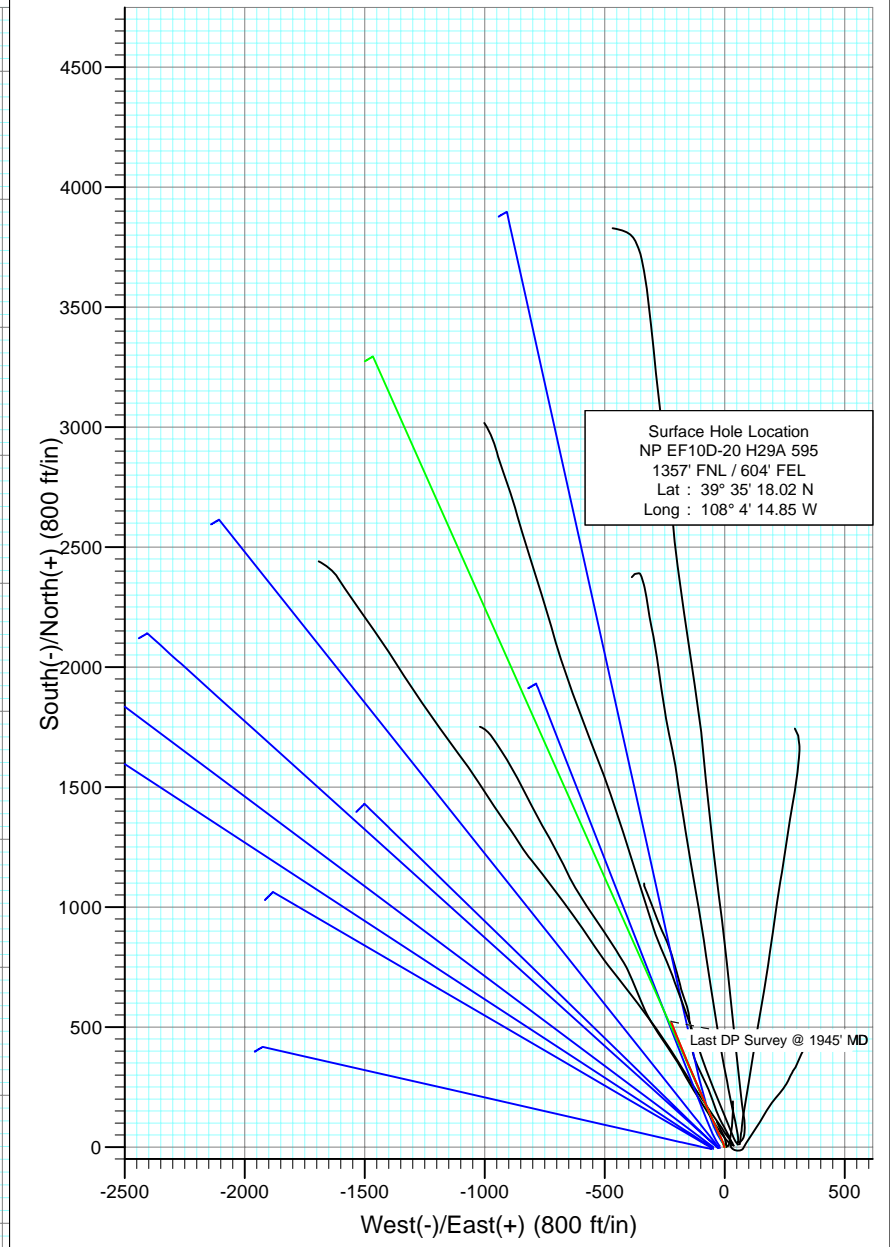
