

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010HOBBS OCS
DEPT OF THE INTERIOR
RECEIVED

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM77090
2. Name of Operator GMT EXPLORATION LLC		6. If Indian, Allottee or Tribe Name
Contact: MARISSA WALTERS E-Mail: mwalters@gmtexploration.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 1560 BROADWAY SUITE 2000 DENVER, CO 80202	3b. Phone No. (include area code) Ph: 303-586-9275	8. Well Name and No. ROMEO FEDERAL COM 1H ✓
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 22 T24S R34E 400FNL 660FWL ✓ 32.114811 N Lat, 103.275124 W Lon		9. API Well No. 30-025-42999
		10. Field and Pool, or Exploratory RED HILLS; BONE SPRING N
		11. County or Parish, and State LEA COUNTY, NM

12. CHECK 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	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original APD
	☐ 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 recompleat 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 performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

GMT is submitting a new directional plan for the above well. The surface location will remain the same however our first take point will change to 330' FNL & 330' FWL. We will also be changing our target zone from 3rd Bone Spring (11970' TVD) to the 2nd Bone Spring (11180' TVD), all other aspects of the drilling plan will remain the same. Attached is an updated C102 as well as a new directional plan.

Original COAs Still Stand.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #357694 verified by the BLM Well Information System For GMT EXPLORATION LLC, sent to the Hobbs Committed to AFMSS for processing by DEBORAH MCKINNEY on 11/14/2016 ()	
Name (Printed/Typed) KEITH KRESS	Title ENGINEER
Signature (Electronic Submission)	Date 11/10/2016
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
Approved By	Title
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.	

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (505) 393-8161 Fax: (505) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (505) 748-1283 Fax: (505) 748-8720

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-8178 Fax: (505) 334-8179

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 478-8480 Fax: (505) 478-8483

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-42999	Pool Code 96434	Pool Name Red Hills; Bone Spring, North
Property Code	Property Name ROMEO FEDERAL COM	Well Number 1H
OGRID No. 260511	Operator Name GMT EXPLORATION COMPANY LLC	Elevation 3534

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
D	22	24 S	34 E		400	NORTH	660	WEST	LEA

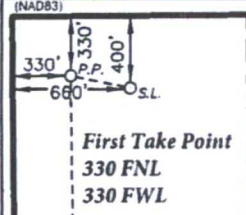
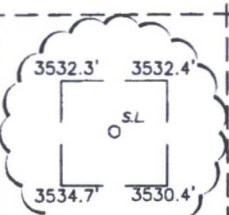
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
M	22	24 S	34 E		330	SOUTH	330	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
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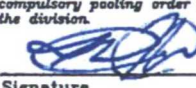
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

N. 441319.2
E. 809477.2
(NAD83)

 First Take Point 330 FNL 330 FWL	SURFACE LOCATION Lat - N 32°12'33.09" Long - W 103°27'51.24" NMSPCE - N 440924.5 E 810139.5 (NAD-83)	 PENETRATION POINT Lat - N 32°12'33.78" Long - W 103°27'55.07" NMSPCE - N 440991.9 E 809809.1 (NAD-83)	 Last Take Point 330 FSL 330 FNL	PROPOSED BOTTOM HOLE LOCATION Lat - N 32°11'48.11" Long - W 103°27'55.10" NMSPCE - N 436376.6 E 809843.9 (NAD-83)	N. 441340.3 E. 812119.3 (NAD83) N. 441361.3 E. 814761.4 (NAD83) N. 436083.2 E. 814803.1 (NAD83)
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OPERATOR CERTIFICATION

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


Signature Date 11/10/16

Keith Kress
Printed Name
kkress@gmtexploration.com
Email Address

SURVEYOR CERTIFICATION

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

Date Surveyed
Signature of Professional Surveyor
Certificate Number 7977
BRAIN SURVEY

