

## **Fram Exploration (II)**

**Mesa Co., CO (NAD83)**

**Sec.33-T12S-R97W**

**Mansur 33-1-N (New SL)**

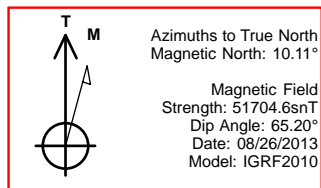
**Mansur 33-1 N STK1**

**Plan: STK1 Plan #1 26 Aug13 RG**

## **Standard Planning Report**

**26 August, 2013**





Project: Mesa Co., CO (NAD83)  
Site: Sec.33-T12S-R97W  
Well: Mansur 33-1-N (New SL)  
Wellbore: Mansur 33-1 N STK1  
Design: STK1 Plan #1 26 Aug13 RG  
Long: -108.242239  
Lat: 38.964275  
GL: 6083.00  
KB: RKB:20' @ 6103.00ft

PROJECT DETAILS: Mesa Co., CO (NAD83)  
Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Colorado Central Zone  
System Datum: Mean Sea Level

#### WELL DETAILS: Mansur 33-1-N (New SL)

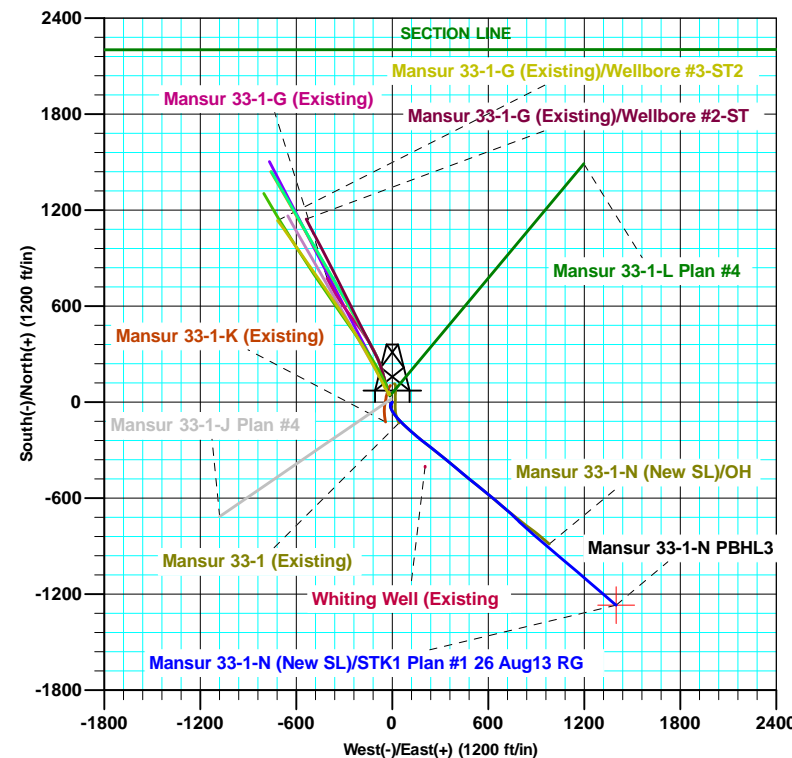
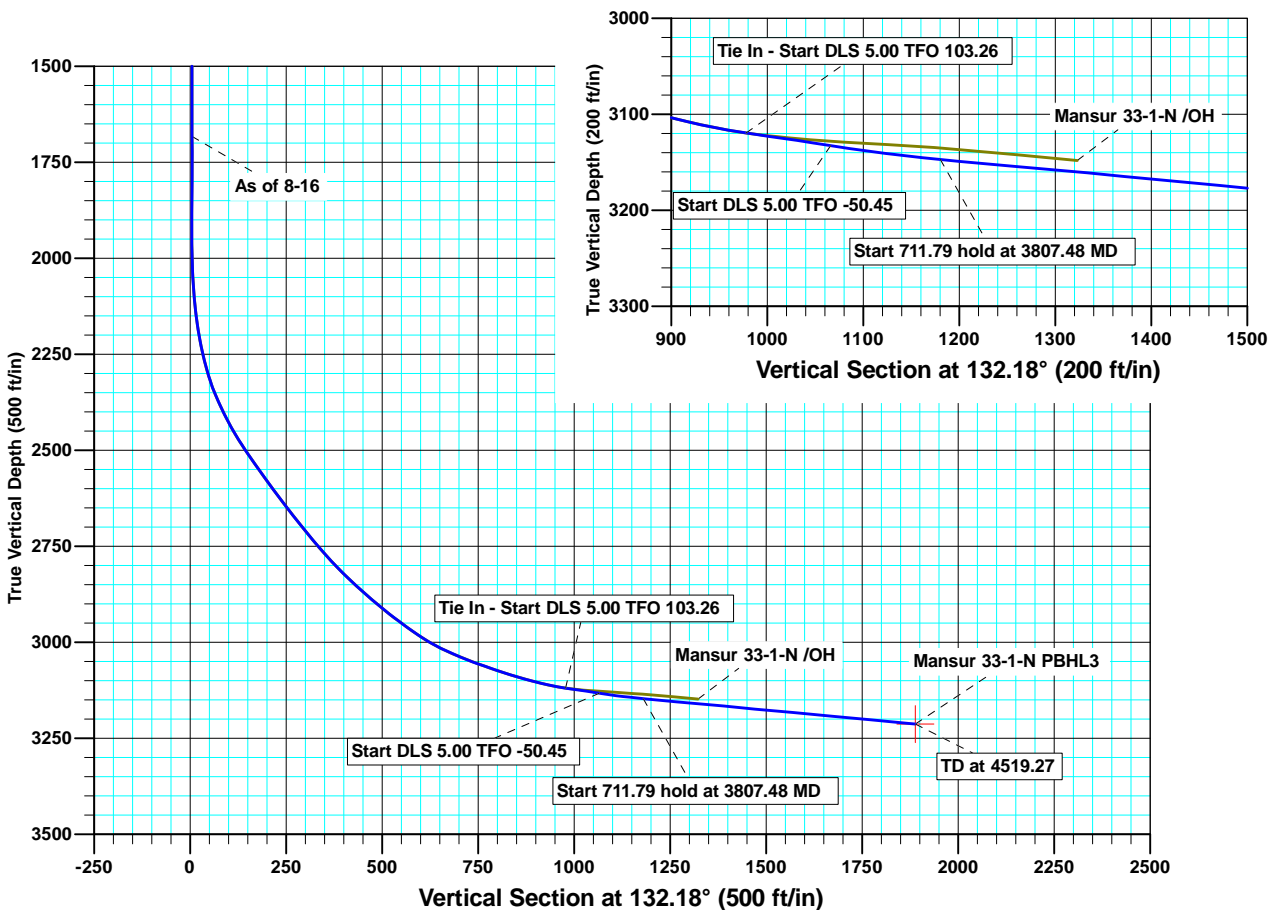
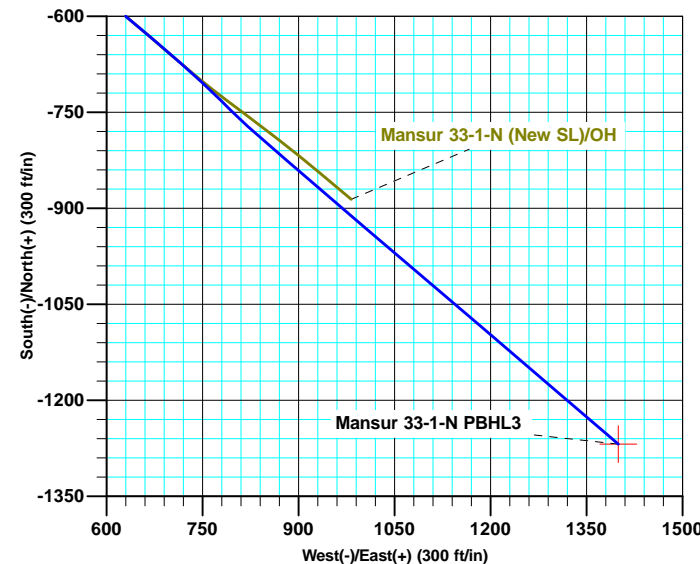
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1423650.76	2220411.48	38.964275	-108.242239	

#### DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Mansur 33-1-N PBHL3	3213.00	-1268.26	1399.64	1422340.84	2221772.20	38.960792	-108.237317	Point

#### SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
3603.00	82.00	130.60	3119.58	-670.01	712.40	0.00	0.00	977.80	Tie In - Start DLS 5.00 TFO 103.26
3692.30	81.00	135.00	3132.78	-730.00	777.19	5.00	103.26	1066.09	Start DLS 5.00 TFO -50.45
3807.48	84.69	130.54	3147.13	-807.56	861.05	5.00	-50.45	1180.32	Start 711.79 hold at 3807.48 MD
4519.27	84.69	130.54	3213.00	-1268.26	1399.64	0.00	0.00	1888.77	TD at 4519.27



Plan: STK1 Plan #1 26 Aug13 RG (Mansur 33-1-N (New SL)/Mansur 33-1 N STK1)

Created By: Rolando Garza Date: 21:40, August 26 2013

<b>Database:</b>	CompassVM	<b>Local Co-ordinate Reference:</b>	Well Mansur 33-1-N (New SL)
<b>Company:</b>	Fram Exploration (II)	<b>TVD Reference:</b>	RKB:20' @ 6103.00ft
<b>Project:</b>	Mesa Co., CO (NAD83)	<b>MD Reference:</b>	RKB:20' @ 6103.00ft
<b>Site:</b>	Sec.33-T12S-R97W	<b>North Reference:</b>	True
<b>Well:</b>	Mansur 33-1-N (New SL)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Mansur 33-1 N STK1		
<b>Design:</b>	STK1 Plan #1 26 Aug13 RG		

