

Well Name: ARENA ROJA FED UNIT	Well Location: T26S / R35E / SEC 27 / NWNE / 32.019843 / -103.352836	County or Parish/State: LEA / NM
Well Number: 714H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM97910	Unit or CA Name: ARENA ROJA FEDERAL	Unit or CA Number: NMNM112744X
US Well Number: 3002553644	Operator: DEVON ENERGY PRODUCTION COMPANY LP	

Notice of Intent

Sundry ID: 2875429

Type of Submission: Notice of Intent Type of Action: APD Change

Date Sundry Submitted: 10/08/2025 Time Sundry Submitted: 09:25

Date proposed operation will begin: 09/24/2025

Procedure Description: Devon Energy Production Company L.P. respectfully requests the following changes to the approved APD: BHL change from 20 FSL & 1590 FEL, 34-26S-35E to 20 FNL & 2610 FEL, 27-26S-35E Spacing change from 466.88 acs to 933.76 acs MD/TVD change from 12450'/19896' to 12300'/ 28650' Pool Code change from 96776 JABALINA;WOLFCAMP, SOUTHWEST to XXXX Casing program change: Surface casing size change. Surface, Intermediate, and Production casing depth changes. Cement volume changes to accommodate casing change. Please see attached revised C-102, spec sheets, and drilling & directional plans.

NOI Attachments

Procedure Description

- ARENA_ROJA_FED_UNIT_714H_Permit_Plan_1_20251008092359.pdf
- ARENA_ROJA_FED_UNIT_714H_C_102_U_Turn_NOI_20251008092358.pdf
- 13.375_54.5lb_J55_20250924113313.pdf
- 5.5_20lb_P110HP_CDC_HTQ_20250924113313.pdf
- ARENA_ROJA_FED_UNIT_714H_09_18_2025_20250924113227.pdf

Received by OCD: 10/16/2025 3:55:11 PM

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Well Name: ARENA ROJA FED UNIT	Well Location: T26S / R35E / SEC 27 / NWNE / 32.019843 / -103.352836	County or Parish/State: LEA / NM
Well Number: 714H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM97910	Unit or CA Name: ARENA ROJA FEDERAL	Unit or CA Number: NMNM112744X
US Well Number: 3002553644	Operator: DEVON ENERGY PRODUCTION COMPANY LP	

Conditions of Approval

Specialist Review

Arena_Roja_Fed_Unit_714H_Sundry_ID_2875429_20251014142814.pdf

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: REBECCA DEAL	Signed on: OCT 08, 2025 09:21 AM
Name: DEVON ENERGY PRODUCTION COMPANY LP	
Title: Regulatory Professional	
Street Address: 333 W SHERIDAN AVE	
City: OKLAHOMA CITY	State: OK
Phone: (405) 228-8429	
Email address: REBECCA.DEAL@DVN.COM	

Field

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: LONG VO	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5759885402	BLM POC Email Address: LVO@BLM.GOV
Disposition: Approved	Disposition Date: 10/14/2025
Signature: Long Vo	

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

9. API Well No.

10. Field and Pool or Exploratory Area

11. Country or Parish, State

SUBMIT IN TRIPLICATE - Other instructions on page 2

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

2. Name of Operator

3a. Address

3b. Phone No. (include area code)

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

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 recompleate 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 OFFICE 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 of this form to U.S. Department of the Interior, Bureau of Land 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: NWN / 600 FNL / 1865 FEL / TWSP: 26S / RANGE: 35E / SECTION: 27 / LAT: 32.019843 / LONG: -103.352836 (TVD: 0 feet, MD: 0 feet)

PPP: NWN / 100 FNL / 1590 FEL / TWSP: 26S / RANGE: 35E / SECTION: 27 / LAT: 32.021217 / LONG: -103.351951 (TVD: 12317 feet, MD: 12430 feet)

BHL: LOT 2 / 20 FSL / 1590 FEL / TWSP: 26S / RANGE: 35E / SECTION: 34 / LAT: 32.000361 / LONG: -103.351938 (TVD: 12450 feet, MD: 19896 feet)

CONFIDENTIAL

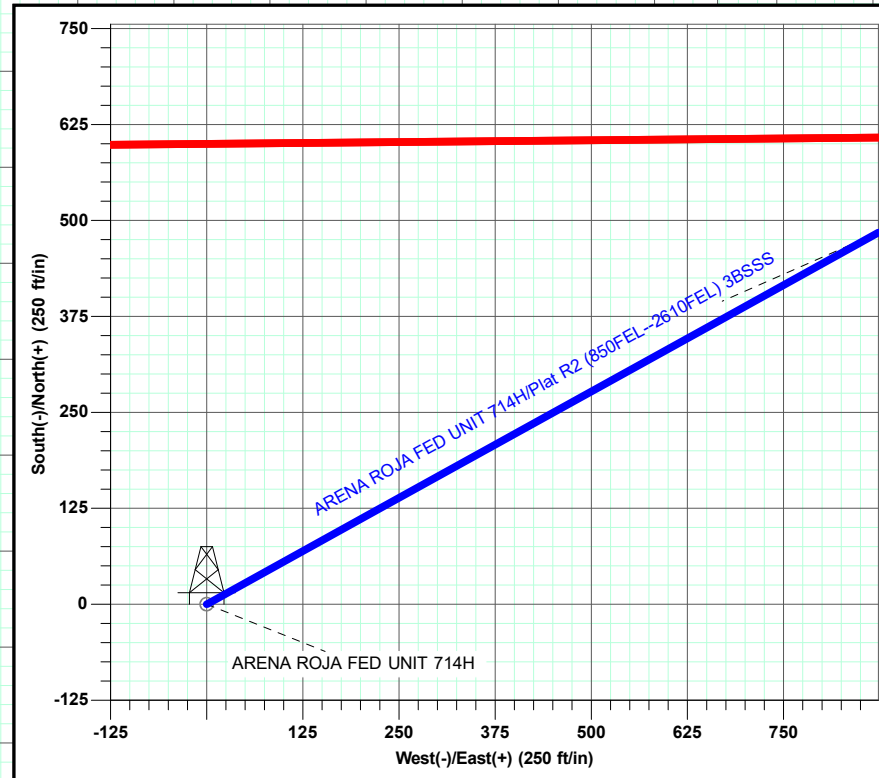
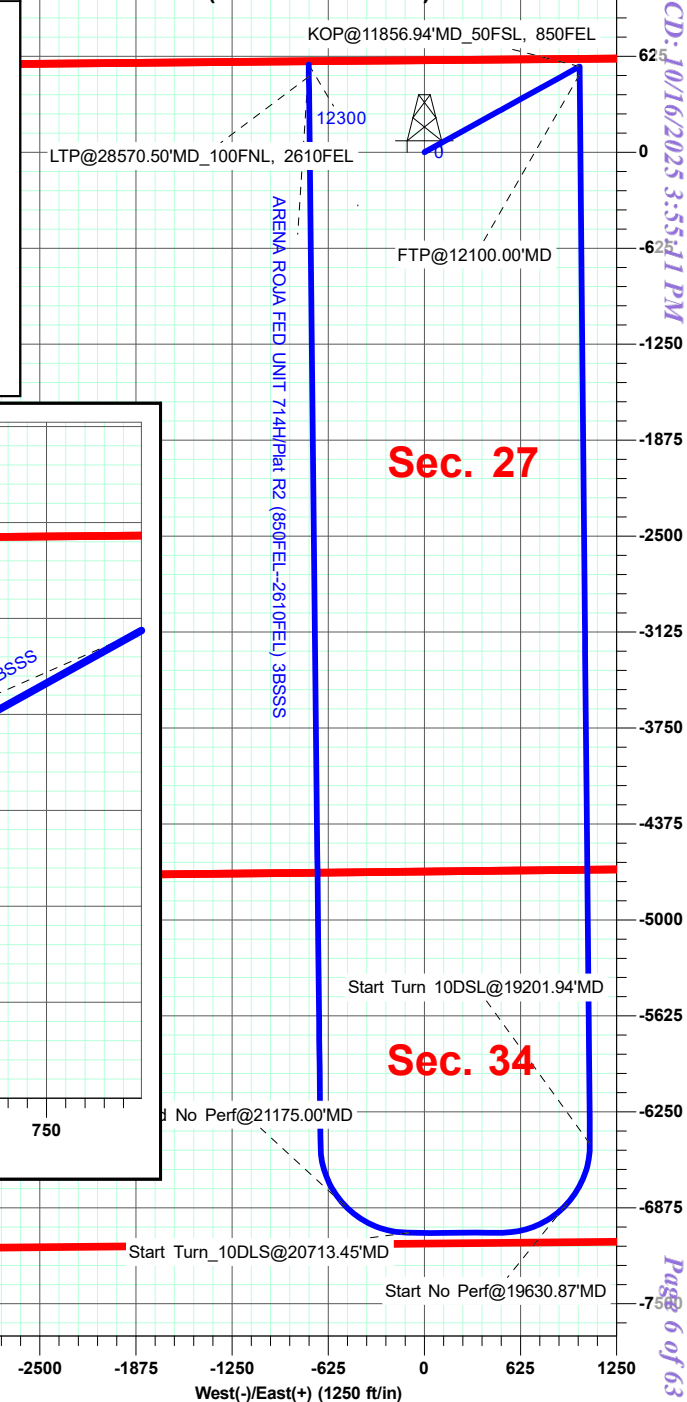


GL:3064+25ft @ 3089.00ft
Ground Level 3064.00

SECTION DETAILS
ARENA ROJA FED UNIT 714H

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00
2672.68	13.45	61.00	2666.52	38.11	68.76	2.00	-31.54
6957.22	13.45	61.00	6833.48	521.37	940.61	0.00	-431.51
7629.90	0.00	0.00	7500.00	559.48	1009.37	2.00	-463.05
1856.94	0.00	0.00	11727.04	559.48	1009.37	0.00	-463.05
2756.94	90.00	179.45	12300.00	-13.45	1014.87	10.00	-814.98
9201.94	90.00	179.45	12300.00	-6458.15	1076.74	0.00	-4773.63
0107.45	90.00	270.00	12300.00	-7036.61	503.81	10.00	-4669.06
0713.45	90.00	270.00	12300.00	-7036.61	-102.19	0.00	-4187.29
1607.25	90.00	359.38	12300.00	-6469.85	-675.12	10.00	-3388.02
28570.50	90.00	359.39	12300.00	492.99	-750.06	0.00	895.35
28650.50	90.00	359.39	12300.00	572.99	-750.92	0.00	944.56

ARENA ROJA FED UNIT 714H
Lea County NAD83 New Mexico East
Northing: 372336.41
Easting: 845220.93
Lat: 32.0198427
Long: -103.3528364
Plat R2 (850FEL--2610FEL) 3BSSS



Received by OCD: 10/16/2025 3:55:41 PM

Source: Northing (+) (1250 ft/in)

Planning Report - Geographic

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well ARENA ROJA FED UNIT 714H
Company:	WCDCS Permian NM	TVD Reference:	GL:3064+25ft @ 3089.00ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3064+25ft @ 3089.00ft
Site:	Sec 27-T26S-R35E	North Reference:	Grid
Well:	ARENA ROJA FED UNIT 714H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat R2 (850FEL--2610FEL) 3BSSS		

Project	Lea County (NAD83 New Mexico East)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Sec 27-T26S-R35E				
Site Position:		Northing:	372,704.19 usft	Latitude:	32.0209382
From:	Lat/Long	Easting:	841,809.63 usft	Longitude:	-103.3638311
Position Uncertainty:	5.00 ft	Slot Radius:	13.20 in		

Well	ARENA ROJA FED UNIT 714H					
Well Position	+N/-S	0.00 ft	Northing:	372,336.41 usft	Latitude:	32.0198427
	+E/-W	0.00 ft	Easting:	845,220.93 usft	Longitude:	-103.3528363
Position Uncertainty		0.50 ft	Wellhead Elevation:	ft	Ground Level:	3,064.00 ft
Grid Convergence:		0.52 °				

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/31/2019	6.56	59.88	47,581.90587300

Design	Plat R2 (850FEL--2610FEL) 3BSSS			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	307.35

Plan Survey Tool Program	Date	10/6/2025		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	28,650.50 Plat R2 (850FEL--2610FEL) 3BS	MWD+IFR1+FDIR OWSG MWD + IFR1 + FDIR C	

Planning Report - Geographic

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well ARENA ROJA FED UNIT 714H
Company:	WCDSC Permian NM	TVD Reference:	GL:3064+25ft @ 3089.00ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3064+25ft @ 3089.00ft
Site:	Sec 27-T26S-R35E	North Reference:	Grid
Well:	ARENA ROJA FED UNIT 714H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat R2 (850FEL--2610FEL) 3BSSS		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,672.68	13.45	61.00	2,666.52	38.11	68.76	2.00	2.00	0.00	61.00	
6,957.22	13.45	61.00	6,833.48	521.37	940.61	0.00	0.00	0.00	0.00	
7,629.90	0.00	0.00	7,500.00	559.48	1,009.37	2.00	-2.00	0.00	180.00	
11,856.94	0.00	0.00	11,727.04	559.48	1,009.37	0.00	0.00	0.00	0.00	
12,756.94	90.00	179.45	12,300.00	-13.45	1,014.87	10.00	10.00	0.00	179.45	
19,201.94	90.00	179.45	12,300.00	-6,458.15	1,076.74	0.00	0.00	0.00	0.00	
20,107.45	90.00	270.00	12,300.00	-7,036.61	503.81	10.00	0.00	10.00	90.00	
20,713.45	90.00	270.00	12,300.00	-7,036.61	-102.19	0.00	0.00	0.00	0.00	
21,607.25	90.00	359.38	12,300.00	-6,469.85	-675.12	10.00	0.00	10.00	90.00	
28,570.50	90.00	359.39	12,300.00	492.99	-750.06	0.00	0.00	0.00	90.15	LTP (714H) 100FNL 2
28,650.50	90.00	359.39	12,300.00	572.99	-750.92	0.00	0.00	0.00	0.00	

Planning Report - Geographic

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well ARENA ROJA FED UNIT 714H
Company:	WCDSC Permian NM	TVD Reference:	GL:3064+25ft @ 3089.00ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3064+25ft @ 3089.00ft
Site:	Sec 27-T26S-R35E	North Reference:	Grid
Well:	ARENA ROJA FED UNIT 714H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat R2 (850FEL--2610FEL) 3BSSS		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
100.00	0.00	0.00	100.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
200.00	0.00	0.00	200.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
300.00	0.00	0.00	300.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
400.00	0.00	0.00	400.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
500.00	0.00	0.00	500.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
600.00	0.00	0.00	600.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
700.00	0.00	0.00	700.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
800.00	0.00	0.00	800.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
900.00	0.00	0.00	900.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
967.00	0.00	0.00	967.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
Rustler									
1,000.00	0.00	0.00	1,000.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
1,100.00	0.00	0.00	1,100.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
1,200.00	0.00	0.00	1,200.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
1,300.00	0.00	0.00	1,300.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
1,400.00	0.00	0.00	1,400.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
1,430.00	0.00	0.00	1,430.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
Salt									
1,500.00	0.00	0.00	1,500.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
1,600.00	0.00	0.00	1,600.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
1,700.00	0.00	0.00	1,700.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
1,800.00	0.00	0.00	1,800.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
1,900.00	0.00	0.00	1,900.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
2,000.00	0.00	0.00	2,000.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
2,100.00	2.00	61.00	2,099.98	0.85	1.53	372,337.25	845,222.46	32.0198450	-103.3528314
2,200.00	4.00	61.00	2,199.84	3.38	6.10	372,339.79	845,227.03	32.0198519	-103.3528166
2,300.00	6.00	61.00	2,299.45	7.61	13.73	372,344.02	845,234.65	32.0198633	-103.3527918
2,400.00	8.00	61.00	2,398.70	13.52	24.38	372,349.92	845,245.31	32.0198793	-103.3527573
2,500.00	10.00	61.00	2,497.47	21.10	38.07	372,357.51	845,258.99	32.0198998	-103.3527129
2,600.00	12.00	61.00	2,595.62	30.35	54.75	372,366.76	845,275.68	32.0199248	-103.3526588
2,672.68	13.45	61.00	2,666.52	38.11	68.76	372,374.52	845,289.69	32.0199458	-103.3526134
2,700.00	13.45	61.00	2,693.09	41.19	74.32	372,377.60	845,295.25	32.0199541	-103.3525954
2,800.00	13.45	61.00	2,790.34	52.47	94.67	372,388.88	845,315.59	32.0199846	-103.3525294
2,900.00	13.45	61.00	2,887.60	63.75	115.01	372,400.16	845,335.94	32.0200151	-103.3524634
3,000.00	13.45	61.00	2,984.85	75.03	135.36	372,411.44	845,356.29	32.0200456	-103.3523974
3,100.00	13.45	61.00	3,082.11	86.31	155.71	372,422.72	845,376.64	32.0200761	-103.3523315
3,200.00	13.45	61.00	3,179.37	97.59	176.06	372,434.00	845,396.99	32.0201066	-103.3522655
3,300.00	13.45	61.00	3,276.62	108.87	196.41	372,445.28	845,417.34	32.0201371	-103.3521995
3,400.00	13.45	61.00	3,373.88	120.15	216.76	372,456.55	845,437.69	32.0201676	-103.3521335
3,500.00	13.45	61.00	3,471.13	131.43	237.11	372,467.83	845,458.04	32.0201981	-103.3520676
3,600.00	13.45	61.00	3,568.39	142.70	257.46	372,479.11	845,478.39	32.0202285	-103.3520016
3,700.00	13.45	61.00	3,665.64	153.98	277.81	372,490.39	845,498.73	32.0202590	-103.3519356
3,800.00	13.45	61.00	3,762.90	165.26	298.15	372,501.67	845,519.08	32.0202895	-103.3518696
3,900.00	13.45	61.00	3,860.16	176.54	318.50	372,512.95	845,539.43	32.0203200	-103.3518036
4,000.00	13.45	61.00	3,957.41	187.82	338.85	372,524.23	845,559.78	32.0203505	-103.3517377
4,100.00	13.45	61.00	4,054.67	199.10	359.20	372,535.51	845,580.13	32.0203810	-103.3516717
4,200.00	13.45	61.00	4,151.92	210.38	379.55	372,546.79	845,600.48	32.0204115	-103.3516057
4,300.00	13.45	61.00	4,249.18	221.66	399.90	372,558.07	845,620.83	32.0204420	-103.3515397
4,400.00	13.45	61.00	4,346.44	232.94	420.25	372,569.35	845,641.18	32.0204725	-103.3514737
4,500.00	13.45	61.00	4,443.69	244.22	440.60	372,580.62	845,661.52	32.0205030	-103.3514078
4,600.00	13.45	61.00	4,540.95	255.50	460.95	372,591.90	845,681.87	32.0205335	-103.3513418
4,700.00	13.45	61.00	4,638.20	266.78	481.29	372,603.18	845,702.22	32.0205640	-103.3512758
4,800.00	13.45	61.00	4,735.46	278.05	501.64	372,614.46	845,722.57	32.0205945	-103.3512098

