

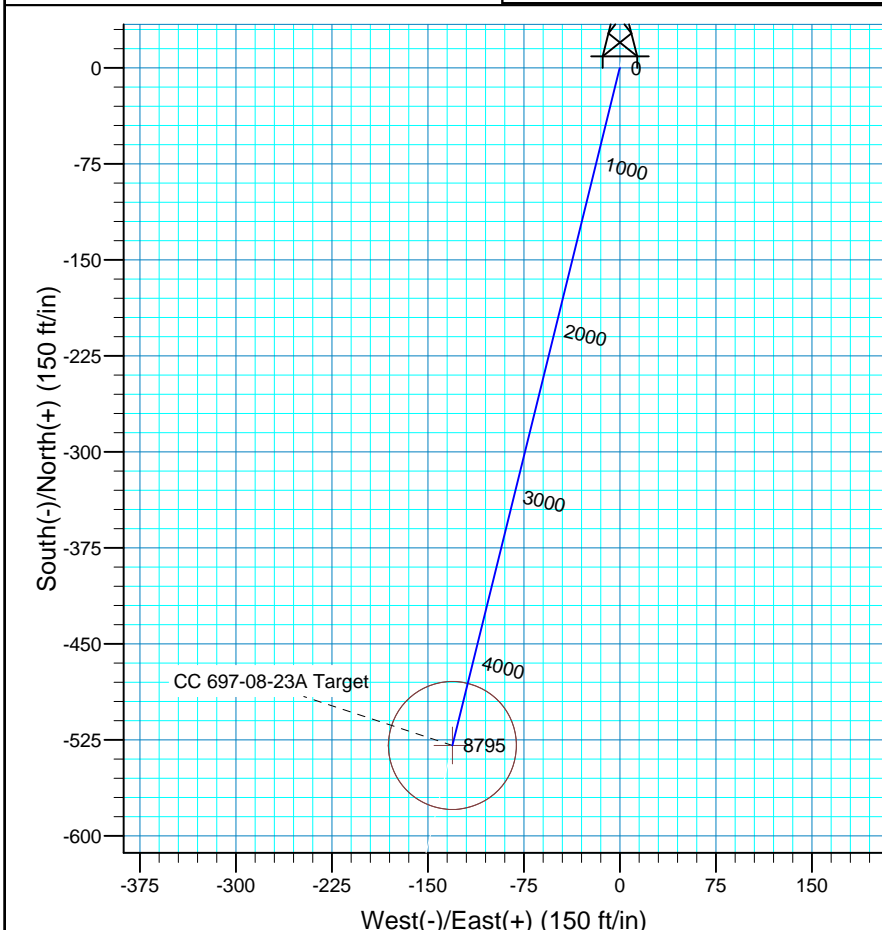
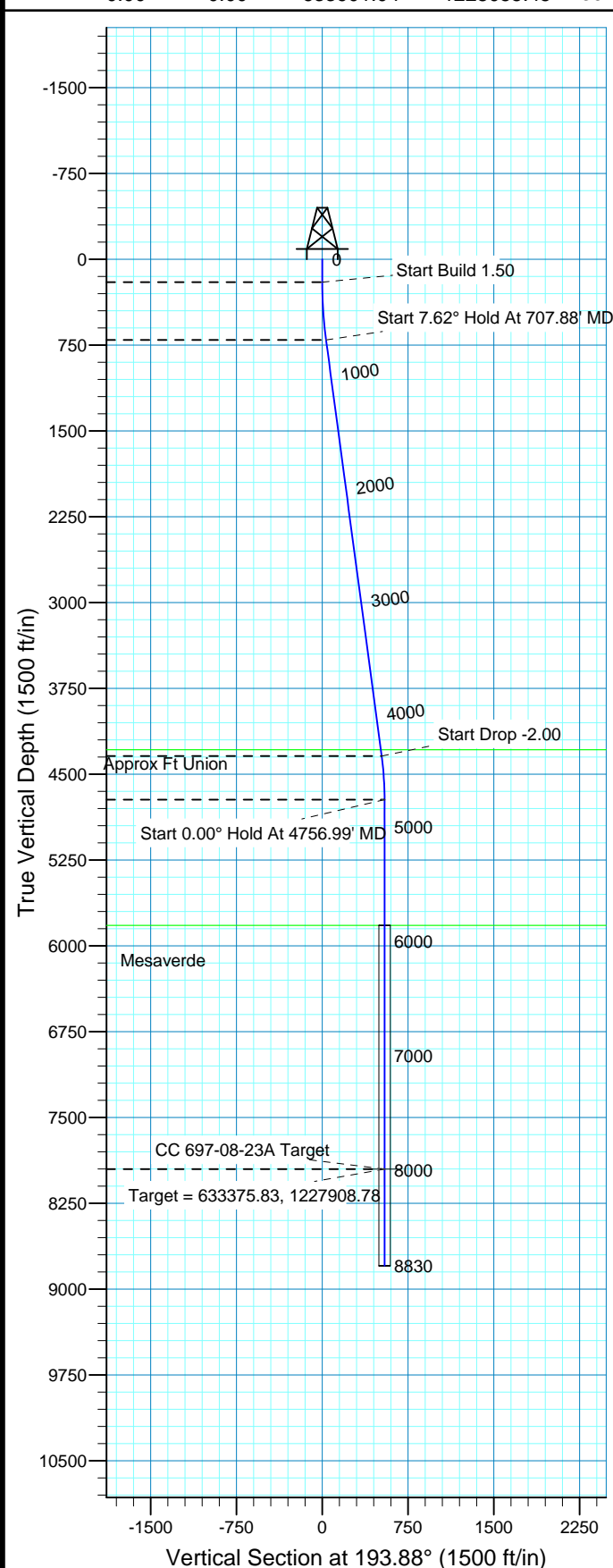
WELL DETAILS: CC 697-08-23A