Project	Mesa Co., CO (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site		Sec.33-T12S-R97W			
Site Position:		Northing:		1,423,710.81 usft	
From:		Easting:		2,220,392.91 usft	
Position Uncertainty:		Slot Radius:		Grid Convergence:	
Lat/Long		0.00 ft		1.10 ft	
				-108.242311	
				-1.73 °	

Well	Mansur 33-1-N (New SL)					
Well Position	+N/-S	-59.46 ft	Northing:	1,423,650.77 usft	Latitude:	38.964275
	+E/-W	20.37 ft	Easting:	2,220,411.48 usft	Longitude:	-108.242239
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	6,083.00 ft

Wellbore		Mansur 33-1 N STK1			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	08/26/13	10.11	65.20	51,705

Design	STK1 Plan #1 26 Aug13 RG			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	3,603.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	132.18

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
3,603.00	82.00	130.60	3,119.58	-670.01	712.40	0.00	0.00	0.00	0.00	
3,692.30	81.00	135.00	3,132.78	-730.00	777.19	5.00	-1.12	4.93	103.26	
3,807.48	84.69	130.54	3,147.13	-807.56	861.05	5.00	3.20	-3.87	-50.45	
4,519.27	84.69	130.54	3,213.00	-1,268.26	1,399.64	0.00	0.00	0.00	0.00	Mansur 33-1-N PBHL

