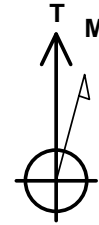


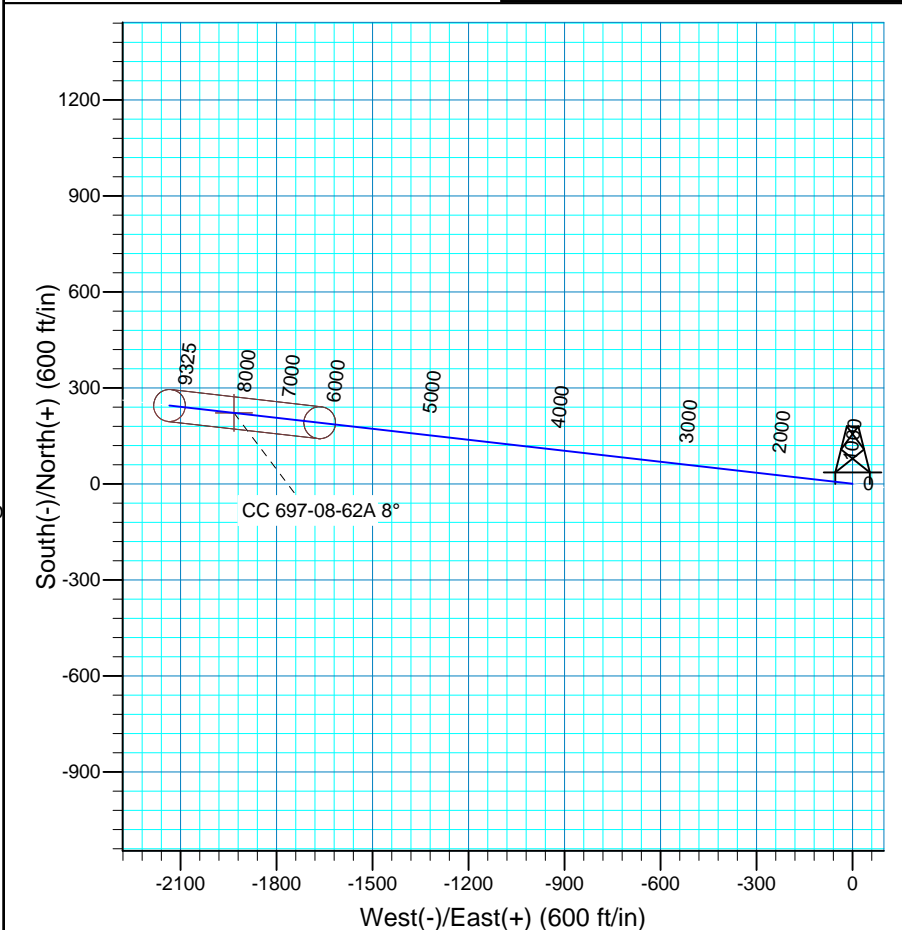
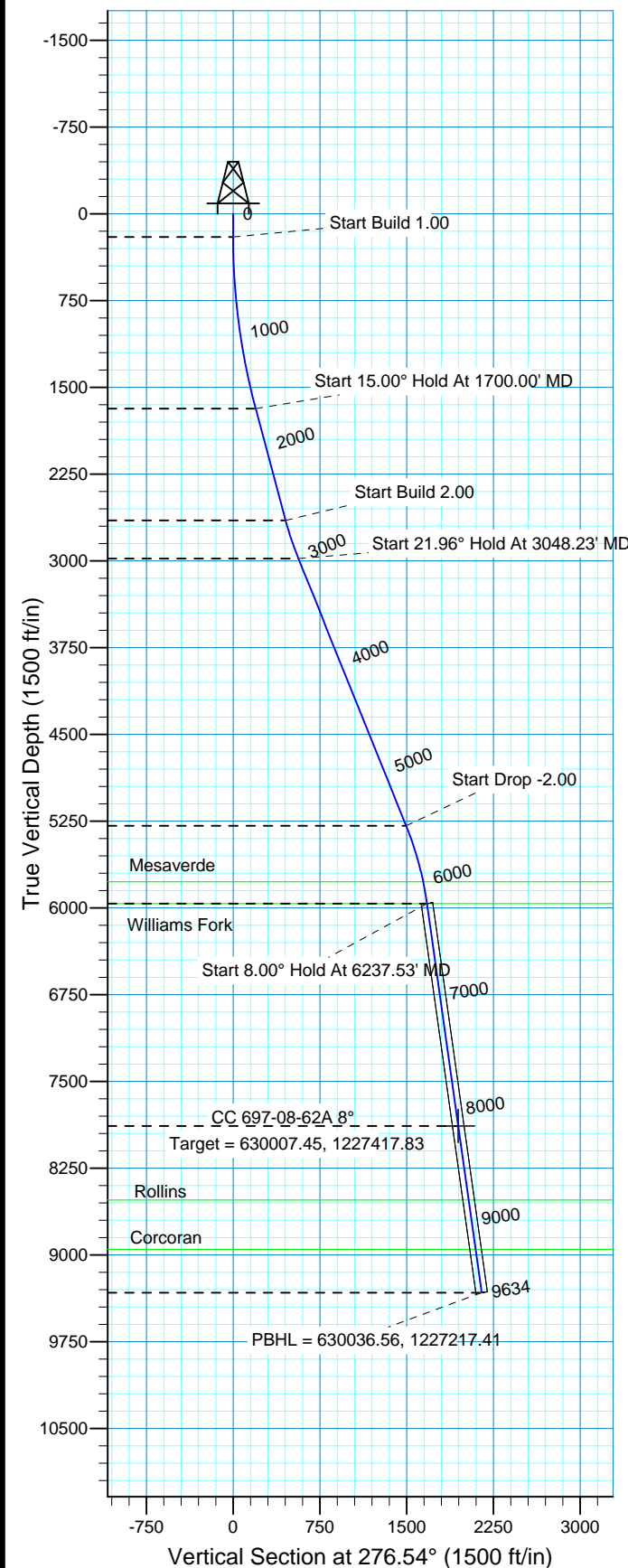
WELL DETAILS: CC 697-08-62A

