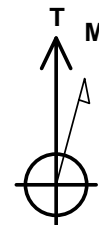


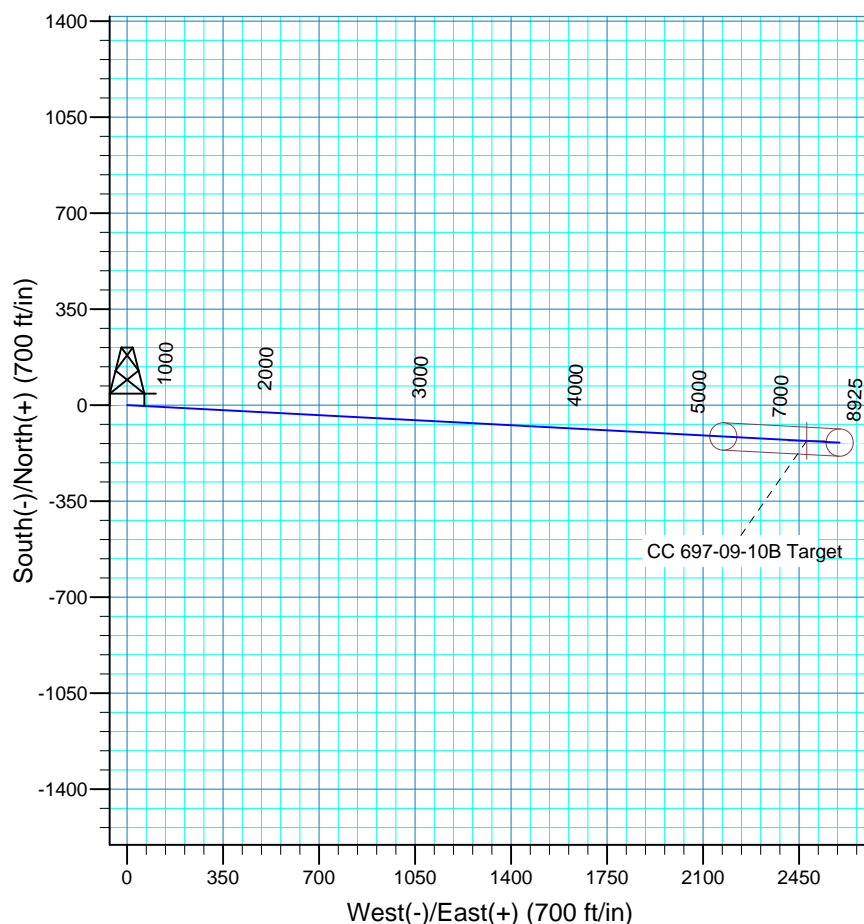
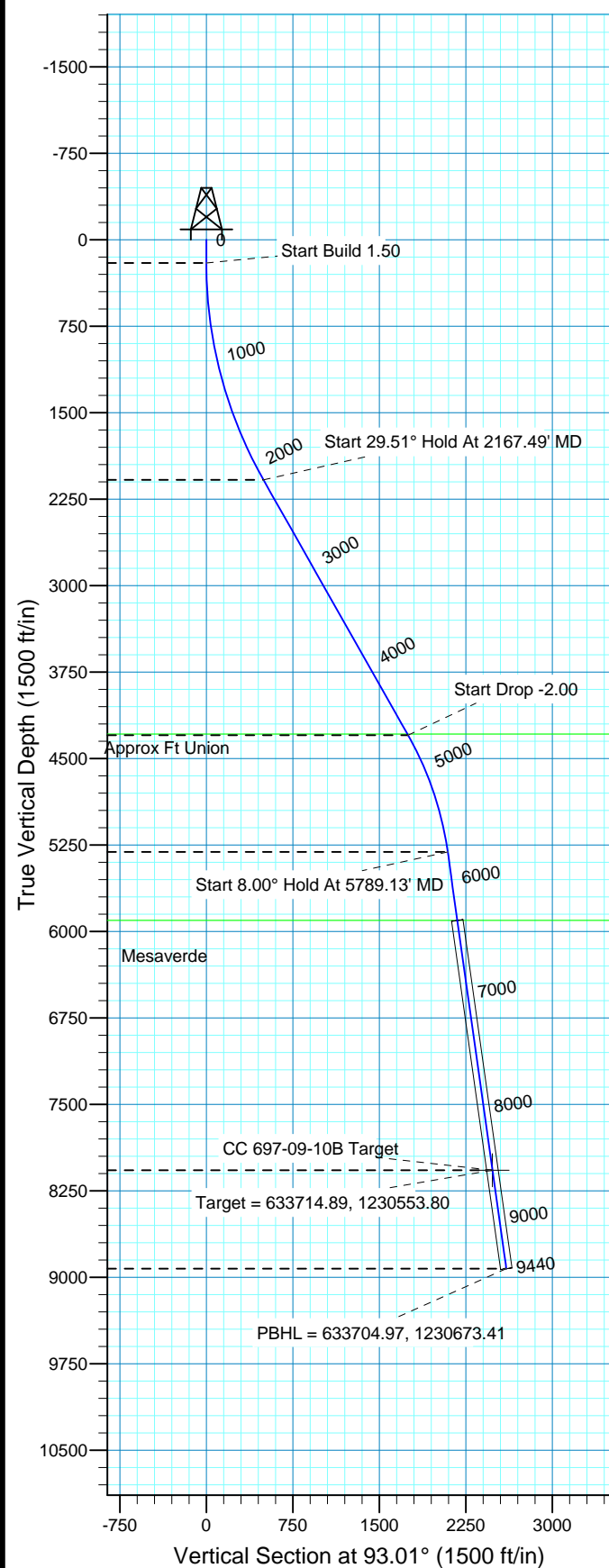
WELL DETAILS: CC 697-09-10B