<b>Database:</b>	CompassVM	<b>Local Co-ordinate Reference:</b>	Well Mansur 33-1-N (New SL)
<b>Company:</b>	Fram Exploration (II)	<b>TVD Reference:</b>	RKB:20' @ 6103.00ft
<b>Project:</b>	Mesa Co., CO (NAD83)	<b>MD Reference:</b>	RKB:20' @ 6103.00ft
<b>Site:</b>	Sec.33-T12S-R97W	<b>North Reference:</b>	True
<b>Well:</b>	Mansur 33-1-N (New SL)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Mansur 33-1 N STK1		
<b>Design:</b>	STK1 Plan #1 26 Aug13 RG		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.17	68.80	100.00	0.05	0.14	0.07	0.17	0.17	0.00
200.00	0.50	225.14	200.00	-0.20	-0.03	0.11	0.66	0.33	156.34
300.00	0.94	195.85	299.99	-1.30	-0.57	0.45	0.56	0.44	-29.29
400.00	1.06	188.79	399.98	-3.00	-0.93	1.32	0.17	0.12	-7.06
440.00	0.82	172.25	439.97	-3.65	-0.95	1.75	0.90	-0.60	-41.35
532.00	0.90	226.20	531.96	-4.80	-1.38	2.20	0.85	0.09	58.64
563.00	1.00	242.30	562.96	-5.10	-1.80	2.09	0.92	0.32	51.94
632.00	1.10	246.70	631.95	-5.64	-2.94	1.61	0.19	0.14	6.38
685.00	1.10	247.40	684.94	-6.04	-3.88	1.18	0.03	0.00	1.32
745.00	1.10	243.30	744.92	-6.52	-4.92	0.73	0.13	0.00	-6.83
806.00	1.20	247.00	805.91	-7.03	-6.03	0.25	0.20	0.16	6.07
868.00	1.30	245.70	867.90	-7.57	-7.27	-0.30	0.17	0.16	-2.10
930.00	1.50	243.10	929.88	-8.23	-8.64	-0.88	0.34	0.32	-4.19
992.00	1.50	108.20	991.87	-8.85	-8.59	-0.42	4.47	0.00	-217.58
1,054.00	2.30	101.10	1,053.84	-9.34	-6.60	1.38	1.34	1.29	-11.45
1,117.00	1.20	103.10	1,116.81	-9.73	-4.71	3.04	1.75	-1.75	3.17
1,179.00	0.20	121.80	1,178.80	-9.94	-3.99	3.72	1.63	-1.61	30.16
1,242.00	0.20	156.30	1,241.80	-10.10	-3.85	3.93	0.19	0.00	54.76
1,305.00	0.20	163.80	1,304.80	-10.30	-3.78	4.12	0.04	0.00	11.90
1,368.00	0.10	172.10	1,367.80	-10.46	-3.74	4.26	0.16	-0.16	13.17
1,431.00	0.40	190.90	1,430.80	-10.73	-3.77	4.41	0.49	0.48	29.84
1,494.00	0.80	214.90	1,493.79	-11.31	-4.07	4.58	0.74	0.63	38.10
1,557.00	0.90	223.00	1,556.79	-12.03	-4.66	4.63	0.25	0.16	12.86
1,620.00	0.80	221.20	1,619.78	-12.73	-5.28	4.63	0.16	-0.16	-2.86
1,683.00	1.10	215.10	1,682.77	-13.55	-5.92	4.71	0.50	0.48	-9.68
1,746.00	1.30	233.30	1,745.76	-14.47	-6.84	4.65	0.68	0.32	28.89
1,809.00	1.30	228.80	1,808.74	-15.37	-7.95	4.43	0.16	0.00	-7.14
1,872.00	1.70	223.50	1,871.72	-16.52	-9.13	4.33	0.67	0.63	-8.41
1,935.00	1.80	219.80	1,934.69	-17.96	-10.41	4.34	0.24	0.16	-5.87
1,966.00	2.10	206.60	1,965.67	-18.84	-10.97	4.52	1.74	0.97	-42.58
1,998.00	2.80	192.80	1,997.64	-20.13	-11.41	5.06	2.85	2.19	-43.13
2,029.00	3.80	182.70	2,028.59	-21.89	-11.63	6.08	3.72	3.23	-32.58
2,061.00	4.80	175.30	2,060.50	-24.28	-11.57	7.73	3.57	3.13	-23.13
2,092.00	5.90	168.00	2,091.37	-27.14	-11.13	9.97	4.17	3.55	-23.55
2,124.00	6.80	160.10	2,123.17	-30.53	-10.14	12.98	3.91	2.81	-24.69
2,155.00	8.00	159.20	2,153.91	-34.27	-8.75	16.52	3.89	3.87	-2.90
2,186.00	9.50	158.90	2,184.55	-38.67	-7.06	20.73	4.84	4.84	-0.97
2,218.00	11.30	155.90	2,216.02	-44.00	-4.83	25.96	5.87	5.63	-9.38
2,249.00	13.40	153.30	2,246.31	-49.98	-1.98	32.09	7.01	6.77	-8.39
2,281.00	15.60	149.40	2,277.28	-57.00	1.88	39.66	7.52	6.88	-12.19
2,312.00	18.30	147.30	2,306.94	-64.68	6.63	48.34	8.93	8.71	-6.77
2,343.00	21.10	145.10	2,336.12	-73.36	12.45	58.48	9.34	9.03	-7.10
2,375.00	23.30	141.80	2,365.75	-83.05	19.66	70.34	7.90	6.88	-10.31
2,406.00	26.10	139.50	2,393.91	-93.06	27.89	83.15	9.55	9.03	-7.42
2,438.00	27.80	138.70	2,422.43	-104.02	37.38	97.55	5.43	5.31	-2.50
2,469.00	30.00	137.30	2,449.57	-115.15	47.41	112.45	7.42	7.10	-4.52
2,501.00	32.30	135.20	2,476.95	-127.10	58.86	128.96	7.95	7.19	-6.56
2,532.00	34.20	133.60	2,502.88	-138.98	71.01	145.94	6.75	6.13	-5.16
2,564.00	35.00	132.20	2,529.22	-151.35	84.32	164.11	3.52	2.50	-4.38
2,595.00	35.40	131.80	2,554.55	-163.31	97.60	181.98	1.49	1.29	-1.29
2,627.00	36.10	131.30	2,580.52	-175.71	111.59	200.67	2.37	2.19	-1.56
2,658.00	36.20	131.00	2,605.55	-187.74	125.36	218.96	0.66	0.32	-0.97
2,690.00	37.30	130.90	2,631.19	-200.29	139.82	238.10	3.44	3.44	-0.31