GL 8393' & RKB 30' @ 8423.00ft (H&P 330) 8393.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 629727.68 1229343.91 39° 31' 50.155 N 108° 13' 57.237 W M



Azimuths to True North
Magnetic North: 10.63°

Magnetic Field
Strength: 52398.1snT
Dip Angle: 65.77°
Date: 12/8/2009
Model: IGRF2005-10



FORMATION TOP DETAILS

TVDPathMDPath Formation
5774.006046.65 Mesaverde
5962.006237.53 Williams Fork
8525.008825.72 Rollins
8950.009254.90 Corcoran

Plan: Plan #1 (CC 697-08-62A/OH)

Created By: Rex Hall Date: 2009-12-09

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	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
3	1700.00	15.00	276.54	1682.92	22.24	-193.96	1.00	276.54	195.23	CC 697-08-62A 8°
4	2700.00	15.00	276.54	2648.85	51.72	-451.09	0.00	0.00	454.05	
5	3048.23	21.96	276.54	2978.91	64.29	-560.70	2.00	0.00	564.37	
6	5539.30	21.96	276.54	5289.17	170.43	-1486.38	0.00	0.00	1496.12	
7	6237.53	8.00	276.54	5962.00	190.95	-1665.27	2.00	180.00	1676.18	
8	8178.42	8.00	276.54	7884.00	221.72	-1933.63	0.00	0.00	1946.30	CC 697-08-62A 8°
9	9633.58	8.00	276.54	9325.00	244.79	-2134.83	0.00	0.00	2148.82	

OXY USA RMAT

Garfield County, CO NAD27

Cascade Creek 609-14 Pad

CC 697-08-62A - Slot M

OH

Plan: Plan #1

Standard Planning Report

09 December, 2009

Scientific Drilling International

Planning Report

Database:	EDM 2003.16 Multi-User Db	Local Co-ordinate Reference:	Well CC 697-08-62A - Slot M
Company:	OXY USA RMAT	TVD Reference:	GL 8393' & RKB 30' @ 8423.00ft (H&P 330)
Project:	Garfield County, CO NAD27	MD Reference:	GL 8393' & RKB 30' @ 8423.00ft (H&P 330)
Site:	Cascade Creek 609-14 Pad	North Reference:	True
Well:	CC 697-08-62A	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 609-14 Pad, Sec 9 T6S R97W											
Site Position:			Northing:			629,789.23 ft			Latitude:			39° 31' 50.765 N					
From:			Map			Easting:			1,229,350.88 ft			Longitude:			108° 13' 57.172 W		
Position Uncertainty:			0.00 ft			Slot Radius:			in			Grid Convergence:			-1.72 °		