Planning Report - Geographic

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well ARENA ROJA FED UNIT 714H
Company:	WCDSC Permian NM	TVD Reference:	GL:3064+25ft @ 3089.00ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3064+25ft @ 3089.00ft
Site:	Sec 27-T26S-R35E	North Reference:	Grid
Well:	ARENA ROJA FED UNIT 714H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat R2 (850FEL--2610FEL) 3BSSS		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,900.00	13.45	61.00	4,832.72	289.33	521.99	372,625.74	845,742.92	32.0206250	-103.3511438
4,948.62	13.45	61.00	4,880.00	294.82	531.89	372,631.22	845,752.81	32.0206398	-103.3511118
Base of Salt - Delaware									
5,000.00	13.45	61.00	4,929.97	300.61	542.34	372,637.02	845,763.27	32.0206555	-103.3510779
5,100.00	13.45	61.00	5,027.23	311.89	562.69	372,648.30	845,783.62	32.0206859	-103.3510119
5,200.00	13.45	61.00	5,124.48	323.17	583.04	372,659.58	845,803.97	32.0207164	-103.3509459
5,300.00	13.45	61.00	5,221.74	334.45	603.39	372,670.86	845,824.32	32.0207469	-103.3508799
5,400.00	13.45	61.00	5,318.99	345.73	623.74	372,682.14	845,844.66	32.0207774	-103.3508139
5,500.00	13.45	61.00	5,416.25	357.01	644.09	372,693.42	845,865.01	32.0208079	-103.3507480
5,600.00	13.45	61.00	5,513.51	368.29	664.43	372,704.69	845,885.36	32.0208384	-103.3506820
5,700.00	13.45	61.00	5,610.76	379.57	684.78	372,715.97	845,905.71	32.0208689	-103.3506160
5,800.00	13.45	61.00	5,708.02	390.85	705.13	372,727.25	845,926.06	32.0208994	-103.3505500
5,900.00	13.45	61.00	5,805.27	402.12	725.48	372,738.53	845,946.41	32.0209299	-103.3504840
6,000.00	13.45	61.00	5,902.53	413.40	745.83	372,749.81	845,966.76	32.0209604	-103.3504181
6,100.00	13.45	61.00	5,999.79	424.68	766.18	372,761.09	845,987.11	32.0209909	-103.3503521
6,200.00	13.45	61.00	6,097.04	435.96	786.53	372,772.37	846,007.46	32.0210214	-103.3502861
6,300.00	13.45	61.00	6,194.30	447.24	806.88	372,783.65	846,027.80	32.0210519	-103.3502201
6,317.17	13.45	61.00	6,211.00	449.18	810.37	372,785.59	846,031.30	32.0210571	-103.3502088
Cherry Canyon									
6,400.00	13.45	61.00	6,291.55	458.52	827.23	372,794.93	846,048.15	32.0210824	-103.3501541
6,500.00	13.45	61.00	6,388.81	469.80	847.57	372,806.21	846,068.50	32.0211128	-103.3500882
6,600.00	13.45	61.00	6,486.06	481.08	867.92	372,817.49	846,088.85	32.0211433	-103.3500222
6,700.00	13.45	61.00	6,583.32	492.36	888.27	372,828.76	846,109.20	32.0211738	-103.3499562
6,800.00	13.45	61.00	6,680.58	503.64	908.62	372,840.04	846,129.55	32.0212043	-103.3498902
6,900.00	13.45	61.00	6,777.83	514.92	928.97	372,851.32	846,149.90	32.0212348	-103.3498242
6,957.22	13.45	61.00	6,833.48	521.37	940.61	372,857.78	846,161.54	32.0212523	-103.3497865
7,000.00	12.60	61.00	6,875.16	526.04	949.05	372,862.45	846,169.97	32.0212649	-103.3497591
7,100.00	10.60	61.00	6,973.11	535.79	966.63	372,872.20	846,187.56	32.0212913	-103.3497021
7,200.00	8.60	61.00	7,071.71	543.87	981.21	372,880.28	846,202.14	32.0213131	-103.3496548
7,300.00	6.60	61.00	7,170.83	550.28	992.78	372,886.69	846,213.70	32.0213304	-103.3496173
7,400.00	4.60	61.00	7,270.34	555.01	1,001.31	372,891.42	846,222.23	32.0213432	-103.3495897
7,500.00	2.60	61.00	7,370.14	558.05	1,006.80	372,894.46	846,227.72	32.0213514	-103.3495719
7,600.00	0.60	61.00	7,470.10	559.41	1,009.24	372,895.81	846,230.16	32.0213551	-103.3495640
7,629.90	0.00	0.00	7,500.00	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
7,700.00	0.00	0.00	7,570.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
7,800.00	0.00	0.00	7,670.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
7,813.90	0.00	0.00	7,684.00	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
Brushy Canyon									
7,900.00	0.00	0.00	7,770.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
8,000.00	0.00	0.00	7,870.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
8,100.00	0.00	0.00	7,970.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
8,200.00	0.00	0.00	8,070.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
8,300.00	0.00	0.00	8,170.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
8,400.00	0.00	0.00	8,270.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
8,500.00	0.00	0.00	8,370.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
8,600.00	0.00	0.00	8,470.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
8,700.00	0.00	0.00	8,570.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
8,800.00	0.00	0.00	8,670.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
8,900.00	0.00	0.00	8,770.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
9,000.00	0.00	0.00	8,870.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
9,100.00	0.00	0.00	8,970.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
9,200.00	0.00	0.00	9,070.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
9,212.90	0.00	0.00	9,083.00	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
1st Bone Spring Lime									

Planning Report - Geographic

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well ARENA ROJA FED UNIT 714H
Company:	WCDSC Permian NM	TVD Reference:	GL:3064+25ft @ 3089.00ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3064+25ft @ 3089.00ft
Site:	Sec 27-T26S-R35E	North Reference:	Grid
Well:	ARENA ROJA FED UNIT 714H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat R2 (850FEL--2610FEL) 3BSSS		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,300.00	0.00	0.00	9,170.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
9,400.00	0.00	0.00	9,270.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
9,500.00	0.00	0.00	9,370.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
9,600.00	0.00	0.00	9,470.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
9,700.00	0.00	0.00	9,570.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
9,800.00	0.00	0.00	9,670.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
9,900.00	0.00	0.00	9,770.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
10,000.00	0.00	0.00	9,870.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
10,100.00	0.00	0.00	9,970.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
10,200.00	0.00	0.00	10,070.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
10,300.00	0.00	0.00	10,170.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
10,400.00	0.00	0.00	10,270.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
10,499.90	0.00	0.00	10,370.00	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
Bone Spring 1st									
10,500.00	0.00	0.00	10,370.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
10,600.00	0.00	0.00	10,470.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
10,700.00	0.00	0.00	10,570.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
10,800.00	0.00	0.00	10,670.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
10,900.00	0.00	0.00	10,770.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
11,000.00	0.00	0.00	10,870.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
11,013.90	0.00	0.00	10,884.00	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
Bone Spring 2nd									
11,100.00	0.00	0.00	10,970.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
11,200.00	0.00	0.00	11,070.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
11,300.00	0.00	0.00	11,170.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
11,400.00	0.00	0.00	11,270.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
11,459.90	0.00	0.00	11,330.00	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
3rd Bone Spring Lime									
11,500.00	0.00	0.00	11,370.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
11,600.00	0.00	0.00	11,470.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
11,700.00	0.00	0.00	11,570.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
11,800.00	0.00	0.00	11,670.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
11,856.94	0.00	0.00	11,727.04	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
KOP@11856.94'MD_50FSL, 850FEL									
11,900.00	4.31	179.45	11,770.06	557.86	1,009.39	372,894.27	846,230.31	32.0213509	-103.3495635
11,950.00	9.31	179.45	11,819.69	551.94	1,009.44	372,888.35	846,230.37	32.0213346	-103.3495635
12,000.00	14.31	179.45	11,868.62	541.72	1,009.54	372,878.12	846,230.47	32.0213065	-103.3495635
12,050.00	19.31	179.45	11,916.47	527.26	1,009.68	372,863.67	846,230.61	32.0212667	-103.3495635
12,100.00	24.31	179.45	11,962.87	508.70	1,009.86	372,845.10	846,230.79	32.0212157	-103.3495635
FTP@12100.00'MD									
12,150.00	29.31	179.45	12,007.49	486.16	1,010.08	372,822.56	846,231.00	32.0211537	-103.3495634
12,164.45	30.75	179.45	12,020.00	478.92	1,010.15	372,815.33	846,231.07	32.0211339	-103.3495634
Bone Spring 3rd									
12,200.00	34.31	179.45	12,049.96	459.82	1,010.33	372,796.22	846,231.26	32.0210813	-103.3495634
12,250.00	39.31	179.45	12,089.99	429.87	1,010.62	372,766.28	846,231.54	32.0209990	-103.3495633
12,300.00	44.31	179.45	12,127.24	396.55	1,010.94	372,732.96	846,231.86	32.0209074	-103.3495633
12,350.00	49.31	179.45	12,161.46	360.11	1,011.29	372,696.52	846,232.21	32.0208073	-103.3495632
12,400.00	54.31	179.45	12,192.36	320.83	1,011.66	372,657.24	846,232.59	32.0206993	-103.3495632
12,450.00	59.31	179.45	12,219.73	279.01	1,012.06	372,615.41	846,232.99	32.0205843	-103.3495631
12,500.00	64.31	179.45	12,243.34	234.96	1,012.49	372,571.36	846,233.41	32.0204632	-103.3495630
12,550.00	69.31	179.45	12,263.03	189.01	1,012.93	372,525.42	846,233.86	32.0203369	-103.3495629
12,600.00	74.31	179.45	12,278.64	141.53	1,013.38	372,477.94	846,234.31	32.0202064	-103.3495629
12,650.00	79.31	179.45	12,290.05	92.87	1,013.85	372,429.28	846,234.78	32.0200727	-103.3495628
12,700.00	84.31	179.45	12,297.17	43.40	1,014.33	372,379.80	846,235.25	32.0199367	-103.3495627

Planning Report - Geographic

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well ARENA ROJA FED UNIT 714H
Company:	WCDSO Permian NM	TVD Reference:	GL:3064+25ft @ 3089.00ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3064+25ft @ 3089.00ft
Site:	Sec 27-T26S-R35E	North Reference:	Grid
Well:	ARENA ROJA FED UNIT 714H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat R2 (850FEL--2610FEL) 3BSSS		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
12,750.00	89.31	179.45	12,299.96	-6.51	1,014.81	372,329.90	846,235.73	32.0197995	-103.3495626	
12,756.94	90.00	179.45	12,300.00	-13.45	1,014.87	372,322.96	846,235.80	32.0197804	-103.3495626	
12,800.00	90.00	179.45	12,300.00	-56.51	1,015.29	372,279.90	846,236.21	32.0196621	-103.3495626	
12,900.00	90.00	179.45	12,300.00	-156.50	1,016.25	372,179.91	846,237.17	32.0193872	-103.3495624	
13,000.00	90.00	179.45	12,300.00	-256.50	1,017.21	372,079.91	846,238.13	32.0191123	-103.3495622	
13,100.00	90.00	179.45	12,300.00	-356.49	1,018.17	371,979.92	846,239.09	32.0188375	-103.3495621	
13,200.00	90.00	179.45	12,300.00	-456.49	1,019.12	371,879.92	846,240.05	32.0185626	-103.3495619	
13,300.00	90.00	179.45	12,300.00	-556.48	1,020.08	371,779.93	846,241.01	32.0182877	-103.3495618	
13,400.00	90.00	179.45	12,300.00	-656.48	1,021.04	371,679.93	846,241.97	32.0180128	-103.3495616	
13,500.00	90.00	179.45	12,300.00	-756.47	1,022.00	371,579.94	846,242.93	32.0177380	-103.3495614	
13,600.00	90.00	179.45	12,300.00	-856.47	1,022.96	371,479.94	846,243.89	32.0174631	-103.3495613	
13,700.00	90.00	179.45	12,300.00	-956.46	1,023.92	371,379.95	846,244.85	32.0171882	-103.3495611	
13,800.00	90.00	179.45	12,300.00	-1,056.46	1,024.88	371,279.95	846,245.81	32.0169134	-103.3495610	
13,900.00	90.00	179.45	12,300.00	-1,156.45	1,025.84	371,179.96	846,246.77	32.0166385	-103.3495608	
14,000.00	90.00	179.45	12,300.00	-1,256.45	1,026.80	371,079.96	846,247.73	32.0163636	-103.3495606	
14,100.00	90.00	179.45	12,300.00	-1,356.45	1,027.76	370,979.97	846,248.69	32.0160888	-103.3495605	
14,200.00	90.00	179.45	12,300.00	-1,456.44	1,028.72	370,879.97	846,249.65	32.0158139	-103.3495603	
14,300.00	90.00	179.45	12,300.00	-1,556.44	1,029.68	370,779.98	846,250.61	32.0155390	-103.3495602	
14,400.00	90.00	179.45	12,300.00	-1,656.43	1,030.64	370,679.98	846,251.57	32.0152641	-103.3495600	
14,500.00	90.00	179.45	12,300.00	-1,756.43	1,031.60	370,579.98	846,252.53	32.0149893	-103.3495598	
14,600.00	90.00	179.45	12,300.00	-1,856.42	1,032.56	370,479.99	846,253.49	32.0147144	-103.3495597	
14,700.00	90.00	179.45	12,300.00	-1,956.42	1,033.52	370,379.99	846,254.45	32.0144395	-103.3495595	
14,800.00	90.00	179.45	12,300.00	-2,056.41	1,034.48	370,280.00	846,255.41	32.0141647	-103.3495594	
14,900.00	90.00	179.45	12,300.00	-2,156.41	1,035.44	370,180.00	846,256.37	32.0138898	-103.3495592	
15,000.00	90.00	179.45	12,300.00	-2,256.40	1,036.40	370,080.01	846,257.33	32.0136149	-103.3495590	
15,100.00	90.00	179.45	12,300.00	-2,356.40	1,037.36	369,980.01	846,258.29	32.0133401	-103.3495589	
15,200.00	90.00	179.45	12,300.00	-2,456.39	1,038.32	369,880.02	846,259.25	32.0130652	-103.3495587	
15,300.00	90.00	179.45	12,300.00	-2,556.39	1,039.28	369,780.02	846,260.21	32.0127903	-103.3495586	
15,400.00	90.00	179.45	12,300.00	-2,656.39	1,040.24	369,680.03	846,261.17	32.0125154	-103.3495584	
15,500.00	90.00	179.45	12,300.00	-2,756.38	1,041.20	369,580.03	846,262.13	32.0122406	-103.3495582	
15,600.00	90.00	179.45	12,300.00	-2,856.38	1,042.16	369,480.04	846,263.09	32.0119657	-103.3495581	
15,700.00	90.00	179.45	12,300.00	-2,956.37	1,043.12	369,380.04	846,264.05	32.0116908	-103.3495579	
15,800.00	90.00	179.45	12,300.00	-3,056.37	1,044.08	369,280.05	846,265.01	32.0114160	-103.3495578	
15,900.00	90.00	179.45	12,300.00	-3,156.36	1,045.04	369,180.05	846,265.97	32.0111411	-103.3495576	
16,000.00	90.00	179.45	12,300.00	-3,256.36	1,046.00	369,080.06	846,266.93	32.0108662	-103.3495574	
16,100.00	90.00	179.45	12,300.00	-3,356.35	1,046.96	368,980.06	846,267.89	32.0105914	-103.3495573	
16,200.00	90.00	179.45	12,300.00	-3,456.35	1,047.92	368,880.07	846,268.85	32.0103165	-103.3495571	
16,300.00	90.00	179.45	12,300.00	-3,556.34	1,048.88	368,780.07	846,269.81	32.0100416	-103.3495570	
16,400.00	90.00	179.45	12,300.00	-3,656.34	1,049.84	368,680.08	846,270.77	32.0097667	-103.3495568	
16,500.00	90.00	179.45	12,300.00	-3,756.34	1,050.80	368,580.08	846,271.73	32.0094919	-103.3495566	
16,600.00	90.00	179.45	12,300.00	-3,856.33	1,051.76	368,480.09	846,272.69	32.0092170	-103.3495565	
16,700.00	90.00	179.45	12,300.00	-3,956.33	1,052.72	368,380.09	846,273.65	32.0089421	-103.3495563	
16,800.00	90.00	179.45	12,300.00	-4,056.32	1,053.68	368,280.10	846,274.61	32.0086673	-103.3495561	
16,900.00	90.00	179.45	12,300.00	-4,156.32	1,054.64	368,180.10	846,275.57	32.0083924	-103.3495560	
17,000.00	90.00	179.45	12,300.00	-4,256.31	1,055.60	368,080.10	846,276.53	32.0081175	-103.3495558	
17,100.00	90.00	179.45	12,300.00	-4,356.31	1,056.56	367,980.11	846,277.49	32.0078427	-103.3495557	
17,200.00	90.00	179.45	12,300.00	-4,456.30	1,057.52	367,880.11	846,278.45	32.0075678	-103.3495555	
17,300.00	90.00	179.45	12,300.00	-4,556.30	1,058.48	367,780.12	846,279.41	32.0072929	-103.3495553	
17,400.00	90.00	179.45	12,300.00	-4,656.29	1,059.44	367,680.12	846,280.37	32.0070180	-103.3495552	
17,500.00	90.00	179.45	12,300.00	-4,756.29	1,060.40	367,580.13	846,281.33	32.0067432	-103.3495550	
17,600.00	90.00	179.45	12,300.00	-4,856.28	1,061.36	367,480.13	846,282.29	32.0064683	-103.3495549	
17,700.00	90.00	179.45	12,300.00	-4,956.28	1,062.32	367,380.14	846,283.25	32.0061934	-103.3495547	
17,800.00	90.00	179.45	12,300.00	-5,056.28	1,063.28	367,280.14	846,284.21	32.0059186	-103.3495545	
17,900.00	90.00	179.45	12,300.00	-5,156.27	1,064.24	367,180.15	846,285.17	32.0056437	-103.3495544	
18,000.00	90.00	179.45	12,300.00	-5,256.27	1,065.20	367,080.15	846,286.13	32.0053688	-103.3495542	