<b>Database:</b>	CompassVM	<b>Local Co-ordinate Reference:</b>	Well Mansur 33-1-N (New SL)
<b>Company:</b>	Fram Exploration (II)	<b>TVD Reference:</b>	RKB:20' @ 6103.00ft
<b>Project:</b>	Mesa Co., CO (NAD83)	<b>MD Reference:</b>	RKB:20' @ 6103.00ft
<b>Site:</b>	Sec.33-T12S-R97W	<b>North Reference:</b>	True
<b>Well:</b>	Mansur 33-1-N (New SL)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Mansur 33-1 N STK1		
<b>Design:</b>	STK1 Plan #1 26 Aug13 RG		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
2,721.00	37.70	131.10	2,655.79	-212.67	154.07	256.97	1.35	1.29	0.65
2,753.00	38.40	129.90	2,680.99	-225.48	169.06	276.68	3.18	2.19	-3.75
2,784.00	39.30	128.40	2,705.13	-237.75	184.14	296.10	4.20	2.90	-4.84
2,816.00	39.50	127.80	2,729.86	-250.28	200.13	316.36	1.34	0.63	-1.88
2,847.00	40.90	127.60	2,753.53	-262.52	215.96	336.31	4.54	4.52	-0.65
2,879.00	42.10	127.60	2,777.50	-275.45	232.76	357.44	3.75	3.75	0.00
2,910.00	43.90	128.20	2,800.17	-288.44	249.44	378.52	5.95	5.81	1.94
2,942.00	45.50	128.70	2,822.92	-302.44	267.07	400.98	5.12	5.00	1.56
2,973.00	47.10	128.90	2,844.33	-316.48	284.53	423.36	5.18	5.16	0.65
3,005.00	48.10	128.60	2,865.91	-331.27	302.96	446.94	3.20	3.13	-0.94
3,036.00	49.40	129.10	2,886.35	-345.89	321.11	470.21	4.37	4.19	1.61
3,068.00	50.50	128.50	2,906.94	-361.24	340.20	494.66	3.73	3.44	-1.88
3,099.00	51.90	129.60	2,926.36	-376.46	358.96	518.78	5.30	4.52	3.55
3,131.00	53.20	129.80	2,945.82	-392.69	378.51	544.16	4.09	4.06	0.63
3,162.00	54.10	130.60	2,964.20	-408.81	397.57	569.12	3.57	2.90	2.58
3,194.00	56.40	130.70	2,982.43	-425.93	417.52	595.40	7.19	7.19	0.31
3,225.00	59.30	130.70	2,998.93	-443.05	437.42	621.63	9.35	9.35	0.00
3,257.00	63.20	129.80	3,014.32	-461.17	458.83	649.67	12.43	12.19	-2.81
3,288.00	66.00	129.00	3,027.61	-478.94	480.47	677.63	9.33	9.03	-2.58
3,320.00	68.60	128.40	3,039.96	-497.39	503.51	707.10	8.31	8.13	-1.88
3,351.00	69.60	128.40	3,051.02	-515.38	526.20	735.99	3.23	3.23	0.00
3,383.00	70.70	128.70	3,061.89	-534.14	549.74	766.03	3.55	3.44	0.94
3,414.00	71.20	128.90	3,072.00	-552.50	572.58	795.28	1.72	1.61	0.65
3,446.00	72.20	129.70	3,082.05	-571.74	596.09	825.63	3.92	3.13	2.50
3,477.00	73.30	129.80	3,091.25	-590.67	618.85	855.20	3.56	3.55	0.32
3,509.00	75.10	130.00	3,099.96	-610.42	642.47	885.97	5.66	5.63	0.63
3,540.00	76.80	130.40	3,107.48	-629.83	665.44	916.02	5.62	5.48	1.29
3,572.00	78.50	130.60	3,114.33	-650.13	689.20	947.27	5.35	5.31	0.63
3,603.00	82.00	130.60	3,119.58	-670.01	712.40	977.80	11.29	11.29	0.00
Tie In - Start DLS 5.00 TFO 103.26									
3,692.30	81.00	135.00	3,132.78	-730.00	777.19	1,066.09	5.00	-1.12	4.93
Start DLS 5.00 TFO -50.45									
3,700.00	81.25	134.70	3,133.97	-735.37	782.58	1,073.69	5.00	3.19	-3.90
3,807.48	84.69	130.54	3,147.13	-807.56	861.05	1,180.32	5.00	3.21	-3.87
Start 711.79 hold at 3807.48 MD									
3,900.00	84.69	130.54	3,155.69	-867.45	931.06	1,272.41	0.00	0.00	0.00
4,000.00	84.69	130.54	3,164.95	-932.17	1,006.73	1,371.94	0.00	0.00	0.00
4,100.00	84.69	130.54	3,174.20	-996.89	1,082.39	1,471.47	0.00	0.00	0.00
4,200.00	84.69	130.54	3,183.46	-1,061.61	1,158.06	1,571.00	0.00	0.00	0.00
4,300.00	84.69	130.54	3,192.71	-1,126.34	1,233.72	1,670.53	0.00	0.00	0.00
4,400.00	84.69	130.54	3,201.96	-1,191.06	1,309.39	1,770.06	0.00	0.00	0.00
4,500.00	84.69	130.54	3,211.22	-1,255.78	1,385.05	1,869.59	0.00	0.00	0.00
4,519.27	84.69	130.54	3,213.00	-1,268.26	1,399.64	1,888.77	0.00	0.00	0.00
TD at 4519.27									

<b>Database:</b>	CompassVM	<b>Local Co-ordinate Reference:</b>	Well Mansur 33-1-N (New SL)
<b>Company:</b>	Fram Exploration (II)	<b>TVD Reference:</b>	RKB:20' @ 6103.00ft
<b>Project:</b>	Mesa Co., CO (NAD83)	<b>MD Reference:</b>	RKB:20' @ 6103.00ft
<b>Site:</b>	Sec.33-T12S-R97W	<b>North Reference:</b>	True
<b>Well:</b>	Mansur 33-1-N (New SL)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Mansur 33-1 N STK1		
<b>Design:</b>	STK1 Plan #1 26 Aug13 RG		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
- Shape									
Mansur 33-1-N PBHL3	0.00	0.00	3,213.00	-1,268.26	1,399.64	1,422,340.85	2,221,772.20	38.960793	-108.237317
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
3,603.00	3,119.58	-670.01	712.40	Tie In - Start DLS 5.00 TFO 103.26
3,692.30	3,132.78	-730.00	777.19	Start DLS 5.00 TFO -50.45
3,807.48	3,147.13	-807.56	861.05	Start 711.79 hold at 3807.48 MD
4,519.27	3,213.00	-1,268.26	1,399.64	TD at 4519.27

