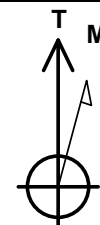


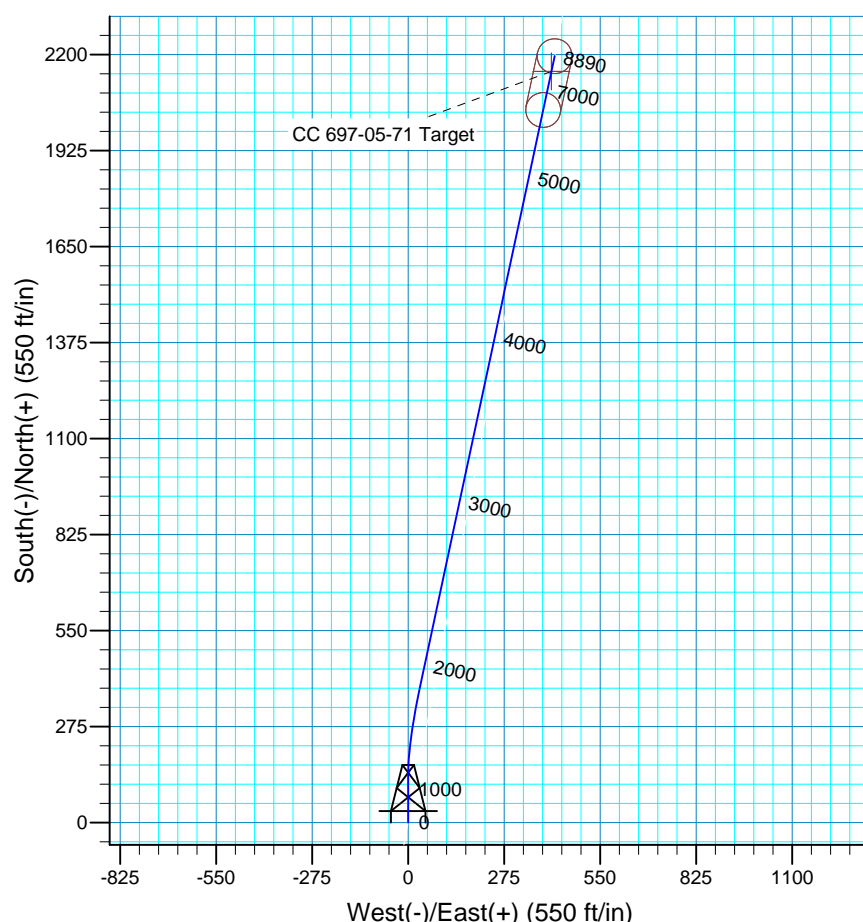
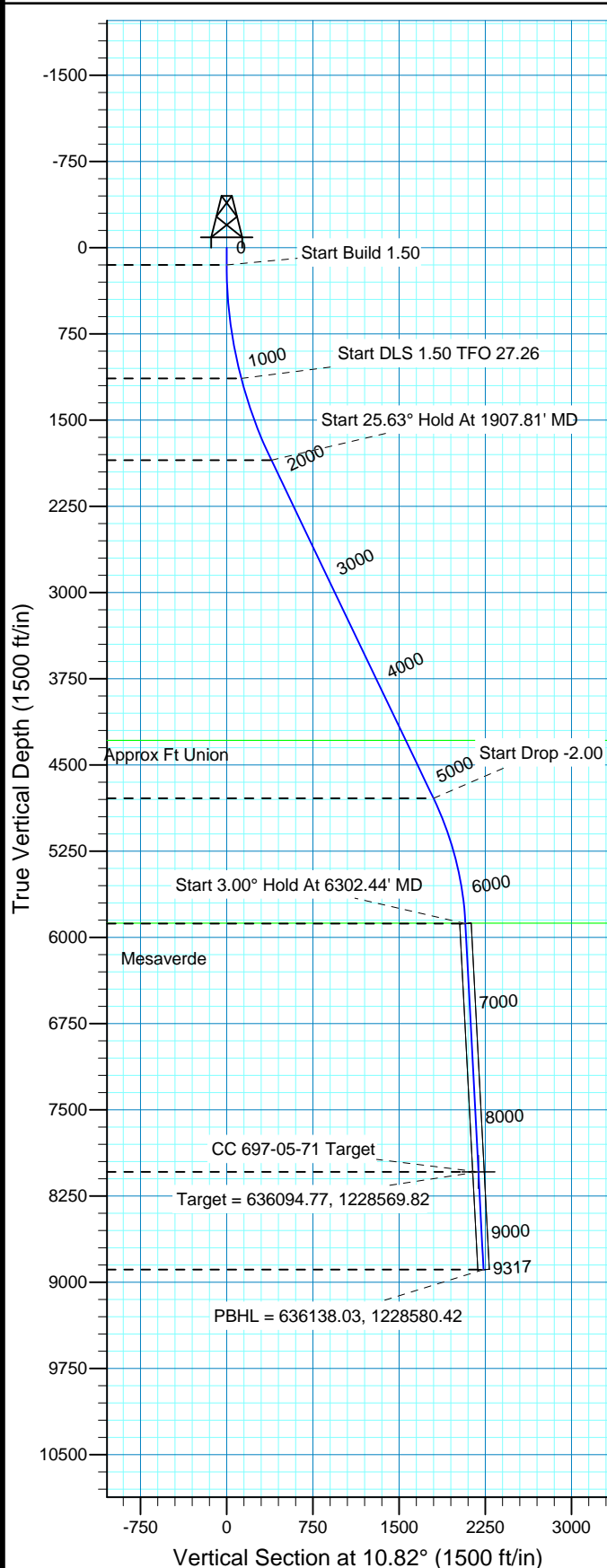
WELL DETAILS: CC 697-05-71