GL 8411' & RKB 30' @ 8441.00ft 8411.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 633901.04 1228055.45 39° 32' 31.001 N 108° 14' 15.279 W



Azimuths to True North
Magnetic North: 10.79°

Magnetic Field
Strength: 52514.9snT
Dip Angle: 65.81°
Date: 2008/10/15
Model: IGRF2005-10



FORMATION TOP DETAILS

TVDPath MDPATH Formation
4286.00 4319.37 Approx Ft Union
5822.00 5856.99 Mesaverde

Plan: Plan #2 (CC 697-08-23A/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	707.88	7.62	193.88	706.39	-32.73	-8.09	1.50	193.88	33.71	
4	4376.08	7.62	193.88	4342.21	-504.84	-124.71	0.00	0.00	520.01	
5	4756.99	0.00	0.00	4722.00	-529.39	-130.77	2.00	180.00	545.30	
6	7986.99	0.00	0.00	7952.00	-529.39	-130.77	0.00	0.00	545.30	
7	8829.99	0.00	0.00	8795.00	-529.39	-130.77	0.00	0.00	545.30	CC 697-08-23A Target



OXY USA RMAT

**Garfield County, CO NAD27
Cascade Creek 608-41 Pad
CC 697-08-23A
OH**

Plan: Plan #2

Standard Planning Report

24 June, 2010



Database:	EDM 2003.16 Multi-User Db	Local Co-ordinate Reference:	Well CC 697-08-23A
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 697-08-23A	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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 697-08-23A,		
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	2008/10/15	10.79	65.81	52,515

Design	Plan #2				
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	193.88	

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	
707.88	7.62	193.88	706.39	-32.73	-8.09	1.50	1.50	0.00	193.88	
4,376.08	7.62	193.88	4,342.21	-504.84	-124.71	0.00	0.00	0.00	0.00	
4,756.99	0.00	0.00	4,722.00	-529.39	-130.77	2.00	-2.00	0.00	180.00	
7,986.99	0.00	0.00	7,952.00	-529.39	-130.77	0.00	0.00	0.00	0.00	CC 697-08-23A Target
8,829.99	0.00	0.00	8,795.00	-529.39	-130.77	0.00	0.00	0.00	0.00	