Planning Report - Geographic

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well ARENA ROJA FED UNIT 714H
Company:	WCDCS Permian NM	TVD Reference:	GL:3064+25ft @ 3089.00ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3064+25ft @ 3089.00ft
Site:	Sec 27-T26S-R35E	North Reference:	Grid
Well:	ARENA ROJA FED UNIT 714H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat R2 (850FEL--2610FEL) 3BSSS		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
18,100.00	90.00	179.45	12,300.00	-5,356.26	1,066.16	366,980.16	846,287.09	32.0050939	-103.3495541
18,200.00	90.00	179.45	12,300.00	-5,456.26	1,067.12	366,880.16	846,288.05	32.0048191	-103.3495539
18,300.00	90.00	179.45	12,300.00	-5,556.25	1,068.08	366,780.17	846,289.01	32.0045442	-103.3495537
18,400.00	90.00	179.45	12,300.00	-5,656.25	1,069.04	366,680.17	846,289.97	32.0042693	-103.3495536
18,500.00	90.00	179.45	12,300.00	-5,756.24	1,070.00	366,580.18	846,290.93	32.0039945	-103.3495534
18,600.00	90.00	179.45	12,300.00	-5,856.24	1,070.96	366,480.18	846,291.89	32.0037196	-103.3495533
18,700.00	90.00	179.45	12,300.00	-5,956.23	1,071.92	366,380.19	846,292.85	32.0034447	-103.3495531
18,800.00	90.00	179.45	12,300.00	-6,056.23	1,072.88	366,280.19	846,293.81	32.0031699	-103.3495529
18,900.00	90.00	179.45	12,300.00	-6,156.22	1,073.84	366,180.20	846,294.77	32.0028950	-103.3495528
19,000.00	90.00	179.45	12,300.00	-6,256.22	1,074.80	366,080.20	846,295.73	32.0026201	-103.3495526
19,100.00	90.00	179.45	12,300.00	-6,356.22	1,075.76	365,980.21	846,296.69	32.0023452	-103.3495525
19,201.94	90.00	179.45	12,300.00	-6,458.15	1,076.74	365,878.27	846,297.67	32.0020650	-103.3495523
Start Turn 10DSL@19201.94'MD									
19,250.00	90.00	184.26	12,300.00	-6,506.17	1,075.19	365,830.25	846,296.11	32.0019331	-103.3495587
19,300.00	90.00	189.26	12,300.00	-6,555.81	1,069.31	365,780.61	846,290.23	32.0017968	-103.3495791
19,350.00	90.00	194.26	12,300.00	-6,604.74	1,059.12	365,731.68	846,280.05	32.0016626	-103.3496134
19,400.00	90.00	199.26	12,300.00	-6,652.61	1,044.71	365,683.82	846,265.64	32.0015314	-103.3496613
19,450.00	90.00	204.26	12,300.00	-6,699.03	1,026.19	365,637.39	846,247.11	32.0014042	-103.3497224
19,500.00	90.00	209.26	12,300.00	-6,743.66	1,003.68	365,592.76	846,224.61	32.0012821	-103.3497963
19,550.00	90.00	214.26	12,300.00	-6,786.16	977.38	365,550.26	846,198.30	32.0011660	-103.3498824
19,600.00	90.00	219.26	12,300.00	-6,826.21	947.47	365,510.21	846,168.39	32.0010566	-103.3499801
19,630.87	90.00	222.34	12,300.00	-6,849.58	927.30	365,486.84	846,148.23	32.0009929	-103.3500458
Start No Perf@19630.87'MD									
19,650.00	90.00	224.26	12,300.00	-6,863.50	914.18	365,472.92	846,135.11	32.0009550	-103.3500885
19,700.00	90.00	229.26	12,300.00	-6,897.74	877.77	365,438.68	846,098.70	32.0008618	-103.3502070
19,750.00	90.00	234.26	12,300.00	-6,928.69	838.51	365,407.74	846,059.44	32.0007777	-103.3503345
19,800.00	90.00	239.26	12,300.00	-6,956.09	796.71	365,380.34	846,017.64	32.0007034	-103.3504701
19,850.00	90.00	244.26	12,300.00	-6,979.74	752.68	365,356.68	845,973.60	32.0006395	-103.3506128
19,900.00	90.00	249.26	12,300.00	-6,999.47	706.75	365,336.95	845,927.68	32.0005864	-103.3507616
19,950.00	90.00	254.26	12,300.00	-7,015.12	659.28	365,321.31	845,880.21	32.0005446	-103.3509151
20,000.00	90.00	259.26	12,300.00	-7,026.57	610.62	365,309.85	845,831.55	32.0005143	-103.3510724
20,050.00	90.00	264.26	12,300.00	-7,033.74	561.16	365,302.69	845,782.08	32.0004959	-103.3512322
20,100.00	90.00	269.26	12,300.00	-7,036.57	511.25	365,299.86	845,732.18	32.0004893	-103.3513932
20,107.45	90.00	270.00	12,300.00	-7,036.61	503.81	365,299.81	845,724.73	32.0004894	-103.3514172
20,200.00	90.00	270.00	12,300.00	-7,036.61	411.25	365,299.81	845,632.18	32.0004917	-103.3517158
20,300.00	90.00	270.00	12,300.00	-7,036.61	311.25	365,299.81	845,532.18	32.0004942	-103.3520383
20,400.00	90.00	270.00	12,300.00	-7,036.61	211.25	365,299.81	845,432.18	32.0004967	-103.3523609
20,500.00	90.00	270.00	12,300.00	-7,036.61	111.25	365,299.81	845,332.18	32.0004992	-103.3526834
20,600.00	90.00	270.00	12,300.00	-7,036.61	11.25	365,299.81	845,232.18	32.0005017	-103.3530060
20,700.00	90.00	270.00	12,300.00	-7,036.61	-88.75	365,299.81	845,132.18	32.0005042	-103.3533285
20,713.45	90.00	270.00	12,300.00	-7,036.61	-102.20	365,299.81	845,118.73	32.0005045	-103.3533719
Start Turn_10DLS@20713.45'MD									
20,750.00	90.00	273.66	12,300.00	-7,035.45	-138.72	365,300.97	845,082.21	32.0005086	-103.3534897
20,800.00	90.00	278.66	12,300.00	-7,030.09	-188.42	365,306.33	845,032.51	32.0005246	-103.3536498
20,850.00	90.00	283.66	12,300.00	-7,020.42	-237.46	365,316.00	844,983.47	32.0005524	-103.3538077
20,900.00	90.00	288.66	12,300.00	-7,006.51	-285.47	365,329.91	844,935.46	32.0005918	-103.3539621
20,950.00	90.00	293.66	12,300.00	-6,988.47	-332.08	365,347.95	844,888.84	32.0006426	-103.3541120
21,000.00	90.00	298.66	12,300.00	-6,966.44	-376.95	365,369.98	844,843.98	32.0007042	-103.3542560
21,050.00	90.00	303.66	12,300.00	-6,940.58	-419.73	365,395.84	844,801.20	32.0007764	-103.3543933
21,100.00	90.00	308.66	12,300.00	-6,911.09	-460.08	365,425.33	844,760.85	32.0008584	-103.3545226
21,150.00	90.00	313.66	12,300.00	-6,878.19	-497.72	365,458.23	844,723.21	32.0009498	-103.3546430
21,175.00	90.00	316.16	12,300.00	-6,860.55	-515.42	365,475.88	844,705.51	32.0009987	-103.3546996
End No Perf@21175.00'MD									
21,200.00	90.00	318.66	12,300.00	-6,842.14	-532.34	365,494.28	844,688.59	32.0010497	-103.3547536

Planning Report - Geographic

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well ARENA ROJA FED UNIT 714H
Company:	WCDSC Permian NM	TVD Reference:	GL:3064+25ft @ 3089.00ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3064+25ft @ 3089.00ft
Site:	Sec 27-T26S-R35E	North Reference:	Grid
Well:	ARENA ROJA FED UNIT 714H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat R2 (850FEL--2610FEL) 3BSSS		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
21,250.00	90.00	323.66	12,300.00	-6,803.21	-563.69	365,533.21	844,657.24	32.0011575	-103.3548536
21,300.00	90.00	328.66	12,300.00	-6,761.70	-591.53	365,574.72	844,629.40	32.0012723	-103.3549422
21,350.00	90.00	333.66	12,300.00	-6,717.92	-615.65	365,618.50	844,605.28	32.0013933	-103.3550187
21,400.00	90.00	338.66	12,300.00	-6,672.20	-635.85	365,664.22	844,585.08	32.0015194	-103.3550825
21,450.00	90.00	343.66	12,300.00	-6,624.89	-652.00	365,711.53	844,568.93	32.0016498	-103.3551332
21,500.00	90.00	348.66	12,300.00	-6,576.36	-663.96	365,760.06	844,556.97	32.0017835	-103.3551704
21,550.00	90.00	353.66	12,300.00	-6,526.97	-671.64	365,809.45	844,549.29	32.0019195	-103.3551937
21,600.00	90.00	358.66	12,300.00	-6,477.10	-675.00	365,859.32	844,545.94	32.0020566	-103.3552031
21,607.25	90.00	359.38	12,300.00	-6,469.85	-675.12	365,866.57	844,545.81	32.0020766	-103.3552033
21,700.00	90.00	359.38	12,300.00	-6,377.11	-676.12	365,959.31	844,544.81	32.0023315	-103.3552038
21,800.00	90.00	359.38	12,300.00	-6,277.11	-677.20	366,059.31	844,543.73	32.0026064	-103.3552044
21,900.00	90.00	359.38	12,300.00	-6,177.12	-678.29	366,159.30	844,542.64	32.0028813	-103.3552050
22,000.00	90.00	359.38	12,300.00	-6,077.13	-679.37	366,259.30	844,541.56	32.0031561	-103.3552055
22,100.00	90.00	359.38	12,300.00	-5,977.13	-680.45	366,359.29	844,540.48	32.0034310	-103.3552061
22,200.00	90.00	359.38	12,300.00	-5,877.14	-681.53	366,459.28	844,539.40	32.0037059	-103.3552067
22,300.00	90.00	359.38	12,300.00	-5,777.14	-682.61	366,559.28	844,538.32	32.0039807	-103.3552072
22,400.00	90.00	359.38	12,300.00	-5,677.15	-683.69	366,659.27	844,537.24	32.0042556	-103.3552078
22,500.00	90.00	359.38	12,300.00	-5,577.15	-684.77	366,759.27	844,536.16	32.0045305	-103.3552084
22,600.00	90.00	359.38	12,300.00	-5,477.16	-685.85	366,859.26	844,535.08	32.0048053	-103.3552089
22,700.00	90.00	359.38	12,300.00	-5,377.17	-686.93	366,959.25	844,534.00	32.0050802	-103.3552095
22,800.00	90.00	359.38	12,300.00	-5,277.17	-688.01	367,059.25	844,532.92	32.0053551	-103.3552101
22,900.00	90.00	359.38	12,300.00	-5,177.18	-689.09	367,159.24	844,531.84	32.0056300	-103.3552106
23,000.00	90.00	359.38	12,300.00	-5,077.18	-690.17	367,259.24	844,530.76	32.0059048	-103.3552112
23,100.00	90.00	359.38	12,300.00	-4,977.19	-691.25	367,359.23	844,529.68	32.0061797	-103.3552118
23,200.00	90.00	359.38	12,300.00	-4,877.20	-692.33	367,459.22	844,528.60	32.0064546	-103.3552123
23,300.00	90.00	359.38	12,300.00	-4,777.20	-693.41	367,559.22	844,527.52	32.0067294	-103.3552129
23,400.00	90.00	359.38	12,300.00	-4,677.21	-694.49	367,659.21	844,526.44	32.0070043	-103.3552135
23,500.00	90.00	359.38	12,300.00	-4,577.21	-695.57	367,759.20	844,525.36	32.0072792	-103.3552140
23,600.00	90.00	359.38	12,300.00	-4,477.22	-696.65	367,859.20	844,524.28	32.0075540	-103.3552146
23,700.00	90.00	359.38	12,300.00	-4,377.22	-697.73	367,959.19	844,523.20	32.0078289	-103.3552151
23,800.00	90.00	359.38	12,300.00	-4,277.23	-698.81	368,059.19	844,522.12	32.0081038	-103.3552157
23,900.00	90.00	359.38	12,300.00	-4,177.24	-699.88	368,159.18	844,521.05	32.0083787	-103.3552163
24,000.00	90.00	359.38	12,300.00	-4,077.24	-700.96	368,259.17	844,519.97	32.0086535	-103.3552168
24,100.00	90.00	359.38	12,300.00	-3,977.25	-702.04	368,359.17	844,518.89	32.0089284	-103.3552174
24,200.00	90.00	359.38	12,300.00	-3,877.25	-703.12	368,459.16	844,517.81	32.0092033	-103.3552179
24,300.00	90.00	359.38	12,300.00	-3,777.26	-704.20	368,559.16	844,516.73	32.0094781	-103.3552185
24,400.00	90.00	359.38	12,300.00	-3,677.26	-705.27	368,659.15	844,515.66	32.0097530	-103.3552190
24,500.00	90.00	359.38	12,300.00	-3,577.27	-706.35	368,759.14	844,514.58	32.0100279	-103.3552196
24,600.00	90.00	359.38	12,300.00	-3,477.28	-707.43	368,859.14	844,513.50	32.0103028	-103.3552202
24,700.00	90.00	359.38	12,300.00	-3,377.28	-708.51	368,959.13	844,512.42	32.0105776	-103.3552207
24,800.00	90.00	359.38	12,300.00	-3,277.29	-709.58	369,059.13	844,511.35	32.0108525	-103.3552213
24,900.00	90.00	359.38	12,300.00	-3,177.29	-710.66	369,159.12	844,510.27	32.0111274	-103.3552218
25,000.00	90.00	359.38	12,300.00	-3,077.30	-711.74	369,259.11	844,509.19	32.0114022	-103.3552224
25,100.00	90.00	359.38	12,300.00	-2,977.31	-712.81	369,359.11	844,508.12	32.0116771	-103.3552229
25,200.00	90.00	359.38	12,300.00	-2,877.31	-713.89	369,459.10	844,507.04	32.0119520	-103.3552235
25,300.00	90.00	359.38	12,300.00	-2,777.32	-714.96	369,559.10	844,505.97	32.0122268	-103.3552240
25,400.00	90.00	359.38	12,300.00	-2,677.32	-716.04	369,659.09	844,504.89	32.0125017	-103.3552246
25,500.00	90.00	359.38	12,300.00	-2,577.33	-717.12	369,759.08	844,503.82	32.0127766	-103.3552251
25,600.00	90.00	359.38	12,300.00	-2,477.33	-718.19	369,859.08	844,502.74	32.0130515	-103.3552257
25,700.00	90.00	359.38	12,300.00	-2,377.34	-719.27	369,959.07	844,501.66	32.0133263	-103.3552262
25,800.00	90.00	359.38	12,300.00	-2,277.35	-720.34	370,059.07	844,500.59	32.0136012	-103.3552268
25,900.00	90.00	359.38	12,300.00	-2,177.35	-721.42	370,159.06	844,499.51	32.0138761	-103.3552273
26,000.00	90.00	359.38	12,300.00	-2,077.36	-722.49	370,259.06	844,498.44	32.0141509	-103.3552279
26,100.00	90.00	359.38	12,300.00	-1,977.36	-723.57	370,359.05	844,497.36	32.0144258	-103.3552284
26,200.00	90.00	359.38	12,300.00	-1,877.37	-724.64	370,459.04	844,496.29	32.0147007	-103.3552290

Planning Report - Geographic

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well ARENA ROJA FED UNIT 714H
Company:	WCDSC Permian NM	TVD Reference:	GL:3064+25ft @ 3089.00ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3064+25ft @ 3089.00ft
Site:	Sec 27-T26S-R35E	North Reference:	Grid
Well:	ARENA ROJA FED UNIT 714H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat R2 (850FEL--2610FEL) 3BSSS		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
26,300.00	90.00	359.38	12,300.00	-1,777.37	-725.71	370,559.04	844,495.22	32.0149755	-103.3552295
26,400.00	90.00	359.38	12,300.00	-1,677.38	-726.79	370,659.03	844,494.14	32.0152504	-103.3552301
26,500.00	90.00	359.38	12,300.00	-1,577.39	-727.86	370,759.03	844,493.07	32.0155253	-103.3552306
26,600.00	90.00	359.38	12,300.00	-1,477.39	-728.94	370,859.02	844,491.99	32.0158002	-103.3552311
26,700.00	90.00	359.38	12,300.00	-1,377.40	-730.01	370,959.01	844,490.92	32.0160750	-103.3552317
26,800.00	90.00	359.38	12,300.00	-1,277.40	-731.08	371,059.01	844,489.85	32.0163499	-103.3552322
26,900.00	90.00	359.39	12,300.00	-1,177.41	-732.16	371,159.00	844,488.77	32.0166248	-103.3552328
27,000.00	90.00	359.39	12,300.00	-1,077.42	-733.23	371,259.00	844,487.70	32.0168996	-103.3552333
27,100.00	90.00	359.39	12,300.00	-977.42	-734.30	371,358.99	844,486.63	32.0171745	-103.3552339
27,200.00	90.00	359.39	12,300.00	-877.43	-735.38	371,458.98	844,485.55	32.0174494	-103.3552344
27,300.00	90.00	359.39	12,300.00	-777.43	-736.45	371,558.98	844,484.48	32.0177242	-103.3552349
27,400.00	90.00	359.39	12,300.00	-677.44	-737.52	371,658.97	844,483.41	32.0179991	-103.3552355
27,500.00	90.00	359.39	12,300.00	-577.44	-738.59	371,758.97	844,482.34	32.0182740	-103.3552360
27,600.00	90.00	359.39	12,300.00	-477.45	-739.67	371,858.96	844,481.27	32.0185488	-103.3552366
27,700.00	90.00	359.39	12,300.00	-377.46	-740.74	371,958.95	844,480.19	32.0188237	-103.3552371
27,800.00	90.00	359.39	12,300.00	-277.46	-741.81	372,058.95	844,479.12	32.0190986	-103.3552376
27,900.00	90.00	359.39	12,300.00	-177.47	-742.88	372,158.94	844,478.05	32.0193735	-103.3552382
28,000.00	90.00	359.39	12,300.00	-77.47	-743.95	372,258.94	844,476.98	32.0196483	-103.3552387
28,100.00	90.00	359.39	12,300.00	22.52	-745.02	372,358.93	844,475.91	32.0199232	-103.3552392
28,200.00	90.00	359.39	12,300.00	122.52	-746.09	372,458.92	844,474.84	32.0201981	-103.3552398
28,300.00	90.00	359.39	12,300.00	222.51	-747.17	372,558.92	844,473.76	32.0204729	-103.3552403
28,400.00	90.00	359.39	12,300.00	322.50	-748.24	372,658.91	844,472.69	32.0207478	-103.3552409
28,500.00	90.00	359.39	12,300.00	422.50	-749.31	372,758.91	844,471.62	32.0210227	-103.3552414
28,570.50	90.00	359.39	12,300.00	492.99	-750.06	372,829.40	844,470.87	32.0212165	-103.3552418
LTP@28570.50'MD_100FNL, 2610FEL									
28,600.00	90.00	359.39	12,300.00	522.49	-750.38	372,858.90	844,470.55	32.0212975	-103.3552419
28,650.50	90.00	359.39	12,300.00	572.99	-750.92	372,909.39	844,470.01	32.0214363	-103.3552422

