PLANE NAD 83 (N.M. EAST)
N: 441045.21' E: 753762.21'
STATE PLANE NAD 27 (N.M. EAST)
N: 440986.48' E: 712577.79'

● = SURFACE HOLE LOCATION
◇ = LANDING POINT/FIRST TAKE POINT/LPP
○ = LAST TAKE POINT/ BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED
△ = SECTION CORNER RE-ESTABLISHED. (Not Set on Ground.)

2000' 1000' 0' 2000'

SCALE
DRAWN BY: S.F. 11-08-17
REV: 2 D.M.C. 02-07-23
(FTP & BHL CHANGE)

[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.

Brittany Gordon 4/16/2023
Signature Date

Brittany Gordon
Printed Name

brittany.gordon@coterra.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.

October 13, 2017
Date of Survey

Signature and Seal of Professional Surveyor:

PAUL BUCHELE NEW MEXICO 23782 02-07-23 PROFESSIONAL SURVEYOR

Certificate Number:

Geologic Prognosis

COTERRA

Well Information		Contact Information
Well Name: Dos Equis 11-14 Fed Com 26H	**County:** Lea	**Jenny Blake**
API #:	**State:** New Mexico	Office: (432) 571-7800
Dev/Exp: Exploration	**Field:**	Cell: (281) 639-4419
		Email: Jenny.Blake@coterra.com

Surface Hole Information

Footages:	Section:	Township/Block:	Range:	Direction
485' FNL / 1666' FWL	11	24S	32E	N-S

Bottom Hole Information

Footages:	Section:	Township/Block:	Range:
100' FSL / 2310' FWL	14	24S	32E

Staci Mueller
Office: (432) 571-7898
Cell: (406) 794-2287
Email: Staci.Mueller@coterra.com

Target Information

Harkey A Shale | **Landing TVD:** ***11,440'*** | **TD TVD:** ***11,440'***

Generated By:	Jenny Blake	Date Generated:	2/10/2023
Est. GL Elevation:	3649		
Est. KB above GL	23	Rig:	
Est. KB Elevation:	3713		

Horizon	TVD top	TVD base	SSTVD top	Thickness	Comments
Rustler	1166	1485	2483	319	Hardline 100' FSL/100' FNL &
Top Salt	1485	4918	2164	3433	280' FWL/280' FEL
Base Salt/Lamar	4918	4968	-1269	50	
Top Delaware Sands/Bell Canyon	4968	5794	-1319	826	
Cherry Canyon	5794	7124	-2145	1330	
Brushy Canyon	7124	8501	-3475	1377	
Basal Brushy Canyon	8501	8821	-4852	320	
Bone Spring Lime	8821	8917	-5172	96	
Leonard	8917	9298	-5268	381	
Avalon	9298	9936	-5649	638	
1st Bone Spring Sand	9936	10527	-6287	591	
2nd Bone Spring Sand	10527	11066	-6878	539	
3rd Bone Spring Carb	11066	11440	-7417	374	
Harkey A Target	**11440**	**N/A**	**-7727**	**N/A**	

Potential Geologic / Drilling Hazards: N/A

Type Log: 30025454130000

Offset Injection Wells:

Open Hole Logs: n/a
Service Provider:
Ops Contact:
Sales Contact:
Log Type:

Mudlogging Vendor: n/a

Schlumberger

Coterra Dos Equis 11-14 Federal Com 26H Rev0 kFc 22Mar23 Proposal
Geodetic Report
Def Plan

Report Date:	March 22, 2023 - 05:54 PM (UTC 0)	**Survey / DLS Computation:**	Minimum Curvature / Lubinski
Client:	COTERRA	**Vertical Section Azimuth:**	179.657 °(GRID North)
Field:	NM Lea County (NAD 83)	**Vertical Section Origin:**	0.000 ft, 0.000 ft
Structure / Slot:	Coterra Dos Equis 11-14 Federal Com Pad (C)	**TVD Reference Datum:**	RKB
Well:	Dos Equis 11-14 Federal Com 26H	**TVD Reference Elevation:**	3640.900 ft above MSL
Borehole:	Dos Equis 11-14 Federal Com 26H	**Seabed / Ground Elevation:**	3617.900 ft above MSL
UBHI / API#:	Unknown / Unknown	**Magnetic Declination:**	6.293°
Survey Name:	Coterra Dos Equis 11-14 Federal Com 26H Rev0 kFc 22Mar23	**Total Gravity Field Strength:**	998.4362mgn (9.80665 Based)
Survey Date:	March 22, 2023	**Gravity Model:**	GARM
Tort / AHD / DDI / ERD Ratio:	110.501 ° / 11115.957 ft / 6.365 / 0.972	**Total Magnetic Field Strength:**	47500.512 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	**Magnetic Dip Angle:**	59.804°
Location Lat / Long:	32°14'17.06398"N , 103°38'54.84752"W	**Declination Date:**	March 22, 2023
Location Grid N/E Y/X:	N 451019.550 ftUS , E 753058.220 ftUS	**Magnetic Declination Model:**	HDGM 2023
CRS Grid Convergence Angle:	0.3653°	**North Reference:**	Grid North
Grid Scale Factor:	0.99996043	**Grid Convergence Used:**	0.3653°
Version / Patch:	2022.5.0.11	**Total Corr Mag North->Grid North:**	5.9274°
		Local Coord Referenced To:	Well Head