Database:	EDM 2003.16 Multi-User Db	Local Co-ordinate Reference:	Well CC 697-08-23A
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 697-08-23A	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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	193.88	299.99	-1.27	-0.31	1.31	1.50	1.50	0.00
400.00	3.00	193.88	399.91	-5.08	-1.26	5.23	1.50	1.50	0.00
500.00	4.50	193.88	499.69	-11.43	-2.82	11.77	1.50	1.50	0.00
600.00	6.00	193.88	599.27	-20.31	-5.02	20.92	1.50	1.50	0.00
700.00	7.50	193.88	698.57	-31.72	-7.84	32.68	1.50	1.50	0.00
707.88	7.62	193.88	706.39	-32.73	-8.09	33.71	1.50	1.50	0.00
Start 7.62° Hold At 707.88' MD									
800.00	7.62	193.88	797.69	-44.59	-11.01	45.93	0.00	0.00	0.00
900.00	7.62	193.88	896.81	-57.46	-14.19	59.18	0.00	0.00	0.00
1,000.00	7.62	193.88	995.93	-70.33	-17.37	72.44	0.00	0.00	0.00
1,100.00	7.62	193.88	1,095.04	-83.20	-20.55	85.70	0.00	0.00	0.00
1,200.00	7.62	193.88	1,194.16	-96.07	-23.73	98.96	0.00	0.00	0.00
1,300.00	7.62	193.88	1,293.28	-108.94	-26.91	112.21	0.00	0.00	0.00
1,400.00	7.62	193.88	1,392.40	-121.81	-30.09	125.47	0.00	0.00	0.00
1,500.00	7.62	193.88	1,491.51	-134.68	-33.27	138.73	0.00	0.00	0.00
1,600.00	7.62	193.88	1,590.63	-147.55	-36.45	151.98	0.00	0.00	0.00
1,700.00	7.62	193.88	1,689.75	-160.42	-39.63	165.24	0.00	0.00	0.00
1,800.00	7.62	193.88	1,788.87	-173.29	-42.81	178.50	0.00	0.00	0.00
1,900.00	7.62	193.88	1,887.98	-186.16	-45.99	191.76	0.00	0.00	0.00
2,000.00	7.62	193.88	1,987.10	-199.03	-49.17	205.01	0.00	0.00	0.00
2,100.00	7.62	193.88	2,086.22	-211.90	-52.35	218.27	0.00	0.00	0.00
2,200.00	7.62	193.88	2,185.33	-224.77	-55.52	231.53	0.00	0.00	0.00
2,300.00	7.62	193.88	2,284.45	-237.64	-58.70	244.78	0.00	0.00	0.00
2,400.00	7.62	193.88	2,383.57	-250.51	-61.88	258.04	0.00	0.00	0.00
2,500.00	7.62	193.88	2,482.69	-263.38	-65.06	271.30	0.00	0.00	0.00
2,600.00	7.62	193.88	2,581.80	-276.25	-68.24	284.56	0.00	0.00	0.00
2,700.00	7.62	193.88	2,680.92	-289.12	-71.42	297.81	0.00	0.00	0.00
2,800.00	7.62	193.88	2,780.04	-301.99	-74.60	311.07	0.00	0.00	0.00
2,900.00	7.62	193.88	2,879.16	-314.86	-77.78	324.33	0.00	0.00	0.00
3,000.00	7.62	193.88	2,978.27	-327.73	-80.96	337.58	0.00	0.00	0.00
3,100.00	7.62	193.88	3,077.39	-340.60	-84.14	350.84	0.00	0.00	0.00
3,200.00	7.62	193.88	3,176.51	-353.47	-87.32	364.10	0.00	0.00	0.00
3,300.00	7.62	193.88	3,275.63	-366.34	-90.50	377.36	0.00	0.00	0.00
3,400.00	7.62	193.88	3,374.74	-379.21	-93.68	390.61	0.00	0.00	0.00
3,500.00	7.62	193.88	3,473.86	-392.08	-96.86	403.87	0.00	0.00	0.00
3,600.00	7.62	193.88	3,572.98	-404.95	-100.03	417.13	0.00	0.00	0.00
3,700.00	7.62	193.88	3,672.09	-417.82	-103.21	430.38	0.00	0.00	0.00
3,800.00	7.62	193.88	3,771.21	-430.70	-106.39	443.64	0.00	0.00	0.00
3,900.00	7.62	193.88	3,870.33	-443.57	-109.57	456.90	0.00	0.00	0.00
4,000.00	7.62	193.88	3,969.45	-456.44	-112.75	470.16	0.00	0.00	0.00
4,100.00	7.62	193.88	4,068.56	-469.31	-115.93	483.41	0.00	0.00	0.00
4,200.00	7.62	193.88	4,167.68	-482.18	-119.11	496.67	0.00	0.00	0.00
4,300.00	7.62	193.88	4,266.80	-495.05	-122.29	509.93	0.00	0.00	0.00
4,319.37	7.62	193.88	4,286.00	-497.54	-122.91	512.50	0.00	0.00	0.00
Approx Ft Union									
4,376.08	7.62	193.88	4,342.21	-504.84	-124.71	520.01	0.00	0.00	0.00
Start Drop -2.00									
4,400.00	7.14	193.88	4,365.93	-507.82	-125.45	523.09	2.00	-2.00	0.00
4,500.00	5.14	193.88	4,465.35	-518.20	-128.01	533.78	2.00	-2.00	0.00

