

5D Plan Report

GMT Exploration Co., LLC

Field Name: *Lea Co., New Mexico (NAD 83 NME)*

Site Name: *Romeo Fed Com #1H*

Well Name: *Romeo Fed Com #1H*

Plan: *P1:V2*

25 September 2015



Romeo Fed Com #1H
Lea Co, NM



Plan Data for Romeo Fed Com #1H

Plan Point Information:									
Dogleg Severity Unit: °/100.00ft Position offsets from Slot centre									
MD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DLS
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)
0.00	0.00	0.00	0.00	0.00	0.00	440924.50	810139.50	0.00	0.00
10583.09	0.00	0.00	10583.09	0.00	0.00	440924.50	810139.50	0.00	0.00
11475.32	89.22	179.57	11156.00	-565.17	4.26	440359.33	810143.76	565.19	10.00
15456.23	89.22	179.57	11210.00	-4545.60	34.30	436378.90	810173.80	4545.73	0.00

Plan Data for Romeo Fed Com #1H

Slot: Romeo Fed Com #1H
Position:
Offset is from Site centre
+N/-S: 0.00USft Northing: 440924.50USft Latitude: 32°12'33.1"
+E/-W: 0.00USft Easting: 810139.50USft Longitude: -103°27'51.2"
Elevation Above VRD: 3534.00USft

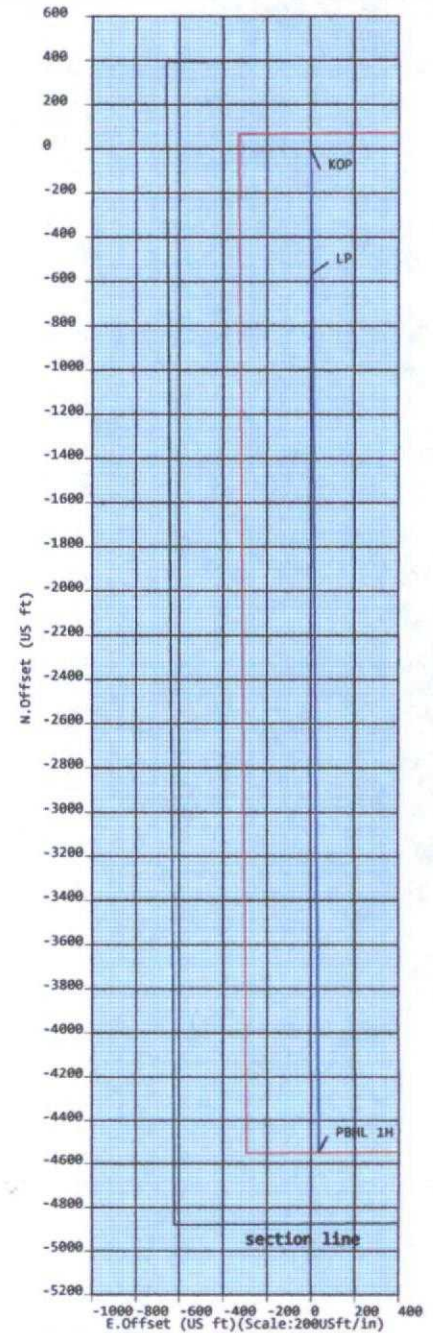
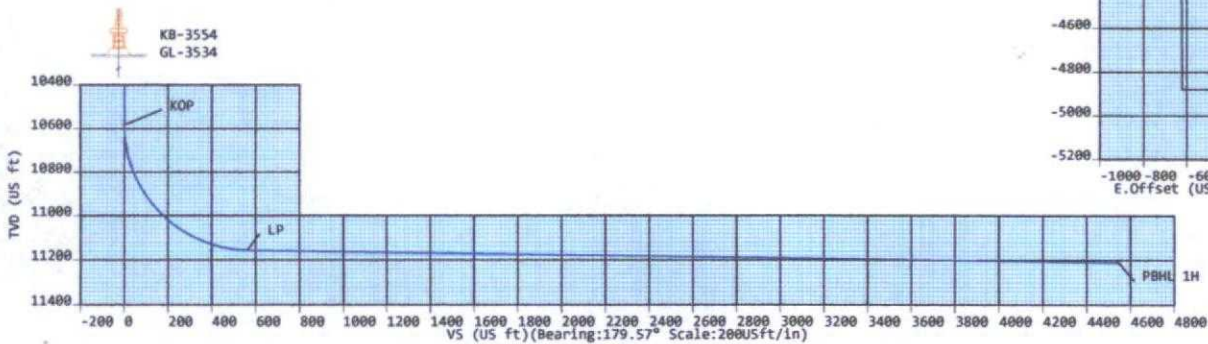
Plan Data for Romeo Fed Com #1H