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)
SHL [485' FNL, 1666' FWL]	0.00	0.00	58.73	0.00	-3,640.90	0.00	0.00	0.00	451,019.55	753,058.22	32.23807333	-103.64856876			
	100.00	0.00	58.73	100.00	-3,540.90	0.00	0.00	0.00	451,019.55	753,058.22	32.23807333	-103.64856876	0.00	0.00	0.00
	200.00	0.00	58.73	200.00	-3,440.90	0.00	0.00	0.00	451,019.55	753,058.22	32.23807333	-103.64856876	0.00	0.00	0.00
	300.00	0.00	58.73	300.00	-3,340.90	0.00	0.00	0.00	451,019.55	753,058.22	32.23807333	-103.64856876	0.00	0.00	0.00
	400.00	0.00	58.73	400.00	-3,240.90	0.00	0.00	0.00	451,019.55	753,058.22	32.23807333	-103.64856876	0.00	0.00	0.00
	500.00	0.00	58.73	500.00	-3,140.90	0.00	0.00	0.00	451,019.55	753,058.22	32.23807333	-103.64856876	0.00	0.00	0.00
	600.00	0.00	58.73	600.00	-3,040.90	0.00	0.00	0.00	451,019.55	753,058.22	32.23807333	-103.64856876	0.00	0.00	0.00
	700.00	0.00	58.73	700.00	-2,940.90	0.00	0.00	0.00	451,019.55	753,058.22	32.23807333	-103.64856876	0.00	0.00	0.00
	800.00	0.00	58.73	800.00	-2,840.90	0.00	0.00	0.00	451,019.55	753,058.22	32.23807333	-103.64856876	0.00	0.00	0.00
	900.00	0.00	58.73	900.00	-2,740.90	0.00	0.00	0.00	451,019.55	753,058.22	32.23807333	-103.64856876	0.00	0.00	0.00
	1,000.00	0.00	58.73	1,000.00	-2,640.90	0.00	0.00	0.00	451,019.55	753,058.22	32.23807333	-103.64856876	0.00	0.00	0.00
	1,100.00	0.00	58.73	1,100.00	-2,540.90	0.00	0.00	0.00	451,019.55	753,058.22	32.23807333	-103.64856876	0.00	0.00	0.00
Rustler	1,166.00	0.00	58.73	1,166.00	-2,474.90	0.00	0.00	0.00	451,019.55	753,058.22	32.23807333	-103.64856876	0.00	0.00	0.00
	1,200.00	0.00	58.73	1,200.00	-2,440.90	0.00	0.00	0.00	451,019.55	753,058.22	32.23807333	-103.64856876	0.00	0.00	0.00
	1,300.00	0.00	58.73	1,300.00	-2,340.90	0.00	0.00	0.00	451,019.55	753,058.22	32.23807333	-103.64856876	0.00	0.00	0.00
	1,400.00	0.00	58.73	1,400.00	-2,240.90	0.00	0.00	0.00	451,019.55	753,058.22	32.23807333	-103.64856876	0.00	0.00	0.00
Top Salt	1,485.00	0.00	58.73	1,485.00	-2,155.90	0.00	0.00	0.00	451,019.55	753,058.22	32.23807333	-103.64856876	0.00	0.00	0.00
	1,500.00	0.00	58.73	1,500.00	-2,140.90	0.00	0.00	0.00	451,019.55	753,058.22	32.23807333	-103.64856876	0.00	0.00	0.00
Nudge, Build 2°/100ft	1,600.00	0.00	58.73	1,600.00	-2,040.90	0.00	0.00	0.00	451,019.55	753,058.22	32.23807333	-103.64856876	0.00	0.00	0.00
	1,700.00	2.00	58.73	1,699.98	-1,940.92	-0.90	0.91	1.49	451,020.46	753,059.71	32.23807579	-103.64856391	2.00	2.00	0.00
	1,800.00	4.00	58.73	1,799.84	-1,841.06	-3.59	3.62	5.96	451,023.17	753,064.18	32.23808318	-103.64854939	2.00	2.00	0.00
	1,900.00	6.00	58.73	1,899.45	-1,741.45	-8.07	8.15	13.41	451,027.70	753,071.63	32.23809548	-103.64852521	2.00	2.00	0.00
	2,000.00	8.00	58.73	1,998.70	-1,642.20	-14.33	14.47	23.83	451,034.02	753,082.05	32.23811269	-103.64849139	2.00	2.00	0.00
	2,100.00	10.00	58.73	2,097.47	-1,543.43	-22.37	22.59	37.20	451,042.14	753,095.42	32.23813477	-103.64844799	2.00	2.00	0.00
Hold	2,112.52	10.25	58.73	2,109.79	-1,531.11	-23.50	23.73	39.08	451,043.28	753,097.30	32.23813788	-103.64844188	2.00	2.00	0.00
	2,200.00	10.25	58.73	2,195.87	-1,445.03	-31.50	31.81	52.39	451,051.36	753,110.61	32.23815985	-103.64839868	0.00	0.00	0.00
	2,300.00	10.25	58.73	2,294.28	-1,346.62	-40.65	41.05	67.60	451,060.60	753,125.81	32.23818497	-103.64834930	0.00	0.00	0.00
	2,400.00	10.25	58.73	2,392.68	-1,248.22	-49.79	50.29	82.81	451,069.84	753,141.02	32.23821010	-103.64829992	0.00	0.00	0.00
	2,500.00	10.25	58.73	2,491.09	-1,149.81	-58.94	59.52	98.02	451,079.07	753,156.23	32.23823522	-103.64825055	0.00	0.00	0.00
	2,600.00	10.25	58.73	2,589.49	-1,051.41	-68.08	68.76	113.23	451,088.31	753,171.44	32.23826034	-103.64820117	0.00	0.00	0.00
	2,700.00	10.25	58.73	2,687.89	-953.01	-77.23	78.00	128.44	451,097.54	753,186.65	32.23828546	-103.64815179	0.00	0.00	0.00
	2,800.00	10.25	58.73	2,786.30	-854.60	-86.37	87.23	143.65	451,106.78	753,201.86	32.23831058	-103.64810241	0.00	0.00	0.00
	2,900.00	10.25	58.73	2,884.70	-756.20	-95.52	96.47	158.86	451,116.02	753,217.07	32.23833570	-103.64805303	0.00	0.00	0.00
	3,000.00	10.25	58.73	2,983.11	-657.79	-104.66	105.71	174.07	451,125.25	753,232.28	32.23836083	-103.64800365	0.00	0.00	0.00
	3,100.00	10.25	58.73	3,081.51	-559.39	-113.81	114.95	189.28	451,134.49	753,247.49	32.23838595	-103.64795427	0.00	0.00	0.00
	3,200.00	10.25	58.73	3,179.91	-460.99	-122.96	124.18	204.49	451,143.73	753,262.70	32.23841107	-103.64790489	0.00	0.00	0.00
	3,300.00	10.25	58.73	3,278.32	-362.58	-132.10	133.42	219.70	451,152.96	753,277.91	32.23843619	-103.64785551	0.00	0.00	0.00
	3,400.00	10.25	58.73	3,376.72	-264.18	-141.25	142.66	234.91	451,162.20	753,293.12	32.23846131	-103.64780613	0.00	0.00	0.00