0' 500' 1000' 1500' 2000'
SCALE: 1" = 1000'
WO Num.: 30453



GMT
Exploration Company LLC

GMT Exploration

Lea County, NM (NAD 83)

Romeo Federal 1H

Romeo Federal 1H

Romeo Federal 1H

Plan: Design #2

Standard Planning Report

01 November, 2016

 **NEWSCO**

Database: EDM 5000.1 Single User Db
Company: GMT Exploration
Project: Lea County, NM (NAD 83)
Site: Romeo Federal 1H
Well: Romeo Federal 1H
Wellbore: Romeo Federal 1H
Design: Design #2

Local Co-ordinate Reference: Well Romeo Federal 1H
TVD Reference: WELL @ 3554.00ft (McVay 10)
MD Reference: WELL @ 3554.00ft (McVay 10)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project Lea County, NM (NAD 83)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

Site Romeo Federal 1H

Site Position: Northing: 440,924.73 usft Latitude: 32° 12' 33.090 N
From: Lat/Long Easting: 810,139.14 usft Longitude: 103° 27' 51.240 W
Position Uncertainty: 0.00 ft Slot Radius: 13-3/16" Grid Convergence: 0.46 °

Well Romeo Federal 1H

Well Position +N/-S 0.00 ft Northing: 440,924.73 usft Latitude: 32° 12' 33.090 N
+E/-W 0.00 ft Easting: 810,139.14 usft Longitude: 103° 27' 51.240 W
Position Uncertainty 0.00 ft Wellhead Elevation: 0.00 ft Ground Level: 3,534.00 ft

Wellbore Romeo Federal 1H

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/28/16	6.97	60.07	48,005

Design Design #2

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	183.46

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	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,335.15	6.70	320.43	4,334.39	15.09	-12.48	2.00	2.00	0.00	320.43	
8,192.74	6.70	320.43	8,165.61	362.17	-299.32	0.00	0.00	0.00	0.00	
8,527.90	0.00	0.00	8,500.00	377.27	-311.80	2.00	-2.00	0.00	180.00	VP Romeo Federal 1H
10,581.98	0.00	0.00	10,554.08	377.27	-311.80	0.00	0.00	0.00	0.00	
11,475.01	89.30	179.57	11,127.00	-188.71	-307.53	10.00	10.00	20.11	179.57	
15,834.81	89.30	179.57	11,180.00	-4,548.06	-274.64	0.00	0.00	0.00	0.00	PBHL Romeo Federa

Database: EDM 5000.1 Single User Db
Company: GMT Exploration
Project: Lea County, NM (NAD 83)
Site: Romeo Federal 1H
Well: Romeo Federal 1H
Wellbore: Romeo Federal 1H
Design: Design #2

Local Co-ordinate Reference: Well Romeo Federal 1H
TVD Reference: WELL @ 3554.00ft (McVay 10)
MD Reference: WELL @ 3554.00ft (McVay 10)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
1,195.00	0.00	0.00	1,195.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
Salt Top									
1,295.00	0.00	0.00	1,295.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	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
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Salt Base									
3,015.00	0.00	0.00	3,015.00	0.00	0.00	0.00	0.00	0.00	0.00
Lamar Limestone									
3,050.00	0.00	0.00	3,050.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	2.00	320.43	4,099.98	1.35	-1.11	-1.28	2.00	2.00	0.00
4,200.00	4.00	320.43	4,199.84	5.38	-4.45	-5.10	2.00	2.00	0.00
4,300.00	6.00	320.43	4,299.45	12.10	-10.00	-11.47	2.00	2.00	0.00

Database: EDM 5000.1 Single User Db
Company: GMT Exploration
Project: Lea County, NM (NAD 83)
Site: Romeo Federal 1H
Well: Romeo Federal 1H
Wellbore: Romeo Federal 1H
Design: Design #2