Well	CC 697-08-62A - Slot M					
Well Position	+N/-S	0.00 ft	Northing:	629,727.68 ft	Latitude:	39° 31' 50.155 N
	+E/-W	0.00 ft	Easting:	1,229,343.91 ft	Longitude:	108° 13' 57.237 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	8,393.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2005-10	12/8/2009	10.63	65.77	52,398

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	276.54

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	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,700.00	15.00	276.54	1,682.92	22.24	-193.96	1.00	1.00	0.00	276.54	CC 697-08-62A 8°
2,700.00	15.00	276.54	2,648.85	51.72	-451.09	0.00	0.00	0.00	0.00	
3,048.23	21.96	276.54	2,978.91	64.29	-560.70	2.00	2.00	0.00	0.00	
5,539.30	21.96	276.54	5,289.17	170.43	-1,486.38	0.00	0.00	0.00	0.00	
6,237.53	8.00	276.54	5,962.00	190.95	-1,665.27	2.00	-2.00	0.00	180.00	
8,178.42	8.00	276.54	7,884.00	221.72	-1,933.63	0.00	0.00	0.00	0.00	CC 697-08-62A 8°
9,633.58	8.00	276.54	9,325.00	244.79	-2,134.83	0.00	0.00	0.00	0.00	

Scientific Drilling International

Planning Report

Database:	EDM 2003.16 Multi-User Db	Local Co-ordinate Reference:	Well CC 697-08-62A - Slot M
Company:	OXY USA RMAT	TVD Reference:	GL 8393' & RKB 30' @ 8423.00ft (H&P 330)
Project:	Garfield County, CO NAD27	MD Reference:	GL 8393' & RKB 30' @ 8423.00ft (H&P 330)
Site:	Cascade Creek 609-14 Pad	North Reference:	True
Well:	CC 697-08-62A	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
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1.00									
300.00	1.00	276.54	299.99	0.10	-0.87	0.87	1.00	1.00	0.00
400.00	2.00	276.54	399.96	0.40	-3.47	3.49	1.00	1.00	0.00
500.00	3.00	276.54	499.86	0.89	-7.80	7.85	1.00	1.00	0.00
600.00	4.00	276.54	599.68	1.59	-13.87	13.96	1.00	1.00	0.00
700.00	5.00	276.54	699.37	2.48	-21.66	21.80	1.00	1.00	0.00
800.00	6.00	276.54	798.90	3.58	-31.18	31.39	1.00	1.00	0.00
900.00	7.00	276.54	898.26	4.87	-42.43	42.71	1.00	1.00	0.00
1,000.00	8.00	276.54	997.40	6.35	-55.40	55.76	1.00	1.00	0.00
1,100.00	9.00	276.54	1,096.30	8.04	-70.08	70.54	1.00	1.00	0.00
1,200.00	10.00	276.54	1,194.93	9.92	-86.48	87.05	1.00	1.00	0.00
1,300.00	11.00	276.54	1,293.26	11.99	-104.58	105.27	1.00	1.00	0.00
1,400.00	12.00	276.54	1,391.25	14.26	-124.39	125.21	1.00	1.00	0.00
1,500.00	13.00	276.54	1,488.87	16.73	-145.89	146.85	1.00	1.00	0.00