GL 8411' & RKB 30' @ 8441.00ft 8411.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 633919.95 1228080.60 39° 32' 31.195 N 108° 14' 14.965 W



Azimuths to True North
Magnetic North: 10.63°

Magnetic Field
Strength: 52397.4snT
Dip Angle: 65.78°
Date: 2009/12/31
Model: IGRF2005-10



FORMATION TOP DETAILS

TVDPath MDPATH Formation
4286.00 4700.52 Approx Ft Union
5904.00 6389.13 Mesaverde

Plan: Plan #1 (CC 697-09-10B/OH)

Created By: Rex Hall Date: 2010-06-24

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	2167.49	29.51	93.01	2081.64	-26.05	494.93	1.50	93.01	495.61	
4	4713.51	29.51	93.01	4297.31	-91.98	1747.39	0.00	0.001749.81		
5	5789.13	8.00	93.01	5309.84	-110.06	2090.74	2.00	180.002093.64		
6	8577.43	8.00	93.01	8071.00	-130.45	2478.26	0.00	0.002481.70		
7	9439.82	8.00	93.01	8925.00	-136.76	2598.12	0.00	0.002601.72		CC 697-09-10B Target



OXY USA RMAT

**Garfield County, CO NAD27
Cascade Creek 608-41 Pad
CC 697-09-10B
OH**

Plan: Plan #1

Standard Planning Report

24 June, 2010



Database:	EDM 2003.16 Multi-User Db	Local Co-ordinate Reference:	Well CC 697-09-10B
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 697-09-10B	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, SSection 8 T6S R97W			
Site Position:		Northing:	633,966.94 ft	Latitude:	39° 32' 31.685 N
From:	Map	Easting:	1,228,168.67 ft	Longitude:	108° 14' 13.859 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	-1.73 °

Well	CC 697-09-10B					
Well Position	+N/-S	0.00 ft	Northing:	633,919.95 ft	Latitude:	39° 32' 31.195 N
	+E/-W	0.00 ft	Easting:	1,228,080.60 ft	Longitude:	108° 14' 14.965 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	8,411.00 ft

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) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	93.01	

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	
2,167.49	29.51	93.01	2,081.64	-26.05	494.93	1.50	1.50	0.00	93.01	
4,713.51	29.51	93.01	4,297.31	-91.98	1,747.39	0.00	0.00	0.00	0.00	
5,789.13	8.00	93.01	5,309.84	-110.06	2,090.74	2.00	-2.00	0.00	180.00	
8,577.43	8.00	93.01	8,071.00	-130.45	2,478.26	0.00	0.00	0.00	0.00	CC 697-09-10B Target
9,439.82	8.00	93.01	8,925.00	-136.76	2,598.12	0.00	0.00	0.00	0.00	