Database:	EDM 2003.16 Multi-User Db	Local Co-ordinate Reference:	Well CC 697-08-23A
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 697-08-23A	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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	3.14	193.88	4,565.08	-525.21	-129.74	541.00	2.00	-2.00	0.00
4,700.00	1.14	193.88	4,665.01	-528.84	-130.64	544.73	2.00	-2.00	0.00
4,756.99	0.00	0.00	4,722.00	-529.39	-130.77	545.30	2.00	-2.00	0.00
Start 0.00° Hold At 4756.99' MD									
4,800.00	0.00	0.00	4,765.01	-529.39	-130.77	545.30	0.00	0.00	0.00
4,900.00	0.00	0.00	4,865.01	-529.39	-130.77	545.30	0.00	0.00	0.00
5,000.00	0.00	0.00	4,965.01	-529.39	-130.77	545.30	0.00	0.00	0.00
5,100.00	0.00	0.00	5,065.01	-529.39	-130.77	545.30	0.00	0.00	0.00
5,200.00	0.00	0.00	5,165.01	-529.39	-130.77	545.30	0.00	0.00	0.00
5,300.00	0.00	0.00	5,265.01	-529.39	-130.77	545.30	0.00	0.00	0.00
5,400.00	0.00	0.00	5,365.01	-529.39	-130.77	545.30	0.00	0.00	0.00
5,500.00	0.00	0.00	5,465.01	-529.39	-130.77	545.30	0.00	0.00	0.00
5,600.00	0.00	0.00	5,565.01	-529.39	-130.77	545.30	0.00	0.00	0.00
5,700.00	0.00	0.00	5,665.01	-529.39	-130.77	545.30	0.00	0.00	0.00
5,800.00	0.00	0.00	5,765.01	-529.39	-130.77	545.30	0.00	0.00	0.00
5,856.99	0.00	0.00	5,822.00	-529.39	-130.77	545.30	0.00	0.00	0.00
Mesaverde									
5,900.00	0.00	0.00	5,865.01	-529.39	-130.77	545.30	0.00	0.00	0.00
6,000.00	0.00	0.00	5,965.01	-529.39	-130.77	545.30	0.00	0.00	0.00
6,100.00	0.00	0.00	6,065.01	-529.39	-130.77	545.30	0.00	0.00	0.00
6,200.00	0.00	0.00	6,165.01	-529.39	-130.77	545.30	0.00	0.00	0.00
6,300.00	0.00	0.00	6,265.01	-529.39	-130.77	545.30	0.00	0.00	0.00
6,400.00	0.00	0.00	6,365.01	-529.39	-130.77	545.30	0.00	0.00	0.00
6,500.00	0.00	0.00	6,465.01	-529.39	-130.77	545.30	0.00	0.00	0.00
6,600.00	0.00	0.00	6,565.01	-529.39	-130.77	545.30	0.00	0.00	0.00
6,700.00	0.00	0.00	6,665.01	-529.39	-130.77	545.30	0.00	0.00	0.00
6,800.00	0.00	0.00	6,765.01	-529.39	-130.77	545.30	0.00	0.00	0.00
6,900.00	0.00	0.00	6,865.01	-529.39	-130.77	545.30	0.00	0.00	0.00
7,000.00	0.00	0.00	6,965.01	-529.39	-130.77	545.30	0.00	0.00	0.00
7,100.00	0.00	0.00	7,065.01	-529.39	-130.77	545.30	0.00	0.00	0.00
7,200.00	0.00	0.00	7,165.01	-529.39	-130.77	545.30	0.00	0.00	0.00
7,300.00	0.00	0.00	7,265.01	-529.39	-130.77	545.30	0.00	0.00	0.00