	3,500.00	10.25	58.73	3,475.13	-165.77	-150.39	151.89	250.12	451,171.44	753,308.33	32.23848643	-103.64775675	0.00	0.00	0.00
	3,600.00	10.25	58.73	3,573.53	-67.37	-159.54	161.13	265.33	451,180.67	753,323.54	32.23851155	-103.64770737	0.00	0.00	0.00
	3,700.00	10.25	58.73	3,671.93	31.03	-168.68	170.37	280.54	451,189.91	753,338.75	32.23853668	-103.64765799	0.00	0.00	0.00
	3,800.00	10.25	58.73	3,770.34	129.44	-177.83	179.60	295.75	451,199.15	753,353.96	32.23856180	-103.64760861	0.00	0.00	0.00
	3,900.00	10.25	58.73	3,868.74	227.84	-186.98	188.84	310.96	451,208.38	753,369.17	32.23858692	-103.64755923	0.00	0.00	0.00
	4,000.00	10.25	58.73	3,967.15	326.25	-196.12	198.08	326.17	451,217.62	753,384.38	32.23861204	-103.64750985	0.00	0.00	0.00
	4,100.00	10.25	58.73	4,065.55	424.65	-205.27	207.31	341.38	451,226.86	753,399.58	32.23863716	-103.64746047	0.00	0.00	0.00
	4,200.00	10.25	58.73	4,163.95	523.05	-214.41	216.55	356.59	451,236.09	753,414.79	32.23866228	-103.64741109	0.00	0.00	0.00
	4,300.00	10.25	58.73	4,262.36	621.46	-223.56	225.79	371.80	451,245.33	753,430.00	32.23868740	-103.64736171	0.00	0.00	0.00
	4,400.00	10.25	58.73	4,360.76	719.86	-232.70	235.02	387.01	451,254.56	753,445.21	32.23871252	-103.64731233	0.00	0.00	0.00
	4,500.00	10.25	58.73	4,459.16	818.26	-241.85	244.26	402.22	451,263.80	753,460.42	32.23873765	-103.64726296	0.00	0.00	0.00
	4,600.00	10.25	58.73	4,557.57	916.67	-250.99	253.50	417.43	451,273.04	753,475.63	32.23876277	-103.64721358	0.00	0.00	0.00
	4,700.00	10.25	58.73	4,655.97	1,015.07	-260.14	262.73	432.64	451,282.27	753,490.84	32.23878789	-103.64716420	0.00	0.00	0.00
	4,800.00	10.25	58.73	4,754.38	1,113.48	-269.29	271.97	447.85	451,291.51	753,506.05	32.23881301	-103.64711482	0.00	0.00	0.00
	4,900.00	10.25	58.73	4,852.78	1,211.88	-278.43	281.21	463.06	451,300.75	753,521.26	32.23883813	-103.64706544	0.00	0.00	0.00
Base Salt/Lamar	4,966.28	10.25	58.73	4,918.00	1,277.10	-284.49	287.33	473.14	451,306.87	753,531.34	32.23885478	-103.64703271	0.00	0.00	0.00
	5,000.00	10.25	58.73	4,951.18	1,310.28	-287.58	290.45	478.27	451,309.98	753,536.47	32.23886325	-103.64701606	0.00	0.00	0.00
Delaware Sands/Bell Canyon	5,017.09	10.25	58.73	4,968.00	1,327.10	-289.14	292.02	480.87	451,311.56	753,539.07	32.23886754	-103.64700762	0.00	0.00	0.00
	5,100.00	10.25	58.73	5,049.59	1,408.69	-296.72	299.68	493.48	451,319.22	753,551.68	32.23888837	-103.64696668	0.00	0.00	0.00
	5,200.00	10.25	58.73	5,147.99	1,507.09	-305.87	308.92	508.69	451,328.46	753,566.89	32.23891349	-103.64691730	0.00	0.00	0.00
	5,300.00	10.25	58.73	5,246.40	1,605.50	-315.01	318.16	523.90	451,337.69	753,582.10	32.23893861	-103.64686792	0.00	0.00	0.00
	5,400.00	10.25	58.73	5,344.80	1,703.90	-324.16	327.39	539.11	451,346.93	753,597.31	32.23896374	-103.64681854	0.00	0.00	0.00
	5,500.00	10.25	58.73	5,443.20	1,802.30	-333.30	336.63	554.32	451,356.17	753,612.52	32.23898886	-103.64676916	0.00	0.00	0.00
	5,600.00	10.25	58.73	5,541.61	1,900.71	-342.45	345.87	569.53	451,365.40	753,627.73	32.23901398	-103.64671978	0.00	0.00	0.00
	5,700.00	10.25	58.73	5,640.01	1,999.11	-351.60	355.10	584.74	451,374.64	753,642.94	32.23903910	-103.64667040	0.00	0.00	0.00
	5,800.00	10.25	58.73	5,738.42	2,097.52	-360.74	364.34	599.95	451,383.87	753,658.14	32.23906422	-103.64662102	0.00	0.00	0.00
Drop 2°/100ft	5,819.63	10.03	58.73	5,757.73	2,116.83	-362.54	366.15	602.93	451,385.69	753,661.13	32.23906915	-103.64661132	0.00	0.00	0.00
Cherry Canyon	5,856.44	9.51	58.73	5,794.00	2,153.10	-365.78	369.43	608.34	451,388.97	753,666.53	32.23907807	-103.64659379	2.00	-2.00	0.00
	5,900.00	8.64	58.73	5,837.01	2,196.11	-369.32	373.00	614.21	451,392.53	753,672.40	32.23908777	-103.64657472	2.00	-2.00	0.00
	6,000.00	6.64	58.73	5,936.12	2,295.22	-376.15	379.90	625.58	451,399.44	753,683.77	32.23910655	-103.64653791	2.00	-2.00	0.00
	6,100.00	4.64	58.73	6,035.63	2,394.73	-381.20	385.01	633.98	451,404.54	753,692.18	32.23912043	-103.64651053	2.00	-2.00	0.00
	6,200.00	2.64	58.73	6,135.42	2,494.52	-384.47	388.30	639.41	451,407.84	753,697.61	32.23912939	-103.64649290	2.00	-2.00	0.00
	6,300.00	0.64	58.73	6,235.37	2,594.47	-385.94	389.79	641.86	451,409.33	753,700.06	32.23913344	-103.64648494	2.00	-2.00	0.00
Hold	6,332.15	0.00	58.73	6,267.52	2,626.62	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	2.00	-2.00	0.00
	6,400.00	0.00	58.73	6,335.37	2,694.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	6,500.00	0.00	58.73	6,435.37	2,794.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	6,600.00	0.00	58.73	6,535.37	2,894.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	6,700.00	0.00	58.73	6,635.37	2,994.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	6,800.00	0.00	58.73	6,735.37	3,094.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	6,900.00	0.00	58.73	6,835.37	3,194.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	7,000.00	0.00	58.73	6,935.37	3,294.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	7,100.00	0.00	58.73	7,035.37	3,394.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