Database:	EDM 2003.16 Multi-User Db	Local Co-ordinate Reference:	Well CC 697-09-10B
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 697-09-10B	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 1.50									
300.00	1.50	93.01	299.99	-0.07	1.31	1.31	1.50	1.50	0.00
400.00	3.00	93.01	399.91	-0.28	5.23	5.23	1.50	1.50	0.00
500.00	4.50	93.01	499.69	-0.62	11.76	11.77	1.50	1.50	0.00
600.00	6.00	93.01	599.27	-1.10	20.90	20.92	1.50	1.50	0.00
700.00	7.50	93.01	698.57	-1.72	32.63	32.68	1.50	1.50	0.00
800.00	9.00	93.01	797.54	-2.47	46.96	47.03	1.50	1.50	0.00
900.00	10.50	93.01	896.09	-3.36	63.87	63.96	1.50	1.50	0.00
1,000.00	12.00	93.01	994.16	-4.39	83.35	83.47	1.50	1.50	0.00
1,100.00	13.50	93.01	1,091.70	-5.55	105.39	105.54	1.50	1.50	0.00
1,200.00	15.00	93.01	1,188.62	-6.84	129.97	130.15	1.50	1.50	0.00
1,300.00	16.50	93.01	1,284.86	-8.27	157.08	157.30	1.50	1.50	0.00
1,400.00	18.00	93.01	1,380.36	-9.83	186.69	186.95	1.50	1.50	0.00
1,500.00	19.50	93.01	1,475.05	-11.52	218.79	219.09	1.50	1.50	0.00
1,600.00	21.00	93.01	1,568.86	-13.34	253.35	253.70	1.50	1.50	0.00
1,700.00	22.50	93.01	1,661.74	-15.28	290.36	290.76	1.50	1.50	0.00
1,800.00	24.00	93.01	1,753.62	-17.36	329.78	330.23	1.50	1.50	0.00
1,900.00	25.50	93.01	1,844.43	-19.56	371.58	372.10	1.50	1.50	0.00
2,000.00	27.00	93.01	1,934.12	-21.88	415.75	416.32	1.50	1.50	0.00
2,100.00	28.50	93.01	2,022.61	-24.33	462.24	462.88	1.50	1.50	0.00
2,167.49	29.51	93.01	2,081.64	-26.05	494.93	495.61	1.50	1.50	0.00
Start 29.51° Hold At 2167.49' MD									
2,200.00	29.51	93.01	2,109.93	-26.89	510.92	511.63	0.00	0.00	0.00
2,300.00	29.51	93.01	2,196.95	-29.48	560.11	560.89	0.00	0.00	0.00
2,400.00	29.51	93.01	2,283.98	-32.07	609.30	610.15	0.00	0.00	0.00
2,500.00	29.51	93.01	2,371.00	-34.66	658.50	659.41	0.00	0.00	0.00
2,600.00	29.51	93.01	2,458.03	-37.25	707.69	708.67	0.00	0.00	0.00
2,700.00	29.51	93.01	2,545.05	-39.84	756.88	757.93	0.00	0.00	0.00
2,800.00	29.51	93.01	2,632.08	-42.43	806.08	807.19	0.00	0.00	0.00
2,900.00	29.51	93.01	2,719.10	-45.02	855.27	856.45	0.00	0.00	0.00
3,000.00	29.51	93.01	2,806.13	-47.61	904.46	905.71	0.00	0.00	0.00
3,100.00	29.51	93.01	2,893.15	-50.20	953.66	954.98	0.00	0.00	0.00
3,200.00	29.51	93.01	2,980.18	-52.79	1,002.85	1,004.24	0.00	0.00	0.00
3,300.00	29.51	93.01	3,067.20	-55.38	1,052.04	1,053.50	0.00	0.00	0.00
3,400.00	29.51	93.01	3,154.23	-57.97	1,101.23	1,102.76	0.00	0.00	0.00
3,500.00	29.51	93.01	3,241.25	-60.56	1,150.43	1,152.02	0.00	0.00	0.00
3,600.00	29.51	93.01	3,328.28	-63.15	1,199.62	1,201.28	0.00	0.00	0.00
3,700.00	29.51	93.01	3,415.30	-65.74	1,248.81	1,250.54	0.00	0.00	0.00
3,800.00	29.51	93.01	3,502.33	-68.33	1,298.01	1,299.80	0.00	0.00	0.00
3,900.00	29.51	93.01	3,589.35	-70.92	1,347.20	1,349.07	0.00	0.00	0.00
4,000.00	29.51	93.01	3,676.38	-73.51	1,396.39	1,398.33	0.00	0.00	0.00
4,100.00	29.51	93.01	3,763.40	-76.09	1,445.59	1,447.59	0.00	0.00	0.00
4,200.00	29.51	93.01	3,850.43	-78.68	1,494.78	1,496.85	0.00	0.00	0.00
4,300.00	29.51	93.01	3,937.45	-81.27	1,543.97	1,546.11	0.00	0.00	0.00
4,400.00	29.51	93.01	4,024.48	-83.86	1,593.17	1,595.37	0.00	0.00	0.00
4,500.00	29.51	93.01	4,111.50	-86.45	1,642.36	1,644.63	0.00	0.00	0.00
4,600.00	29.51	93.01	4,198.53	-89.04	1,691.55	1,693.89	0.00	0.00	0.00
4,700.00	29.51	93.01	4,285.55	-91.63	1,740.74	1,743.15	0.00	0.00	0.00
4,700.52	29.51	93.01	4,286.00	-91.65	1,741.00	1,743.41	0.00	0.00	0.00
Approx Ft Union									