Local Co-ordinate Reference: Well Romeo Federal 1H
TVD Reference: WELL @ 3554.00ft (McVay 10)
MD Reference: WELL @ 3554.00ft (McVay 10)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Start 3857.59 hold at 4335.15 MD									
4,335.15	6.70	320.43	4,334.39	15.09	-12.48	-14.32	2.00	2.00	0.00
4,400.00	6.70	320.43	4,398.79	20.93	-17.30	-19.85	0.00	0.00	0.00
4,500.00	6.70	320.43	4,498.11	29.93	-24.73	-28.38	0.00	0.00	0.00
4,600.00	6.70	320.43	4,597.43	38.92	-32.17	-36.91	0.00	0.00	0.00
4,700.00	6.70	320.43	4,696.74	47.92	-39.60	-45.45	0.00	0.00	0.00
4,800.00	6.70	320.43	4,796.06	56.92	-47.04	-53.98	0.00	0.00	0.00
4,900.00	6.70	320.43	4,895.37	65.92	-54.48	-62.51	0.00	0.00	0.00
5,000.00	6.70	320.43	4,994.69	74.91	-61.91	-71.04	0.00	0.00	0.00
5,100.00	6.70	320.43	5,094.01	83.91	-69.35	-79.58	0.00	0.00	0.00
5,200.00	6.70	320.43	5,193.32	92.91	-76.78	-88.11	0.00	0.00	0.00
5,300.00	6.70	320.43	5,292.64	101.90	-84.22	-96.64	0.00	0.00	0.00
Delaware Mountain Group									
5,356.43	6.70	320.43	5,348.68	106.98	-88.42	-101.46	0.00	0.00	0.00
Delaware Bell Canyon									
5,381.57	6.70	320.43	5,373.66	109.24	-90.29	-103.60	0.00	0.00	0.00
5,400.00	6.70	320.43	5,391.96	110.90	-91.66	-105.18	0.00	0.00	0.00
5,500.00	6.70	320.43	5,491.27	119.90	-99.09	-113.71	0.00	0.00	0.00
5,600.00	6.70	320.43	5,590.59	128.90	-106.53	-122.24	0.00	0.00	0.00
5,700.00	6.70	320.43	5,689.91	137.89	-113.96	-130.77	0.00	0.00	0.00
5,800.00	6.70	320.43	5,789.22	146.89	-121.40	-139.31	0.00	0.00	0.00
5,900.00	6.70	320.43	5,888.54	155.89	-128.84	-147.84	0.00	0.00	0.00
6,000.00	6.70	320.43	5,987.86	164.89	-136.27	-156.37	0.00	0.00	0.00
6,100.00	6.70	320.43	6,087.17	173.88	-143.71	-164.90	0.00	0.00	0.00
6,200.00	6.70	320.43	6,186.49	182.88	-151.14	-173.44	0.00	0.00	0.00