# **Fram Exploration (II)**

**Mesa Co., CO (NAD83)**

**Sec.33-T12S-R97W**

**Mansur 33-1-N (New SL)**

**Mansur 33-1 N STK1**

**STK1 Plan #1 26 Aug13 RG**

## **Anticollision Report**

**26 August, 2013**



<b>Company:</b>	Fram Exploration (II)	<b>Local Co-ordinate Reference:</b>	Well Mansur 33-1-N (New SL)
<b>Project:</b>	Mesa Co., CO (NAD83)	<b>TVD Reference:</b>	RKB:20' @ 6103.00ft
<b>Reference Site:</b>	Sec.33-T12S-R97W	<b>MD Reference:</b>	RKB:20' @ 6103.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Mansur 33-1-N (New SL)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Mansur 33-1 N STK1	<b>Database:</b>	CompassVM
<b>Reference Design:</b>	STK1 Plan #1 26 Aug13 RG	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	STK1 Plan #1 26 Aug13 RG		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD Interval 100.00ft	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 1,000.00 ft	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma	<b>Casing Method:</b>	Not applied

<b>Survey Tool Program</b>	<b>Date</b>	08/26/13		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
100.00	3,603.00	OH (Mansur 33-1-N)	MWD	MWD - Standard
3,603.00	4,519.27	STK1 Plan #1 26 Aug13 RG (Mansur 33-1)	MWD	MWD - Standard

<b>Summary</b>						
<b>Site Name</b>	<b>Reference Measured Depth (ft)</b>	<b>Offset Measured Depth (ft)</b>	<b>Distance Between Centres (ft)</b>	<b>Distance Between Ellipses (ft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Offset Well - Wellbore - Design</b>						
Sec.33-T12S-R97W						
Mansur 33-1-N (New SL) - Mansur 33-1-N - OH	3,603.00	3,603.00	0.01	0.01	10,000.000	CC, ES
Mansur 33-1-N (New SL) - Mansur 33-1-N - OH	3,917.22	3,917.02	22.77	9.57	1.725	SF

