



Site: Sec 24-T9S-R95W (Hawxhurst 24-9 Pad)
Well: Hawxhurst 25-01B
Wellbore: Wellbore #1
Design: Plan #1

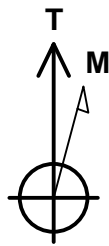
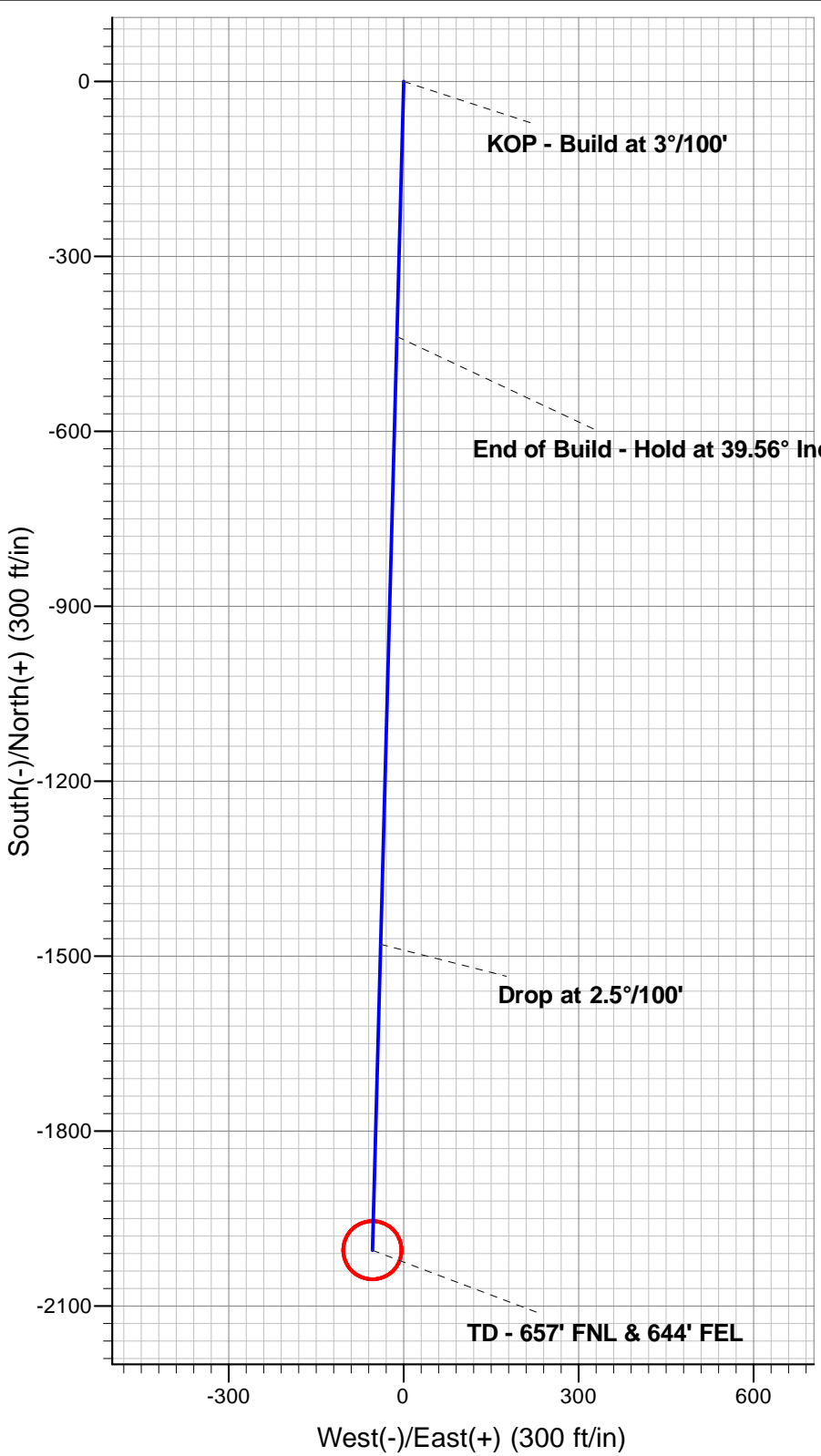
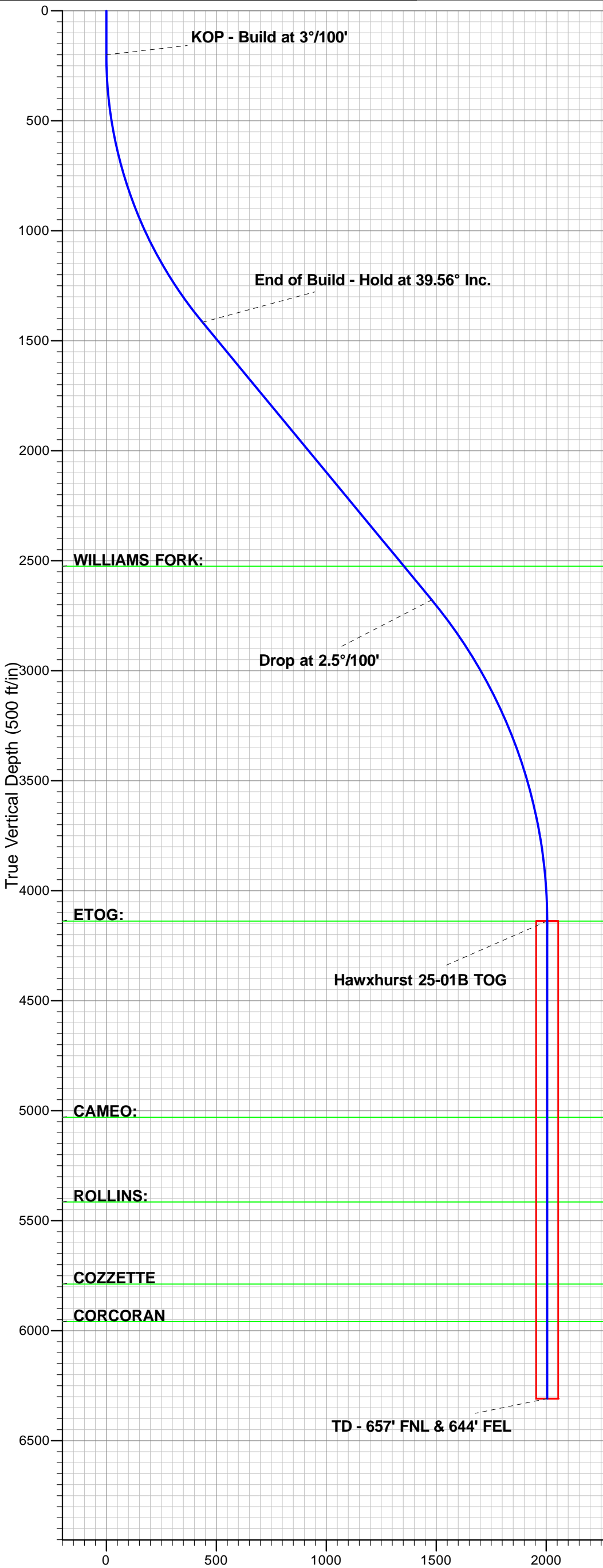
Reference Details - WELL CENTRE
Geodetic System: Universal Transverse Mercator
Ellipsoid: GRS 1980
Zone: Zone 13N (108 W to 102 W)
Northing: 14270589.36
Easting: 809438.27
Latitude: 39.25944
Longitude: -107.93552
Grid Convergence: 1.86° East
Ground Elevation: 6354.00
KB Elevation: WELL @ 6375.00ft (Original Well Elev)