6,300.00	6.70	320.43	6,285.81	191.88	-158.58	-181.97	0.00	0.00	0.00
6,400.00	6.70	320.43	6,385.12	200.87	-166.02	-190.50	0.00	0.00	0.00
6,500.00	6.70	320.43	6,484.44	209.87	-173.45	-199.04	0.00	0.00	0.00
Cherry Canyon									
6,593.52	6.70	320.43	6,577.32	218.29	-180.41	-207.01	0.00	0.00	0.00
6,600.00	6.70	320.43	6,583.75	218.87	-180.89	-207.57	0.00	0.00	0.00
6,700.00	6.70	320.43	6,683.07	227.87	-188.32	-216.10	0.00	0.00	0.00
6,800.00	6.70	320.43	6,782.39	236.86	-195.76	-224.63	0.00	0.00	0.00
6,900.00	6.70	320.43	6,881.70	245.86	-203.20	-233.17	0.00	0.00	0.00
7,000.00	6.70	320.43	6,981.02	254.86	-210.63	-241.70	0.00	0.00	0.00
7,100.00	6.70	320.43	7,080.34	263.86	-218.07	-250.23	0.00	0.00	0.00
7,200.00	6.70	320.43	7,179.65	272.85	-225.50	-258.76	0.00	0.00	0.00
7,300.00	6.70	320.43	7,278.97	281.85	-232.94	-267.30	0.00	0.00	0.00
7,400.00	6.70	320.43	7,378.29	290.85	-240.37	-275.83	0.00	0.00	0.00
7,500.00	6.70	320.43	7,477.60	299.84	-247.81	-284.36	0.00	0.00	0.00
7,600.00	6.70	320.43	7,576.92	308.84	-255.25	-292.89	0.00	0.00	0.00
7,700.00	6.70	320.43	7,676.24	317.84	-262.68	-301.43	0.00	0.00	0.00
Brushy Canyon									
7,770.26	6.70	320.43	7,746.01	324.16	-267.91	-307.42	0.00	0.00	0.00
7,800.00	6.70	320.43	7,775.55	326.84	-270.12	-309.96	0.00	0.00	0.00
7,900.00	6.70	320.43	7,874.87	335.83	-277.55	-318.49	0.00	0.00	0.00
8,000.00	6.70	320.43	7,974.18	344.83	-284.99	-327.03	0.00	0.00	0.00
8,100.00	6.70	320.43	8,073.50	353.83	-292.43	-335.56	0.00	0.00	0.00
Start Drop -2.00									
8,192.74	6.70	320.43	8,165.61	362.17	-299.32	-343.47	0.00	0.00	0.00
8,200.00	6.56	320.43	8,172.82	362.82	-299.86	-344.08	2.00	-2.00	0.00
8,300.00	4.56	320.43	8,272.34	370.28	-306.03	-351.16	2.00	-2.00	0.00
8,400.00	2.56	320.43	8,372.15	375.07	-309.98	-355.70	2.00	-2.00	0.00