Target Set Information:
Name: Romeo Fed Com #1H
Position offsets from Slot centre
Name TVD +N/-S +E/-W Northing Easting Shape Comment
(USft) (USft) (USft) (USft) (USft)
PBHL 11210.00 -4545.60 34.30 436378.90 810173.80 Cuboid

Plan Data for Romeo Fed Com #1H

Well: Romeo Fed Com #1H
Type: Main-Well
File Number:
Plan Folder: P1 Plan: P1:V2
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft Azimuth: 179.57°
+E/-W: 0.00USft
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
bggm2015 48202(nT) 7.16° 60.14° 2015-12-01

Romeo Fed Com #1H



Sign Off: Russell Joyner


Weatherford

Romeo Fed Com #1H

Field Name: Lea Co., New Mexico (NAD 83 NME)	Map Units: US ft		Company Name: GMT Exploration Co., LLC	
	Vertical Reference Datum (VRD): Mean Sea Level			
	Projected Coordinate System: NAD83 / New Mexico East (ftUS)			
	Comment:			
Site: Romeo Fed Com #1H	Units: US ft	North Reference: Grid	Convergence Angle: 0.46	
	Position:	Northing: 440924.50US ft	Latitude: 32° 12' 33.09"	
		Easting: 810139.50US ft	Longitude: -103° 27' 51.24"	
	Elevation above MSL:3534.00 US ft			
Comment:				
Slot: Romeo Fed Com #1H	Position (Relative to Site Centre)			
	+N/-S: 0.00US ft	Northing: 440924.50US ft	Latitude: 32°12'33.09"	
	+E/-W: 0.00US ft	Easting: 810139.50US ft	Longitude: -103°27'51.24"	
	Slot TVD Reference: Ground Elevation			
Elevation above MSL: 3534.00US ft				
Comment:				
Well: Romeo Fed Com #1H	Type:Main well	UWI:	Plan:P1:V2	
	File Number:	Comment:		
	Closure Distance:4545.73US ft	Closure Azimuth:179.57°		
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00US ft	+E/-W: 0.00US ft	Az: 179.57°	
	Magnetic Parameters:			
	Model: bggm2015	Field Strength: 48202.4nT	Declination: 7.16°	Dip: 60.14°

Drill floor: Plan: P1:V2

Rig Height (Kelly Bushing): Elevation above MSL:	Inclination: 0.00°	Azimuth: 0.00°
20.00us ft	3554.00us ft	

Target set: Romeo Fed Com #1H Comment:

Target Name:	Shape:	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (USft)	Easting (USft)	Comment
PBHL	Cuboid	11210.00	-4545.60	34.30	436378.90	810173.80	

Wellpath created using minimum curvature.
Tie Point:

MD: 0.00USft	Inclination: 0.00°	Azimuth: 0.00°	TVD: 0.00USft	North Offset: 0.00USft	East Offset: 0.00USft
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Salient Points: (Relative to Slot centre)(TVD relative to Kelly Bushing)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100US ft)	B.Rate (°/100US ft)	T.Rate (°/100US ft)	T.Face (°)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	-0.00	0.00	0.00	0.00	0.00	

5D Plan Report

Salient Points: (Relative to Slot centre)(TVD relative to Kelly Bushing)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (%/100US ft)	B.Rate (%/100US ft)	T.Rate (%/100US ft)	T.Face (°)	Comment
10583.09	0.00	0.00	10583.09	0.00	0.00	-0.00	0.00	0.00	0.00	0.00	KOP
11475.32	89.22	179.57	11156.00	-565.17	4.26	565.19	10.00	10.00	0.00	179.57	LP
15456.23	89.22	179.57	11210.00	-4545.60	34.30	4545.73	0.00	0.00	0.00	0.00	PBHL 1H

