



Scientific Drilling
Directional Drilling Operations

Samson Resources Company

La Plata County, C.O.

SEC 25-T33N-R7W

Ute 33-7-25 #6

Original Hole

Design: As Drilled

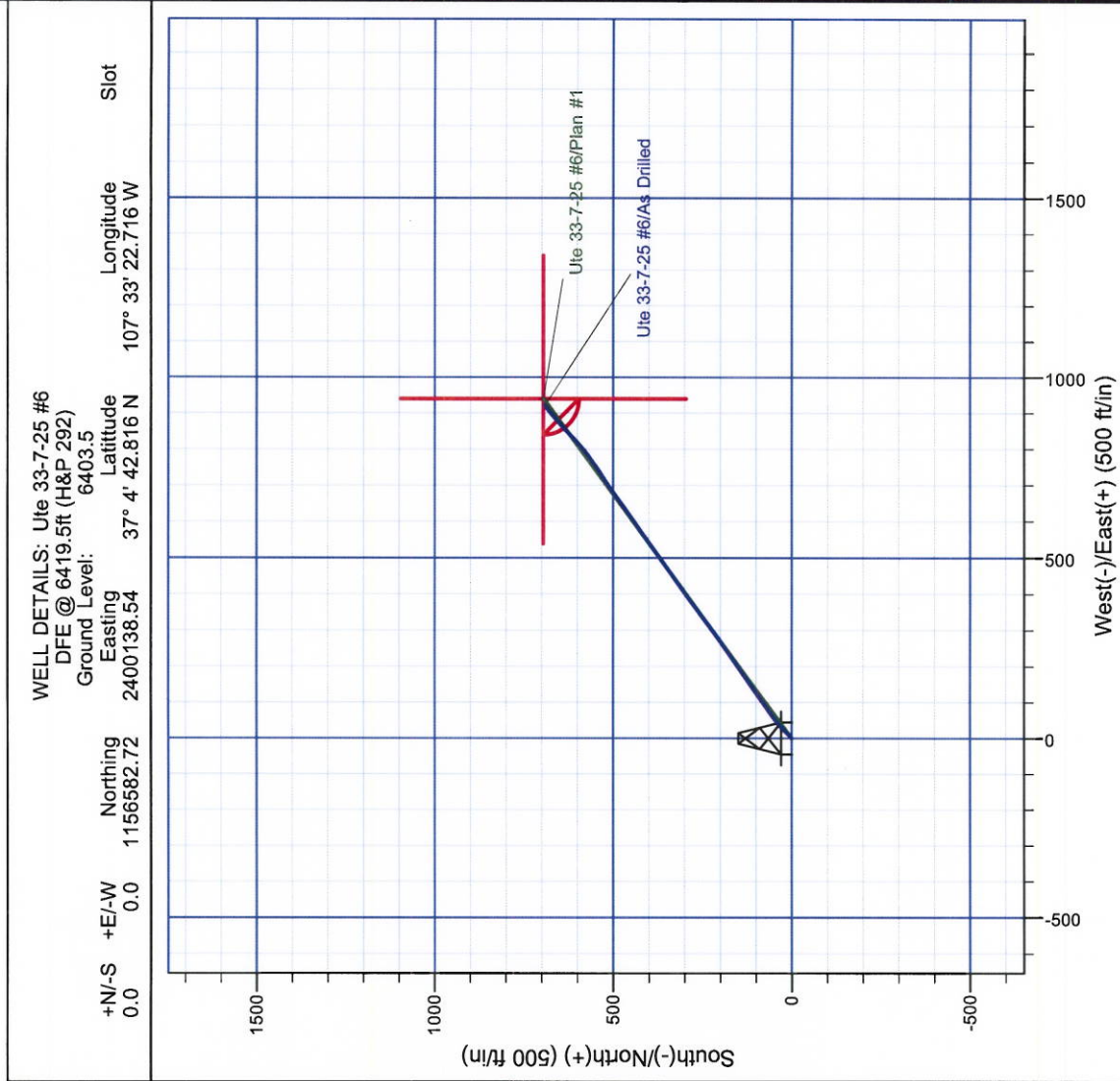
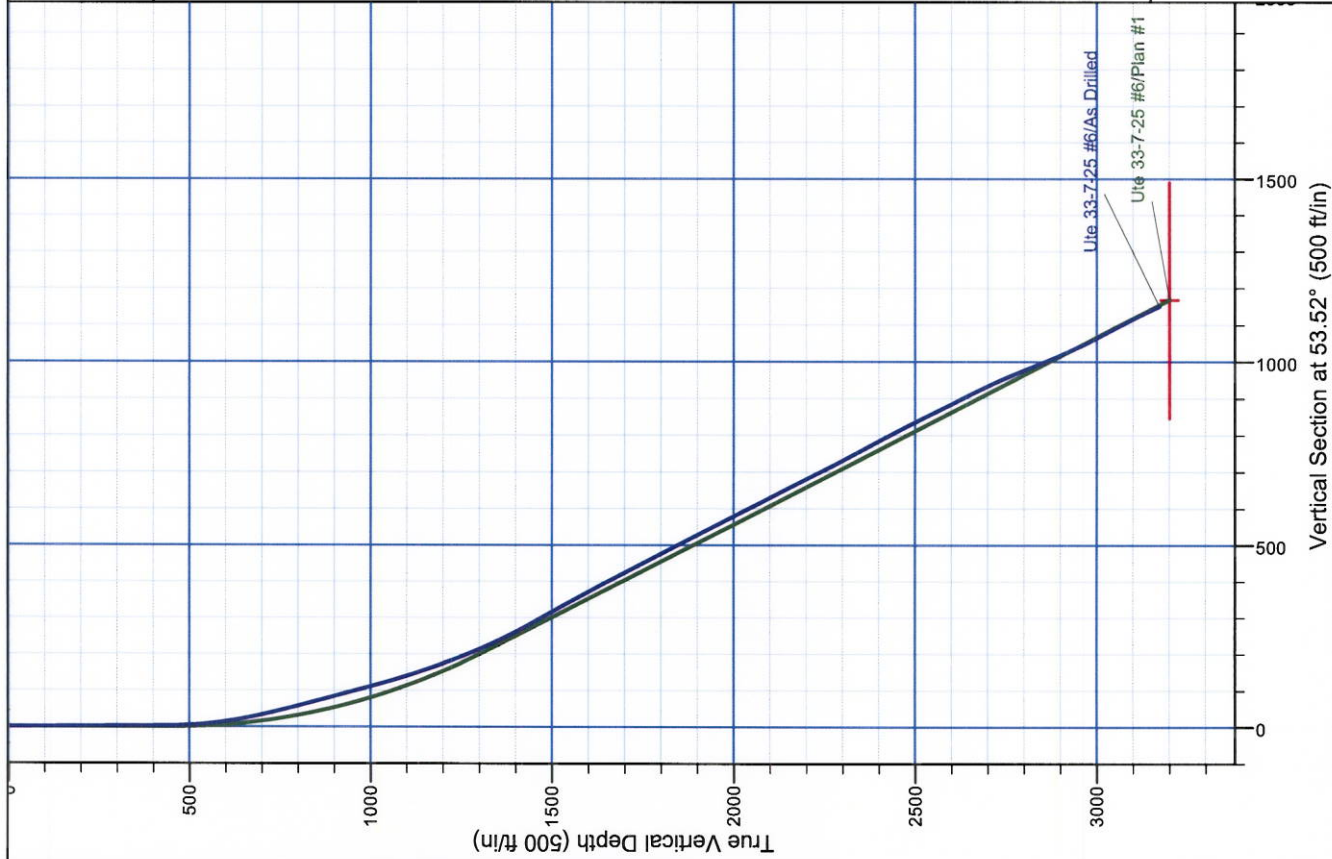
Standard Survey Report