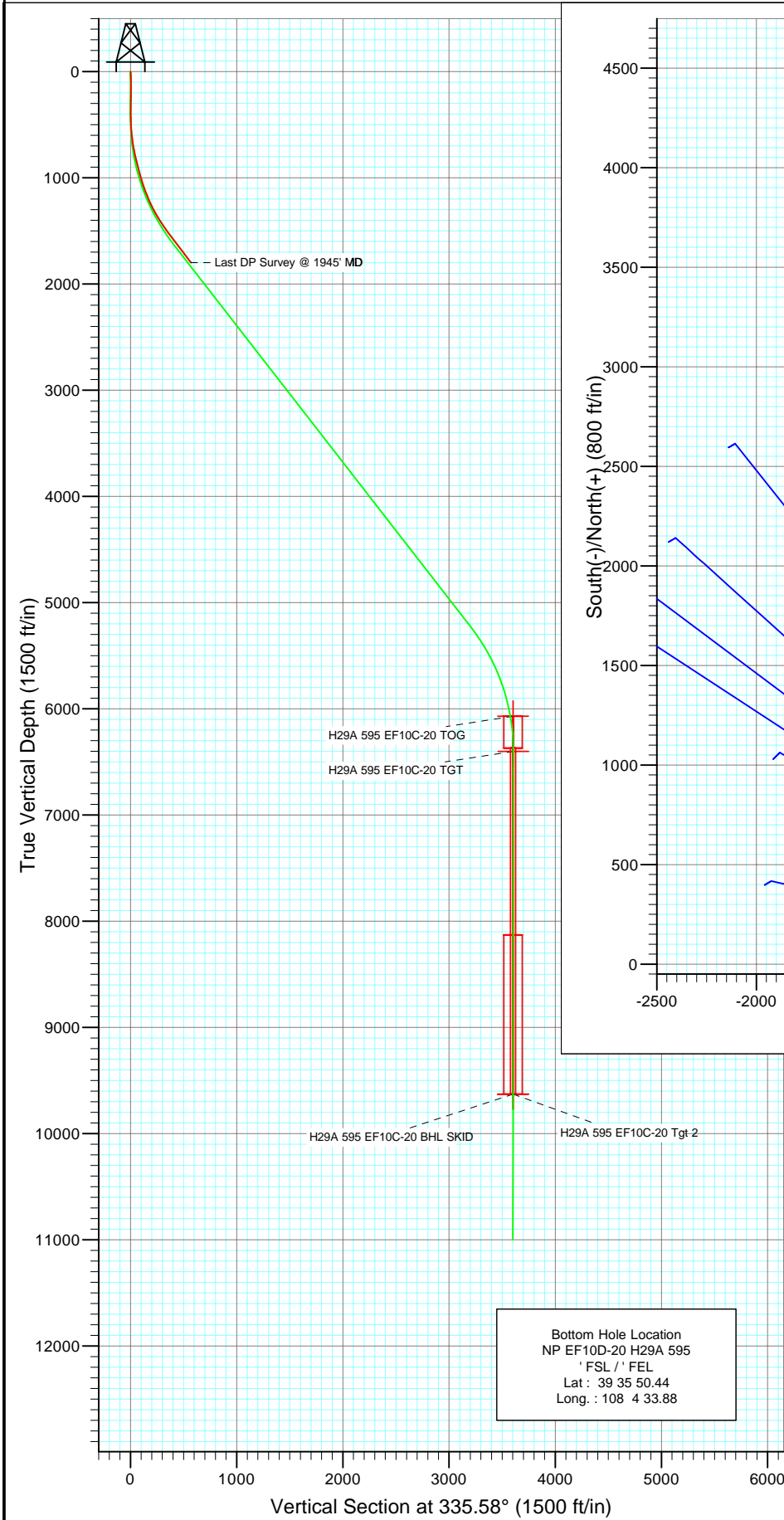