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (714H) 100FINL 85i - plan misses target center by 1131.11ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	509.49	1,009.86	372,845.90	846,230.79	32.0212179	-103.3495634
KOP (714H) 50FINL 850 - plan misses target center by 1154.06ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
LTP (714H) 100FNL 261 - plan hits target center - Point	0.00	0.00	12,300.00	492.99	-750.06	372,829.40	844,470.87	32.0212164	-103.3552418
TP #2 (714H) 251FSI, 1' - plan misses target center by 142.66ft at 19839.87ft MD (12300.00 TVD, -6975.26 N, 761.76 E) - Point	0.00	0.00	12,300.00	-6,849.58	694.25	365,486.84	845,915.18	32.0009987	-103.3507975
TP #3 (714H) 251FSI, 2' - plan misses target center by 133.35ft at 20970.06ft MD (12300.00 TVD, -6980.10 N, -350.31 E) - Point	0.00	0.00	12,300.00	-6,860.40	-291.53	365,476.02	844,929.40	32.0009936	-103.3539774

Planning Report - Geographic

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well ARENA ROJA FED UNIT 714H
Company:	WCDSC Permian NM	TVD Reference:	GL:3064+25ft @ 3089.00ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3064+25ft @ 3089.00ft
Site:	Sec 27-T26S-R35E	North Reference:	Grid
Well:	ARENA ROJA FED UNIT 714H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat R2 (850FEL--2610FEL) 3BSSS		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
967.00	967.00	Rustler				
1,430.00	1,430.00	Salt				
4,948.62	4,880.00	Base of Salt				
4,948.62	4,880.00	Delaware				
6,317.17	6,211.00	Cherry Canyon				
7,813.90	7,684.00	Brushy Canyon				
9,212.90	9,083.00	1st Bone Spring Lime				
10,499.90	10,370.00	Bone Spring 1st				
11,013.90	10,884.00	Bone Spring 2nd				
11,459.90	11,330.00	3rd Bone Spring Lime				
12,164.45	12,020.00	Bone Spring 3rd				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
11,856.94	11,727.04	559.48	1,009.37	KOP@11856.94'MD_50FSL, 850FEL	
12,100.00	11,962.87	508.70	1,009.86	FTP@12100.00'MD	
19,201.94	12,300.00	-6,458.15	1,076.74	Start Turn 10DSL@19201.94'MD	
19,630.87	12,300.00	-6,849.58	927.30	Start No Perf@19630.87'MD	
20,713.45	12,300.00	-7,036.61	-102.20	Start Turn_10DLS@20713.45'MD	
21,175.00	12,300.00	-6,860.55	-515.42	End No Perf@21175.00'MD	
28,570.50	12,300.00	492.99	-750.06	LTP@28570.50'MD_100FNL, 2610FEL	

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION		Revised July, 2024	
			Submittal Type:	☐ Initial Submittal
				☒ Amended Report
		☐ As Drilled		

WELL LOCATION INFORMATION

API Number 30-025-53644	Pool Code 98143	Pool Name WC-025 G-09 S263527D;BONE SPRING
Property Code 34832	Property Name ARENA ROJA FED UNIT	Well Number 714H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	Ground Level Elevation 3064.0'
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
B	27	26-S	35-E		600' N	1865' E	32.019843	103.352836	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	27	26-S	35-E		20' N	2610' E	32.021436	103.355242	LEA

Dedicated Acres 933.76	Infill or Defining Well Defining	Defining Well API N/A	Overlapping Spacing Unit (Y/N) N	Consolidation Code U
Order Numbers			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
A	27	26-S	35-E		50' N	850' E	32.021355	103.349564	LEA

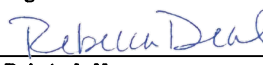
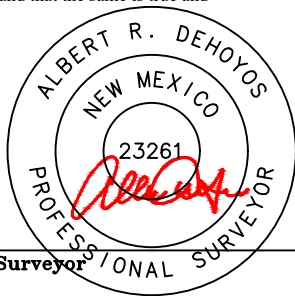
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	27	26-S	35-E		100' N	850' E	32.021218	103.349563	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	27	26-S	35-E		100' N	2610' E	32.021216	103.355242	LEA

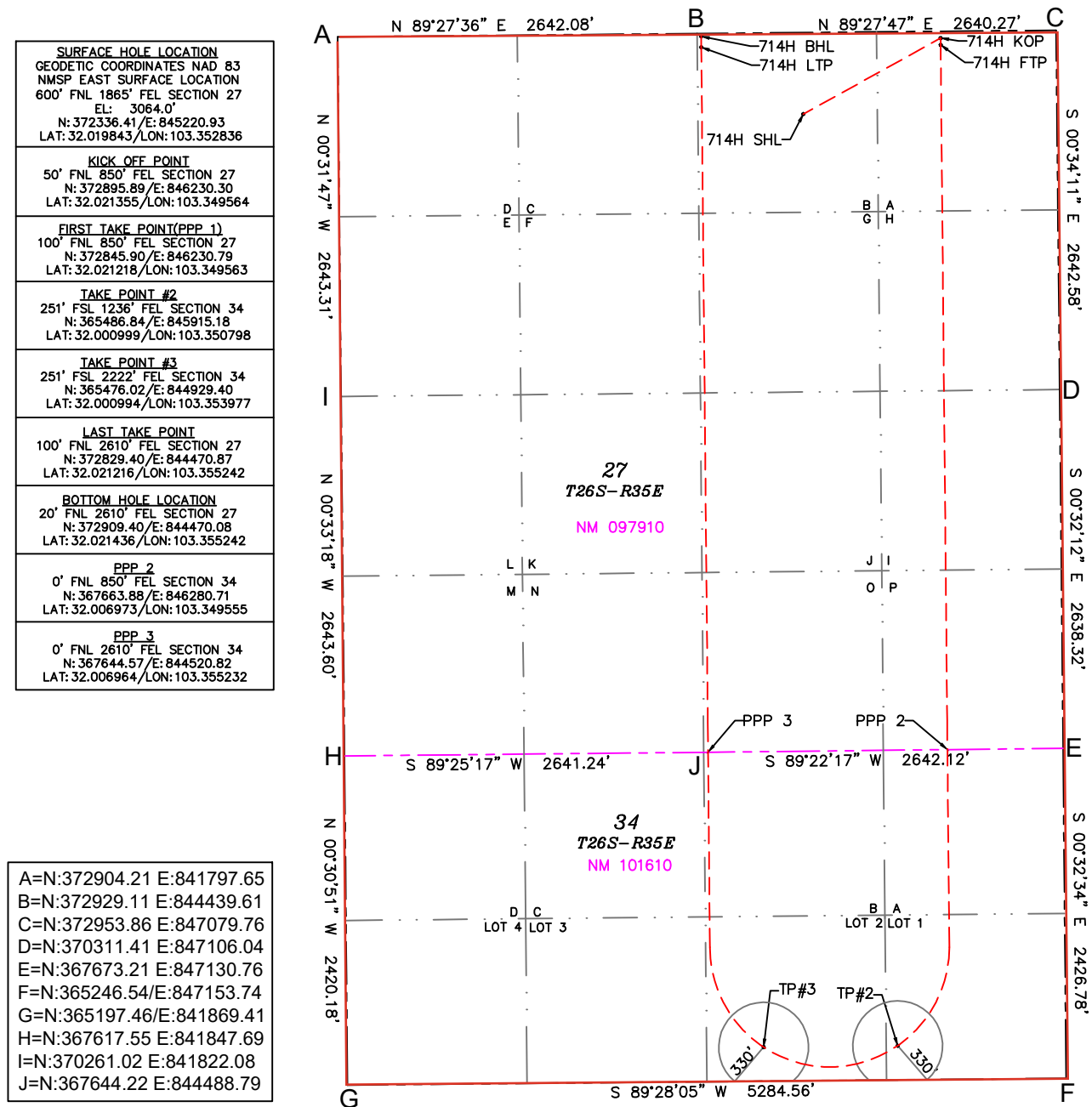
Spacing Unit Type		Horizontal	Vertical	Ground Floor Elevation:
		HZ		

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.		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 supervision, and that the same is true and correct to the best of my belief.	
Signature  Date 9/23/2025		Signature and Seal of Professional Surveyor 	
Printed Name Rebecca Deal, Regulatory Analyst Email Address rebecca.deal@dmn.com		Certificate Number 23261 Date of Survey 08/20/2025	

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.





13-3/8" 54.50# .380 J-55

Dimensions (Nominal)

Outside Diameter	13.375	in.
Wall	0.380	in.
Inside Diameter	12.615	in.
Drift	12.459	in.
Weight, T&C	54.500	lbs/ft
Weight, PE	52.790	lbs/ft

Performance Ratings, Minimum

Collapse, PE	1130	psi
Internal Yields Pressure		
PE	2730	psi
STC	2730	PSI
BTC	2730	psi
Yield Strength, Pipe Body	853	1000 lbs
Joint Strength, STC	514	1000 lbs
Joint Strength, BTC	909	1000 lbs

Note: SeAH Steel has produced this specification sheet for general information only. SeAH does not assume liability or responsibility for any loss or injury resulting from the use of information or data contained herein. All applications for the material described are at the customer's own risk and responsibility.



U. S. Steel Tubular Products

5.500" 20.00lb/ft (0.361" Wall) P110 HP USS-CDC HTQ[®]

2/21/2024 7:47:29 AM



MECHANICAL PROPERTIES	Pipe	USS-CDC HTQ [®]		--
Minimum Yield Strength	125,000	--	psi	--
Maximum Yield Strength	140,000	--	psi	--
Minimum Tensile Strength	130,000	--	psi	--
DIMENSIONS	Pipe	USS-CDC HTQ [®]		--
Outside Diameter	5.500	6.300	in.	--
Wall Thickness	0.361	--	in.	--
Inside Diameter	4.778	4.778	in.	--
Standard Drift	4.653	4.653	in.	--
Alternate Drift	--	--	in.	--
Nominal Linear Weight, T&C	20.00	--	lb/ft	--
Plain End Weight	19.83	--	lb/ft	--
SECTION AREA	Pipe	USS-CDC HTQ [®]		--
Critical Area	5.828	5.828	sq. in.	--
Joint Efficiency	--	97.0	%	--
PERFORMANCE	Pipe	USS-CDC HTQ [®]		--
Minimum Collapse Pressure	13,150	13,150	psi	--
External Pressure Leak Resistance	--	10,520	psi	--
Minimum Internal Yield Pressure	14,360	14,360	psi	--
Minimum Pipe Body Yield Strength	729,000	--	lb	--
Joint Strength	--	707,000	lb	--
Compression Rating	--	424,000	lb	--
Reference Length	--	23,567	ft	--
Maximum Uniaxial Bend Rating	--	60.6	deg/100 ft	--
MAKE-UP DATA	Pipe	USS-CDC HTQ [®]		--
Make-Up Loss	--	4.63	in.	--
Minimum Make-Up Torque	--	14,500	ft-lb	--
Maximum Make-Up Torque	--	20,500	ft-lb	--
Connection Yield Torque	--	25,300	ft-lb	--

UNCONTROLLED

Notes

1.

Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness and Specified Minimum Yield Strength (SMYS).
2.

Uniaxial bending rating shown is structural only, and equal to compression efficiency.
3.

Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
4.

Reference length is calculated by joint strength divided by nominal threaded and coupled weight with 1.5 safety factor.
5.

Connection external pressure leak resistance has been verified to 80% API pipe body collapse pressure following the guidelines of API 5C5 Cal II.

Legal Notice

USS - CDC HTQ[®] (High Torque Casing Drilling Connection) is a trademark of U. S. Steel Corporation. This product is a modified API Buttress threaded and coupled connection designed for drilling with casing applications. All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

ARENA ROJA FED UNIT 714H

1. Geologic Formations

TVD of target	12300	Pilot hole depth	N/A
MD at TD:	28650	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	967		
Salt	1430		
Base of Salt	4880		
Delaware	4880		
Cherry Canyon	6211		
Brushy Canyon	7684		
1st Bone Spring Lime	9083		
Bone Spring 1st	10370		
Bone Spring 2nd	10884		
3rd Bone Spring Lime	11330		
Bone Spring 3rd	12020		

*H2S, water flows, loss of circulation, abnormal pressures, etc.

ARENA ROJA FED UNIT 714H

2. Casing Program

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	54 1/2	J-55	BTC	0	1037	0	1037
9 7/8	8 5/8	32	P110HP	Talon	0	11756	0	11756
7 7/8	5 1/2	20	P110HP	CDC-HTQ	0	28650	0	12300

• All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for contingency casing.

3. Cementing Program

Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. The final cement top will be verified by Echo-meter. Devon will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program. Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures.

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	788	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	691	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
	459	7813	13.2	1.44	Tail: Class H / C + additives
Production	117	9856	9	3.27	Lead: Class H / C + additives
	2223	11856	13.2	1.44	Tail: Class H / C + additives

Devon Energy requests to offline cement on intermediate strings that are set in formations shallower than the Wolfcamp. Prior to commencing offline cementing operations, the well will be monitored for any abnormal pressures and confirmed to be static. A dual manifold system (equipped with chokes) for the returns will also be utilized as a redundancy. All equipment used for offline cementing will have a minimum 5M rating to match intermediate sections' 5M BOPE requirements.

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Prod	10%

ARENA ROJA FED UNIT 714H

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?		Size?	Min. Required WP	Type		✓	Tested to:
Int 1		13-5/8"	5M	Annular		X	50% of rated working pressure
				Blind Ram		X	5M
				Pipe Ram			
				Double Ram		X	
				Other*			
Production		13-5/8"	10M	Annular (5M)		X	100% of rated working pressure
				Blind Ram		X	10M
				Pipe Ram			
				Double Ram		X	
				Other*			
				Annular (5M)			
				Blind Ram			
				Pipe Ram			
				Double Ram			
				Other*			
N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.						
Y	A variance is requested to run a 5 M annular on a 10M system						

ARENA ROJA FED UNIT 714H

5. Mud Program (Three String Design)

Section	Type	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	DBE / Cut Brine	10-10.5
Production	OBM	10-10.5

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

Additional logs planned		Interval
	Resistivity	Int. shoe to KOP
	Density	Int. shoe to KOP
X	CBL	Production casing
	Mud log	Intermediate shoe to TD
	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH pressure at deepest TVD	6716
Abnormal temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

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.

N	H ₂ S is present
Y	H ₂ S plan attached.

ARENA ROJA FED UNIT 714H

8. Other facets of operation

Is this a walking operation? Potentially

- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
- 3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
- 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nipped up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan
 Other, describe

Well Name: ARENA ROJA FED UNIT	Well Location: T26S / R35E / SEC 27 / NWNE / 32.019843 / -103.352836	County or Parish/State: LEA / NM
Well Number: 714H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM97910	Unit or CA Name: ARENA ROJA FEDERAL	Unit or CA Number: NMNM112744X
US Well Number: 3002553644	Operator: DEVON ENERGY PRODUCTION COMPANY LP	

Notice of Intent

Sundry ID: 2875429

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 10/08/2025	Time Sundry Submitted: 09:25
Date proposed operation will begin: 09/24/2025	

Procedure Description: Devon Energy Production Company L.P. respectfully requests the following changes to the approved APD: BHL change from 20 FSL & 1590 FEL, 34-26S-35E to 20 FNL & 2610 FEL, 27-26S-35E Spacing change from 466.88 acs to 933.76 acs MD/TVD change from 12450'/19896' to 12300'/ 28650' Pool Code change from 96776 JABALINA;WOLFCAMP, SOUTHWEST to XXXX Casing program change: Surface casing size change. Surface, Intermediate, and Production casing depth changes. Cement volume changes to accommodate casing change. Please see attached revised C-102, spec sheets, and drilling & directional plans.

NOI Attachments

- Procedure Description
- ARENA_ROJA_FED_UNIT_714H_Permit_Plan_1_20251008092359.pdf
 - ARENA_ROJA_FED_UNIT_714H_C_102_U_Turn_NOI_20251008092358.pdf
 - 13.375_54.5lb_J55_20250924113313.pdf
 - 5.5_20lb_P110HP_CDC_HTQ_20250924113313.pdf
 - ARENA_ROJA_FED_UNIT_714H_09_18_2025_20250924113227.pdf

Well Name: ARENA ROJA FED UNIT	Well Location: T26S / R35E / SEC 27 / NWNE / 32.019843 / -103.352836	County or Parish/State: LEA / NM
Well Number: 714H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM97910	Unit or CA Name: ARENA ROJA FEDERAL	Unit or CA Number: NMNM112744X
US Well Number: 3002553644	Operator: DEVON ENERGY PRODUCTION COMPANY LP	

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: REBECCA DEAL

Signed on: OCT 08, 2025 09:21 AM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Professional

Street Address: 333 W SHERIDAN AVE

City: OKLAHOMA CITYState: OK

Phone: (405) 228-8429

Email address: REBECCA.DEAL@DVN.COM

Field

Representative Name:

Street Address:

City:State:Zip:

Phone:

Email address:

APPROVED by Long Vo
Petroleum Engineer
Carlsbad Field Office
575-988-50402
LVO@BLM.GOV

**PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	Devon Energy Production Company LP
LEASE NO.:	NMNM97910
LOCATION:	Section 27, T.26 S., R.35 E., NMPM
COUNTY:	Lea County, New Mexico 

WELL NAME & NO.:	Arena Roja Fed Unit 714H
ATS/API ID:	3002553644
APD ID:	10400095826
Sundry ID:	2875429

COA

H2S	No		
Potash	None	None	
Cave/Karst Potential	Low		
Cave/Karst Potential	☐ Critical		
Variance	☒ None	☒ Flex Hose	☒ Other
Wellhead	Conventional and Multibowl		
Other	☐ 4 String	Capitan Reef None	☐ WIPP
Other	Pilot Hole None	☐ Open Annulus	
Cementing	Contingency Squeeze None	Echo-Meter Int 1	Primary Cement Squeeze None
Special Requirements	☐ Water Disposal/Injection	☐ COM	☒ Unit
Special Requirements	☐ Batch Sundry	Waste Prevention None	
Special Requirements Variance	☒ Break Testing	☒ Offline Cementing	☐ Casing Clearance

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H₂S) monitors shall be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet **43 CFR part 3170 Subpart 3176**, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8 inch** surface casing shall be set at approximately **1040 feet** (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be **17 1/2 inch** in diameter.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the **8-5/8 inch** intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above.

Option 2:

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. First stage: Operator will cement with intent to reach the top of the **Brushy Canyon at 7684'**.
- b. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. **(Squeeze 691 sxs Class C)**

Operator has proposed to pump down **13-3/8" X 8-5/8"** annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus Or operator shall run a CBL from TD of the 8-5/8" casing to surface after the second stage BH to verify TOC.

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad. Operator may conduct a negative and positive pressure test during completion to remediate sustained casing pressure.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi. Annular which shall be tested to 5000 (5M) psi.**

- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 8-5/8 inch intermediate casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 13-3/8 inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months.