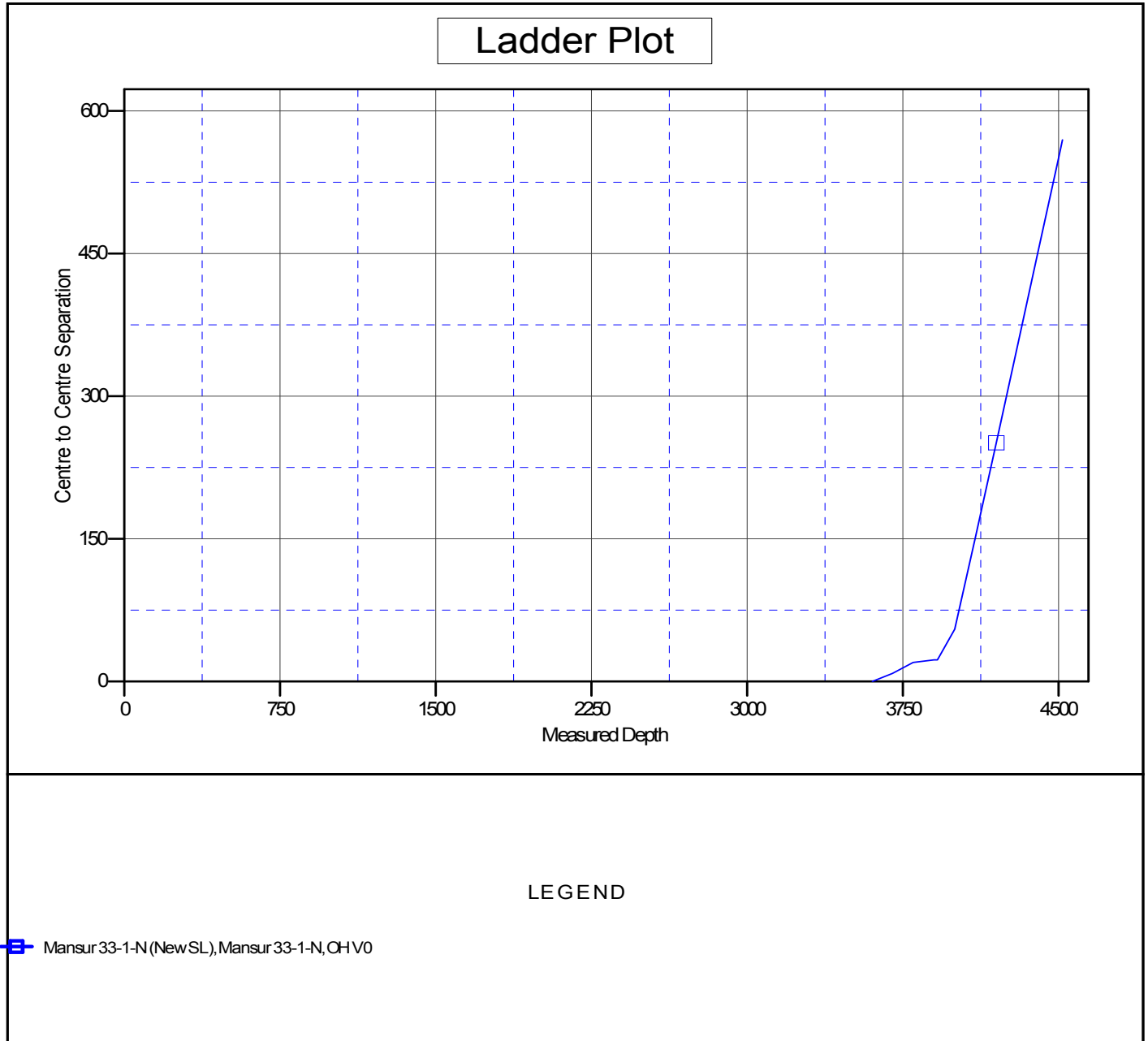
<b>Offset Design</b>	Sec.33-T12S-R97W - Mansur 33-1-N (New SL) - Mansur 33-1-N - OH												<b>Offset Site Error:</b>	0.00 ft
<b>Survey Program:</b>	100-MWD												<b>Offset Well Error:</b>	0.00 ft
<b>Reference</b>	<b>Offset</b>	<b>Semi Major Axis</b>		<b>Distance</b>										<b>Warning</b>
<b>Measured Depth (ft)</b>	<b>Vertical Depth (ft)</b>	<b>Measured Depth (ft)</b>	<b>Vertical Depth (ft)</b>	<b>Reference (ft)</b>	<b>Offset (ft)</b>	<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre +N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Between Centres (ft)</b>	<b>Between Ellipses (ft)</b>	<b>Minimum Separation (ft)</b>	<b>Separation Factor</b>		
3,603.00	3,119.59	3,603.00	3,119.58	0.00	0.00	-19.08	-670.01	712.40	0.01	0.01	0.00	N/A	CC, ES	
3,700.00	3,133.97	3,699.25	3,128.51	2.28	2.38	-50.25	-730.46	786.72	8.43	4.78	3.65	2.310		
3,800.00	3,146.42	3,798.88	3,134.72	4.73	4.85	-54.50	-790.36	866.08	20.09	12.13	7.95	2.525		
3,900.00	3,155.69	3,899.74	3,143.50	7.23	7.30	-57.32	-853.57	944.17	22.65	10.23	12.42	1.823		
3,917.22	3,157.29	3,917.02	3,145.17	7.66	7.72	-57.71	-864.61	957.36	22.77	9.57	13.20	1.725	SF	
4,000.00	3,164.95	3,950.00	3,148.37	9.73	8.52	-58.29	-885.81	982.42	54.91	39.15	15.75	3.485		
4,100.00	3,174.20	3,950.00	3,148.37	12.24	8.52	-58.29	-885.81	982.42	151.66	133.73	17.92	8.461		
4,200.00	3,183.46	3,950.00	3,148.37	14.76	8.52	-58.29	-885.81	982.42	250.97	230.87	20.10	12.483		
4,300.00	3,192.71	3,950.00	3,148.37	17.29	8.52	-58.29	-885.81	982.42	350.67	328.38	22.29	15.732		
4,400.00	3,201.96	3,950.00	3,148.37	19.83	8.52	-58.29	-885.81	982.42	450.51	426.03	24.48	18.401		
4,500.00	3,211.22	3,950.00	3,148.37	22.37	8.52	-58.29	-885.81	982.42	550.40	523.72	26.68	20.631		
4,519.27	3,213.00	3,950.00	3,148.37	22.86	8.52	-58.29	-885.81	982.42	569.66	542.56	27.10	21.018		



<b>Company:</b>	Fram Exploration (II)	<b>Local Co-ordinate Reference:</b>	Well Mansur 33-1-N (New SL)
<b>Project:</b>	Mesa Co., CO (NAD83)	<b>TVD Reference:</b>	RKB:20' @ 6103.00ft
<b>Reference Site:</b>	Sec.33-T12S-R97W	<b>MD Reference:</b>	RKB:20' @ 6103.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Mansur 33-1-N (New SL)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Mansur 33-1 N STK1	<b>Database:</b>	CompassVM
<b>Reference Design:</b>	STK1 Plan #1 26 Aug13 RG	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to RKB:20' @ 6103.00ft  
Offset Depths are relative to Offset Datum  
Central Meridian is -105.500000