Departure
Energy Services (US) LP

Denver, Colorado
Phone: 303.542.2000

Casper, Wyoming
Phone: 307.265.2231
Fax: 307.472.5064
www.departureus.com



Azimuths to True North
Magnetic North: 10.28°

Magnetic Field
Strength: 52118.5snT
Dip Angle: 65.55°
Date: 07/11/2011
Model: IGRF2010



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Laramie Energy II, LLC

Mesa County, Colorado

Sec 24-T9S-R95W

Hawxhurst 25-01B

S- Well

Well Plan #1

Job Number: TBA

Well Plan Report

July 11, 2011

Database:	EDM Depart	Local Co-ordinate Reference:	Well Hawxhurst 25-01B
Company:	Laramie Energy II, LLC	TVD Reference:	WELL @ 6375.00ft (Original Well Elev)
Project:	MESA, CO	MD Reference:	WELL @ 6375.00ft (Original Well Elev)
Site:	Sec 24-T9S-R95W (Hawxhurst 24-9 Pad)	North Reference:	True
Well:	Hawxhurst 25-01B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Project	MESA, CO		
Map System:	Universal Transverse Mercator	System Datum:	Mean Sea Level
Geo Datum:	NAD83 Colorado - HARN		
Map Zone:	Zone 13N (108 W to 102 W)		

Site						Sec 24-T9S-R95W (Hawxhurst 24-9 Pad)											
Site Position:			Northing:			14,270,583.65 ft			Latitude:			39.25942					
From:			Lat/Long			Easting:			809,423.35 ft			Longitude:			-107.93557		
Position Uncertainty:			0.00 ft			Slot Radius:			13.200 in			Grid Convergence:			-1.86		