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Well: Romeo Federal 1H
Wellbore: Romeo Federal 1H
Design: Design #2

Local Co-ordinate Reference: Well Romeo Federal 1H
TVD Reference: WELL @ 3554.00ft (McVay 10)
MD Reference: WELL @ 3554.00ft (McVay 10)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,500.00	0.56	320.43	8,472.10	377.16	-311.71	-357.69	2.00	-2.00	0.00
Start 2054.08 hold at 8527.90 MD									
8,527.90	0.00	0.00	8,500.00	377.27	-311.80	-357.79	2.00	-2.00	0.00
8,600.00	0.00	0.00	8,572.10	377.27	-311.80	-357.79	0.00	0.00	0.00
8,700.00	0.00	0.00	8,672.10	377.27	-311.80	-357.79	0.00	0.00	0.00
8,800.00	0.00	0.00	8,772.10	377.27	-311.80	-357.79	0.00	0.00	0.00
8,900.00	0.00	0.00	8,872.10	377.27	-311.80	-357.79	0.00	0.00	0.00
9,000.00	0.00	0.00	8,972.10	377.27	-311.80	-357.79	0.00	0.00	0.00
Lower Brushy Canyon Marker									
9,068.26	0.00	0.00	9,040.36	377.27	-311.80	-357.79	0.00	0.00	0.00
9,100.00	0.00	0.00	9,072.10	377.27	-311.80	-357.79	0.00	0.00	0.00
9,200.00	0.00	0.00	9,172.10	377.27	-311.80	-357.79	0.00	0.00	0.00
Bone Spring									
9,208.26	0.00	0.00	9,180.36	377.27	-311.80	-357.79	0.00	0.00	0.00
Avalon Shale Top									
9,258.26	0.00	0.00	9,230.36	377.27	-311.80	-357.79	0.00	0.00	0.00
9,300.00	0.00	0.00	9,272.10	377.27	-311.80	-357.79	0.00	0.00	0.00
9,400.00	0.00	0.00	9,372.10	377.27	-311.80	-357.79	0.00	0.00	0.00
Carbonate									
9,443.26	0.00	0.00	9,415.36	377.27	-311.80	-357.79	0.00	0.00	0.00
9,500.00	0.00	0.00	9,472.10	377.27	-311.80	-357.79	0.00	0.00	0.00
9,600.00	0.00	0.00	9,572.10	377.27	-311.80	-357.79	0.00	0.00	0.00
9,700.00	0.00	0.00	9,672.10	377.27	-311.80	-357.79	0.00	0.00	0.00
9,800.00	0.00	0.00	9,772.10	377.27	-311.80	-357.79	0.00	0.00	0.00
9,900.00	0.00	0.00	9,872.10	377.27	-311.80	-357.79	0.00	0.00	0.00
10,000.00	0.00	0.00	9,972.10	377.27	-311.80	-357.79	0.00	0.00	0.00
10,100.00	0.00	0.00	10,072.10	377.27	-311.80	-357.79	0.00	0.00	0.00
10,200.00	0.00	0.00	10,172.10	377.27	-311.80	-357.79	0.00	0.00	0.00
1st Bone Spring Sand									
10,258.26	0.00	0.00	10,230.36	377.27	-311.80	-357.79	0.00	0.00	0.00
10,300.00	0.00	0.00	10,272.10	377.27	-311.80	-357.79	0.00	0.00	0.00
10,400.00	0.00	0.00	10,372.10	377.27	-311.80	-357.79	0.00	0.00	0.00
Carbonate									
10,483.26	0.00	0.00	10,455.36	377.27	-311.80	-357.79	0.00	0.00	0.00
10,500.00	0.00	0.00	10,472.10	377.27	-311.80	-357.79	0.00	0.00	0.00
Start DLS 10.00 TFO 179.57									
10,581.98	0.00	0.00	10,554.08	377.27	-311.80	-357.79	0.00	0.00	0.00
10,600.00	1.80	179.57	10,572.10	376.98	-311.80	-357.50	10.00	10.00	0.00
10,700.00	11.80	179.57	10,671.27	365.15	-311.71	-345.70	10.00	10.00	0.00
10,800.00	21.80	179.57	10,766.88	336.29	-311.49	-316.90	10.00	10.00	0.00
2nd Bone Spring Sand									
10,871.27	28.93	179.57	10,831.24	305.77	-311.26	-286.46	10.00	10.00	0.00
10,900.00	31.80	179.57	10,856.02	291.25	-311.15	-271.97	10.00	10.00	0.00
11,000.00	41.80	179.57	10,935.99	231.42	-310.70	-212.28	10.00	10.00	0.00
11,100.00	51.80	179.57	11,004.36	158.62	-310.15	-139.64	10.00	10.00	0.00
11,200.00	61.80	179.57	11,059.04	75.05	-309.52	-56.26	10.00	10.00	0.00
Horizontal Interval Top									
11,234.53	65.26	179.57	11,074.43	44.14	-309.28	-25.42	10.00	10.00	0.00
11,300.00	71.80	179.57	11,098.38	-16.75	-308.82	35.33	10.00	10.00	0.00
11,400.00	81.80	179.57	11,121.18	-113.98	-308.09	132.34	10.00	10.00	0.00
Start 4359.80 hold at 11475.01 MD									
11,475.01	89.30	179.57	11,127.00	-188.71	-307.53	206.90	10.00	10.00	0.00
11,500.00	89.30	179.57	11,127.30	-213.69	-307.34	231.83	0.00	0.00	0.00