Brushy Canyon	7,188.63	0.00	58.73	7,124.00	3,483.10	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	7,200.00	0.00	58.73	7,135.37	3,494.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	7,300.00	0.00	58.73	7,235.37	3,594.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	7,400.00	0.00	58.73	7,335.37	3,694.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	7,500.00	0.00	58.73	7,435.37	3,794.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	7,600.00	0.00	58.73	7,535.37	3,894.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	7,700.00	0.00	58.73	7,635.37	3,994.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	7,800.00	0.00	58.73	7,735.37	4,094.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	7,900.00	0.00	58.73	7,835.37	4,194.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	8,000.00	0.00	58.73	7,935.37	4,294.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	8,100.00	0.00	58.73	8,035.37	4,394.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	8,200.00	0.00	58.73	8,135.37	4,494.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	8,300.00	0.00	58.73	8,235.37	4,594.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	8,400.00	0.00	58.73	8,335.37	4,694.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	8,500.00	0.00	58.73	8,435.37	4,794.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
Basal Brushy Canyon	8,565.63	0.00	58.73	8,501.00	4,860.10	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	8,600.00	0.00	58.73	8,535.37	4,894.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	8,700.00	0.00	58.73	8,635.37	4,994.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	8,800.00	0.00	58.73	8,735.37	5,094.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
Bone Spring Lime	8,885.63	0.00	58.73	8,821.00	5,180.10	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	8,900.00	0.00	58.73	8,835.37	5,194.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
Leonard	8,981.63	0.00	58.73	8,917.00	5,276.10	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	9,000.00	0.00	58.73	8,935.37	5,294.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)
	9,100.00	0.00	58.73	9,035.37	5,394.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	9,200.00	0.00	58.73	9,135.37	5,494.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	9,300.00	0.00	58.73	9,235.37	5,594.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
Avalon	9,362.63	0.00	58.73	9,298.00	5,657.10	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	9,400.00	0.00	58.73	9,335.37	5,694.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	9,500.00	0.00	58.73	9,435.37	5,794.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	9,600.00	0.00	58.73	9,535.37	5,894.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	9,700.00	0.00	58.73	9,635.37	5,994.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	9,800.00	0.00	58.73	9,735.37	6,094.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	9,900.00	0.00	58.73	9,835.37	6,194.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	10,000.00	0.00	58.73	9,935.37	6,294.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
1st BS Sand	10,000.63	0.00	58.73	9,936.00	6,295.10	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	10,100.00	0.00	58.73	10,035.37	6,394.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	10,200.00	0.00	58.73	10,135.37	6,494.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	10,300.00	0.00	58.73	10,235.37	6,594.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	10,400.00	0.00	58.73	10,335.37	6,694.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	10,500.00	0.00	58.73	10,435.37	6,794.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
2nd BS Sand	10,591.63	0.00	58.73	10,527.00	6,886.10	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	10,600.00	0.00	58.73	10,535.37	6,894.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	10,700.00	0.00	58.73	10,635.37	6,994.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	10,800.00	0.00	58.73	10,735.37	7,094.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	10,900.00	0.00	58.73	10,835.37	7,194.47	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
KOP, Build 10°/100ft	10,912.15	0.00	58.73	10,847.52	7,206.62	-386.04	389.89	642.02	451,409.42	753,700.21	32.23913370	-103.64648444	0.00	0.00	0.00