Database:	EDM 2003.16 Multi-User Db	Local Co-ordinate Reference:	Well CC 697-09-10B
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 697-09-10B	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)
4,713.51	29.51	93.01	4,297.31	-91.98	1,747.39	1,749.81	0.00	0.00	0.00
Start Drop -2.00									
4,800.00	27.78	93.01	4,373.21	-94.16	1,788.80	1,791.27	2.00	-2.00	0.00
4,900.00	25.78	93.01	4,462.47	-96.53	1,833.79	1,836.33	2.00	-2.00	0.00
5,000.00	23.78	93.01	4,553.26	-98.73	1,875.65	1,878.25	2.00	-2.00	0.00
5,100.00	21.78	93.01	4,645.45	-100.77	1,914.32	1,916.97	2.00	-2.00	0.00
5,200.00	19.78	93.01	4,738.94	-102.63	1,949.75	1,952.45	2.00	-2.00	0.00
5,300.00	17.78	93.01	4,833.61	-104.33	1,981.90	1,984.65	2.00	-2.00	0.00
5,400.00	15.78	93.01	4,929.35	-105.84	2,010.73	2,013.52	2.00	-2.00	0.00
5,500.00	13.78	93.01	5,026.03	-107.19	2,036.21	2,039.03	2.00	-2.00	0.00
5,600.00	11.78	93.01	5,123.55	-108.35	2,058.31	2,061.16	2.00	-2.00	0.00
5,700.00	9.78	93.01	5,221.78	-109.33	2,076.99	2,079.86	2.00	-2.00	0.00
5,789.13	8.00	93.01	5,309.84	-110.06	2,090.74	2,093.64	2.00	-2.00	0.00
Start 8.00° Hold At 5789.13' MD									
5,800.00	8.00	93.01	5,320.60	-110.14	2,092.26	2,095.15	0.00	0.00	0.00
5,900.00	8.00	93.01	5,419.63	-110.87	2,106.15	2,109.07	0.00	0.00	0.00
6,000.00	8.00	93.01	5,518.65	-111.60	2,120.05	2,122.99	0.00	0.00	0.00
6,100.00	8.00	93.01	5,617.68	-112.33	2,133.95	2,136.90	0.00	0.00	0.00
6,200.00	8.00	93.01	5,716.71	-113.06	2,147.85	2,150.82	0.00	0.00	0.00
6,300.00	8.00	93.01	5,815.73	-113.79	2,161.75	2,164.74	0.00	0.00	0.00
6,389.13	8.00	93.01	5,904.00	-114.45	2,174.13	2,177.14	0.00	0.00	0.00
Mesaverde									
6,400.00	8.00	93.01	5,914.76	-114.52	2,175.64	2,178.66	0.00	0.00	0.00
6,500.00	8.00	93.01	6,013.79	-115.26	2,189.54	2,192.57	0.00	0.00	0.00
6,600.00	8.00	93.01	6,112.81	-115.99	2,203.44	2,206.49	0.00	0.00	0.00
6,700.00	8.00	93.01	6,211.84	-116.72	2,217.34	2,220.41	0.00	0.00	0.00
6,800.00	8.00	93.01	6,310.87	-117.45	2,231.24	2,234.33	0.00	0.00	0.00
6,900.00	8.00	93.01	6,409.89	-118.18	2,245.13	2,248.24	0.00	0.00	0.00
7,000.00	8.00	93.01	6,508.92	-118.91	2,259.03	2,262.16	0.00	0.00	0.00
7,100.00	8.00	93.01	6,607.95	-119.65	2,272.93	2,276.08	0.00	0.00	0.00
7,200.00	8.00	93.01	6,706.97	-120.38	2,286.83	2,289.99	0.00	0.00	0.00
7,300.00	8.00	93.01	6,806.00	-121.11	2,300.73	2,303.91	0.00	0.00	0.00
7,400.00	8.00	93.01	6,905.03	-121.84	2,314.62	2,317.83	0.00	0.00	0.00
7,500.00	8.00	93.01	7,004.06	-122.57	2,328.52	2,331.75	0.00	0.00	0.00
7,600.00	8.00	93.01	7,103.08	-123.30	2,342.42	2,345.66	0.00	0.00	0.00
7,700.00	8.00	93.01	7,202.11	-124.04	2,356.32	2,359.58	0.00	0.00	0.00
7,800.00	8.00	93.01	7,301.14	-124.77	2,370.22	2,373.50	0.00	0.00	0.00
7,900.00	8.00	93.01	7,400.16	-125.50	2,384.11	2,387.42	0.00	0.00	0.00
8,000.00	8.00	93.01	7,499.19	-126.23	2,398.01	2,401.33	0.00	0.00	0.00
8,100.00	8.00	93.01	7,598.22	-126.96	2,411.91	2,415.25	0.00	0.00	0.00
8,200.00	8.00	93.01	7,697.24	-127.69	2,425.81	2,429.17	0.00	0.00	0.00
8,300.00	8.00	93.01	7,796.27	-128.42	2,439.71	2,443.08	0.00	0.00	0.00
8,400.00	8.00	93.01	7,895.30	-129.16	2,453.61	2,457.00	0.00	0.00	0.00
8,500.00	8.00	93.01	7,994.32	-129.89	2,467.50	2,470.92	0.00	0.00	0.00
8,577.43	8.00	93.01	8,071.00	-130.45	2,478.26	2,481.70	0.00	0.00	0.00
Target = 633714.89, 1230553.80 - CC 697-09-10B Target									
8,600.00	8.00	93.01	8,093.35	-130.62	2,481.40	2,484.84	0.00	0.00	0.00
8,700.00	8.00	93.01	8,192.38	-131.35	2,495.30	2,498.75	0.00	0.00	0.00
8,800.00	8.00	93.01	8,291.40	-132.08	2,509.20	2,512.67	0.00	0.00	0.00
8,900.00	8.00	93.01	8,390.43	-132.81	2,523.10	2,526.59	0.00	0.00	0.00
9,000.00	8.00	93.01	8,489.46	-133.55	2,536.99	2,540.51	0.00	0.00	0.00
9,100.00	8.00	93.01	8,588.48	-134.28	2,550.89	2,554.42	0.00	0.00	0.00
9,200.00	8.00	93.01	8,687.51	-135.01	2,564.79	2,568.34	0.00	0.00	0.00