Well	Hawxhurst 25-01B					
Well Position	+N/-S	6.19 ft	Northing:	14,270,589.36 ft	Latitude:	39.25944
	+E/-W	14.73 ft	Easting:	809,438.27 ft	Longitude:	-107.93552
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	6,354.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	07/11/11	10.29	65.55	52,119

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	181.54

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	
1,518.60	39.56	181.54	1,416.31	-437.24	-11.74	3.00	3.00	0.00	181.54	
3,155.63	39.56	181.54	2,678.43	-1,479.42	-39.73	0.00	0.00	0.00	0.00	
4,737.95	0.00	0.00	4,138.00	-2,004.10	-53.82	2.50	-2.50	0.00	180.00	Hawxhurst 25-01B TC
6,908.95	0.00	0.00	6,309.00	-2,004.10	-53.82	0.00	0.00	0.00	0.00	Hawxhurst 25-01B TC

Database:	EDM Depart	Local Co-ordinate Reference:	Well Hawxhurst 25-01B
Company:	Laramie Energy II, LLC	TVD Reference:	WELL @ 6375.00ft (Original Well Elev)
Project:	MESA, CO	MD Reference:	WELL @ 6375.00ft (Original Well Elev)
Site:	Sec 24-T9S-R95W (Hawxhurst 24-9 Pad)	North Reference:	True
Well:	Hawxhurst 25-01B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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)
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP - Build at 3°/100'									
300.00	3.00	181.54	299.95	-2.62	-0.07	2.62	3.00	3.00	0.00
400.00	6.00	181.54	399.63	-10.46	-0.28	10.46	3.00	3.00	0.00
500.00	9.00	181.54	498.77	-23.51	-0.63	23.51	3.00	3.00	0.00
600.00	12.00	181.54	597.08	-41.72	-1.12	41.74	3.00	3.00	0.00
700.00	15.00	181.54	694.31	-65.05	-1.75	65.08	3.00	3.00	0.00
800.00	18.00	181.54	790.18	-93.44	-2.51	93.48	3.00	3.00	0.00
900.00	21.00	181.54	884.43	-126.81	-3.41	126.85	3.00	3.00	0.00
1,000.00	24.00	181.54	976.81	-165.06	-4.43	165.12	3.00	3.00	0.00
1,100.00	27.00	181.54	1,067.06	-208.09	-5.59	208.16	3.00	3.00	0.00
1,200.00	30.00	181.54	1,154.93	-255.78	-6.87	255.87	3.00	3.00	0.00
1,300.00	33.00	181.54	1,240.18	-308.01	-8.27	308.12	3.00	3.00	0.00
1,400.00	36.00	181.54	1,322.59	-364.62	-9.79	364.75	3.00	3.00	0.00
1,500.00	39.00	181.54	1,401.91	-425.47	-11.43	425.62	3.00	3.00	0.00
1,518.60	39.56	181.54	1,416.31	-437.24	-11.74	437.40	3.00	3.00	0.00
End of Build - Hold at 39.56° Inc.									
1,600.00	39.56	181.54	1,479.07	-489.06	-13.13	489.24	0.00	0.00	0.00
1,700.00	39.56	181.54	1,556.17	-552.72	-14.84	552.92	0.00	0.00	0.00
1,800.00	39.56	181.54	1,633.27	-616.39	-16.55	616.61	0.00	0.00	0.00
1,900.00	39.56	181.54	1,710.36	-680.05	-18.26	680.29	0.00	0.00	0.00
2,000.00	39.56	181.54	1,787.46	-743.71	-19.97	743.98	0.00	0.00	0.00
2,100.00	39.56	181.54	1,864.56	-807.37	-21.68	807.67	0.00	0.00	0.00
2,200.00	39.56	181.54	1,941.66	-871.04	-23.39	871.35	0.00	0.00	0.00
2,300.00	39.56	181.54	2,018.76	-934.70	-25.10	935.04	0.00	0.00	0.00
2,400.00	39.56	181.54	2,095.85	-998.36	-26.81	998.72	0.00	0.00	0.00
2,500.00	39.56	181.54	2,172.95	-1,062.03	-28.52	1,062.41	0.00	0.00	0.00
2,600.00	39.56	181.54	2,250.05	-1,125.69	-30.23	1,126.09	0.00	0.00	0.00
2,700.00	39.56	181.54	2,327.15	-1,189.35	-31.94	1,189.78	0.00	0.00	0.00
2,800.00	39.56	181.54	2,404.25	-1,253.01	-33.65	1,253.47	0.00	0.00	0.00
2,900.00	39.56	181.54	2,481.34	-1,316.68	-35.36	1,317.15	0.00	0.00	0.00
2,956.62	39.56	181.54	2,525.00	-1,352.73	-36.33	1,353.21	0.00	0.00	0.00
WILLIAMS FORK:									
3,000.00	39.56	181.54	2,558.44	-1,380.34	-37.07	1,380.84	0.00	0.00	0.00
3,100.00	39.56	181.54	2,635.54	-1,444.00	-38.78	1,444.52	0.00	0.00	0.00
3,155.63	39.56	181.54	2,678.43	-1,479.42	-39.73	1,479.95	0.00	0.00	0.00
Drop at 2.5°/100'									
3,200.00	38.45	181.54	2,712.91	-1,507.33	-40.48	1,507.88	2.50	-2.50	0.00
3,300.00	35.95	181.54	2,792.56	-1,567.76	-42.10	1,568.33	2.50	-2.50	0.00
3,400.00	33.45	181.54	2,874.77	-1,624.67	-43.63	1,625.25	2.50	-2.50	0.00
3,500.00	30.95	181.54	2,959.38	-1,677.93	-45.06	1,678.53	2.50	-2.50	0.00
3,600.00	28.45	181.54	3,046.24	-1,727.45	-46.39	1,728.07	2.50	-2.50	0.00
3,700.00	25.95	181.54	3,135.17	-1,773.14	-47.62	1,773.78	2.50	-2.50	0.00
3,800.00	23.45	181.54	3,226.02	-1,814.90	-48.74	1,815.56	2.50	-2.50	0.00
3,900.00	20.95	181.54	3,318.60	-1,852.67	-49.75	1,853.34	2.50	-2.50	0.00
4,000.00	18.45	181.54	3,412.74	-1,886.36	-50.66	1,887.04	2.50	-2.50	0.00
4,100.00	15.95	181.54	3,508.26	-1,915.92	-51.45	1,916.61	2.50	-2.50	0.00
4,200.00	13.45	181.54	3,604.98	-1,941.28	-52.13	1,941.98	2.50	-2.50	0.00
4,300.00	10.95	181.54	3,702.71	-1,962.40	-52.70	1,963.11	2.50	-2.50	0.00
4,400.00	8.45	181.54	3,801.28	-1,979.24	-53.15	1,979.95	2.50	-2.50	0.00
4,500.00	5.95	181.54	3,900.48	-1,991.77	-53.49	1,992.48	2.50	-2.50	0.00
4,600.00	3.45	181.54	4,000.14	-1,999.95	-53.71	2,000.67	2.50	-2.50	0.00
4,700.00	0.95	181.54	4,100.06	-2,003.79	-53.81	2,004.51	2.50	-2.50	0.00