	11,000.00	8.79	179.66	10,935.03	7,294.13	-379.31	383.16	642.06	451,402.70	753,700.25	32.23911522	-103.64648445	10.00	10.00	0.00
	11,100.00	18.79	179.66	11,032.03	7,391.13	-355.52	359.37	642.20	451,378.90	753,700.39	32.23904981	-103.64648449	10.00	10.00	0.00
3rd BS Carb	11,136.30	22.42	179.66	11,066.00	7,425.10	-342.75	346.60	642.27	451,366.13	753,700.47	32.23901471	-103.64648451	10.00	10.00	0.00
	11,200.00	28.79	179.66	11,123.42	7,482.52	-315.24	319.09	642.44	451,338.62	753,700.63	32.23893909	-103.64648455	10.00	10.00	0.00
	11,300.00	38.79	179.66	11,206.42	7,565.52	-259.70	263.55	642.77	451,283.09	753,700.96	32.23878644	-103.64648463	10.00	10.00	0.00
	11,400.00	48.79	179.66	11,278.53	7,637.63	-190.59	194.44	643.18	451,213.99	753,701.37	32.23859649	-103.64648474	10.00	10.00	0.00
	11,500.00	58.79	179.66	11,337.53	7,696.63	-110.01	113.87	643.65	451,133.41	753,701.85	32.23837500	-103.64648486	10.00	10.00	0.00
	11,600.00	68.79	179.66	11,381.65	7,740.75	-20.41	24.27	644.19	451,043.82	753,702.38	32.23812872	-103.64648499	10.00	10.00	0.00
Build 5°/100ft	11,662.15	75.00	179.66	11,400.95	7,760.05	38.63	-34.77	644.54	450,984.78	753,702.73	32.23796644	-103.64648508	10.00	10.00	0.00
	11,700.00	76.89	179.66	11,410.15	7,769.25	75.35	-71.49	644.75	450,948.06	753,702.95	32.23786552	-103.64648513	5.00	5.00	0.00
	11,800.00	81.89	179.66	11,428.55	7,787.65	173.61	-169.75	645.34	450,849.81	753,703.53	32.23759544	-103.64648527	5.00	5.00	0.00
	11,900.00	86.89	179.66	11,438.32	7,797.42	273.10	-269.24	645.93	450,750.33	753,704.13	32.23732197	-103.64648541	5.00	5.00	0.00
Landing Point	11,962.15	90.00	179.66	11,440.00	7,799.10	335.21	-331.35	646.30	450,688.21	753,704.50	32.23715124	-103.64648549	5.00	5.00	0.00
	12,000.00	90.00	179.66	11,440.00	7,799.10	373.07	-369.20	646.53	450,650.36	753,704.72	32.23704719	-103.64648554	0.00	0.00	0.00
	12,100.00	90.00	179.66	11,440.00	7,799.10	473.07	-469.20	647.13	450,550.37	753,705.32	32.23677233	-103.64648568	0.00	0.00	0.00
	12,200.00	90.00	179.66	11,440.00	7,799.10	573.07	-569.20	647.73	450,450.37	753,705.92	32.23649746	-103.64648581	0.00	0.00	0.00
	12,300.00	90.00	179.66	11,440.00	7,799.10	673.07	-669.20	648.33	450,350.38	753,706.52	32.23622260	-103.64648594	0.00	0.00	0.00
	12,400.00	90.00	179.66	11,440.00	7,799.10	773.07	-769.20	648.92	450,250.39	753,707.12	32.23594773	-103.64648607	0.00	0.00	0.00
	12,500.00	90.00	179.66	11,440.00	7,799.10	873.07	-869.19	649.52	450,150.39	753,707.72	32.23567287	-103.64648621	0.00	0.00	0.00
	12,600.00	90.00	179.66	11,440.00	7,799.10	973.07	-969.19	650.12	450,050.40	753,708.31	32.23539801	-103.64648634	0.00	0.00	0.00
	12,700.00	90.00	179.66	11,440.00	7,799.10	1,073.07	-1,069.19	650.72	449,950.40	753,708.91	32.23512314	-103.64648647	0.00	0.00	0.00
	12,800.00	90.00	179.66	11,440.00	7,799.10	1,173.07	-1,169.19	651.32	449,850.41	753,709.51	32.23484828	-103.64648660	0.00	0.00	0.00
	12,900.00	90.00	179.66	11,440.00	7,799.10	1,273.07	-1,269.19	651.92	449,750.42	753,710.11	32.23457341	-103.64648674	0.00	0.00	0.00
	13,000.00	90.00	179.66	11,440.00	7,799.10	1,373.07	-1,369.19	652.52	449,650.42	753,710.71	32.23429855	-103.64648687	0.00	0.00	0.00
	13,100.00	90.00	179.66	11,440.00	7,799.10	1,473.07	-1,469.18	653.11	449,550.43	753,711.31	32.23402368	-103.64648700	0.00	0.00	0.00
	13,200.00	90.00	179.66	11,440.00	7,799.10	1,573.07	-1,569.18	653.71	449,450.43	753,711.91	32.23374882	-103.64648713	0.00	0.00	0.00
	13,300.00	90.00	179.66	11,440.00	7,799.10	1,673.07	-1,669.18	654.31	449,350.44	753,712.50	32.23347395	-103.64648727	0.00	0.00	0.00
	13,400.00	90.00	179.66	11,440.00	7,799.10	1,773.07	-1,769.18	654.91	449,250.45	753,713.10	32.23319909	-103.64648740	0.00	0.00	0.00
	13,500.00	90.00	179.66	11,440.00	7,799.10	1,873.07	-1,869.18	655.51	449,150.45	753,713.70	32.23292422	-103.64648753	0.00	0.00	0.00
	13,600.00	90.00	179.66	11,440.00	7,799.10	1,973.07	-1,969.17	656.11	449,050.46	753,714.30	32.23264936	-103.64648766	0.00	0.00	0.00
	13,700.00	90.00	179.66	11,440.00	7,799.10	2,073.07	-2,069.17	656.71	448,950.46	753,714.90	32.23237449	-103.64648780	0.00	0.00	0.00
Pool NMNM0001917 exit to NMI	13,784.00	90.00	179.66	11,440.00	7,799.10	2,157.07	-2,153.17	657.21	448,866.47	753,715.40	32.23214361	-103.64648791	0.00	0.00	0.00
	13,800.00	90.00	179.66	11,440.00	7,799.10	2,173.07	-2,169.17	657.30	448,850.47	753,715.50	32.23209963	-103.64648793	0.00	0.00	0.00
	13,900.00	90.00	179.66	11,440.00	7,799.10	2,273.07	-2,269.17	657.90	448,750.47	753,716.09	32.23182476	-103.64648806	0.00	0.00	0.00
	14,000.00	90.00	179.66	11,440.00	7,799.10	2,373.07	-2,369.17	658.50	448,650.48	753,716.69	32.23154990	-103.64648819	0.00	0.00	0.00
	14,100.00	90.00	179.66	11,440.00	7,799.10	2,473.07	-2,469.17	659.10	448,550.49	753,717.29	32.23127504	-103.64648832	0.00	0.00	0.00