BOPE Break Testing Variance (Approved)

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.

- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted **(575-689-5981 Lea County)** 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at **21-day** intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR part 3170 Subpart 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Operator has been **(Approved)** to pump the proposed cement program offline in the **Intermediate(s) interval**.

Offline cementing should commence within 24 hours of landing the casing for the interval.

Notify the BLM 4hrs prior to cementing offline at **Lea County: 575-689-5981**.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

A. CASING

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

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke

manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be

initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and

disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Long Vo (LVO) 10/14/2025

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

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.

1. Type of Well		5. Lease Serial No.
☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator		7. If Unit of CA/Agreement, Name and/or No.
3a. Address	3b. Phone No. (include area code)	8. Well Name and No.
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		9. API Well No.
		10. Field and Pool or Exploratory Area
		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
☐ 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 recompleate 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 OFFICE 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 of this form to U.S. Department of the Interior, Bureau of Land 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: NWN / 600 FNL / 1865 FEL / TWSP: 26S / RANGE: 35E / SECTION: 27 / LAT: 32.019843 / LONG: -103.352836 (TVD: 0 feet, MD: 0 feet)

PPP: NWN / 100 FNL / 1590 FEL / TWSP: 26S / RANGE: 35E / SECTION: 27 / LAT: 32.021217 / LONG: -103.351951 (TVD: 12317 feet, MD: 12430 feet)

BHL: LOT 2 / 20 FSL / 1590 FEL / TWSP: 26S / RANGE: 35E / SECTION: 34 / LAT: 32.000361 / LONG: -103.351938 (TVD: 12450 feet, MD: 19896 feet)

CONFIDENTIAL

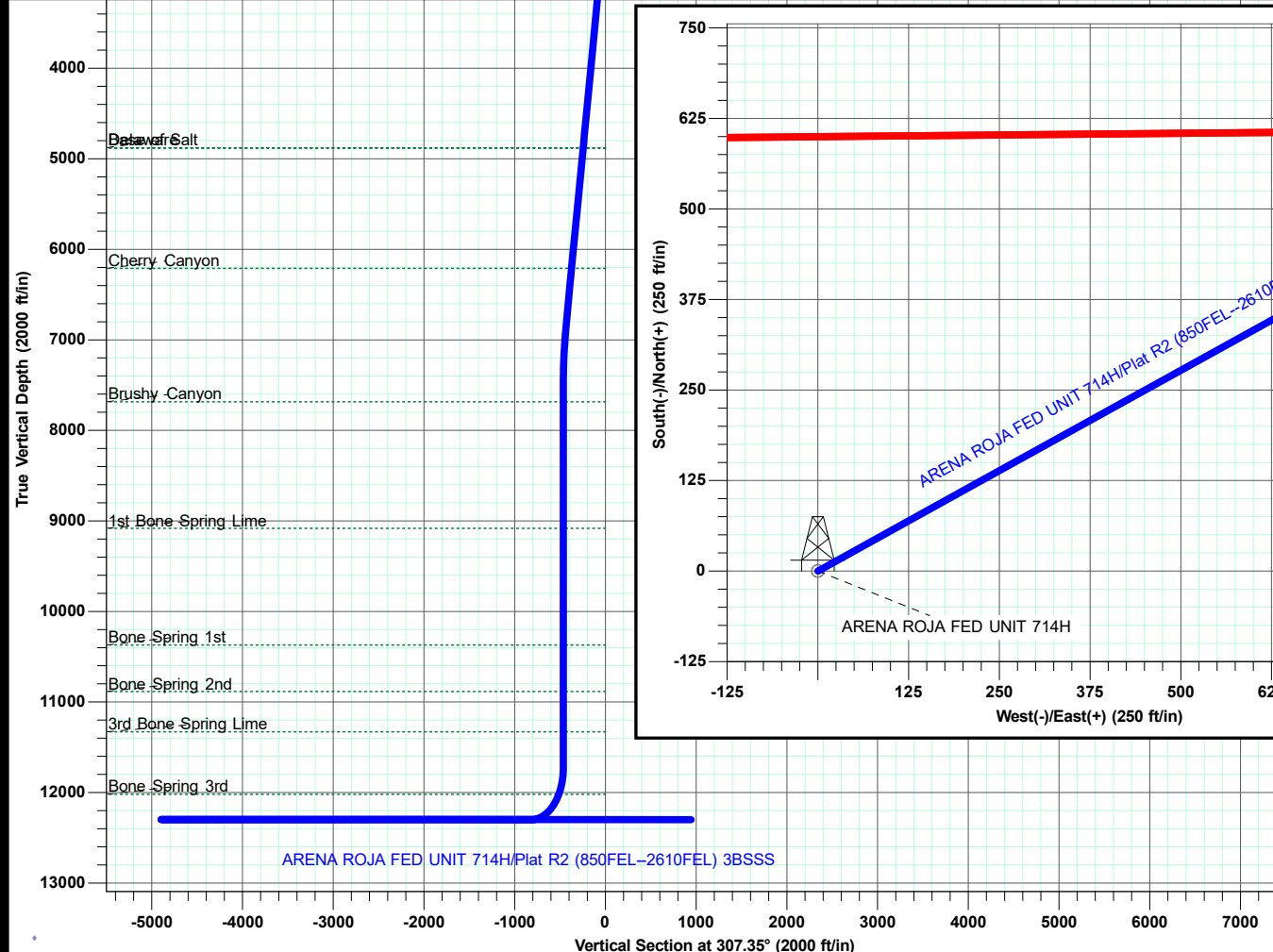
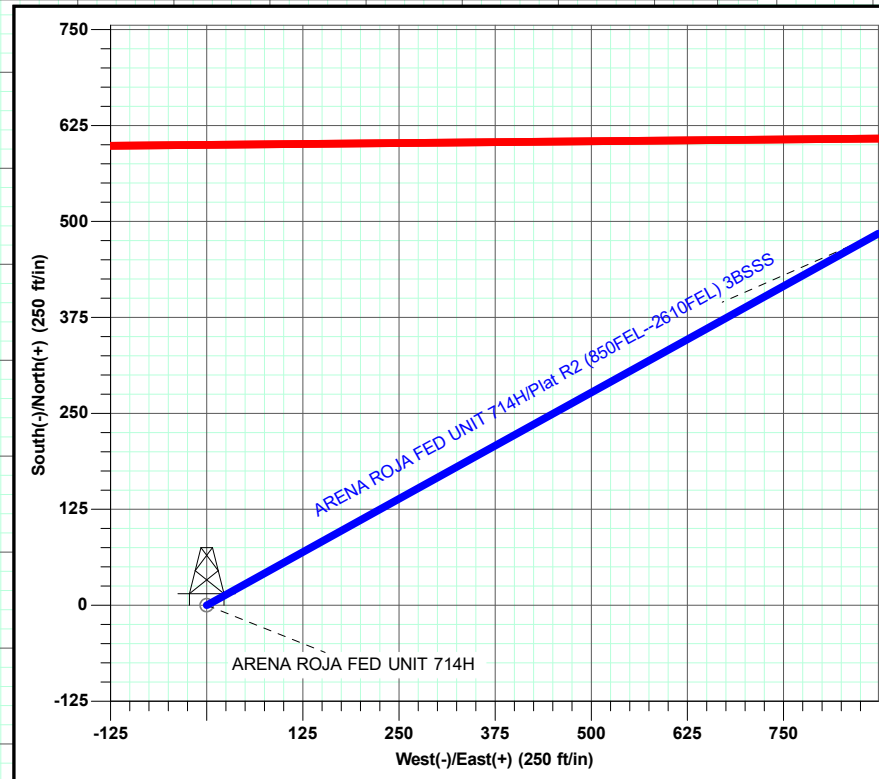
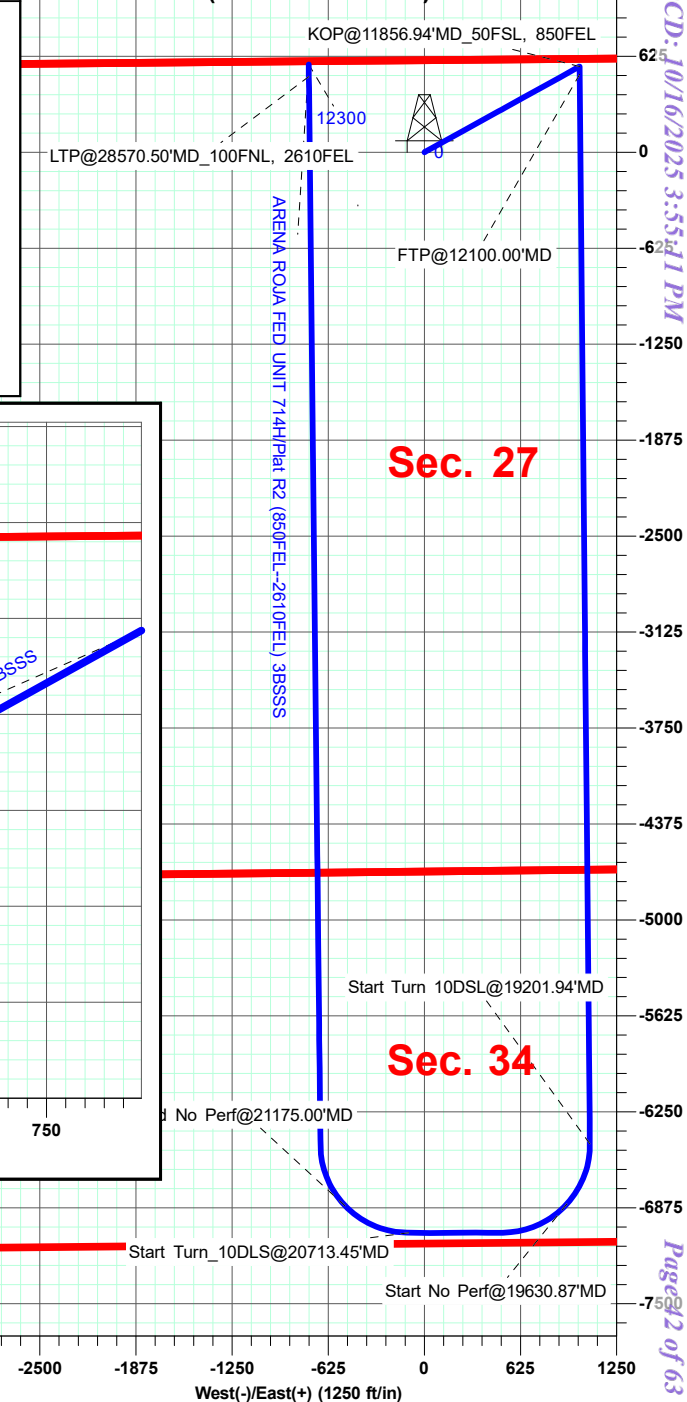


GL:3064+25ft @ 3089.00ft
Ground Level 3064.00

SECTION DETAILS
ARENA ROJA FED UNIT 714H

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00
2672.68	13.45	61.00	2666.52	38.11	68.76	2.00	-31.54
6957.22	13.45	61.00	6833.48	521.37	940.61	0.00	-431.51
7629.90	0.00	0.00	7500.00	559.48	1009.37	2.00	-463.05
1856.94	0.00	0.00	11727.04	559.48	1009.37	0.00	-463.05
2756.94	90.00	179.45	12300.00	-13.45	1014.87	10.00	-814.98
9201.94	90.00	179.45	12300.00	-6458.15	1076.74	0.00	-4773.63
0107.45	90.00	270.00	12300.00	-7036.61	503.81	10.00	-4669.06
0713.45	90.00	270.00	12300.00	-7036.61	-102.19	0.00	-4187.29
1607.25	90.00	359.38	12300.00	-6469.85	-675.12	10.00	-3388.02
28570.50	90.00	359.39	12300.00	492.99	-750.06	0.00	895.35
28650.50	90.00	359.39	12300.00	572.99	-750.92	0.00	944.56

ARENA ROJA FED UNIT 714H
Lea County NAD83 New Mexico East
Northing: 372336.41
Easting: 845220.93
Lat: 32.0198427
Long: -103.3528364
Plat R2 (850FEL--2610FEL) 3BSSS



Planning Report - Geographic

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well ARENA ROJA FED UNIT 714H
Company:	WCDSC Permian NM	TVD Reference:	GL:3064+25ft @ 3089.00ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3064+25ft @ 3089.00ft
Site:	Sec 27-T26S-R35E	North Reference:	Grid
Well:	ARENA ROJA FED UNIT 714H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat R2 (850FEL--2610FEL) 3BSSS		

Project	Lea County (NAD83 New Mexico East)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Sec 27-T26S-R35E				
Site Position:		Northing:	372,704.19 usft	Latitude:	32.0209382
From:	Lat/Long	Easting:	841,809.63 usft	Longitude:	-103.3638311
Position Uncertainty:	5.00 ft	Slot Radius:	13.20 in		

Well	ARENA ROJA FED UNIT 714H					
Well Position	+N/-S	0.00 ft	Northing:	372,336.41 usft	Latitude:	32.0198427
	+E/-W	0.00 ft	Easting:	845,220.93 usft	Longitude:	-103.3528363
Position Uncertainty		0.50 ft	Wellhead Elevation:	ft	Ground Level:	3,064.00 ft
Grid Convergence:		0.52 °				

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/31/2019	6.56	59.88	47,581.90587300

Design	Plat R2 (850FEL--2610FEL) 3BSSS			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	307.35

Plan Survey Tool Program	Date	10/6/2025		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	28,650.50 Plat R2 (850FEL--2610FEL) 3BS	MWD+IFR1+FDIR OWSG MWD + IFR1 + FDIR C	

Planning Report - Geographic

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well ARENA ROJA FED UNIT 714H
Company:	WCDSC Permian NM	TVD Reference:	GL:3064+25ft @ 3089.00ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3064+25ft @ 3089.00ft
Site:	Sec 27-T26S-R35E	North Reference:	Grid
Well:	ARENA ROJA FED UNIT 714H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat R2 (850FEL--2610FEL) 3BSSS		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,672.68	13.45	61.00	2,666.52	38.11	68.76	2.00	2.00	0.00	61.00	
6,957.22	13.45	61.00	6,833.48	521.37	940.61	0.00	0.00	0.00	0.00	
7,629.90	0.00	0.00	7,500.00	559.48	1,009.37	2.00	-2.00	0.00	180.00	
11,856.94	0.00	0.00	11,727.04	559.48	1,009.37	0.00	0.00	0.00	0.00	
12,756.94	90.00	179.45	12,300.00	-13.45	1,014.87	10.00	10.00	0.00	179.45	
19,201.94	90.00	179.45	12,300.00	-6,458.15	1,076.74	0.00	0.00	0.00	0.00	
20,107.45	90.00	270.00	12,300.00	-7,036.61	503.81	10.00	0.00	10.00	90.00	
20,713.45	90.00	270.00	12,300.00	-7,036.61	-102.19	0.00	0.00	0.00	0.00	
21,607.25	90.00	359.38	12,300.00	-6,469.85	-675.12	10.00	0.00	10.00	90.00	
28,570.50	90.00	359.39	12,300.00	492.99	-750.06	0.00	0.00	0.00	90.15	LTP (714H) 100FNL 2
28,650.50	90.00	359.39	12,300.00	572.99	-750.92	0.00	0.00	0.00	0.00	

Planning Report - Geographic

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well ARENA ROJA FED UNIT 714H
Company:	WCDSC Permian NM	TVD Reference:	GL:3064+25ft @ 3089.00ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3064+25ft @ 3089.00ft
Site:	Sec 27-T26S-R35E	North Reference:	Grid
Well:	ARENA ROJA FED UNIT 714H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat R2 (850FEL--2610FEL) 3BSSS		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
100.00	0.00	0.00	100.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
200.00	0.00	0.00	200.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
300.00	0.00	0.00	300.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
400.00	0.00	0.00	400.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
500.00	0.00	0.00	500.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
600.00	0.00	0.00	600.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
700.00	0.00	0.00	700.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
800.00	0.00	0.00	800.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
900.00	0.00	0.00	900.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
967.00	0.00	0.00	967.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
Rustler									
1,000.00	0.00	0.00	1,000.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
1,100.00	0.00	0.00	1,100.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
1,200.00	0.00	0.00	1,200.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
1,300.00	0.00	0.00	1,300.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
1,400.00	0.00	0.00	1,400.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
1,430.00	0.00	0.00	1,430.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
Salt									
1,500.00	0.00	0.00	1,500.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
1,600.00	0.00	0.00	1,600.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
1,700.00	0.00	0.00	1,700.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
1,800.00	0.00	0.00	1,800.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
1,900.00	0.00	0.00	1,900.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
2,000.00	0.00	0.00	2,000.00	0.00	0.00	372,336.41	845,220.93	32.0198427	-103.3528363
2,100.00	2.00	61.00	2,099.98	0.85	1.53	372,337.25	845,222.46	32.0198450	-103.3528314
2,200.00	4.00	61.00	2,199.84	3.38	6.10	372,339.79	845,227.03	32.0198519	-103.3528166
2,300.00	6.00	61.00	2,299.45	7.61	13.73	372,344.02	845,234.65	32.0198633	-103.3527918
2,400.00	8.00	61.00	2,398.70	13.52	24.38	372,349.92	845,245.31	32.0198793	-103.3527573
2,500.00	10.00	61.00	2,497.47	21.10	38.07	372,357.51	845,258.99	32.0198998	-103.3527129
2,600.00	12.00	61.00	2,595.62	30.35	54.75	372,366.76	845,275.68	32.0199248	-103.3526588
2,672.68	13.45	61.00	2,666.52	38.11	68.76	372,374.52	845,289.69	32.0199458	-103.3526134
2,700.00	13.45	61.00	2,693.09	41.19	74.32	372,377.60	845,295.25	32.0199541	-103.3525954
2,800.00	13.45	61.00	2,790.34	52.47	94.67	372,388.88	845,315.59	32.0199846	-103.3525294
2,900.00	13.45	61.00	2,887.60	63.75	115.01	372,400.16	845,335.94	32.0200151	-103.3524634
3,000.00	13.45	61.00	2,984.85	75.03	135.36	372,411.44	845,356.29	32.0200456	-103.3523974
3,100.00	13.45	61.00	3,082.11	86.31	155.71	372,422.72	845,376.64	32.0200761	-103.3523315
3,200.00	13.45	61.00	3,179.37	97.59	176.06	372,434.00	845,396.99	32.0201066	-103.3522655
3,300.00	13.45	61.00	3,276.62	108.87	196.41	372,445.28	845,417.34	32.0201371	-103.3521995
3,400.00	13.45	61.00	3,373.88	120.15	216.76	372,456.55	845,437.69	32.0201676	-103.3521335
3,500.00	13.45	61.00	3,471.13	131.43	237.11	372,467.83	845,458.04	32.0201981	-103.3520676
3,600.00	13.45	61.00	3,568.39	142.70	257.46	372,479.11	845,478.39	32.0202285	-103.3520016
3,700.00	13.45	61.00	3,665.64	153.98	277.81	372,490.39	845,498.73	32.0202590	-103.3519356
3,800.00	13.45	61.00	3,762.90	165.26	298.15	372,501.67	845,519.08	32.0202895	-103.3518696
3,900.00	13.45	61.00	3,860.16	176.54	318.50	372,512.95	845,539.43	32.0203200	-103.3518036
4,000.00	13.45	61.00	3,957.41	187.82	338.85	372,524.23	845,559.78	32.0203505	-103.3517377
4,100.00	13.45	61.00	4,054.67	199.10	359.20	372,535.51	845,580.13	32.0203810	-103.3516717
4,200.00	13.45	61.00	4,151.92	210.38	379.55	372,546.79	845,600.48	32.0204115	-103.3516057
4,300.00	13.45	61.00	4,249.18	221.66	399.90	372,558.07	845,620.83	32.0204420	-103.3515397
4,400.00	13.45	61.00	4,346.44	232.94	420.25	372,569.35	845,641.18	32.0204725	-103.3514737
4,500.00	13.45	61.00	4,443.69	244.22	440.60	372,580.62	845,661.52	32.0205030	-103.3514078
4,600.00	13.45	61.00	4,540.95	255.50	460.95	372,591.90	845,681.87	32.0205335	-103.3513418
4,700.00	13.45	61.00	4,638.20	266.78	481.29	372,603.18	845,702.22	32.0205640	-103.3512758
4,800.00	13.45	61.00	4,735.46	278.05	501.64	372,614.46	845,722.57	32.0205945	-103.3512098