Coordinates are relative to: Mansur 33-1-N (New SL)  
Coordinate System is US State Plane 1983, Colorado Central Zone  
Grid Convergence at Surface is: -1.73°

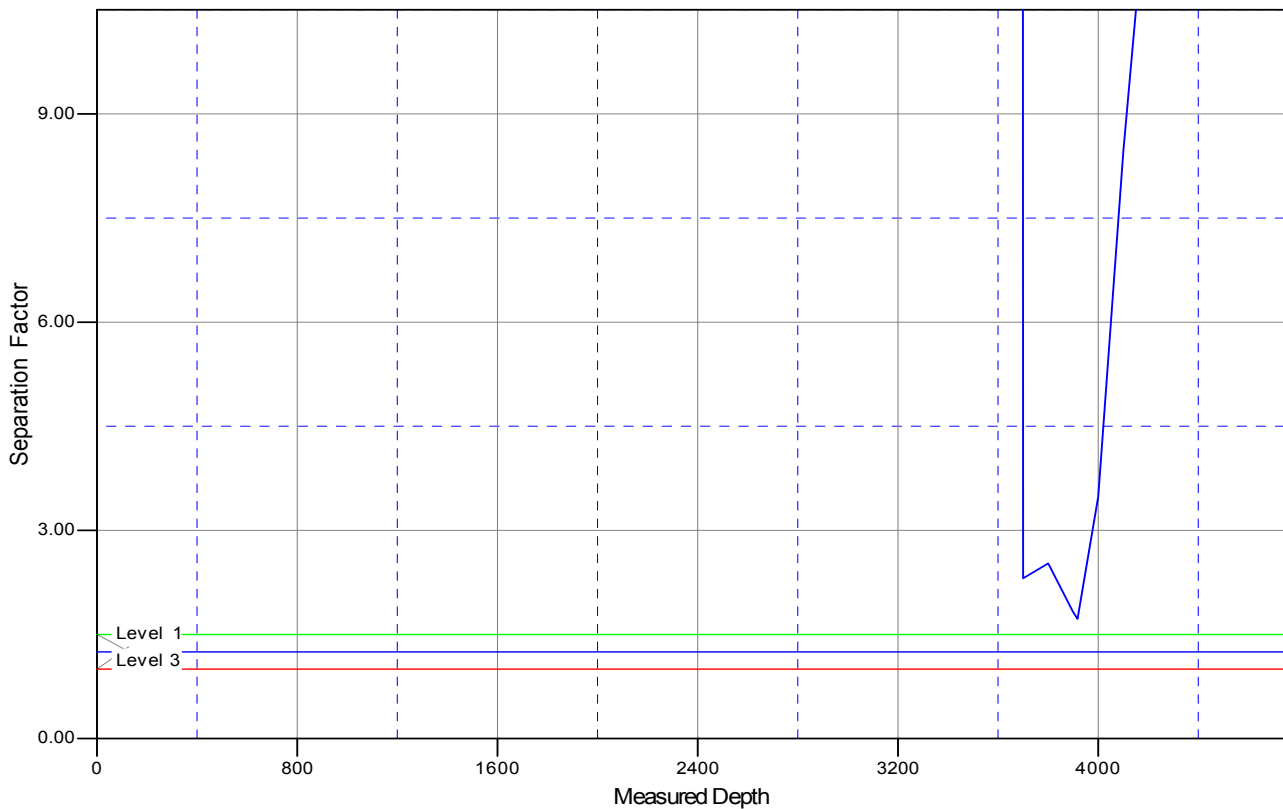


<b>Company:</b>	Fram Exploration (II)	<b>Local Co-ordinate Reference:</b>	Well Mansur 33-1-N (New SL)
<b>Project:</b>	Mesa Co., CO (NAD83)	<b>TVD Reference:</b>	RKB:20' @ 6103.00ft
<b>Reference Site:</b>	Sec.33-T12S-R97W	<b>MD Reference:</b>	RKB:20' @ 6103.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Mansur 33-1-N (New SL)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Mansur 33-1 N STK1	<b>Database:</b>	CompassVM
<b>Reference Design:</b>	STK1 Plan #1 26 Aug13 RG	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to RKB:20' @ 6103.00ft  
Offset Depths are relative to Offset Datum  
Central Meridian is -105.500000

Coordinates are relative to: Mansur 33-1-N (New SL)  
Coordinate System is US State Plane 1983, Colorado Central Zone  
Grid Convergence at Surface is: -1.73°

## Separation Factor Plot



### LEGEND

 Mansur 33-1-N (New SL), Mansur 33-1-N, OHV0