+N/-S	+E/-W	GL 8411' & RKB 30' @ 8441.00ft	8411.00		
		Northing	Easting	Latitude	Longitude
0.00	0.00	633956.00	1228094.64	39° 32' 31.555 N	108° 14' 14.800 W



Azimuths to True North
Magnetic North: 10.63°

Magnetic Field
Strength: 52397.5nT
Dip Angle: 65.78°
Date: 2009/12/31
Model: IGRF2005-10



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4286.00	4611.16	Approx Ft Union
5877.00	6299.47	Mesaverde

Plan: Plan #1 (CC 697-05-71/OH)

Created By: Rex Hall Date: 2010-06-23

PROJECT DETAILS: Garfield County, CO NAD27

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Colorado Central 502

System Datum: Mean Sea Level
Local North: No north reference data is available

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	150.00	0.00	0.00	150.00	0.00	0.00	0.00	0.00	0.00	
3	1150.00	15.00	0.00	1138.62	130.15	0.00	1.50	0.00	127.84	
4	1907.77	25.63	12.05	1848.54	389.32	34.31	1.50	27.26	388.84	CC 697-05-71 Target
5	1907.81	25.63	12.05	1848.57	389.34	34.32	2.00	0.00	388.86	
6	5171.10	25.63	12.05	4790.86	1769.65	328.90	0.00	0.00	1799.93	
7	6302.44	3.00	12.05	5879.96	2041.41	386.90	2.00	180.00	2077.75	
8	8465.44	3.00	12.05	8040.00	2152.12	410.53	0.00	0.00	2190.92	CC 697-05-71 Target
9	9316.60	3.00	12.05	8890.00	2195.69	419.82	0.00	0.00	2235.46	



OXY USA RMAT

**Garfield County, CO NAD27
Cascade Creek 608-41 Pad
CC 697-05-71
OH**

Plan: Plan #1

Standard Planning Report

23 June, 2010



Database:	EDM 2003.16 Multi-User Db	Local Co-ordinate Reference:	Well CC 697-05-71
Company:	OXY USA RMAT	TVD Reference:	GL 8411' & RKB 30' @ 8441.00ft
Project:	Garfield County, CO NAD27	MD Reference:	GL 8411' & RKB 30' @ 8441.00ft
Site:	Cascade Creek 608-41 Pad	North Reference:	True
Well:	CC 697-05-71	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Garfield County, CO NAD27		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Colorado Central 502		