1,600.00	14.00	276.54	1,586.11	19.39	-169.09	170.19	1.00	1.00	0.00
1,700.00	15.00	276.54	1,682.92	22.24	-193.96	195.23	1.00	1.00	0.00
Start 15.00° Hold At 1700.00' MD									
1,800.00	15.00	276.54	1,779.52	25.19	-219.67	221.11	0.00	0.00	0.00
1,900.00	15.00	276.54	1,876.11	28.14	-245.39	246.99	0.00	0.00	0.00
2,000.00	15.00	276.54	1,972.70	31.09	-271.10	272.88	0.00	0.00	0.00
2,100.00	15.00	276.54	2,069.29	34.03	-296.81	298.76	0.00	0.00	0.00
2,200.00	15.00	276.54	2,165.89	36.98	-322.53	324.64	0.00	0.00	0.00
2,300.00	15.00	276.54	2,262.48	39.93	-348.24	350.52	0.00	0.00	0.00
2,400.00	15.00	276.54	2,359.07	42.88	-373.95	376.40	0.00	0.00	0.00
2,500.00	15.00	276.54	2,455.66	45.83	-399.67	402.29	0.00	0.00	0.00
2,600.00	15.00	276.54	2,552.26	48.78	-425.38	428.17	0.00	0.00	0.00
2,700.00	15.00	276.54	2,648.85	51.72	-451.09	454.05	0.00	0.00	0.00
Start Build 2.00									
2,800.00	17.00	276.54	2,744.97	54.86	-478.48	481.61	2.00	2.00	0.00
2,900.00	19.00	276.54	2,840.07	58.38	-509.18	512.51	2.00	2.00	0.00
3,000.00	21.00	276.54	2,934.04	62.28	-543.15	546.71	2.00	2.00	0.00
3,048.23	21.96	276.54	2,978.91	64.29	-560.70	564.37	2.00	2.00	0.00
Start 21.96° Hold At 3048.23' MD									
3,100.00	21.96	276.54	3,026.93	66.50	-579.94	583.74	0.00	0.00	0.00
3,200.00	21.96	276.54	3,119.67	70.76	-617.10	621.14	0.00	0.00	0.00
3,300.00	21.96	276.54	3,212.41	75.02	-654.26	658.54	0.00	0.00	0.00
3,400.00	21.96	276.54	3,305.15	79.28	-691.42	695.95	0.00	0.00	0.00
3,500.00	21.96	276.54	3,397.89	83.54	-728.58	733.35	0.00	0.00	0.00
3,600.00	21.96	276.54	3,490.64	87.80	-765.74	770.75	0.00	0.00	0.00
3,700.00	21.96	276.54	3,583.38	92.06	-802.90	808.16	0.00	0.00	0.00
3,800.00	21.96	276.54	3,676.12	96.32	-840.06	845.56	0.00	0.00	0.00
3,900.00	21.96	276.54	3,768.86	100.58	-877.22	882.96	0.00	0.00	0.00
4,000.00	21.96	276.54	3,861.60	104.85	-914.38	920.37	0.00	0.00	0.00
4,100.00	21.96	276.54	3,954.34	109.11	-951.54	957.77	0.00	0.00	0.00
4,200.00	21.96	276.54	4,047.08	113.37	-988.70	995.17	0.00	0.00	0.00
4,300.00	21.96	276.54	4,139.83	117.63	-1,025.86	1,032.58	0.00	0.00	0.00
4,400.00	21.96	276.54	4,232.57	121.89	-1,063.02	1,069.98	0.00	0.00	0.00
4,500.00	21.96	276.54	4,325.31	126.15	-1,100.18	1,107.38	0.00	0.00	0.00
4,600.00	21.96	276.54	4,418.05	130.41	-1,137.34	1,144.79	0.00	0.00	0.00
4,700.00	21.96	276.54	4,510.79	134.67	-1,174.50	1,182.19	0.00	0.00	0.00