Interpolated Points: (Relative to Slot centre)(TVD relative to Kelly Bushing)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (%/100US ft)	Northing (US ft)	Easting (US ft)	Comment
10500.00	0.00	0.00	10500.00	0.00	0.00	-0.00	0.00	440924.50	810139.50	KOP
10583.09	0.00	0.00	10583.09	0.00	0.00	-0.00	0.00	440924.50	810139.50	
10600.00	1.69	179.57	10600.00	-0.25	0.00	0.25	10.00	440924.25	810139.50	
10700.00	11.69	179.57	10699.19	-11.89	0.09	11.89	10.00	440912.61	810139.59	LP
10800.00	21.69	179.57	10794.86	-40.57	0.31	40.57	10.00	440883.93	810139.81	
10900.00	31.69	179.57	10884.09	-85.43	0.64	85.43	10.00	440839.07	810140.14	
11000.00	41.69	179.57	10964.17	-145.10	1.09	145.11	10.00	440779.40	810140.59	
11100.00	51.69	179.57	11032.68	-217.77	1.64	217.78	10.00	440706.73	810141.14	
11200.00	61.69	179.57	11087.52	-301.24	2.27	301.25	10.00	440623.26	810141.77	
11300.00	71.69	179.57	11127.04	-392.96	2.97	392.97	10.00	440531.54	810142.47	
11400.00	81.69	179.57	11150.03	-490.14	3.70	490.16	10.00	440434.36	810143.20	
11475.32	89.22	179.57	11156.00	-565.17	4.26	565.19	10.00	440359.33	810143.76	
11500.00	89.22	179.57	11156.33	-589.85	4.45	589.87	0.00	440334.65	810143.95	
11600.00	89.22	179.57	11157.69	-689.84	5.21	689.86	0.00	440234.66	810144.71	
11700.00	89.22	179.57	11159.04	-789.82	5.96	789.85	0.00	440134.68	810145.46	
11800.00	89.22	179.57	11160.40	-889.81	6.71	889.84	0.00	440034.69	810146.21	
11900.00	89.22	179.57	11161.76	-989.80	7.47	989.83	0.00	439934.70	810146.97	
12000.00	89.22	179.57	11163.11	-1089.79	8.22	1089.82	0.00	439834.71	810147.72	
12100.00	89.22	179.57	11164.47	-1189.78	8.98	1189.81	0.00	439734.72	810148.48	
12200.00	89.22	179.57	11165.83	-1289.76	9.73	1289.80	0.00	439634.74	810149.23	
12300.00	89.22	179.57	11167.18	-1389.75	10.49	1389.79	0.00	439534.75	810149.99	
12400.00	89.22	179.57	11168.54	-1489.74	11.24	1489.78	0.00	439434.76	810150.74	
12500.00	89.22	179.57	11169.90	-1589.73	12.00	1589.77	0.00	439334.77	810151.50	
12600.00	89.22	179.57	11171.25	-1689.72	12.75	1689.76	0.00	439234.78	810152.25	
12700.00	89.22	179.57	11172.61	-1789.70	13.50	1789.76	0.00	439134.80	810153.00	
12800.00	89.22	179.57	11173.97	-1889.69	14.26	1889.75	0.00	439034.81	810153.76	
12900.00	89.22	179.57	11175.32	-1989.68	15.01	1989.74	0.00	438934.82	810154.51	
13000.00	89.22	179.57	11176.68	-2089.67	15.77	2089.73	0.00	438834.83	810155.27	
13100.00	89.22	179.57	11178.04	-2189.66	16.52	2189.72	0.00	438734.84	810156.02	
13200.00	89.22	179.57	11179.39	-2289.64	17.28	2289.71	0.00	438634.86	810156.78	
13300.00	89.22	179.57	11180.75	-2389.63	18.03	2389.70	0.00	438534.87	810157.53	
13400.00	89.22	179.57	11182.11	-2489.62	18.79	2489.69	0.00	438434.88	810158.29	
13500.00	89.22	179.57	11183.46	-2589.61	19.54	2589.68	0.00	438334.89	810159.04	
13600.00	89.22	179.57	11184.82	-2689.60	20.30	2689.67	0.00	438234.90	810159.80	
13700.00	89.22	179.57	11186.18	-2789.58	21.05	2789.66	0.00	438134.92	810160.55	
13800.00	89.22	179.57	11187.53	-2889.57	21.80	2889.65	0.00	438034.93	810161.30	
13900.00	89.22	179.57	11188.89	-2989.56	22.56	2989.64	0.00	437934.94	810162.06	
14000.00	89.22	179.57	11190.24	-3089.55	23.31	3089.64	0.00	437834.95	810162.81	
14100.00	89.22	179.57	11191.60	-3189.54	24.07	3189.63	0.00	437734.96	810163.57	
14200.00	89.22	179.57	11192.96	-3289.52	24.82	3289.62	0.00	437634.98	810164.32	
14300.00	89.22	179.57	11194.31	-3389.51	25.58	3389.61	0.00	437534.99	810165.08	
14400.00	89.22	179.57	11195.67	-3489.50	26.33	3489.60	0.00	437435.00	810165.83	
14500.00	89.22	179.57	11197.03	-3589.49	27.09	3589.59	0.00	437335.01	810166.59	
14600.00	89.22	179.57	11198.38	-3689.48	27.84	3689.58	0.00	437235.02	810167.34	
14700.00	89.22	179.57	11199.74	-3789.46	28.59	3789.57	0.00	437135.04	810168.09	
14800.00	89.22	179.57	11201.10	-3889.45	29.35	3889.56	0.00	437035.05	810168.85	
14900.00	89.22	179.57	11202.45	-3989.44	30.10	3989.55	0.00	436935.06	810169.60	
15000.00	89.22	179.57	11203.81	-4089.43	30.86	4089.54	0.00	436835.07	810170.36	
15100.00	89.22	179.57	11205.17	-4189.42	31.61	4189.53	0.00	436735.08	810171.11	
15200.00	89.22	179.57	11206.52	-4289.40	32.37	4289.53	0.00	436635.10	810171.87	
15300.00	89.22	179.57	11207.88	-4389.39	33.12	4389.52	0.00	436535.11	810172.62	
15400.00	89.22	179.57	11209.24	-4489.38	33.88	4489.51	0.00	436435.12	810173.38	