Site	Cascade Creek 608-41 Pad, SEction 8 T6S R97W		
Site Position:		Northing:	633,966.94 ft
From:	Map	Easting:	1,228,168.67 ft
Position Uncertainty:	0.00 ft	Slot Radius:	in
		Latitude:	39° 32' 31.685 N
		Longitude:	108° 14' 13.859 W
		Grid Convergence:	-1.73 °

Well	CC 697-05-71		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2005-10	2009/12/31	10.63	65.78	52,397

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	10.82

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
150.00	0.00	0.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,150.00	15.00	0.00	1,138.62	130.15	0.00	1.50	1.50	0.00	0.00	
1,907.77	25.63	12.05	1,848.54	389.32	34.31	1.50	1.40	1.59	27.26	CC 697-05-71 Target
1,907.81	25.63	12.05	1,848.57	389.34	34.32	2.00	2.00	0.00	0.00	
5,171.10	25.63	12.05	4,790.86	1,769.65	328.90	0.00	0.00	0.00	0.00	
6,302.44	3.00	12.05	5,879.96	2,041.41	386.90	2.00	-2.00	0.00	180.00	
8,465.44	3.00	12.05	8,040.00	2,152.12	410.53	0.00	0.00	0.00	0.00	CC 697-05-71 Target
9,316.60	3.00	12.05	8,890.00	2,195.69	419.82	0.00	0.00	0.00	0.00	