25 August, 2010





Project: La Plata County, C.O.
Site: SEC 25-T33N-R7W
Well: Ute 33-7-25 #6
Wellbore: Original Hole
Design: As Drilled



WELL DETAILS: Ute 33-7-25 #6
DFE @ 6419.5ft (H&P 292)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1156582.72	2400138.54	37° 4' 42.816 N	107° 33' 22.716 W	
				6403.5		



REFERENCE INFORMATION
Co-ordinate (N/E) Reference: Well Ute 33-7-25 #6, Grid North
Vertical (TVD) Reference: DFE @ 6419.5ft (H&P 292)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: DFE @ 6419.5ft (H&P 292)
Calculation Method: Minimum Curvature

Company:	Samson Resources Company	Local Co-ordinate Reference:	Well Ute 33-7-25 #6
Project:	La Plata County, C.O.	TVD Reference:	DFE @ 6419.5ft (H&P 292)
Site:	SEC 25-T33N-R7W	MD Reference:	DFE @ 6419.5ft (H&P 292)
Well:	Ute 33-7-25 #6	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	EDM 5000.1 Single User Db

Project	La Plata County, C.O.		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Southern Zone		Using geodetic scale factor

Site	SEC 25-T33N-R7W		
Site Position:		Northing:	1,156,549.96 usft
From:	Lat/Long	Easting:	2,400,137.82 usft
Position Uncertainty:	15.0 ft	Slot Radius:	6-1/8 "
		Latitude:	37° 4' 42.492 N
		Longitude:	107° 33' 22.716 W
		Grid Convergence:	-1.26 °

Well	Ute 33-7-25 #6, FC Slant Well		
Well Position	+N/-S	0.0 ft	Northing: 1,156,582.71 usft
	+E/-W	0.0 ft	Easting: 2,400,138.54 usft
Position Uncertainty	3.5 ft	Wellhead Elevation:	ft
		Latitude:	37° 4' 42.816 N
		Longitude:	107° 33' 22.716 W
		Ground Level:	6,403.5 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	5/13/2010	9.97	63.83	51,096

Design	As Drilled				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	53.52	

Survey Program	Date 8/25/2010			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
451.0	3,425.0	SDI MWD (Original Hole)	MWD SDI	MWD - Standard ver 1.0.1

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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
451.0	0.88	62.19	451.0	1.6	3.1	3.4	0.20	0.20	0.00	
511.0	3.79	53.54	510.9	3.0	5.1	5.9	4.87	4.85	-14.42	
572.0	6.67	43.77	571.7	6.8	9.1	11.4	4.93	4.72	-16.02	
632.0	10.03	42.31	631.0	13.1	15.1	19.9	5.61	5.60	-2.43	
694.0	12.61	44.71	691.8	22.0	23.5	31.9	4.23	4.16	3.87	
758.0	14.71	48.69	754.0	32.3	34.5	46.9	3.59	3.28	6.22	
822.0	14.49	52.21	815.9	42.6	46.9	63.0	1.43	-0.34	5.50	
885.0	14.52	52.62	876.9	52.2	59.4	78.8	0.17	0.05	0.65	
949.0	14.90	53.73	938.8	61.9	72.4	95.0	0.74	0.59	1.73	

Company:	Samson Resources Company	Local Co-ordinate Reference:	Well Ute 33-7-25 #6
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Site:	SEC 25-T33N-R7W	MD Reference:	DFE @ 6419.5ft (H&P 292)
Well:	Ute 33-7-25 #6	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	EDM 5000.1 Single User Db