5D Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Kelly Bushing)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
15456.23	89.22	179.57	11210.00	-4545.60	34.30	4545.73	0.00	436378.90	810173.80	PBHL 1H

**Weatherford**

Weatherford Drilling Services

GeoDec4 v2.1.0.0

Report Date: September 25, 2015
Job Number: _____
Customer: GMT Exploration
Well Name: Romeo Federal Com 1H
API Number: _____
Rig Name: _____
Location: Lea Co, New Mexico (Nad 83 NME)
Block: _____
Engineer: Patrick Rudolph

NAD83 / New Mexico East (ftUS)	NAD83 (1986)
Projected Coordinate System	Geodetic Coordinate System
Datum: North American Datum 1983 (1986)	Datum: North American Datum 1983 (1986)
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
EPSG: 2257	EPSG: 4269
North: 440924.5 US Survey Foot	Latitude: 32.209191 Degree
East: 810139.5 US Survey Foot	Longitude: -103.464232 Degree
Convergence: 0.46°	
Declination: 7.16°	
Total Correction: 6.70°	
Datum Transformation: none	

Geodetic Location WGS84

MSL Elevation = 0 m
Latitude = 32° 12' 33.09" N
Longitude = 103° 27' 51.24" W

Magnetic Declination = 7.16 deg	[True North Offset]
Local Gravity = .9988 g	Checksum = 6504
Local Field Strength = 48202 nT	Magnetic Vector X = 23809 nT
Magnetic Dip = 60.14 deg	Magnetic Vector Y = 2989 nT
Magnetic Model = bggm2015.dat	Magnetic Vector Z = 41805 nT
Run Date = December 01, 2015	Magnetic Vector H = 23996 nT

Signed: _____ Date: _____

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