Database:	EDM 2003.16 Multi-User Db	Local Co-ordinate Reference:	Well CC 697-05-71
Company:	OXY USA RMAT	TVD Reference:	GL 8411' & RKB 30' @ 8441.00ft
Project:	Garfield County, CO NAD27	MD Reference:	GL 8411' & RKB 30' @ 8441.00ft
Site:	Cascade Creek 608-41 Pad	North Reference:	True
Well:	CC 697-05-71	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
150.00	0.00	0.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1.50									
200.00	0.75	0.00	200.00	0.33	0.00	0.32	1.50	1.50	0.00
300.00	2.25	0.00	299.96	2.94	0.00	2.89	1.50	1.50	0.00
400.00	3.75	0.00	399.82	8.18	0.00	8.03	1.50	1.50	0.00
500.00	5.25	0.00	499.51	16.02	0.00	15.74	1.50	1.50	0.00
600.00	6.75	0.00	598.96	26.48	0.00	26.01	1.50	1.50	0.00
700.00	8.25	0.00	698.10	39.53	0.00	38.83	1.50	1.50	0.00
800.00	9.75	0.00	796.87	55.17	0.00	54.19	1.50	1.50	0.00
900.00	11.25	0.00	895.19	73.39	0.00	72.09	1.50	1.50	0.00
1,000.00	12.75	0.00	993.00	94.19	0.00	92.51	1.50	1.50	0.00
1,100.00	14.25	0.00	1,090.24	117.53	0.00	115.44	1.50	1.50	0.00
1,150.00	15.00	0.00	1,138.62	130.15	0.00	127.84	1.50	1.50	0.00
Start DLS 1.50 TFO 27.26									
1,200.00	15.67	1.27	1,186.84	143.38	0.15	140.85	1.50	1.34	2.54
1,300.00	17.03	3.52	1,282.79	171.50	1.35	168.70	1.50	1.36	2.25
1,400.00	18.41	5.44	1,378.04	201.83	3.75	198.95	1.50	1.38	1.92
1,500.00	19.81	7.10	1,472.53	234.37	7.34	231.58	1.50	1.40	1.66
1,600.00	21.22	8.55	1,566.19	269.09	12.13	266.58	1.50	1.41	1.45
1,700.00	22.64	9.83	1,658.95	305.95	18.11	303.91	1.50	1.42	1.28
1,800.00	24.08	10.96	1,750.75	344.95	25.27	343.56	1.50	1.43	1.13
1,900.00	25.51	11.97	1,841.53	386.04	33.62	385.49	1.50	1.44	1.01
1,907.77	25.63	12.05	1,848.54	389.32	34.31	388.84	1.50	1.44	0.95
1,907.81	25.63	12.05	1,848.57	389.34	34.32	388.86	0.00	0.00	0.00
Start 25.63° Hold At 1907.81' MD									
2,000.00	25.63	12.05	1,931.69	428.34	42.64	428.72	0.00	0.00	0.00
2,100.00	25.63	12.05	2,021.86	470.63	51.67	471.96	0.00	0.00	0.00
2,200.00	25.63	12.05	2,112.02	512.93	60.69	515.20	0.00	0.00	0.00
2,300.00	25.63	12.05	2,202.18	555.23	69.72	558.44	0.00	0.00	0.00
2,400.00	25.63	12.05	2,292.35	597.53	78.75	601.69	0.00	0.00	0.00
2,500.00	25.63	12.05	2,382.51	639.83	87.78	644.93	0.00	0.00	0.00
2,600.00	25.63	12.05	2,472.67	682.12	96.80	688.17	0.00	0.00	0.00
2,700.00	25.63	12.05	2,562.84	724.42	105.83	731.41	0.00	0.00	0.00
2,800.00	25.63	12.05	2,653.00	766.72	114.86	774.65	0.00	0.00	0.00
2,900.00	25.63	12.05	2,743.16	809.02	123.88	817.89	0.00	0.00	0.00
3,000.00	25.63	12.05	2,833.33	851.32	132.91	861.13	0.00	0.00	0.00
3,100.00	25.63	12.05	2,923.49	893.61	141.94	904.37	0.00	0.00	0.00
3,200.00	25.63	12.05	3,013.65	935.91	150.97	947.61	0.00	0.00	0.00
3,300.00	25.63	12.05	3,103.81	978.21	159.99	990.85	0.00	0.00	0.00
3,400.00	25.63	12.05	3,193.98	1,020.51	169.02	1,034.09	0.00	0.00	0.00
3,500.00	25.63	12.05	3,284.14	1,062.81	178.05	1,077.33	0.00	0.00	0.00
3,600.00	25.63	12.05	3,374.30	1,105.10	187.07	1,120.57	0.00	0.00	0.00
3,700.00	25.63	12.05	3,464.47	1,147.40	196.10	1,163.82	0.00	0.00	0.00
3,800.00	25.63	12.05	3,554.63	1,189.70	205.13	1,207.06	0.00	0.00	0.00
3,900.00	25.63	12.05	3,644.79	1,232.00	214.16	1,250.30	0.00	0.00	0.00
4,000.00	25.63	12.05	3,734.96	1,274.30	223.18	1,293.54	0.00	0.00	0.00
4,100.00	25.63	12.05	3,825.12	1,316.60	232.21	1,336.78	0.00	0.00	0.00
4,200.00	25.63	12.05	3,915.28	1,358.89	241.24	1,380.02	0.00	0.00	0.00
4,300.00	25.63	12.05	4,005.45	1,401.19	250.27	1,423.26	0.00	0.00	0.00
4,400.00	25.63	12.05	4,095.61	1,443.49	259.29	1,466.50	0.00	0.00	0.00
4,500.00	25.63	12.05	4,185.77	1,485.79	268.32	1,509.74	0.00	0.00	0.00