7,400.00	0.00	0.00	7,365.01	-529.39	-130.77	545.30	0.00	0.00	0.00
7,500.00	0.00	0.00	7,465.01	-529.39	-130.77	545.30	0.00	0.00	0.00
7,600.00	0.00	0.00	7,565.01	-529.39	-130.77	545.30	0.00	0.00	0.00
7,700.00	0.00	0.00	7,665.01	-529.39	-130.77	545.30	0.00	0.00	0.00
7,800.00	0.00	0.00	7,765.01	-529.39	-130.77	545.30	0.00	0.00	0.00
7,900.00	0.00	0.00	7,865.01	-529.39	-130.77	545.30	0.00	0.00	0.00
7,986.99	0.00	0.00	7,952.00	-529.39	-130.77	545.30	0.00	0.00	0.00
Target = 633375.83, 1227908.78 - CC 697-08-23A Target									
8,000.00	0.00	0.00	7,965.01	-529.39	-130.77	545.30	0.00	0.00	0.00
8,100.00	0.00	0.00	8,065.01	-529.39	-130.77	545.30	0.00	0.00	0.00
8,200.00	0.00	0.00	8,165.01	-529.39	-130.77	545.30	0.00	0.00	0.00
8,300.00	0.00	0.00	8,265.01	-529.39	-130.77	545.30	0.00	0.00	0.00
8,400.00	0.00	0.00	8,365.01	-529.39	-130.77	545.30	0.00	0.00	0.00
8,500.00	0.00	0.00	8,465.01	-529.39	-130.77	545.30	0.00	0.00	0.00
8,600.00	0.00	0.00	8,565.01	-529.39	-130.77	545.30	0.00	0.00	0.00
8,700.00	0.00	0.00	8,665.01	-529.39	-130.77	545.30	0.00	0.00	0.00
8,800.00	0.00	0.00	8,765.01	-529.39	-130.77	545.30	0.00	0.00	0.00
8,829.99	0.00	0.00	8,795.00	-529.39	-130.77	545.30	0.00	0.00	0.00
PBHL = 633375.83, 1227908.78									

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Project:	Garfield County, CO NAD27	MD Reference:	GL 8411' & RKB 30' @ 8441.00ft
Site:	Cascade Creek 608-41 Pad	North Reference:	True
Well:	CC 697-08-23A	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
CC 697-08-23A Target	0.00	0.00	7,952.00	-529.39	-130.77	633,375.83	1,227,908.78	39° 32' 25.768 N	108° 14' 16.948 W
- plan hits target center									
- Circle (radius 50.00)									

Formations					
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(ft)	(ft)			(°)	(°)
4,319.37	4,286.00	Approx Ft Union		0.00	
5,856.99	5,822.00	Mesaverde		0.00	

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
200.00	200.00	0.00	0.00	Start Build 1.50
707.88	706.39	-32.73	-8.09	Start 7.62° Hold At 707.88' MD
4,376.08	4,342.21	-504.84	-124.71	Start Drop -2.00
4,756.99	4,722.00	-529.39	-130.77	Start 0.00° Hold At 4756.99' MD
7,986.99	7,952.00	-529.39	-130.77	Target = 633375.83, 1227908.78
8,829.99	8,795.00	-529.39	-130.77	PBHL = 633375.83, 1227908.78