Scientific Drilling International

Planning Report

Database:	EDM 2003.16 Multi-User Db	Local Co-ordinate Reference:	Well CC 697-08-62A - Slot M
Company:	OXY USA RMAT	TVD Reference:	GL 8393' & RKB 30' @ 8423.00ft (H&P 330)
Project:	Garfield County, CO NAD27	MD Reference:	GL 8393' & RKB 30' @ 8423.00ft (H&P 330)
Site:	Cascade Creek 609-14 Pad	North Reference:	True
Well:	CC 697-08-62A	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)
4,800.00	21.96	276.54	4,603.53	138.93	-1,211.66	1,219.59	0.00	0.00	0.00
4,900.00	21.96	276.54	4,696.28	143.19	-1,248.81	1,257.00	0.00	0.00	0.00
5,000.00	21.96	276.54	4,789.02	147.45	-1,285.97	1,294.40	0.00	0.00	0.00
5,100.00	21.96	276.54	4,881.76	151.72	-1,323.13	1,331.80	0.00	0.00	0.00
5,200.00	21.96	276.54	4,974.50	155.98	-1,360.29	1,369.21	0.00	0.00	0.00
5,300.00	21.96	276.54	5,067.24	160.24	-1,397.45	1,406.61	0.00	0.00	0.00
5,400.00	21.96	276.54	5,159.98	164.50	-1,434.61	1,444.01	0.00	0.00	0.00
5,500.00	21.96	276.54	5,252.72	168.76	-1,471.77	1,481.42	0.00	0.00	0.00
5,539.30	21.96	276.54	5,289.17	170.43	-1,486.38	1,496.12	0.00	0.00	0.00
Start Drop -2.00									
5,600.00	20.75	276.54	5,345.70	172.95	-1,508.34	1,518.22	2.00	-2.00	0.00
5,700.00	18.75	276.54	5,439.81	176.80	-1,541.91	1,552.01	2.00	-2.00	0.00
5,800.00	16.75	276.54	5,535.05	180.27	-1,572.20	1,582.50	2.00	-2.00	0.00
5,900.00	14.75	276.54	5,631.29	183.37	-1,599.16	1,609.64	2.00	-2.00	0.00
6,000.00	12.75	276.54	5,728.42	186.07	-1,622.78	1,633.41	2.00	-2.00	0.00
6,046.65	11.82	276.54	5,774.00	187.20	-1,632.64	1,643.34	2.00	-2.00	0.00
Mesaverde									
6,100.00	10.75	276.54	5,826.32	188.39	-1,643.01	1,653.78	2.00	-2.00	0.00
6,200.00	8.75	276.54	5,924.87	190.32	-1,659.84	1,670.71	2.00	-2.00	0.00
6,237.53	8.00	276.54	5,962.00	190.95	-1,665.27	1,676.18	2.00	-2.00	0.00
Start 8.00° Hold At 6237.53' MD - Williams Fork									
6,300.00	8.00	276.54	6,023.86	191.94	-1,673.90	1,684.87	0.00	0.00	0.00
6,400.00	8.00	276.54	6,122.89	193.52	-1,687.73	1,698.79	0.00	0.00	0.00
6,500.00	8.00	276.54	6,221.91	195.11	-1,701.56	1,712.71	0.00	0.00	0.00
6,600.00	8.00	276.54	6,320.94	196.69	-1,715.38	1,726.62	0.00	0.00	0.00
6,700.00	8.00	276.54	6,419.97	198.28	-1,729.21	1,740.54	0.00	0.00	0.00
6,800.00	8.00	276.54	6,518.99	199.86	-1,743.04	1,754.46	0.00	0.00	0.00
6,900.00	8.00	276.54	6,618.02	201.45	-1,756.86	1,768.38	0.00	0.00	0.00
7,000.00	8.00	276.54	6,717.05	203.03	-1,770.69	1,782.29	0.00	0.00	0.00
7,100.00	8.00	276.54	6,816.07	204.62	-1,784.52	1,796.21	0.00	0.00	0.00
7,200.00	8.00	276.54	6,915.10	206.20	-1,798.34	1,810.13	0.00	0.00	0.00
7,300.00	8.00	276.54	7,014.13	207.79	-1,812.17	1,824.04	0.00	0.00	0.00
7,400.00	8.00	276.54	7,113.15	209.38	-1,826.00	1,837.96	0.00	0.00	0.00
7,500.00	8.00	276.54	7,212.18	210.96	-1,839.82	1,851.88	0.00	0.00	0.00
7,600.00	8.00	276.54	7,311.21	212.55	-1,853.65	1,865.80	0.00	0.00	0.00
7,700.00	8.00	276.54	7,410.24	214.13	-1,867.48	1,879.71	0.00	0.00	0.00
7,800.00	8.00	276.54	7,509.26	215.72	-1,881.30	1,893.63	0.00	0.00	0.00
7,900.00	8.00	276.54	7,608.29	217.30	-1,895.13	1,907.55	0.00	0.00	0.00
8,000.00	8.00	276.54	7,707.32	218.89	-1,908.96	1,921.47	0.00	0.00	0.00
8,100.00	8.00	276.54	7,806.34	220.47	-1,922.78	1,935.38	0.00	0.00	0.00
8,178.42	8.00	276.54	7,884.00	221.72	-1,933.63	1,946.30	0.00	0.00	0.00
Target = 630007.45, 1227417.83 - CC 697-08-62A 8° - CC 697-08-62A 8°									
8,200.00	8.00	276.54	7,905.37	222.06	-1,936.61	1,949.30	0.00	0.00	0.00
8,300.00	8.00	276.54	8,004.40	223.64	-1,950.44	1,963.22	0.00	0.00	0.00
8,400.00	8.00	276.54	8,103.42	225.23	-1,964.26	1,977.14	0.00	0.00	0.00
8,500.00	8.00	276.54	8,202.45	226.81	-1,978.09	1,991.05	0.00	0.00	0.00
8,600.00	8.00	276.54	8,301.48	228.40	-1,991.92	2,004.97	0.00	0.00	0.00
8,700.00	8.00	276.54	8,400.50	229.99	-2,005.74	2,018.89	0.00	0.00	0.00
8,800.00	8.00	276.54	8,499.53	231.57	-2,019.57	2,032.80	0.00	0.00	0.00
8,825.72	8.00	276.54	8,525.00	231.98	-2,023.13	2,036.38	0.00	0.00	0.00
Rollins									
8,900.00	8.00	276.54	8,598.56	233.16	-2,033.40	2,046.72	0.00	0.00	0.00
9,000.00	8.00	276.54	8,697.58	234.74	-2,047.22	2,060.64	0.00	0.00	0.00