Database:	EDM 2003.16 Multi-User Db	Local Co-ordinate Reference:	Well CC 697-05-71
Company:	OXY USA RMAT	TVD Reference:	GL 8411' & RKB 30' @ 8441.00ft
Project:	Garfield County, CO NAD27	MD Reference:	GL 8411' & RKB 30' @ 8441.00ft
Site:	Cascade Creek 608-41 Pad	North Reference:	True
Well:	CC 697-05-71	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)
4,600.00	25.63	12.05	4,275.93	1,528.09	277.35	1,552.98	0.00	0.00	0.00
4,611.16	25.63	12.05	4,286.00	1,532.81	278.35	1,557.81	0.00	0.00	0.00
Approx Ft Union									
4,700.00	25.63	12.05	4,366.10	1,570.38	286.37	1,596.22	0.00	0.00	0.00
4,800.00	25.63	12.05	4,456.26	1,612.68	295.40	1,639.46	0.00	0.00	0.00
4,900.00	25.63	12.05	4,546.42	1,654.98	304.43	1,682.70	0.00	0.00	0.00
5,000.00	25.63	12.05	4,636.59	1,697.28	313.46	1,725.95	0.00	0.00	0.00
5,100.00	25.63	12.05	4,726.75	1,739.58	322.48	1,769.19	0.00	0.00	0.00
5,171.10	25.63	12.05	4,790.86	1,769.65	328.90	1,799.93	0.00	0.00	0.00
Start Drop -2.00									
5,200.00	25.05	12.05	4,816.98	1,781.75	331.48	1,812.30	2.00	-2.00	0.00
5,300.00	23.05	12.05	4,908.29	1,821.60	339.99	1,853.04	2.00	-2.00	0.00
5,400.00	21.05	12.05	5,000.97	1,858.31	347.82	1,890.56	2.00	-2.00	0.00
5,500.00	19.05	12.05	5,094.91	1,891.83	354.98	1,924.84	2.00	-2.00	0.00
5,600.00	17.05	12.05	5,189.98	1,922.13	361.44	1,955.81	2.00	-2.00	0.00
5,700.00	15.05	12.05	5,286.08	1,949.17	367.21	1,983.45	2.00	-2.00	0.00
5,800.00	13.05	12.05	5,383.08	1,972.91	372.28	2,007.72	2.00	-2.00	0.00
5,900.00	11.05	12.05	5,480.88	1,993.32	376.64	2,028.59	2.00	-2.00	0.00
6,000.00	9.05	12.05	5,579.34	2,010.38	380.28	2,046.03	2.00	-2.00	0.00
6,100.00	7.05	12.05	5,678.35	2,024.08	383.20	2,060.03	2.00	-2.00	0.00
6,200.00	5.05	12.05	5,777.79	2,034.38	385.40	2,070.56	2.00	-2.00	0.00
6,299.47	3.06	12.05	5,877.00	2,041.26	386.87	2,077.59	2.00	-2.00	0.00
Mesaverde									
6,300.00	3.05	12.05	5,877.53	2,041.28	386.87	2,077.62	2.00	-2.00	0.00
6,302.44	3.00	12.05	5,879.96	2,041.41	386.90	2,077.75	2.00	-2.00	0.00
Start 3.00° Hold At 6302.44' MD									
6,400.00	3.00	12.05	5,977.39	2,046.40	387.97	2,082.85	0.00	0.00	0.00
6,500.00	3.00	12.05	6,077.26	2,051.52	389.06	2,088.09	0.00	0.00	0.00
6,600.00	3.00	12.05	6,177.12	2,056.64	390.15	2,093.32	0.00	0.00	0.00
6,700.00	3.00	12.05	6,276.98	2,061.76	391.24	2,098.55	0.00	0.00	0.00
6,800.00	3.00	12.05	6,376.85	2,066.88	392.33	2,103.78	0.00	0.00	0.00
6,900.00	3.00	12.05	6,476.71	2,072.00	393.43	2,109.02	0.00	0.00	0.00
7,000.00	3.00	12.05	6,576.57	2,077.11	394.52	2,114.25	0.00	0.00	0.00
7,100.00	3.00	12.05	6,676.43	2,082.23	395.61	2,119.48	0.00	0.00	0.00
7,200.00	3.00	12.05	6,776.30	2,087.35	396.70	2,124.71	0.00	0.00	0.00
7,300.00	3.00	12.05	6,876.16	2,092.47	397.80	2,129.94	0.00	0.00	0.00
7,400.00	3.00	12.05	6,976.02	2,097.59	398.89	2,135.18	0.00	0.00	0.00
7,500.00	3.00	12.05	7,075.89	2,102.71	399.98	2,140.41	0.00	0.00	0.00
7,600.00	3.00	12.05	7,175.75	2,107.82	401.07	2,145.64	0.00	0.00	0.00
7,700.00	3.00	12.05	7,275.61	2,112.94	402.17	2,150.87	0.00	0.00	0.00
7,800.00	3.00	12.05	7,375.48	2,118.06	403.26	2,156.11	0.00	0.00	0.00
7,900.00	3.00	12.05	7,475.34	2,123.18	404.35	2,161.34	0.00	0.00	0.00
8,000.00	3.00	12.05	7,575.20	2,128.30	405.44	2,166.57	0.00	0.00	0.00
8,100.00	3.00	12.05	7,675.06	2,133.42	406.54	2,171.80	0.00	0.00	0.00
8,200.00	3.00	12.05	7,774.93	2,138.53	407.63	2,177.04	0.00	0.00	0.00
8,300.00	3.00	12.05	7,874.79	2,143.65	408.72	2,182.27	0.00	0.00	0.00
8,400.00	3.00	12.05	7,974.65	2,148.77	409.81	2,187.50	0.00	0.00	0.00
8,465.44	3.00	12.05	8,040.00	2,152.12	410.53	2,190.92	0.00	0.00	0.00
Target = 636094.77, 1228569.82 - CC 697-05-71 Target - CC 697-05-71 Target									
8,500.00	3.00	12.05	8,074.52	2,153.89	410.90	2,192.73	0.00	0.00	0.00
8,600.00	3.00	12.05	8,174.38	2,159.01	412.00	2,197.97	0.00	0.00	0.00
8,700.00	3.00	12.05	8,274.24	2,164.13	413.09	2,203.20	0.00	0.00	0.00
8,800.00	3.00	12.05	8,374.10	2,169.24	414.18	2,208.43	0.00	0.00	0.00