Planning Report - Geographic

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well ARENA ROJA FED UNIT 714H
Company:	WCDSC Permian NM	TVD Reference:	GL:3064+25ft @ 3089.00ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3064+25ft @ 3089.00ft
Site:	Sec 27-T26S-R35E	North Reference:	Grid
Well:	ARENA ROJA FED UNIT 714H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat R2 (850FEL--2610FEL) 3BSSS		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,900.00	13.45	61.00	4,832.72	289.33	521.99	372,625.74	845,742.92	32.0206250	-103.3511438
4,948.62	13.45	61.00	4,880.00	294.82	531.89	372,631.22	845,752.81	32.0206398	-103.3511118
Base of Salt - Delaware									
5,000.00	13.45	61.00	4,929.97	300.61	542.34	372,637.02	845,763.27	32.0206555	-103.3510779
5,100.00	13.45	61.00	5,027.23	311.89	562.69	372,648.30	845,783.62	32.0206859	-103.3510119
5,200.00	13.45	61.00	5,124.48	323.17	583.04	372,659.58	845,803.97	32.0207164	-103.3509459
5,300.00	13.45	61.00	5,221.74	334.45	603.39	372,670.86	845,824.32	32.0207469	-103.3508799
5,400.00	13.45	61.00	5,318.99	345.73	623.74	372,682.14	845,844.66	32.0207774	-103.3508139
5,500.00	13.45	61.00	5,416.25	357.01	644.09	372,693.42	845,865.01	32.0208079	-103.3507480
5,600.00	13.45	61.00	5,513.51	368.29	664.43	372,704.69	845,885.36	32.0208384	-103.3506820
5,700.00	13.45	61.00	5,610.76	379.57	684.78	372,715.97	845,905.71	32.0208689	-103.3506160
5,800.00	13.45	61.00	5,708.02	390.85	705.13	372,727.25	845,926.06	32.0208994	-103.3505500
5,900.00	13.45	61.00	5,805.27	402.12	725.48	372,738.53	845,946.41	32.0209299	-103.3504840
6,000.00	13.45	61.00	5,902.53	413.40	745.83	372,749.81	845,966.76	32.0209604	-103.3504181
6,100.00	13.45	61.00	5,999.79	424.68	766.18	372,761.09	845,987.11	32.0209909	-103.3503521
6,200.00	13.45	61.00	6,097.04	435.96	786.53	372,772.37	846,007.46	32.0210214	-103.3502861
6,300.00	13.45	61.00	6,194.30	447.24	806.88	372,783.65	846,027.80	32.0210519	-103.3502201
6,317.17	13.45	61.00	6,211.00	449.18	810.37	372,785.59	846,031.30	32.0210571	-103.3502088
Cherry Canyon									
6,400.00	13.45	61.00	6,291.55	458.52	827.23	372,794.93	846,048.15	32.0210824	-103.3501541
6,500.00	13.45	61.00	6,388.81	469.80	847.57	372,806.21	846,068.50	32.0211128	-103.3500882
6,600.00	13.45	61.00	6,486.06	481.08	867.92	372,817.49	846,088.85	32.0211433	-103.3500222
6,700.00	13.45	61.00	6,583.32	492.36	888.27	372,828.76	846,109.20	32.0211738	-103.3499562
6,800.00	13.45	61.00	6,680.58	503.64	908.62	372,840.04	846,129.55	32.0212043	-103.3498902
6,900.00	13.45	61.00	6,777.83	514.92	928.97	372,851.32	846,149.90	32.0212348	-103.3498242
6,957.22	13.45	61.00	6,833.48	521.37	940.61	372,857.78	846,161.54	32.0212523	-103.3497865
7,000.00	12.60	61.00	6,875.16	526.04	949.05	372,862.45	846,169.97	32.0212649	-103.3497591
7,100.00	10.60	61.00	6,973.11	535.79	966.63	372,872.20	846,187.56	32.0212913	-103.3497021
7,200.00	8.60	61.00	7,071.71	543.87	981.21	372,880.28	846,202.14	32.0213131	-103.3496548
7,300.00	6.60	61.00	7,170.83	550.28	992.78	372,886.69	846,213.70	32.0213304	-103.3496173
7,400.00	4.60	61.00	7,270.34	555.01	1,001.31	372,891.42	846,222.23	32.0213432	-103.3495897
7,500.00	2.60	61.00	7,370.14	558.05	1,006.80	372,894.46	846,227.72	32.0213514	-103.3495719
7,600.00	0.60	61.00	7,470.10	559.41	1,009.24	372,895.81	846,230.16	32.0213551	-103.3495640
7,629.90	0.00	0.00	7,500.00	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
7,700.00	0.00	0.00	7,570.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
7,800.00	0.00	0.00	7,670.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
7,813.90	0.00	0.00	7,684.00	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
Brushy Canyon									
7,900.00	0.00	0.00	7,770.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
8,000.00	0.00	0.00	7,870.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
8,100.00	0.00	0.00	7,970.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
8,200.00	0.00	0.00	8,070.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
8,300.00	0.00	0.00	8,170.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
8,400.00	0.00	0.00	8,270.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
8,500.00	0.00	0.00	8,370.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
8,600.00	0.00	0.00	8,470.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
8,700.00	0.00	0.00	8,570.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
8,800.00	0.00	0.00	8,670.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
8,900.00	0.00	0.00	8,770.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
9,000.00	0.00	0.00	8,870.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
9,100.00	0.00	0.00	8,970.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
9,200.00	0.00	0.00	9,070.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
9,212.90	0.00	0.00	9,083.00	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
1st Bone Spring Lime									

Planning Report - Geographic

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well ARENA ROJA FED UNIT 714H
Company:	WCDSC Permian NM	TVD Reference:	GL:3064+25ft @ 3089.00ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3064+25ft @ 3089.00ft
Site:	Sec 27-T26S-R35E	North Reference:	Grid
Well:	ARENA ROJA FED UNIT 714H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat R2 (850FEL--2610FEL) 3BSSS		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,300.00	0.00	0.00	9,170.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
9,400.00	0.00	0.00	9,270.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
9,500.00	0.00	0.00	9,370.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
9,600.00	0.00	0.00	9,470.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
9,700.00	0.00	0.00	9,570.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
9,800.00	0.00	0.00	9,670.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
9,900.00	0.00	0.00	9,770.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
10,000.00	0.00	0.00	9,870.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
10,100.00	0.00	0.00	9,970.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
10,200.00	0.00	0.00	10,070.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
10,300.00	0.00	0.00	10,170.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
10,400.00	0.00	0.00	10,270.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
10,499.90	0.00	0.00	10,370.00	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
Bone Spring 1st									
10,500.00	0.00	0.00	10,370.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
10,600.00	0.00	0.00	10,470.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
10,700.00	0.00	0.00	10,570.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
10,800.00	0.00	0.00	10,670.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
10,900.00	0.00	0.00	10,770.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
11,000.00	0.00	0.00	10,870.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
11,013.90	0.00	0.00	10,884.00	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
Bone Spring 2nd									
11,100.00	0.00	0.00	10,970.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
11,200.00	0.00	0.00	11,070.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
11,300.00	0.00	0.00	11,170.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
11,400.00	0.00	0.00	11,270.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
11,459.90	0.00	0.00	11,330.00	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
3rd Bone Spring Lime									
11,500.00	0.00	0.00	11,370.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
11,600.00	0.00	0.00	11,470.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
11,700.00	0.00	0.00	11,570.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
11,800.00	0.00	0.00	11,670.10	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
11,856.94	0.00	0.00	11,727.04	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
KOP@11856.94'MD_50FSL, 850FEL									
11,900.00	4.31	179.45	11,770.06	557.86	1,009.39	372,894.27	846,230.31	32.0213509	-103.3495635
11,950.00	9.31	179.45	11,819.69	551.94	1,009.44	372,888.35	846,230.37	32.0213346	-103.3495635
12,000.00	14.31	179.45	11,868.62	541.72	1,009.54	372,878.12	846,230.47	32.0213065	-103.3495635
12,050.00	19.31	179.45	11,916.47	527.26	1,009.68	372,863.67	846,230.61	32.0212667	-103.3495635
12,100.00	24.31	179.45	11,962.87	508.70	1,009.86	372,845.10	846,230.79	32.0212157	-103.3495635
FTP@12100.00'MD									
12,150.00	29.31	179.45	12,007.49	486.16	1,010.08	372,822.56	846,231.00	32.0211537	-103.3495634
12,164.45	30.75	179.45	12,020.00	478.92	1,010.15	372,815.33	846,231.07	32.0211339	-103.3495634
Bone Spring 3rd									
12,200.00	34.31	179.45	12,049.96	459.82	1,010.33	372,796.22	846,231.26	32.0210813	-103.3495634
12,250.00	39.31	179.45	12,089.99	429.87	1,010.62	372,766.28	846,231.54	32.0209990	-103.3495633
12,300.00	44.31	179.45	12,127.24	396.55	1,010.94	372,732.96	846,231.86	32.0209074	-103.3495633
12,350.00	49.31	179.45	12,161.46	360.11	1,011.29	372,696.52	846,232.21	32.0208073	-103.3495632
12,400.00	54.31	179.45	12,192.36	320.83	1,011.66	372,657.24	846,232.59	32.0206993	-103.3495632
12,450.00	59.31	179.45	12,219.73	279.01	1,012.06	372,615.41	846,232.99	32.0205843	-103.3495631
12,500.00	64.31	179.45	12,243.34	234.96	1,012.49	372,571.36	846,233.41	32.0204632	-103.3495630
12,550.00	69.31	179.45	12,263.03	189.01	1,012.93	372,525.42	846,233.86	32.0203369	-103.3495629
12,600.00	74.31	179.45	12,278.64	141.53	1,013.38	372,477.94	846,234.31	32.0202064	-103.3495629
12,650.00	79.31	179.45	12,290.05	92.87	1,013.85	372,429.28	846,234.78	32.0200727	-103.3495628
12,700.00	84.31	179.45	12,297.17	43.40	1,014.33	372,379.80	846,235.25	32.0199367	-103.3495627

Planning Report - Geographic

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well ARENA ROJA FED UNIT 714H
Company:	WCDCS Permian NM	TVD Reference:	GL:3064+25ft @ 3089.00ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3064+25ft @ 3089.00ft
Site:	Sec 27-T26S-R35E	North Reference:	Grid
Well:	ARENA ROJA FED UNIT 714H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat R2 (850FEL--2610FEL) 3BSSS		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
12,750.00	89.31	179.45	12,299.96	-6.51	1,014.81	372,329.90	846,235.73	32.0197995	-103.3495626
12,756.94	90.00	179.45	12,300.00	-13.45	1,014.87	372,322.96	846,235.80	32.0197804	-103.3495626
12,800.00	90.00	179.45	12,300.00	-56.51	1,015.29	372,279.90	846,236.21	32.0196621	-103.3495626
12,900.00	90.00	179.45	12,300.00	-156.50	1,016.25	372,179.91	846,237.17	32.0193872	-103.3495624
13,000.00	90.00	179.45	12,300.00	-256.50	1,017.21	372,079.91	846,238.13	32.0191123	-103.3495622
13,100.00	90.00	179.45	12,300.00	-356.49	1,018.17	371,979.92	846,239.09	32.0188375	-103.3495621
13,200.00	90.00	179.45	12,300.00	-456.49	1,019.12	371,879.92	846,240.05	32.0185626	-103.3495619
13,300.00	90.00	179.45	12,300.00	-556.48	1,020.08	371,779.93	846,241.01	32.0182877	-103.3495618
13,400.00	90.00	179.45	12,300.00	-656.48	1,021.04	371,679.93	846,241.97	32.0180128	-103.3495616
13,500.00	90.00	179.45	12,300.00	-756.47	1,022.00	371,579.94	846,242.93	32.0177380	-103.3495614
13,600.00	90.00	179.45	12,300.00	-856.47	1,022.96	371,479.94	846,243.89	32.0174631	-103.3495613
13,700.00	90.00	179.45	12,300.00	-956.46	1,023.92	371,379.95	846,244.85	32.0171882	-103.3495611
13,800.00	90.00	179.45	12,300.00	-1,056.46	1,024.88	371,279.95	846,245.81	32.0169134	-103.3495610
13,900.00	90.00	179.45	12,300.00	-1,156.45	1,025.84	371,179.96	846,246.77	32.0166385	-103.3495608
14,000.00	90.00	179.45	12,300.00	-1,256.45	1,026.80	371,079.96	846,247.73	32.0163636	-103.3495606
14,100.00	90.00	179.45	12,300.00	-1,356.45	1,027.76	370,979.97	846,248.69	32.0160888	-103.3495605
14,200.00	90.00	179.45	12,300.00	-1,456.44	1,028.72	370,879.97	846,249.65	32.0158139	-103.3495603
14,300.00	90.00	179.45	12,300.00	-1,556.44	1,029.68	370,779.98	846,250.61	32.0155390	-103.3495602
14,400.00	90.00	179.45	12,300.00	-1,656.43	1,030.64	370,679.98	846,251.57	32.0152641	-103.3495600
14,500.00	90.00	179.45	12,300.00	-1,756.43	1,031.60	370,579.98	846,252.53	32.0149893	-103.3495598
14,600.00	90.00	179.45	12,300.00	-1,856.42	1,032.56	370,479.99	846,253.49	32.0147144	-103.3495597
14,700.00	90.00	179.45	12,300.00	-1,956.42	1,033.52	370,379.99	846,254.45	32.0144395	-103.3495595
14,800.00	90.00	179.45	12,300.00	-2,056.41	1,034.48	370,280.00	846,255.41	32.0141647	-103.3495594
14,900.00	90.00	179.45	12,300.00	-2,156.41	1,035.44	370,180.00	846,256.37	32.0138898	-103.3495592
15,000.00	90.00	179.45	12,300.00	-2,256.40	1,036.40	370,080.01	846,257.33	32.0136149	-103.3495590
15,100.00	90.00	179.45	12,300.00	-2,356.40	1,037.36	369,980.01	846,258.29	32.0133401	-103.3495589
15,200.00	90.00	179.45	12,300.00	-2,456.39	1,038.32	369,880.02	846,259.25	32.0130652	-103.3495587
15,300.00	90.00	179.45	12,300.00	-2,556.39	1,039.28	369,780.02	846,260.21	32.0127903	-103.3495586
15,400.00	90.00	179.45	12,300.00	-2,656.39	1,040.24	369,680.03	846,261.17	32.0125154	-103.3495584
15,500.00	90.00	179.45	12,300.00	-2,756.38	1,041.20	369,580.03	846,262.13	32.0122406	-103.3495582
15,600.00	90.00	179.45	12,300.00	-2,856.38	1,042.16	369,480.04	846,263.09	32.0119657	-103.3495581
15,700.00	90.00	179.45	12,300.00	-2,956.37	1,043.12	369,380.04	846,264.05	32.0116908	-103.3495579
15,800.00	90.00	179.45	12,300.00	-3,056.37	1,044.08	369,280.05	846,265.01	32.0114160	-103.3495578
15,900.00	90.00	179.45	12,300.00	-3,156.36	1,045.04	369,180.05	846,265.97	32.0111411	-103.3495576
16,000.00	90.00	179.45	12,300.00	-3,256.36	1,046.00	369,080.06	846,266.93	32.0108662	-103.3495574
16,100.00	90.00	179.45	12,300.00	-3,356.35	1,046.96	368,980.06	846,267.89	32.0105914	-103.3495573
16,200.00	90.00	179.45	12,300.00	-3,456.35	1,047.92	368,880.07	846,268.85	32.0103165	-103.3495571
16,300.00	90.00	179.45	12,300.00	-3,556.34	1,048.88	368,780.07	846,269.81	32.0100416	-103.3495570
16,400.00	90.00	179.45	12,300.00	-3,656.34	1,049.84	368,680.08	846,270.77	32.0097667	-103.3495568
16,500.00	90.00	179.45	12,300.00	-3,756.34	1,050.80	368,580.08	846,271.73	32.0094919	-103.3495566
16,600.00	90.00	179.45	12,300.00	-3,856.33	1,051.76	368,480.09	846,272.69	32.0092170	-103.3495565
16,700.00	90.00	179.45	12,300.00	-3,956.33	1,052.72	368,380.09	846,273.65	32.0089421	-103.3495563
16,800.00	90.00	179.45	12,300.00	-4,056.32	1,053.68	368,280.10	846,274.61	32.0086673	-103.3495561
16,900.00	90.00	179.45	12,300.00	-4,156.32	1,054.64	368,180.10	846,275.57	32.0083924	-103.3495560
17,000.00	90.00	179.45	12,300.00	-4,256.31	1,055.60	368,080.10	846,276.53	32.0081175	-103.3495558
17,100.00	90.00	179.45	12,300.00	-4,356.31	1,056.56	367,980.11	846,277.49	32.0078427	-103.3495557
17,200.00	90.00	179.45	12,300.00	-4,456.30	1,057.52	367,880.11	846,278.45	32.0075678	-103.3495555
17,300.00	90.00	179.45	12,300.00	-4,556.30	1,058.48	367,780.12	846,279.41	32.0072929	-103.3495553
17,400.00	90.00	179.45	12,300.00	-4,656.29	1,059.44	367,680.12	846,280.37	32.0070180	-103.3495552
17,500.00	90.00	179.45	12,300.00	-4,756.29	1,060.40	367,580.13	846,281.33	32.0067432	-103.3495550
17,600.00	90.00	179.45	12,300.00	-4,856.28	1,061.36	367,480.13	846,282.29	32.0064683	-103.3495549
17,700.00	90.00	179.45	12,300.00	-4,956.28	1,062.32	367,380.14	846,283.25	32.0061934	-103.3495547
17,800.00	90.00	179.45	12,300.00	-5,056.28	1,063.28	367,280.14	846,284.21	32.0059186	-103.3495545
17,900.00	90.00	179.45	12,300.00	-5,156.27	1,064.24	367,180.15	846,285.17	32.0056437	-103.3495544
18,000.00	90.00	179.45	12,300.00	-5,256.27	1,065.20	367,080.15	846,286.13	32.0053688	-103.3495542