Project: North Piceance
 Site: H29A 595 Pad (SENE S29-T5S-R95W)
 Well: NP EF10D-20 H29A 595
 Wellbore: DD
 Design: Final SH



Azimuths to True North
 Magnetic North: 10.69°

Magnetic Field
 Strength: 52556.0snT
 Dip Angle: 65.88°
 Date: 1/18/2009
 Model: IGRF200510

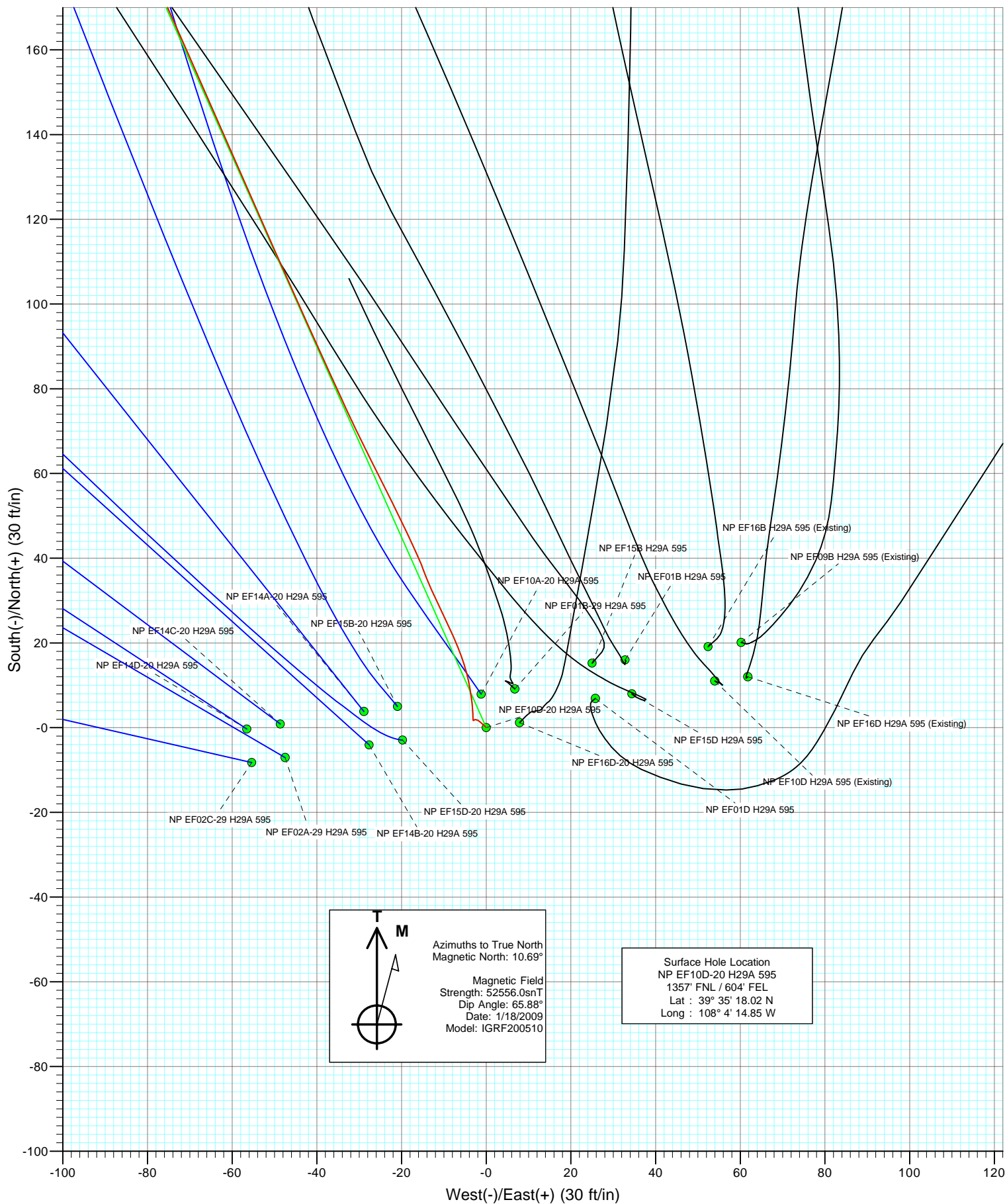
DESIGN DETAILS: DD

95028; LR
 KBE @ 6259.0ft (Patterson 306)

Target	Azimuth	Origin	N/S	E/W	From TVD
No Target (Freehand)	335.58	Slot	0.0	0.0	0.0



Project: North Piceance
Site: H29A 595 Pad (SENE S29-T5S-R95W)
Well: NP EF10D-20 H29A 595
Wellbore: DD
Design: DD



Cathedral Energy Services

Survey Report

Company: EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference: Well NP EF10D-20 H29A 595
Project: North Piceance	TVD Reference: KBE @ 6259.0ft (Patterson 306)
Site: H29A 595 Pad (SENE S29-T5S-R95W)	MD Reference: KBE @ 6259.0ft (Patterson 306)
Well: NP EF10D-20 H29A 595	North Reference: True
Wellbore: DD	Survey Calculation Method: Minimum Curvature
Design: DD	Database: EDM 2003.21 US Multi Users DB

Project North Piceance		
Map System: US State Plane 1983	System Datum: Mean Sea Level	
Geo Datum: North American Datum 1983		
Map Zone: Colorado Central Zone		

Site H29A 595 Pad (SENE S29-T5S-R95W)					
Site Position:	Northing: 1,649,445.22 ft	Latitude: 39° 35' 18.14 N			
From: Lat/Long	Easting: 2,275,636.58 ft	Longitude: 108° 4' 14.06 W			
Position Uncertainty: 0.0 ft	Slot Radius: 0.000 in	Grid Convergence: -1.62 °			

Well NP EF10D-20 H29A 595					
Well Position	+N/-S 0.0 ft	Northing: 1,649,434.97 ft	Latitude: 39° 35' 18.02 N		
	+E/-W 0.0 ft	Easting: 2,275,574.48 ft	Longitude: 108° 4' 14.85 W		
Position Uncertainty	0.0 ft	Wellhead Elevation: ft	Ground Level: 6,237.0 ft		

Wellbore DD					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	1/18/2009	10.69	65.88	52,556