Database:	EDM 2003.16 Multi-User Db	Local Co-ordinate Reference:	Well CC 697-09-10B
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 697-09-10B	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)
9,300.00	8.00	93.01	8,786.54	-135.74	2,578.69	2,582.26	0.00	0.00	0.00
9,400.00	8.00	93.01	8,885.56	-136.47	2,592.59	2,596.18	0.00	0.00	0.00
9,439.82	8.00	93.01	8,925.00	-136.76	2,598.12	2,601.72	0.00	0.00	0.00
PBHL = 633704.97, 1230673.41									

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 697-09-10B Target	-8.00	93.01	8,071.00	-130.45	2,478.26	633,714.89	1,230,553.80	39° 32' 29.904 N	108° 13' 43.330 W
- plan hits target center									
- Circle (radius 50.00)									

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,700.52	4,286.00	Approx Ft Union		0.00	
6,389.13	5,904.00	Mesaverde		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 1.50
2,167.49	2,081.64	-26.05	494.93	Start 29.51° Hold At 2167.49' MD
4,713.51	4,297.31	-91.98	1,747.39	Start Drop -2.00
5,789.13	5,309.84	-110.06	2,090.74	Start 8.00° Hold At 5789.13' MD
8,577.43	8,071.00	-130.45	2,478.26	Target = 633714.89, 1230553.80
9,439.82	8,925.00	-136.76	2,598.12	PBHL = 633704.97, 1230673.41