Planning Report - Geographic

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well ARENA ROJA FED UNIT 714H
Company:	WCDSO Permian NM	TVD Reference:	GL:3064+25ft @ 3089.00ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3064+25ft @ 3089.00ft
Site:	Sec 27-T26S-R35E	North Reference:	Grid
Well:	ARENA ROJA FED UNIT 714H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat R2 (850FEL--2610FEL) 3BSSS		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
18,100.00	90.00	179.45	12,300.00	-5,356.26	1,066.16	366,980.16	846,287.09	32.0050939	-103.3495541
18,200.00	90.00	179.45	12,300.00	-5,456.26	1,067.12	366,880.16	846,288.05	32.0048191	-103.3495539
18,300.00	90.00	179.45	12,300.00	-5,556.25	1,068.08	366,780.17	846,289.01	32.0045442	-103.3495537
18,400.00	90.00	179.45	12,300.00	-5,656.25	1,069.04	366,680.17	846,289.97	32.0042693	-103.3495536
18,500.00	90.00	179.45	12,300.00	-5,756.24	1,070.00	366,580.18	846,290.93	32.0039945	-103.3495534
18,600.00	90.00	179.45	12,300.00	-5,856.24	1,070.96	366,480.18	846,291.89	32.0037196	-103.3495533
18,700.00	90.00	179.45	12,300.00	-5,956.23	1,071.92	366,380.19	846,292.85	32.0034447	-103.3495531
18,800.00	90.00	179.45	12,300.00	-6,056.23	1,072.88	366,280.19	846,293.81	32.0031699	-103.3495529
18,900.00	90.00	179.45	12,300.00	-6,156.22	1,073.84	366,180.20	846,294.77	32.0028950	-103.3495528
19,000.00	90.00	179.45	12,300.00	-6,256.22	1,074.80	366,080.20	846,295.73	32.0026201	-103.3495526
19,100.00	90.00	179.45	12,300.00	-6,356.22	1,075.76	365,980.21	846,296.69	32.0023452	-103.3495525
19,201.94	90.00	179.45	12,300.00	-6,458.15	1,076.74	365,878.27	846,297.67	32.0020650	-103.3495523
Start Turn 10DSL@19201.94'MD									
19,250.00	90.00	184.26	12,300.00	-6,506.17	1,075.19	365,830.25	846,296.11	32.0019331	-103.3495587
19,300.00	90.00	189.26	12,300.00	-6,555.81	1,069.31	365,780.61	846,290.23	32.0017968	-103.3495791
19,350.00	90.00	194.26	12,300.00	-6,604.74	1,059.12	365,731.68	846,280.05	32.0016626	-103.3496134
19,400.00	90.00	199.26	12,300.00	-6,652.61	1,044.71	365,683.82	846,265.64	32.0015314	-103.3496613
19,450.00	90.00	204.26	12,300.00	-6,699.03	1,026.19	365,637.39	846,247.11	32.0014042	-103.3497224
19,500.00	90.00	209.26	12,300.00	-6,743.66	1,003.68	365,592.76	846,224.61	32.0012821	-103.3497963
19,550.00	90.00	214.26	12,300.00	-6,786.16	977.38	365,550.26	846,198.30	32.0011660	-103.3498824
19,600.00	90.00	219.26	12,300.00	-6,826.21	947.47	365,510.21	846,168.39	32.0010566	-103.3499801
19,630.87	90.00	222.34	12,300.00	-6,849.58	927.30	365,486.84	846,148.23	32.0009929	-103.3500458
Start No Perf@19630.87'MD									
19,650.00	90.00	224.26	12,300.00	-6,863.50	914.18	365,472.92	846,135.11	32.0009550	-103.3500885
19,700.00	90.00	229.26	12,300.00	-6,897.74	877.77	365,438.68	846,098.70	32.0008618	-103.3502070
19,750.00	90.00	234.26	12,300.00	-6,928.69	838.51	365,407.74	846,059.44	32.0007777	-103.3503345
19,800.00	90.00	239.26	12,300.00	-6,956.09	796.71	365,380.34	846,017.64	32.0007034	-103.3504701
19,850.00	90.00	244.26	12,300.00	-6,979.74	752.68	365,356.68	845,973.60	32.0006395	-103.3506128
19,900.00	90.00	249.26	12,300.00	-6,999.47	706.75	365,336.95	845,927.68	32.0005864	-103.3507616
19,950.00	90.00	254.26	12,300.00	-7,015.12	659.28	365,321.31	845,880.21	32.0005446	-103.3509151
20,000.00	90.00	259.26	12,300.00	-7,026.57	610.62	365,309.85	845,831.55	32.0005143	-103.3510724
20,050.00	90.00	264.26	12,300.00	-7,033.74	561.16	365,302.69	845,782.08	32.0004959	-103.3512322
20,100.00	90.00	269.26	12,300.00	-7,036.57	511.25	365,299.86	845,732.18	32.0004893	-103.3513932
20,107.45	90.00	270.00	12,300.00	-7,036.61	503.81	365,299.81	845,724.73	32.0004894	-103.3514172
20,200.00	90.00	270.00	12,300.00	-7,036.61	411.25	365,299.81	845,632.18	32.0004917	-103.3517158
20,300.00	90.00	270.00	12,300.00	-7,036.61	311.25	365,299.81	845,532.18	32.0004942	-103.3520383
20,400.00	90.00	270.00	12,300.00	-7,036.61	211.25	365,299.81	845,432.18	32.0004967	-103.3523609
20,500.00	90.00	270.00	12,300.00	-7,036.61	111.25	365,299.81	845,332.18	32.0004992	-103.3526834
20,600.00	90.00	270.00	12,300.00	-7,036.61	11.25	365,299.81	845,232.18	32.0005017	-103.3530060
20,700.00	90.00	270.00	12,300.00	-7,036.61	-88.75	365,299.81	845,132.18	32.0005042	-103.3533285
20,713.45	90.00	270.00	12,300.00	-7,036.61	-102.20	365,299.81	845,118.73	32.0005045	-103.3533719
Start Turn_10DLS@20713.45'MD									
20,750.00	90.00	273.66	12,300.00	-7,035.45	-138.72	365,300.97	845,082.21	32.0005086	-103.3534897
20,800.00	90.00	278.66	12,300.00	-7,030.09	-188.42	365,306.33	845,032.51	32.0005246	-103.3536498
20,850.00	90.00	283.66	12,300.00	-7,020.42	-237.46	365,316.00	844,983.47	32.0005524	-103.3538077
20,900.00	90.00	288.66	12,300.00	-7,006.51	-285.47	365,329.91	844,935.46	32.0005918	-103.3539621
20,950.00	90.00	293.66	12,300.00	-6,988.47	-332.08	365,347.95	844,888.84	32.0006426	-103.3541120
21,000.00	90.00	298.66	12,300.00	-6,966.44	-376.95	365,369.98	844,843.98	32.0007042	-103.3542560
21,050.00	90.00	303.66	12,300.00	-6,940.58	-419.73	365,395.84	844,801.20	32.0007764	-103.3543933
21,100.00	90.00	308.66	12,300.00	-6,911.09	-460.08	365,425.33	844,760.85	32.0008584	-103.3545226
21,150.00	90.00	313.66	12,300.00	-6,878.19	-497.72	365,458.23	844,723.21	32.0009498	-103.3546430
21,175.00	90.00	316.16	12,300.00	-6,860.55	-515.42	365,475.88	844,705.51	32.0009987	-103.3546996
End No Perf@21175.00'MD									
21,200.00	90.00	318.66	12,300.00	-6,842.14	-532.34	365,494.28	844,688.59	32.0010497	-103.3547536

Planning Report - Geographic

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well ARENA ROJA FED UNIT 714H
Company:	WCDSC Permian NM	TVD Reference:	GL:3064+25ft @ 3089.00ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3064+25ft @ 3089.00ft
Site:	Sec 27-T26S-R35E	North Reference:	Grid
Well:	ARENA ROJA FED UNIT 714H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat R2 (850FEL--2610FEL) 3BSSS		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
21,250.00	90.00	323.66	12,300.00	-6,803.21	-563.69	365,533.21	844,657.24	32.0011575	-103.3548536
21,300.00	90.00	328.66	12,300.00	-6,761.70	-591.53	365,574.72	844,629.40	32.0012723	-103.3549422
21,350.00	90.00	333.66	12,300.00	-6,717.92	-615.65	365,618.50	844,605.28	32.0013933	-103.3550187
21,400.00	90.00	338.66	12,300.00	-6,672.20	-635.85	365,664.22	844,585.08	32.0015194	-103.3550825
21,450.00	90.00	343.66	12,300.00	-6,624.89	-652.00	365,711.53	844,568.93	32.0016498	-103.3551332
21,500.00	90.00	348.66	12,300.00	-6,576.36	-663.96	365,760.06	844,556.97	32.0017835	-103.3551704
21,550.00	90.00	353.66	12,300.00	-6,526.97	-671.64	365,809.45	844,549.29	32.0019195	-103.3551937
21,600.00	90.00	358.66	12,300.00	-6,477.10	-675.00	365,859.32	844,545.94	32.0020566	-103.3552031
21,607.25	90.00	359.38	12,300.00	-6,469.85	-675.12	365,866.57	844,545.81	32.0020766	-103.3552033
21,700.00	90.00	359.38	12,300.00	-6,377.11	-676.12	365,959.31	844,544.81	32.0023315	-103.3552038
21,800.00	90.00	359.38	12,300.00	-6,277.11	-677.20	366,059.31	844,543.73	32.0026064	-103.3552044
21,900.00	90.00	359.38	12,300.00	-6,177.12	-678.29	366,159.30	844,542.64	32.0028813	-103.3552050
22,000.00	90.00	359.38	12,300.00	-6,077.13	-679.37	366,259.30	844,541.56	32.0031561	-103.3552055
22,100.00	90.00	359.38	12,300.00	-5,977.13	-680.45	366,359.29	844,540.48	32.0034310	-103.3552061
22,200.00	90.00	359.38	12,300.00	-5,877.14	-681.53	366,459.28	844,539.40	32.0037059	-103.3552067
22,300.00	90.00	359.38	12,300.00	-5,777.14	-682.61	366,559.28	844,538.32	32.0039807	-103.3552072
22,400.00	90.00	359.38	12,300.00	-5,677.15	-683.69	366,659.27	844,537.24	32.0042556	-103.3552078
22,500.00	90.00	359.38	12,300.00	-5,577.15	-684.77	366,759.27	844,536.16	32.0045305	-103.3552084
22,600.00	90.00	359.38	12,300.00	-5,477.16	-685.85	366,859.26	844,535.08	32.0048053	-103.3552089
22,700.00	90.00	359.38	12,300.00	-5,377.17	-686.93	366,959.25	844,534.00	32.0050802	-103.3552095
22,800.00	90.00	359.38	12,300.00	-5,277.17	-688.01	367,059.25	844,532.92	32.0053551	-103.3552101
22,900.00	90.00	359.38	12,300.00	-5,177.18	-689.09	367,159.24	844,531.84	32.0056300	-103.3552106
23,000.00	90.00	359.38	12,300.00	-5,077.18	-690.17	367,259.24	844,530.76	32.0059048	-103.3552112
23,100.00	90.00	359.38	12,300.00	-4,977.19	-691.25	367,359.23	844,529.68	32.0061797	-103.3552118
23,200.00	90.00	359.38	12,300.00	-4,877.20	-692.33	367,459.22	844,528.60	32.0064546	-103.3552123
23,300.00	90.00	359.38	12,300.00	-4,777.20	-693.41	367,559.22	844,527.52	32.0067294	-103.3552129
23,400.00	90.00	359.38	12,300.00	-4,677.21	-694.49	367,659.21	844,526.44	32.0070043	-103.3552135
23,500.00	90.00	359.38	12,300.00	-4,577.21	-695.57	367,759.20	844,525.36	32.0072792	-103.3552140
23,600.00	90.00	359.38	12,300.00	-4,477.22	-696.65	367,859.20	844,524.28	32.0075540	-103.3552146
23,700.00	90.00	359.38	12,300.00	-4,377.22	-697.73	367,959.19	844,523.20	32.0078289	-103.3552151
23,800.00	90.00	359.38	12,300.00	-4,277.23	-698.81	368,059.19	844,522.12	32.0081038	-103.3552157
23,900.00	90.00	359.38	12,300.00	-4,177.24	-699.88	368,159.18	844,521.05	32.0083787	-103.3552163
24,000.00	90.00	359.38	12,300.00	-4,077.24	-700.96	368,259.17	844,519.97	32.0086535	-103.3552168
24,100.00	90.00	359.38	12,300.00	-3,977.25	-702.04	368,359.17	844,518.89	32.0089284	-103.3552174
24,200.00	90.00	359.38	12,300.00	-3,877.25	-703.12	368,459.16	844,517.81	32.0092033	-103.3552179
24,300.00	90.00	359.38	12,300.00	-3,777.26	-704.20	368,559.16	844,516.73	32.0094781	-103.3552185
24,400.00	90.00	359.38	12,300.00	-3,677.26	-705.27	368,659.15	844,515.66	32.0097530	-103.3552190
24,500.00	90.00	359.38	12,300.00	-3,577.27	-706.35	368,759.14	844,514.58	32.0100279	-103.3552196
24,600.00	90.00	359.38	12,300.00	-3,477.28	-707.43	368,859.14	844,513.50	32.0103028	-103.3552202
24,700.00	90.00	359.38	12,300.00	-3,377.28	-708.51	368,959.13	844,512.42	32.0105776	-103.3552207
24,800.00	90.00	359.38	12,300.00	-3,277.29	-709.58	369,059.13	844,511.35	32.0108525	-103.3552213
24,900.00	90.00	359.38	12,300.00	-3,177.29	-710.66	369,159.12	844,510.27	32.0111274	-103.3552218
25,000.00	90.00	359.38	12,300.00	-3,077.30	-711.74	369,259.11	844,509.19	32.0114022	-103.3552224
25,100.00	90.00	359.38	12,300.00	-2,977.31	-712.81	369,359.11	844,508.12	32.0116771	-103.3552229
25,200.00	90.00	359.38	12,300.00	-2,877.31	-713.89	369,459.10	844,507.04	32.0119520	-103.3552235
25,300.00	90.00	359.38	12,300.00	-2,777.32	-714.96	369,559.10	844,505.97	32.0122268	-103.3552240
25,400.00	90.00	359.38	12,300.00	-2,677.32	-716.04	369,659.09	844,504.89	32.0125017	-103.3552246
25,500.00	90.00	359.38	12,300.00	-2,577.33	-717.12	369,759.08	844,503.82	32.0127766	-103.3552251
25,600.00	90.00	359.38	12,300.00	-2,477.33	-718.19	369,859.08	844,502.74	32.0130515	-103.3552257
25,700.00	90.00	359.38	12,300.00	-2,377.34	-719.27	369,959.07	844,501.66	32.0133263	-103.3552262
25,800.00	90.00	359.38	12,300.00	-2,277.35	-720.34	370,059.07	844,500.59	32.0136012	-103.3552268
25,900.00	90.00	359.38	12,300.00	-2,177.35	-721.42	370,159.06	844,499.51	32.0138761	-103.3552273
26,000.00	90.00	359.38	12,300.00	-2,077.36	-722.49	370,259.06	844,498.44	32.0141509	-103.3552279
26,100.00	90.00	359.38	12,300.00	-1,977.36	-723.57	370,359.05	844,497.36	32.0144258	-103.3552284
26,200.00	90.00	359.38	12,300.00	-1,877.37	-724.64	370,459.04	844,496.29	32.0147007	-103.3552290

Planning Report - Geographic

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well ARENA ROJA FED UNIT 714H
Company:	WCDSC Permian NM	TVD Reference:	GL:3064+25ft @ 3089.00ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3064+25ft @ 3089.00ft
Site:	Sec 27-T26S-R35E	North Reference:	Grid
Well:	ARENA ROJA FED UNIT 714H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat R2 (850FEL--2610FEL) 3BSSS		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
26,300.00	90.00	359.38	12,300.00	-1,777.37	-725.71	370,559.04	844,495.22	32.0149755	-103.3552295
26,400.00	90.00	359.38	12,300.00	-1,677.38	-726.79	370,659.03	844,494.14	32.0152504	-103.3552301
26,500.00	90.00	359.38	12,300.00	-1,577.39	-727.86	370,759.03	844,493.07	32.0155253	-103.3552306
26,600.00	90.00	359.38	12,300.00	-1,477.39	-728.94	370,859.02	844,491.99	32.0158002	-103.3552311
26,700.00	90.00	359.38	12,300.00	-1,377.40	-730.01	370,959.01	844,490.92	32.0160750	-103.3552317
26,800.00	90.00	359.38	12,300.00	-1,277.40	-731.08	371,059.01	844,489.85	32.0163499	-103.3552322
26,900.00	90.00	359.39	12,300.00	-1,177.41	-732.16	371,159.00	844,488.77	32.0166248	-103.3552328
27,000.00	90.00	359.39	12,300.00	-1,077.42	-733.23	371,259.00	844,487.70	32.0168996	-103.3552333
27,100.00	90.00	359.39	12,300.00	-977.42	-734.30	371,358.99	844,486.63	32.0171745	-103.3552339
27,200.00	90.00	359.39	12,300.00	-877.43	-735.38	371,458.98	844,485.55	32.0174494	-103.3552344
27,300.00	90.00	359.39	12,300.00	-777.43	-736.45	371,558.98	844,484.48	32.0177242	-103.3552349
27,400.00	90.00	359.39	12,300.00	-677.44	-737.52	371,658.97	844,483.41	32.0179991	-103.3552355
27,500.00	90.00	359.39	12,300.00	-577.44	-738.59	371,758.97	844,482.34	32.0182740	-103.3552360
27,600.00	90.00	359.39	12,300.00	-477.45	-739.67	371,858.96	844,481.27	32.0185488	-103.3552366
27,700.00	90.00	359.39	12,300.00	-377.46	-740.74	371,958.95	844,480.19	32.0188237	-103.3552371
27,800.00	90.00	359.39	12,300.00	-277.46	-741.81	372,058.95	844,479.12	32.0190986	-103.3552376
27,900.00	90.00	359.39	12,300.00	-177.47	-742.88	372,158.94	844,478.05	32.0193735	-103.3552382
28,000.00	90.00	359.39	12,300.00	-77.47	-743.95	372,258.94	844,476.98	32.0196483	-103.3552387
28,100.00	90.00	359.39	12,300.00	22.52	-745.02	372,358.93	844,475.91	32.0199232	-103.3552392
28,200.00	90.00	359.39	12,300.00	122.52	-746.09	372,458.92	844,474.84	32.0201981	-103.3552398
28,300.00	90.00	359.39	12,300.00	222.51	-747.17	372,558.92	844,473.76	32.0204729	-103.3552403
28,400.00	90.00	359.39	12,300.00	322.50	-748.24	372,658.91	844,472.69	32.0207478	-103.3552409
28,500.00	90.00	359.39	12,300.00	422.50	-749.31	372,758.91	844,471.62	32.0210227	-103.3552414
28,570.50	90.00	359.39	12,300.00	492.99	-750.06	372,829.40	844,470.87	32.0212165	-103.3552418
LTP@28570.50'MD_100FNL, 2610FEL									
28,600.00	90.00	359.39	12,300.00	522.49	-750.38	372,858.90	844,470.55	32.0212975	-103.3552419
28,650.50	90.00	359.39	12,300.00	572.99	-750.92	372,909.39	844,470.01	32.0214363	-103.3552422