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Design: Design #2

Local Co-ordinate Reference: Well Romeo Federal 1H
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MD Reference: WELL @ 3554.00ft (McVay 10)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,600.00	89.30	179.57	11,128.52	-313.68	-306.58	331.59	0.00	0.00	0.00
11,700.00	89.30	179.57	11,129.73	-413.67	-305.83	431.36	0.00	0.00	0.00
11,800.00	89.30	179.57	11,130.95	-513.66	-305.08	531.12	0.00	0.00	0.00
11,900.00	89.30	179.57	11,132.16	-613.65	-304.32	630.88	0.00	0.00	0.00
12,000.00	89.30	179.57	11,133.38	-713.64	-303.57	730.64	0.00	0.00	0.00
12,100.00	89.30	179.57	11,134.60	-813.63	-302.81	830.41	0.00	0.00	0.00
12,200.00	89.30	179.57	11,135.81	-913.62	-302.06	930.17	0.00	0.00	0.00
12,300.00	89.30	179.57	11,137.03	-1,013.61	-301.30	1,029.93	0.00	0.00	0.00
12,400.00	89.30	179.57	11,138.24	-1,113.60	-300.55	1,129.69	0.00	0.00	0.00
12,500.00	89.30	179.57	11,139.46	-1,213.59	-299.79	1,229.46	0.00	0.00	0.00
12,600.00	89.30	179.57	11,140.67	-1,313.58	-299.04	1,329.22	0.00	0.00	0.00
12,700.00	89.30	179.57	11,141.89	-1,413.57	-298.29	1,428.98	0.00	0.00	0.00
12,800.00	89.30	179.57	11,143.11	-1,513.56	-297.53	1,528.74	0.00	0.00	0.00
12,900.00	89.30	179.57	11,144.32	-1,613.55	-296.78	1,628.51	0.00	0.00	0.00
13,000.00	89.30	179.57	11,145.54	-1,713.54	-296.02	1,728.27	0.00	0.00	0.00
13,100.00	89.30	179.57	11,146.75	-1,813.53	-295.27	1,828.03	0.00	0.00	0.00
13,200.00	89.30	179.57	11,147.97	-1,913.52	-294.51	1,927.79	0.00	0.00	0.00
13,300.00	89.30	179.57	11,149.18	-2,013.51	-293.76	2,027.56	0.00	0.00	0.00
13,400.00	89.30	179.57	11,150.40	-2,113.50	-293.01	2,127.32	0.00	0.00	0.00
13,500.00	89.30	179.57	11,151.62	-2,213.49	-292.25	2,227.08	0.00	0.00	0.00
13,600.00	89.30	179.57	11,152.83	-2,313.48	-291.50	2,326.84	0.00	0.00	0.00
13,700.00	89.30	179.57	11,154.05	-2,413.47	-290.74	2,426.61	0.00	0.00	0.00
13,800.00	89.30	179.57	11,155.26	-2,513.46	-289.99	2,526.37	0.00	0.00	0.00
13,900.00	89.30	179.57	11,156.48	-2,613.45	-289.23	2,626.13	0.00	0.00	0.00
14,000.00	89.30	179.57	11,157.69	-2,713.44	-288.48	2,725.89	0.00	0.00	0.00
14,100.00	89.30	179.57	11,158.91	-2,813.43	-287.72	2,825.66	0.00	0.00	0.00
14,200.00	89.30	179.57	11,160.13	-2,913.42	-286.97	2,925.42	0.00	0.00	0.00
14,300.00	89.30	179.57	11,161.34	-3,013.41	-286.22	3,025.18	0.00	0.00	0.00
14,400.00	89.30	179.57	11,162.56	-3,113.40	-285.46	3,124.94	0.00	0.00	0.00
14,500.00	89.30	179.57	11,163.77	-3,213.39	-284.71	3,224.71	0.00	0.00	0.00
14,600.00	89.30	179.57	11,164.99	-3,313.38	-283.95	3,324.47	0.00	0.00	0.00
14,700.00	89.30	179.57	11,166.20	-3,413.37	-283.20	3,424.23	0.00	0.00	0.00
14,800.00	89.30	179.57	11,167.42	-3,513.36	-282.44	3,523.99	0.00	0.00	0.00
14,900.00	89.30	179.57	11,168.64	-3,613.35	-281.69	3,623.76	0.00	0.00	0.00
15,000.00	89.30	179.57	11,169.85	-3,713.34	-280.93	3,723.52	0.00	0.00	0.00
15,100.00	89.30	179.57	11,171.07	-3,813.33	-280.18	3,823.28	0.00	0.00	0.00
15,200.00	89.30	179.57	11,172.28	-3,913.32	-279.43	3,923.04	0.00	0.00	0.00
15,300.00	89.30	179.57	11,173.50	-4,013.31	-278.67	4,022.81	0.00	0.00	0.00
15,400.00	89.30	179.57	11,174.71	-4,113.30	-277.92	4,122.57	0.00	0.00	0.00
15,500.00	89.30	179.57	11,175.93	-4,213.29	-277.16	4,222.33	0.00	0.00	0.00
15,600.00	89.30	179.57	11,177.15	-4,313.27	-276.41	4,322.09	0.00	0.00	0.00
15,700.00	89.30	179.57	11,178.36	-4,413.26	-275.65	4,421.86	0.00	0.00	0.00
15,800.00	89.30	179.57	11,179.58	-4,513.25	-274.90	4,521.62	0.00	0.00	0.00
TD at 15834.81									
15,834.81	89.30	179.57	11,180.00	-4,548.06	-274.64	4,556.34	0.00	0.00	0.00