Scientific Drilling International

Planning Report

Database: EDM 2003.16 Multi-User Db
Company: OXY USA RMAT
Project: Garfield County, CO NAD27
Site: Cascade Creek 609-14 Pad
Well: CC 697-08-62A
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well CC 697-08-62A - Slot M
TVD Reference: GL 8393' & RKB 30' @ 8423.00ft (H&P 330)
MD Reference: GL 8393' & RKB 30' @ 8423.00ft (H&P 330)
North Reference: True
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 (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,100.00	8.00	276.54	8,796.61	236.33	-2,061.05	2,074.56	0.00	0.00	0.00
9,200.00	8.00	276.54	8,895.64	237.91	-2,074.88	2,088.47	0.00	0.00	0.00
9,254.90	8.00	276.54	8,950.00	238.78	-2,082.47	2,096.11	0.00	0.00	0.00
Corcoran									
9,300.00	8.00	276.54	8,994.66	239.50	-2,088.70	2,102.39	0.00	0.00	0.00
9,400.00	8.00	276.54	9,093.69	241.08	-2,102.53	2,116.31	0.00	0.00	0.00
9,500.00	8.00	276.54	9,192.72	242.67	-2,116.36	2,130.23	0.00	0.00	0.00
9,600.00	8.00	276.54	9,291.74	244.25	-2,130.18	2,144.14	0.00	0.00	0.00
9,633.58	8.00	276.54	9,325.00	244.79	-2,134.83	2,148.82	0.00	0.00	0.00
PBHL = 630036.56, 1227217.41									

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
CC 697-08-62A 8° - plan hits target center - Circle (radius 50.00)	-8.00	276.54	7,884.00	221.72	-1,933.63	630,007.45	1,227,417.83	39° 31' 52.345 N	108° 14' 21.916 W

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
6,046.65	5,774.00	Mesaverde		0.00	
6,237.53	5,962.00	Williams Fork		0.00	
8,825.72	8,525.00	Rollins		0.00	
9,254.90	8,950.00	Corcoran		0.00	

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
200.00	200.00	0.00	0.00	Start Build 1.00
1,700.00	1,682.92	22.24	-193.96	Start 15.00° Hold At 1700.00' MD
2,700.00	2,648.85	51.72	-451.09	Start Build 2.00
3,048.23	2,978.91	64.29	-560.70	Start 21.96° Hold At 3048.23' MD
5,539.30	5,289.17	170.43	-1,486.38	Start Drop -2.00
6,237.53	5,962.00	190.95	-1,665.27	Start 8.00° Hold At 6237.53' MD
8,178.42	7,884.00	221.72	-1,933.63	Target = 630007.45, 1227417.83
9,633.58	9,325.00	244.79	-2,134.83	PBHL = 630036.56, 1227217.41