Database:	EDM 2003.16 Multi-User Db	Local Co-ordinate Reference:	Well CC 697-05-71
Company:	OXY USA RMAT	TVD Reference:	GL 8411' & RKB 30' @ 8441.00ft
Project:	Garfield County, CO NAD27	MD Reference:	GL 8411' & RKB 30' @ 8441.00ft
Site:	Cascade Creek 608-41 Pad	North Reference:	True
Well:	CC 697-05-71	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)
8,900.00	3.00	12.05	8,473.97	2,174.36	415.27	2,213.66	0.00	0.00	0.00
9,000.00	3.00	12.05	8,573.83	2,179.48	416.37	2,218.90	0.00	0.00	0.00
9,100.00	3.00	12.05	8,673.69	2,184.60	417.46	2,224.13	0.00	0.00	0.00
9,200.00	3.00	12.05	8,773.56	2,189.72	418.55	2,229.36	0.00	0.00	0.00
9,300.00	3.00	12.05	8,873.42	2,194.84	419.64	2,234.59	0.00	0.00	0.00
9,316.60	3.00	12.05	8,890.00	2,195.69	419.82	2,235.46	0.00	0.00	0.00
PBHL = 636138.03, 1228580.42									

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
CC 697-05-71 Target	-3.00	12.05	8,040.00	2,152.12	410.53	636,094.77	1,228,569.82	39° 32' 52.826 N	108° 14' 9.559 W
- plan hits target center									
- Circle (radius 50.00)									

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,611.16	4,286.00	Approx Ft Union		0.00	
6,299.47	5,877.00	Mesaverde		0.00	

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
150.00	150.00	0.00	0.00	Start Build 1.50
1,150.00	1,138.62	130.15	0.00	Start DLS 1.50 TFO 27.26
1,907.81	1,848.57	389.34	34.32	Start 25.63° Hold At 1907.81' MD
5,171.10	4,790.86	1,769.65	328.90	Start Drop -2.00
6,302.44	5,879.96	2,041.41	386.90	Start 3.00° Hold At 6302.44' MD
8,465.44	8,040.00	2,152.12	410.53	Target = 636094.77, 1228569.82
9,316.60	8,890.00	2,195.69	419.82	PBHL = 636138.03, 1228580.42