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (714H) 100FINL 85i - plan misses target center by 1131.11ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	509.49	1,009.86	372,845.90	846,230.79	32.0212179	-103.3495634
KOP (714H) 50FINL 850 - plan misses target center by 1154.06ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	559.48	1,009.37	372,895.89	846,230.30	32.0213553	-103.3495635
LTP (714H) 100FNL 261 - plan hits target center - Point	0.00	0.00	12,300.00	492.99	-750.06	372,829.40	844,470.87	32.0212164	-103.3552418
TP #2 (714H) 251FSI, 1' - plan misses target center by 142.66ft at 19839.87ft MD (12300.00 TVD, -6975.26 N, 761.76 E) - Point	0.00	0.00	12,300.00	-6,849.58	694.25	365,486.84	845,915.18	32.0009987	-103.3507975
TP #3 (714H) 251FSI, 2' - plan misses target center by 133.35ft at 20970.06ft MD (12300.00 TVD, -6980.10 N, -350.31 E) - Point	0.00	0.00	12,300.00	-6,860.40	-291.53	365,476.02	844,929.40	32.0009936	-103.3539774

Planning Report - Geographic

Database:	EDM_5000.17	Local Co-ordinate Reference:	Well ARENA ROJA FED UNIT 714H
Company:	WCDSC Permian NM	TVD Reference:	GL:3064+25ft @ 3089.00ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	GL:3064+25ft @ 3089.00ft
Site:	Sec 27-T26S-R35E	North Reference:	Grid
Well:	ARENA ROJA FED UNIT 714H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat R2 (850FEL--2610FEL) 3BSSS		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
967.00	967.00	Rustler				
1,430.00	1,430.00	Salt				
4,948.62	4,880.00	Base of Salt				
4,948.62	4,880.00	Delaware				
6,317.17	6,211.00	Cherry Canyon				
7,813.90	7,684.00	Brushy Canyon				
9,212.90	9,083.00	1st Bone Spring Lime				
10,499.90	10,370.00	Bone Spring 1st				
11,013.90	10,884.00	Bone Spring 2nd				
11,459.90	11,330.00	3rd Bone Spring Lime				
12,164.45	12,020.00	Bone Spring 3rd				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
11,856.94	11,727.04	559.48	1,009.37	KOP@11856.94'MD_50FSL, 850FEL	
12,100.00	11,962.87	508.70	1,009.86	FTP@12100.00'MD	
19,201.94	12,300.00	-6,458.15	1,076.74	Start Turn 10DSL@19201.94'MD	
19,630.87	12,300.00	-6,849.58	927.30	Start No Perf@19630.87'MD	
20,713.45	12,300.00	-7,036.61	-102.20	Start Turn_10DLS@20713.45'MD	
21,175.00	12,300.00	-6,860.55	-515.42	End No Perf@21175.00'MD	
28,570.50	12,300.00	492.99	-750.06	LTP@28570.50'MD_100FNL, 2610FEL	

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION		Revised July, 2024	
			Submittal Type:	☐ Initial Submittal
				☒ Amended Report
		☐ As Drilled		

WELL LOCATION INFORMATION

API Number 30-025-53644	Pool Code	Pool Name
Property Code 34832	Property Name ARENA ROJA FED UNIT	Well Number 714H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	Ground Level Elevation 3064.0'
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
B	27	26-S	35-E		600' N	1865' E	32.019843	103.352836	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	27	26-S	35-E		20' N	2610' E	32.021436	103.355242	LEA

Dedicated Acres 933.76	Infill or Defining Well Defining	Defining Well API N/A	Overlapping Spacing Unit (Y/N) N	Consolidation Code U
Order Numbers			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
A	27	26-S	35-E		50' N	850' E	32.021355	103.349564	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	27	26-S	35-E		100' N	850' E	32.021218	103.349563	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	27	26-S	35-E		100' N	2610' E	32.021216	103.355242	LEA

Spacing Unit Type		Horizontal	Vertical	Ground Floor Elevation:
		HZ		

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.

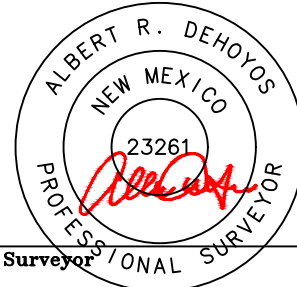
If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or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

Signature *Rebecca Deal* Date 9/23/2025

Printed Name
Rebecca Deal, Regulatory Analyst
Email Address
rebecca.deal@dmn.com

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 supervision, and that the same is true and correct to the best of my belief.



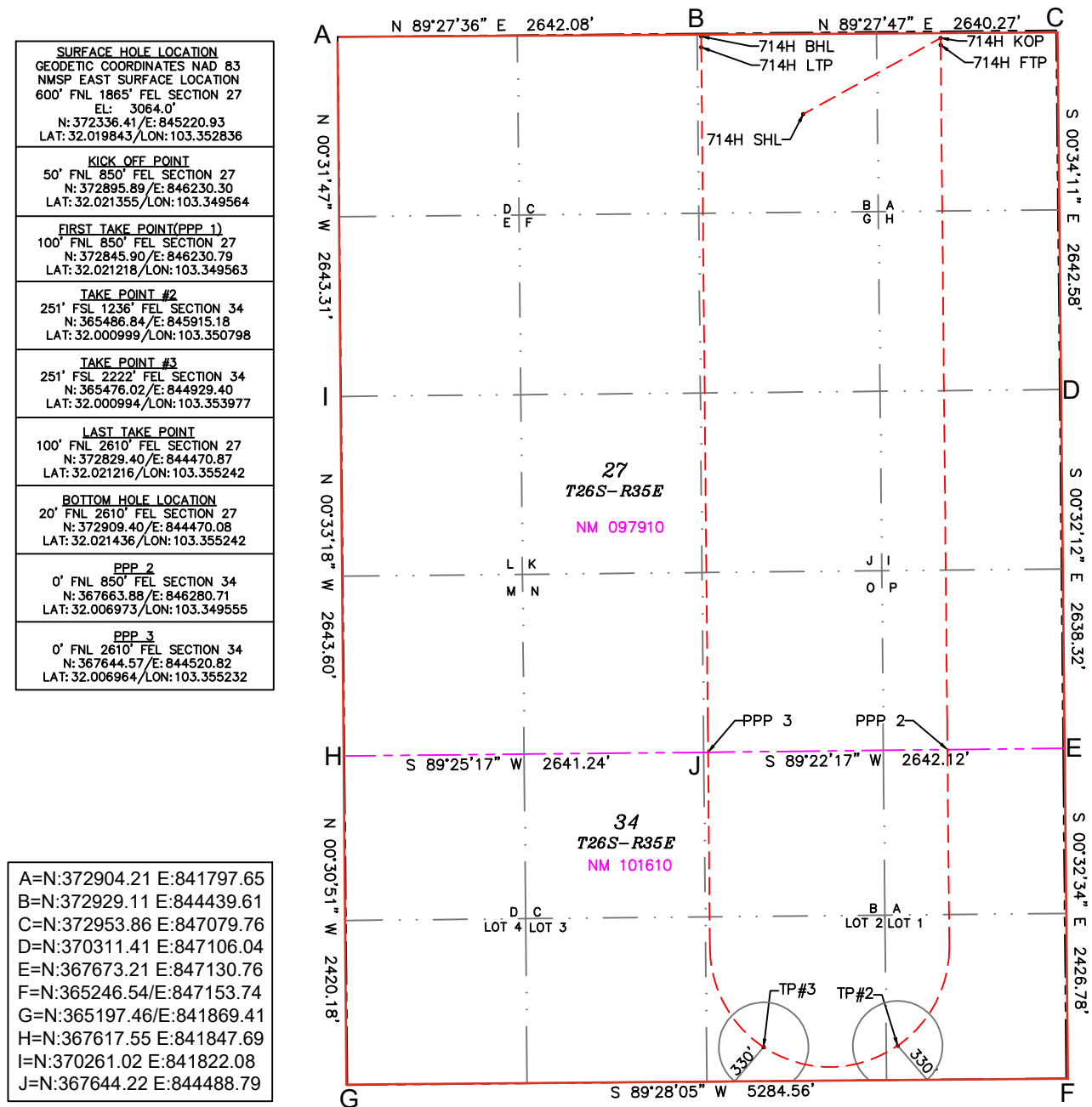
Signature and Seal of Professional Surveyor

Certificate Number 23261 Date of Survey 08/20/2025

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.





13-3/8" 54.50# .380 J-55

Dimensions (Nominal)

Outside Diameter	13.375	in.
Wall	0.380	in.
Inside Diameter	12.615	in.
Drift	12.459	in.
Weight, T&C	54.500	lbs/ft
Weight, PE	52.790	lbs/ft

Performance Ratings, Minimum

Collapse, PE	1130	psi
Internal Yields Pressure		
PE	2730	psi
STC	2730	PSI
BTC	2730	psi
Yield Strength, Pipe Body	853	1000 lbs
Joint Strength, STC	514	1000 lbs
Joint Strength, BTC	909	1000 lbs

Note: SeAH Steel has produced this specification sheet for general information only. SeAH does not assume liability or responsibility for any loss or injury resulting from the use of information or data contained herein. All applications for the material described are at the customer's own risk and responsibility.



U. S. Steel Tubular Products

5.500" 20.00lb/ft (0.361" Wall) P110 HP USS-CDC HTQ[®]

2/21/2024 7:47:29 AM



MECHANICAL PROPERTIES	Pipe	USS-CDC HTQ [®]		--
Minimum Yield Strength	125,000	--	psi	--
Maximum Yield Strength	140,000	--	psi	--
Minimum Tensile Strength	130,000	--	psi	--
DIMENSIONS	Pipe	USS-CDC HTQ [®]		--
Outside Diameter	5.500	6.300	in.	--
Wall Thickness	0.361	--	in.	--
Inside Diameter	4.778	4.778	in.	--
Standard Drift	4.653	4.653	in.	--
Alternate Drift	--	--	in.	--
Nominal Linear Weight, T&C	20.00	--	lb/ft	--
Plain End Weight	19.83	--	lb/ft	--
SECTION AREA	Pipe	USS-CDC HTQ [®]		--
Critical Area	5.828	5.828	sq. in.	--
Joint Efficiency	--	97.0	%	--
PERFORMANCE	Pipe	USS-CDC HTQ [®]		--
Minimum Collapse Pressure	13,150	13,150	psi	--
External Pressure Leak Resistance	--	10,520	psi	--
Minimum Internal Yield Pressure	14,360	14,360	psi	--
Minimum Pipe Body Yield Strength	729,000	--	lb	--
Joint Strength	--	707,000	lb	--
Compression Rating	--	424,000	lb	--
Reference Length	--	23,567	ft	--
Maximum Uniaxial Bend Rating	--	60.6	deg/100 ft	--
MAKE-UP DATA	Pipe	USS-CDC HTQ [®]		--
Make-Up Loss	--	4.63	in.	--
Minimum Make-Up Torque	--	14,500	ft-lb	--
Maximum Make-Up Torque	--	20,500	ft-lb	--
Connection Yield Torque	--	25,300	ft-lb	--

UNCONTROLLED

Notes

1.

Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness and Specified Minimum Yield Strength (SMYS).
2.

Uniaxial bending rating shown is structural only, and equal to compression efficiency.
3.

Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
4.

Reference length is calculated by joint strength divided by nominal threaded and coupled weight with 1.5 safety factor.
5.

Connection external pressure leak resistance has been verified to 80% API pipe body collapse pressure following the guidelines of API 5C5 Cal II.

Legal Notice

USS - CDC HTQ[®] (High Torque Casing Drilling Connection) is a trademark of U. S. Steel Corporation. This product is a modified API Buttress threaded and coupled connection designed for drilling with casing applications. All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

ARENA ROJA FED UNIT 714H

1. Geologic Formations

TVD of target	12300	Pilot hole depth	N/A
MD at TD:	28650	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	967		
Salt	1430		
Base of Salt	4880		
Delaware	4880		
Cherry Canyon	6211		
Brushy Canyon	7684		
1st Bone Spring Lime	9083		
Bone Spring 1st	10370		
Bone Spring 2nd	10884		
3rd Bone Spring Lime	11330		
Bone Spring 3rd	12020		

*H2S, water flows, loss of circulation, abnormal pressures, etc.

ARENA ROJA FED UNIT 714H

2. Casing Program

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	54 1/2	J-55	BTC	0	1037	0	1037
9 7/8	8 5/8	32	P110HP	Talon	0	11756	0	11756
7 7/8	5 1/2	20	P110HP	CDC-HTQ	0	28650	0	12300

• All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for contingency casing.

3. Cementing Program

Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. The final cement top will be verified by Echo-meter. Devon will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program. Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures.

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	788	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	691	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
	459	7813	13.2	1.44	Tail: Class H / C + additives
Production	117	9856	9	3.27	Lead: Class H / C + additives
	2223	11856	13.2	1.44	Tail: Class H / C + additives

Devon Energy requests to offline cement on intermediate strings that are set in formations shallower than the Wolfcamp. Prior to commencing offline cementing operations, the well will be monitored for any abnormal pressures and confirmed to be static. A dual manifold system (equipped with chokes) for the returns will also be utilized as a redundancy. All equipment used for offline cementing will have a minimum 5M rating to match intermediate sections' 5M BOPE requirements.

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Prod	10%

ARENA ROJA FED UNIT 714H

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?		Size?	Min. Required WP	Type		✓	Tested to:
Int 1		13-5/8"	5M	Annular		X	50% of rated working pressure
				Blind Ram		X	5M
				Pipe Ram			
				Double Ram		X	
				Other*			
Production		13-5/8"	10M	Annular (5M)		X	100% of rated working pressure
				Blind Ram		X	10M
				Pipe Ram			
				Double Ram		X	
				Other*			
				Annular (5M)			
				Blind Ram			
				Pipe Ram			
				Double Ram			
				Other*			
N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.						
Y	A variance is requested to run a 5 M annular on a 10M system						

ARENA ROJA FED UNIT 714H

5. Mud Program (Three String Design)

Section	Type	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	DBE / Cut Brine	10-10.5
Production	OBM	10-10.5

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

Additional logs planned	Interval
	Resistivity
	Density
X	CBL
	Mud log
	PEX
	Int. shoe to KOP
	Int. shoe to KOP
	Production casing
	Intermediate shoe to TD

7. Drilling Conditions

Condition	Specify what type and where?
BH pressure at deepest TVD	6716
Abnormal temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

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.

N	H ₂ S is present
Y	H ₂ S plan attached.

ARENA ROJA FED UNIT 714H

8. Other facets of operation

Is this a walking operation? Potentially

- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
- 3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
- 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nipped up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan
 Other, describe

27-26-35-B Sundry ID 2875429 Arena Roja Fed Unit 714H.xlsm

Arena Roja Fed Unit 714H

13 3/8		surface csg in a		17 1/2		inch hole.		Design Factors				Surface		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight		
"A"	54.50		j 55	btc	15.05	2.32	0.43	1,040	6	0.71	4.39	56,680		
"B"				btc				0				0		
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,457														
				Tail Cmt	does not	circ to sfc.	Totals:	1,040				56,680		
Comparison of Proposed to Minimum Required Cement Volumes														
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist		
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg		
17 1/2	0.6946	788	1135	722	57	9.00	3826	5M				1.56		
Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK.														
Site plot (pipe racks 3 or 4) as per O.D. 138.D.3.1. not found														

8 5/8		casing inside the		13 3/8		Design Factors				Int 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	32.00		p 110	uss talon htq	3.04	0.71	1.33	11,756	1	2.23	1.18	376,192
"B"								0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,121								Totals:	11,756			376,192
The cement volume(s) are intended to achieve a top of						0	ft from surface or a		1040			overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
9 7/8	0.1261	459	661	1832	-64	10.50	4003	5M				0.44
r D V Tool(s):			7684	sum of sx				Σ CuFt				Σ%excess
t by stage % :		29	21	1150				2250				23
Class 'H' tail cmt yld > 1.20												

Tail cmt												
5 1/2		casing inside the		8 5/8		Design Factors				Prod 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	20.00		p 110	cdc-htq	2.61	1.89	1.88	11,856	2	3.16	3.16	237,120
"B"	20.00		p 110	cdc-htq	2.40	1.67	1.88	7,345	2	3.16	3.05	146,900
"C"	20.00		p 110	cdc-htq	2.82	1.68	1.88	1,512	2	3.16	3.05	30,240
"D"	20.00		p 110	cdc-htq	9.19	1.67	1.88	7,937	2	3.16	3.05	158,740
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,608								Totals:				573,000
The cement volume(s) are intended to achieve a top of						11556	ft from surface or a		200			overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
7 7/8	0.1733	2340	3584	2962	21	10.50						0.79
Class 'C' tail cmt yld > 1.35												

#N/A											
0	5 1/2			Design Factors				<Choose Casing>			
Segment	#/ft	Grade	Coupling	#N/A	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"			0.00				0				0
"B"			0.00				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig:							Totals:	0	0		
Cmt vol calc below includes this csg, TOC intended							#N/A	ft from surface or a	#N/A	overlap.	
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist		
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg		
0		#N/A	#N/A	0	#N/A						
#N/A Capitan Reef est top XXXX.											

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oecd/contact-us>

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

CONDITIONS

Action 516400

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 516400
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
matthew.gomez	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.	11/24/2025
matthew.gomez	Administrative order required for non-standard spacing unit prior to production.	11/24/2025
matthew.gomez	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	11/24/2025
matthew.gomez	Cement is required to circulate on both surface and intermediate1 strings of casing.	11/24/2025
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.	11/24/2025
matthew.gomez	All previous COA's still apply.	11/24/2025