	14,200.00	90.00	179.66	11,440.00	7,799.10	2,573.07	-2,569.16	659.70	448,450.49	753,717.89	32.23100017	-103.64648846	0.00	0.00	0.00
	14,300.00	90.00	179.66	11,440.00	7,799.10	2,673.07	-2,669.16	660.30	448,350.50	753,718.49	32.23072531	-103.64648859	0.00	0.00	0.00
	14,400.00	90.00	179.66	11,440.00	7,799.10	2,773.07	-2,769.16	660.89	448,250.50	753,719.09	32.23045044	-103.64648872	0.00	0.00	0.00
	14,500.00	90.00	179.66	11,440.00	7,799.10	2,873.07	-2,869.16	661.49	448,150.51	753,719.69	32.23017558	-103.64648885	0.00	0.00	0.00
	14,600.00	90.00	179.66	11,440.00	7,799.10	2,973.07	-2,969.16	662.09	448,050.52	753,720.28	32.22990071	-103.64648899	0.00	0.00	0.00
	14,700.00	90.00	179.66	11,440.00	7,799.10	3,073.07	-3,069.16	662.69	447,950.52	753,720.88	32.22962585	-103.64648912	0.00	0.00	0.00
	14,800.00	90.00	179.66	11,440.00	7,799.10	3,173.07	-3,169.15	663.29	447,850.53	753,721.48	32.22935098	-103.64648925	0.00	0.00	0.00
	14,900.00	90.00	179.66	11,440.00	7,799.10	3,273.07	-3,269.15	663.89	447,750.53	753,722.08	32.22907612	-103.64648938	0.00	0.00	0.00
	15,000.00	90.00	179.66	11,440.00	7,799.10	3,373.07	-3,369.15	664.49	447,650.54	753,722.68	32.22880125	-103.64648951	0.00	0.00	0.00
	15,100.00	90.00	179.66	11,440.00	7,799.10	3,473.07	-3,469.15	665.08	447,550.55	753,723.28	32.22852639	-103.64648965	0.00	0.00	0.00
	15,200.00	90.00	179.66	11,440.00	7,799.10	3,573.07	-3,569.15	665.68	447,450.55	753,723.87	32.22825152	-103.64648978	0.00	0.00	0.00
	15,300.00	90.00	179.66	11,440.00	7,799.10	3,673.07	-3,669.14	666.28	447,350.56	753,724.47	32.22797666	-103.64648991	0.00	0.00	0.00
	15,400.00	90.00	179.66	11,440.00	7,799.10	3,773.07	-3,769.14	666.88	447,250.56	753,725.07	32.22770179	-103.64649004	0.00	0.00	0.00
	15,500.00	90.00	179.66	11,440.00	7,799.10	3,873.07	-3,869.14	667.48	447,150.57	753,725.67	32.22742693	-103.64649017	0.00	0.00	0.00
	15,600.00	90.00	179.66	11,440.00	7,799.10	3,973.07	-3,969.14	668.08	447,050.58	753,726.27	32.22715206	-103.64649031	0.00	0.00	0.00
	15,700.00	90.00	179.66	11,440.00	7,799.10	4,073.07	-4,069.14	668.67	446,950.58	753,726.87	32.22687720	-103.64649044	0.00	0.00	0.00
	15,800.00	90.00	179.66	11,440.00	7,799.10	4,173.07	-4,169.14	669.27	446,850.59	753,727.47	32.22660233	-103.64649057	0.00	0.00	0.00
	15,900.00	90.00	179.66	11,440.00	7,799.10	4,273.07	-4,269.13	669.87	446,750.59	753,728.06	32.22632747	-103.64649070	0.00	0.00	0.00
	16,000.00	90.00	179.66	11,440.00	7,799.10	4,373.07	-4,369.13	670.47	446,650.60	753,728.66	32.22605260	-103.64649083	0.00	0.00	0.00
	16,100.00	90.00	179.66	11,440.00	7,799.10	4,473.07	-4,469.13	671.07	446,550.61	753,729.26	32.22577774	-103.64649097	0.00	0.00	0.00
	16,200.00	90.00	179.66	11,440.00	7,799.10	4,573.07	-4,569.13	671.67	446,450.61	753,729.86	32.22550287	-103.64649110	0.00	0.00	0.00
	16,300.00	90.00	179.66	11,440.00	7,799.10	4,673.07	-4,669.13	672.27	446,350.62	753,730.46	32.22522801	-103.64649123	0.00	0.00	0.00
	16,400.00	90.00	179.66	11,440.00	7,799.10	4,773.07	-4,769.12	672.86	446,250.62	753,731.06	32.22495314	-103.64649136	0.00	0.00	0.00
Section 11-14 Line, Pool NMNM(	16,424.00	90.00	179.66	11,440.00	7,799.10	4,797.07	-4,793.12	673.01	446,226.62	753,731.20	32.22488718	-103.64649139	0.00	0.00	0.00
	16,500.00	90.00	179.66	11,440.00	7,799.10	4,873.07	-4,869.12	673.46	446,150.63	753,731.65	32.22467828	-103.64649149	0.00	0.00	0.00
	16,600.00	90.00	179.66	11,440.00	7,799.10	4,973.07	-4,969.12	674.06	446,050.64	753,732.25	32.22440341	-103.64649163	0.00	0.00	0.00
	16,700.00	90.00	179.66	11,440.00	7,799.10	5,073.07	-5,069.12	674.66	445,950.64	753,732.85	32.22412855	-103.64649176	0.00	0.00	0.00
	16,800.00	90.00	179.66	11,440.00	7,799.10	5,173.07	-5,169.12	675.26	445,850.65	753,733.45	32.22385368	-103.64649189	0.00	0.00	0.00
	16,900.00	90.00	179.66	11,440.00	7,799.10	5,273.07	-5,269.12	675.86	445,750.65	753,734.05	32.22357882	-103.64649202	0.00	0.00	0.00
	17,000.00	90.00	179.66	11,440.00	7,799.10	5,373.07	-5,369.11	676.45	445,650.66	753,734.65	32.22330395	-103.64649215	0.00	0.00	0.00
	17,100.00	90.00	179.66	11,440.00	7,799.10	5,473.07	-5,469.11	677.05	445,550.67	753,735.25	32.22302909	-103.64649228	0.00	0.00	0.00
	17,200.00	90.00	179.66	11,440.00	7,799.10	5,573.07	-5,569.11	677.65	445,450.67	753,735.84	32.22275422	-103.64649242	0.00	0.00	0.00
	17,300.00	90.00	179.66	11,440.00	7,799.10	5,673.07	-5,669.11	678.25	445,350.68	753,736.44	32.22247936	-103.64649255	0.00	0.00	0.00
	17,400.00	90.00	179.66	11,440.00	7,799.10	5,773.07	-5,769.11	678.85	445,250.68	753,737.04	32.22220449	-103.64649268	0.00	0.00	0.00
	17,500.00	90.00	179.66	11,440.00	7,799.10	5,873.07	-5,869.11	679.45	445,150.69	753,737.64	32.22192963	-103.64649281	0.00	0.00	0.00