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Survey Calculation Method: Minimum Curvature

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
VP Romeo Federal 1H F - plan hits target center - Point	0.00	0.00	8,500.00	377.27	-311.80	441,302.00	809,827.34	32° 12' 36.848 N	103° 27' 54.833 W
LP Romeo Federal 1H F - plan hits target center - Point	0.00	0.00	11,127.00	-188.71	-307.53	440,736.02	809,831.61	32° 12' 31.247 N	103° 27' 54.837 W
PBHL Romeo Federal 1I - plan hits target center - Point	0.00	0.00	11,180.00	-4,548.06	-274.64	436,376.68	809,864.50	32° 11' 48.109 N	103° 27' 54.864 W

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,195.00	1,195.00	Rustler		0.70	179.57
1,295.00	1,295.00	Salt Top		0.70	179.57
3,015.00	3,015.00	Salt Base		0.70	179.57
3,050.00	3,050.00	Lamar Limestone		0.70	179.57
5,356.43	5,350.00	Delaware Mountain Group		0.70	179.57
5,381.57	5,375.00	Delaware Bell Canyon		0.70	179.57
6,593.52	6,580.00	Cherry Canyon		0.70	179.57
7,770.26	7,750.00	Brushy Canyon		0.70	179.57
9,068.26	9,045.00	Lower Brushy Canyon Marker		0.70	179.57
9,208.26	9,185.00	Bone Spring		0.70	179.57
9,258.26	9,235.00	Avalon Shale Top		0.70	179.57
9,443.26	9,420.00	Carbonate		0.70	179.57
10,258.26	10,235.00	1st Bone Spring Sand		0.70	179.57
10,483.26	10,460.00	Carbonate		0.70	179.57
10,871.27	10,835.00	2nd Bone Spring Sand		0.70	179.57
11,234.53	11,075.00	Horizontal Interval Top		0.70	179.57

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
4,000.00	4,000.00	0.00	0.00	Start Build 2.00
4,335.15	4,334.39	15.09	-12.48	Start 3857.59 hold at 4335.15 MD
8,192.74	8,165.61	362.17	-299.32	Start Drop -2.00
8,527.90	8,500.00	377.27	-311.80	Start 2054.08 hold at 8527.90 MD
10,581.98	10,554.08	377.27	-311.80	Start DLS 10.00 TFO 179.57
11,475.01	11,127.00	-188.71	-307.53	Start 4359.80 hold at 11475.01 MD
15,834.81	11,180.00	-4,548.06	-274.64	TD at 15834.81