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)
1,012.0	15.78	56.73	999.6	71.4	86.1	111.7	1.88	1.40	4.76
1,076.0	16.38	55.34	1,061.1	81.3	100.8	129.4	1.11	0.94	-2.17
1,140.0	17.09	54.02	1,122.4	92.0	115.9	147.8	1.26	1.11	-2.06
1,204.0	19.20	54.88	1,183.2	103.6	132.1	167.8	3.32	3.30	1.34
1,267.0	21.68	55.66	1,242.2	116.1	150.2	189.8	3.96	3.94	1.24
1,331.0	23.86	55.40	1,301.2	130.1	170.6	214.5	3.41	3.41	-0.41
1,395.0	25.64	54.90	1,359.3	145.4	192.6	241.3	2.80	2.78	-0.78
1,457.0	28.00	54.60	1,414.7	161.6	215.4	269.3	3.81	3.81	-0.48
1,521.0	29.60	55.16	1,470.7	179.3	240.6	300.1	2.54	2.50	0.88
1,584.0	29.29	53.87	1,525.6	197.3	265.8	331.0	1.12	-0.49	-2.05
1,648.0	28.54	53.93	1,581.6	215.5	290.8	362.0	1.17	-1.17	0.09
1,712.0	27.85	53.03	1,638.0	233.5	315.1	392.2	1.27	-1.08	-1.41
1,776.0	27.37	52.83	1,694.7	251.4	338.8	421.9	0.76	-0.75	-0.31
1,840.0	26.93	53.38	1,751.7	268.9	362.2	451.1	0.79	-0.69	0.86
1,903.0	27.70	53.68	1,807.7	286.1	385.4	480.0	1.24	1.22	0.48
1,967.0	27.69	53.99	1,864.3	303.6	409.4	509.7	0.23	-0.02	0.48
2,031.0	26.98	53.33	1,921.2	321.1	433.1	539.1	1.21	-1.11	-1.03
2,095.0	27.06	55.47	1,978.2	338.0	456.7	568.2	1.52	0.13	3.34
2,159.0	27.35	53.47	2,035.1	355.0	480.5	597.4	1.50	0.45	-3.13
2,223.0	26.62	53.63	2,092.2	372.2	503.9	626.5	1.15	-1.14	0.25
2,287.0	26.53	53.92	2,149.4	389.2	527.0	655.1	0.25	-0.14	0.45
2,350.0	27.13	54.94	2,205.6	405.7	550.1	683.5	1.20	0.95	1.62
2,414.0	26.88	54.30	2,262.6	422.5	573.8	712.6	0.60	-0.39	-1.00
2,478.0	27.49	53.80	2,319.6	439.7	597.5	741.8	1.02	0.95	-0.78
2,541.0	28.51	54.56	2,375.2	457.0	621.5	771.4	1.72	1.62	1.21
2,605.0	27.36	54.16	2,431.7	474.5	645.8	801.4	1.82	-1.80	-0.63
2,669.0	26.37	53.42	2,488.8	491.5	669.2	830.3	1.63	-1.55	-1.16
2,732.0	26.21	53.99	2,545.3	508.1	691.7	858.2	0.47	-0.25	0.90
2,796.0	26.84	57.13	2,602.6	524.2	715.2	886.8	2.40	0.98	4.91
2,860.0	25.91	56.39	2,659.9	539.8	739.0	915.1	1.54	-1.45	-1.16
2,923.0	24.86	55.00	2,716.8	555.0	761.3	942.1	1.92	-1.67	-2.21
2,986.0	21.77	51.32	2,774.7	569.9	781.3	967.1	5.42	-4.90	-5.84
3,050.0	22.19	52.47	2,834.0	584.7	800.2	991.0	0.94	0.66	1.80
3,114.0	22.76	47.12	2,893.2	600.5	818.8	1,015.4	3.32	0.89	-8.36
3,177.0	25.20	46.38	2,950.7	618.0	837.5	1,040.8	3.90	3.87	-1.17
3,241.0	28.30	47.73	3,007.9	637.6	858.6	1,069.4	4.94	4.84	2.11
3,305.0	27.04	47.24	3,064.6	657.7	880.5	1,099.0	2.00	-1.97	-0.77
3,371.0	25.53	51.52	3,123.7	676.7	902.6	1,128.1	3.67	-2.29	6.48
3,425.0	24.98	53.06	3,172.6	690.8	920.8	1,151.1	1.59	-1.02	2.85
Ute 33-7-25 #6 BHL - Ute 33-7-25 #6 North HL - Ute 33-7-25 #6 East HL									

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Local Co-ordinate Reference: Well Ute 33-7-25 #6
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

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
Ute 33-7-25 #6 BHL	0.00	360.00	3,200.0	695.0	940.0	1,157,277.73	2,401,078.57	37° 4' 49.890 N	107° 33' 11.308 W
- actual wellpath misses target center by 33.7ft at 3425.0ft MD (3172.6 TVD, 690.8 N, 920.8 E)									
- Circle (radius 100.0)									
Ute 33-7-25 #6 North	0.00	360.00	3,200.0	695.0	940.0	1,157,277.73	2,401,078.57	37° 4' 49.890 N	107° 33' 11.308 W
- actual wellpath misses target center by 33.7ft at 3425.0ft MD (3172.6 TVD, 690.8 N, 920.8 E)									
- Polygon									
Point 1			3,200.0	0.0	400.0	1,157,277.74	2,401,478.58		
Point 2			3,200.0	0.0	-400.0	1,157,277.74	2,400,678.56		
Ute 33-7-25 #6 East	0.00	360.00	3,200.0	695.0	940.0	1,157,277.73	2,401,078.57	37° 4' 49.890 N	107° 33' 11.308 W
- actual wellpath misses target center by 33.7ft at 3425.0ft MD (3172.6 TVD, 690.8 N, 920.8 E)									
- Polygon									
Point 1			3,200.0	400.0	0.0	1,157,677.75	2,401,078.57		
Point 2			3,200.0	-400.0	0.0	1,156,877.73	2,401,078.57		

Checked By: _____ Approved By: _____ Date: _____