	17,600.00	90.00	179.66	11,440.00	7,799.10	5,973.07	-5,969.10	680.05	445,050.69	753,738.24	32.22165476	-103.64649294	0.00	0.00	0.00
	17,700.00	90.00	179.66	11,440.00	7,799.10	6,073.07	-6,069.10	680.64	444,950.70	753,738.84	32.22137990	-103.64649307	0.00	0.00	0.00
	17,800.00	90.00	179.66	11,440.00	7,799.10	6,173.07	-6,169.10	681.24	444,850.71	753,739.43	32.22110503	-103.64649321	0.00	0.00	0.00
	17,900.00	90.00	179.66	11,440.00	7,799.10	6,273.07	-6,269.10	681.84	444,750.71	753,740.03	32.22083017	-103.64649334	0.00	0.00	0.00
	18,000.00	90.00	179.66	11,440.00	7,799.10	6,373.07	-6,369.10	682.44	444,650.72	753,740.63	32.22055530	-103.64649347	0.00	0.00	0.00
	18,100.00	90.00	179.66	11,440.00	7,799.10	6,473.07	-6,469.09	683.04	444,550.72	753,741.23	32.22028044	-103.64649360	0.00	0.00	0.00
	18,200.00	90.00	179.66	11,440.00	7,799.10	6,573.07	-6,569.09	683.64	444,450.73	753,741.83	32.22000557	-103.64649373	0.00	0.00	0.00
	18,300.00	90.00	179.66	11,440.00	7,799.10	6,673.07	-6,669.09	684.24	444,350.74	753,742.43	32.21973071	-103.64649386	0.00	0.00	0.00
	18,400.00	90.00	179.66	11,440.00	7,799.10	6,773.07	-6,769.09	684.83	444,250.74	753,743.03	32.21945584	-103.64649400	0.00	0.00	0.00
	18,500.00	90.00	179.66	11,440.00	7,799.10	6,873.07	-6,869.09	685.43	444,150.75	753,743.62	32.21918098	-103.64649413	0.00	0.00	0.00
	18,600.00	90.00	179.66	11,440.00	7,799.10	6,973.07	-6,969.09	686.03	444,050.75	753,744.22	32.21890611	-103.64649426	0.00	0.00	0.00
	18,700.00	90.00	179.66	11,440.00	7,799.10	7,073.07	-7,069.08	686.63	443,950.76	753,744.82	32.21863125	-103.64649439	0.00	0.00	0.00
	18,800.00	90.00	179.66	11,440.00	7,799.10	7,173.07	-7,169.08	687.23	443,850.77	753,745.42	32.21835638	-103.64649452	0.00	0.00	0.00
	18,900.00	90.00	179.66	11,440.00	7,799.10	7,273.07	-7,269.08	687.83	443,750.77	753,746.02	32.21808151	-103.64649465	0.00	0.00	0.00
	19,000.00	90.00	179.66	11,440.00	7,799.10	7,373.07	-7,369.08	688.42	443,650.78	753,746.62	32.21780665	-103.64649478	0.00	0.00	0.00
	19,100.00	90.00	179.66	11,440.00	7,799.10	7,473.07	-7,469.08	689.02	443,550.78	753,747.21	32.21753178	-103.64649492	0.00	0.00	0.00
	19,200.00	90.00	179.66	11,440.00	7,799.10	7,573.07	-7,569.07	689.62	443,450.79	753,747.81	32.21725692	-103.64649505	0.00	0.00	0.00
	19,300.00	90.00	179.66	11,440.00	7,799.10	7,673.07	-7,669.07	690.22	443,350.80	753,748.41	32.21698205	-103.64649518	0.00	0.00	0.00
	19,400.00	90.00	179.66	11,440.00	7,799.10	7,773.07	-7,769.07	690.82	443,250.80	753,749.01	32.21670719	-103.64649531	0.00	0.00	0.00
	19,500.00	90.00	179.66	11,440.00	7,799.10	7,873.07	-7,869.07	691.42	443,150.81	753,749.61	32.21643232	-103.64649544	0.00	0.00	0.00
	19,600.00	90.00	179.66	11,440.00	7,799.10	7,973.07	-7,969.07	692.02	443,050.81	753,750.21	32.21615746	-103.64649557	0.00	0.00	0.00
	19,700.00	90.00	179.66	11,440.00	7,799.10	8,073.07	-8,069.07	692.61	442,950.82	753,750.81	32.21588259	-103.64649570	0.00	0.00	0.00
	19,800.00	90.00	179.66	11,440.00	7,799.10	8,173.07	-8,169.06	693.21	442,850.83	753,751.40	32.21560773	-103.64649583	0.00	0.00	0.00
	19,900.00	90.00	179.66	11,440.00	7,799.10	8,273.07	-8,269.06	693.81	442,750.83	753,752.00	32.21533286	-103.64649597	0.00	0.00	0.00
	20,000.00	90.00	179.66	11,440.00	7,799.10	8,373.07	-8,369.06	694.41	442,650.84	753,752.60	32.21505800	-103.64649610	0.00	0.00	0.00
	20,100.00	90.00	179.66	11,440.00	7,799.10	8,473.07	-8,469.06	695.01	442,550.84	753,753.20	32.21478313	-103.64649623	0.00	0.00	0.00
	20,200.00	90.00	179.66	11,440.00	7,799.10	8,573.07	-8,569.06	695.61	442,450.85	753,753.80	32.21450826	-103.64649636	0.00	0.00	0.00
	20,300.00	90.00	179.66	11,440.00	7,799.10	8,673.07	-8,669.05	696.20	442,350.86	753,754.40	32.21423340	-103.64649649	0.00	0.00	0.00
	20,400.00	90.00	179.66	11,440.00	7,799.10	8,773.07	-8,769.05	696.80	442,250.86	753,754.99	32.21395853	-103.64649662	0.00	0.00	0.00
	20,500.00	90.00	179.66	11,440.00	7,799.10	8,873.07	-8,869.05	697.40	442,150.87	753,755.59	32.21368367	-103.64649675	0.00	0.00	0.00
	20,600.00	90.00	179.66	11,440.00	7,799.10	8,973.07	-8,969.05	698.00	442,050.87	753,756.19	32.21340880	-103.64649688	0.00	0.00	0.00
	20,700.00	90.00	179.66	11,440.00	7,799.10	9,073.07	-9,069.05	698.60	441,950.88	753,756.79	32.21313394	-103.64649702	0.00	0.00	0.00
	20,800.00	90.00	179.66	11,440.00	7,799.10	9,173.07	-9,169.05	699.20	441,850.89	753,757.39	32.21285907	-103.64649715	0.00	0.00	0.00
	20,900.00	90.00	179.66	11,440.00	7,799.10	9,273.07	-9,269.04	699.80	441,750.89	753,757.99	32.21258421	-103.64649728	0.00	0.00	0.00
	21,000.00	90.00	179.66	11,440.00	7,799.10	9,373.07	-9,369.04	700.39	441,650.90	753,758.59	32.21230934	-103.64649741	0.00	0.00	0.00