Design DD					
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	335.58	

Survey Program Date 1/20/2009					
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
232.0	1,945.0	Survey #1 (DD)	MWD	Geolink MWD	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00		
232.0	0.80	314.00	232.0	1.1	-1.2	1.5	0.34	0.34		
293.0	1.00	302.30	293.0	1.7	-1.9	2.3	0.44	0.33		
355.0	0.50	255.40	355.0	1.9	-2.6	2.8	1.21	-0.81		
416.0	0.40	211.30	416.0	1.7	-3.0	2.8	0.57	-0.16		
508.0	2.50	0.10	508.0	3.4	-3.2	4.4	3.10	2.28		
599.0	6.40	349.60	598.7	10.4	-4.1	11.1	4.36	4.29		
691.0	9.70	335.60	689.8	22.5	-8.2	23.9	4.15	3.59		
783.0	12.10	336.40	780.1	38.4	-15.3	41.3	2.61	2.61		
874.0	13.70	332.90	868.8	56.7	-24.0	61.6	1.96	1.76		
966.0	15.80	335.10	957.8	77.8	-34.2	85.0	2.36	2.28		
1,058.0	18.20	336.10	1,045.7	102.3	-45.3	111.9	2.63	2.61		
1,150.0	20.30	336.10	1,132.6	130.0	-57.6	142.2	2.28	2.28		

Cathedral Energy Services

Survey Report

Company: EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference: Well NP EF10D-20 H29A 595
Project: North Piceance	TVD Reference: KBE @ 6259.0ft (Patterson 306)
Site: H29A 595 Pad (SENE S29-T5S-R95W)	MD Reference: KBE @ 6259.0ft (Patterson 306)
Well: NP EF10D-20 H29A 595	North Reference: True
Wellbore: DD	Survey Calculation Method: Minimum Curvature
Design: DD	Database: EDM 2003.21 US Multi Users DB

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
1,241.0	24.30	336.40	1,216.8	161.6	-71.5	176.7	4.40	4.40	
1,333.0	27.80	336.00	1,299.4	198.6	-87.8	217.1	3.81	3.80	
1,425.0	31.00	336.50	1,379.5	239.9	-106.0	262.3	3.49	3.48	
1,516.0	34.40	336.30	1,456.1	285.0	-125.7	311.4	3.74	3.74	
1,608.0	37.10	337.10	1,530.8	334.3	-146.9	365.2	2.98	2.93	
1,700.0	37.70	337.90	1,603.8	385.9	-168.3	421.0	0.84	0.65	
1,792.0	37.20	337.90	1,676.9	437.8	-189.4	476.9	0.54	-0.54	
1,883.0	36.80	338.40	1,749.6	488.6	-209.8	531.6	0.55	-0.44	
1,945.0	37.20	338.60	1,799.1	523.3	-223.4	568.9	0.67	0.65	Last DP Survey @ 1945' MD

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
H29A 595 EF10C-20 TC - hit/miss target - Shape	0.00	0.00	6,400.0	3,294.2	-1,465.7	1,652,769.33	2,274,202.57	39° 35' 50.58 N	108° 4' 33.57 W
- survey misses target center by 5512.7ft at 1945.0ft MD (1799.1 TVD, 523.3 N, -223.4 E)									
- Point									
H29A 595 EF10C-20 BF - hit/miss target - Shape	0.00	0.00	9,629.0	3,280.2	-1,489.7	1,652,756.00	2,274,178.22	39° 35' 50.44 N	108° 4' 33.88 W
- survey misses target center by 8397.1ft at 1945.0ft MD (1799.1 TVD, 523.3 N, -223.4 E)									
- Rectangle (sides W30.0 H50.0 D0.0)									
H29A 595 EF10C-20 TC - hit/miss target - Shape	0.00	0.00	6,069.0	3,280.2	-1,489.7	1,652,756.00	2,274,178.22	39° 35' 50.44 N	108° 4' 33.88 W
- survey misses target center by 5237.9ft at 1945.0ft MD (1799.1 TVD, 523.3 N, -223.4 E)									
- Rectangle (sides W100.0 H200.0 D300.0)									
H29A 595 EF10C-20 Tg - hit/miss target - Shape	0.00	0.00	9,629.0	3,280.2	-1,489.7	1,652,756.00	2,274,178.22	39° 35' 50.44 N	108° 4' 33.88 W
- survey misses target center by 8397.1ft at 1945.0ft MD (1799.1 TVD, 523.3 N, -223.4 E)									
- Rectangle (sides W100.0 H200.0 D0.0)									

Survey Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,945.0	1,799.1	523.3	-223.4	Last DP Survey @ 1945' MD

Checked By: _____ Approved By: _____ Date: _____