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)
	21,100.00	90.00	179.66	11,440.00	7,799.10	9,473.07	-9,469.04	700.99	441,550.90	753,759.18	32.21203448	-103.64649754	0.00	0.00	0.00
	21,200.00	90.00	179.66	11,440.00	7,799.10	9,573.07	-9,569.04	701.59	441,450.91	753,759.78	32.21175961	-103.64649767	0.00	0.00	0.00
	21,300.00	90.00	179.66	11,440.00	7,799.10	9,673.07	-9,669.04	702.19	441,350.91	753,760.38	32.21148474	-103.64649780	0.00	0.00	0.00
	21,400.00	90.00	179.66	11,440.00	7,799.10	9,773.07	-9,769.04	702.79	441,250.92	753,760.98	32.21120988	-103.64649793	0.00	0.00	0.00
	21,500.00	90.00	179.66	11,440.00	7,799.10	9,873.07	-9,869.03	703.39	441,150.93	753,761.58	32.21093501	-103.64649806	0.00	0.00	0.00
	21,600.00	90.00	179.66	11,440.00	7,799.10	9,973.07	-9,969.03	703.99	441,050.93	753,762.18	32.21066015	-103.64649819	0.00	0.00	0.00
Dos Equis 11-14 Federal Com 26	21,605.72	90.00	179.66	11,440.00	7,799.10	9,978.79	-9,974.75	704.02	441,045.21	753,762.21	32.21064442	-103.64649820	0.00	0.00	0.00

Survey Type: Def Plan

Survey Error Model: ISCWSA0 3 - D 95 % Confidence 2.7955 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	10,900.000	1/100.000	30.000			A001Mb_MWD	Dos Equis 11-14 Federal Com 26H / Coterra Dos Equis 11-14 Federal Com 26H Rev0 kFc 22Mar23
	1	10,900.000	22,543.118	1/100.000	30.000			A008Mb_MWD+IFR1+MS	Dos Equis 11-14 Federal Com 26H / Coterra Dos Equis 11-14 Federal Com 26H Rev0 kFc 22Mar23

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District II
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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 281243

CONDITIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 281243
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	12/6/2023