Database:	EDM Depart	Local Co-ordinate Reference:	Well Hawxhurst 25-01B
Company:	Laramie Energy II, LLC	TVD Reference:	WELL @ 6375.00ft (Original Well Elev)
Project:	MESA, CO	MD Reference:	WELL @ 6375.00ft (Original Well Elev)
Site:	Sec 24-T9S-R95W (Hawxhurst 24-9 Pad)	North Reference:	True
Well:	Hawxhurst 25-01B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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)
4,737.95	0.00	0.00	4,138.00	-2,004.10	-53.82	2,004.82	2.50	-2.50	0.00
End of Drop - TOG - ETOG:									
4,800.00	0.00	0.00	4,200.05	-2,004.10	-53.82	2,004.82	0.00	0.00	0.00
4,900.00	0.00	0.00	4,300.05	-2,004.10	-53.82	2,004.82	0.00	0.00	0.00
5,000.00	0.00	0.00	4,400.05	-2,004.10	-53.82	2,004.82	0.00	0.00	0.00
5,100.00	0.00	0.00	4,500.05	-2,004.10	-53.82	2,004.82	0.00	0.00	0.00
5,200.00	0.00	0.00	4,600.05	-2,004.10	-53.82	2,004.82	0.00	0.00	0.00
5,300.00	0.00	0.00	4,700.05	-2,004.10	-53.82	2,004.82	0.00	0.00	0.00
5,400.00	0.00	0.00	4,800.05	-2,004.10	-53.82	2,004.82	0.00	0.00	0.00
5,500.00	0.00	0.00	4,900.05	-2,004.10	-53.82	2,004.82	0.00	0.00	0.00
5,600.00	0.00	0.00	5,000.05	-2,004.10	-53.82	2,004.82	0.00	0.00	0.00
5,629.95	0.00	0.00	5,030.00	-2,004.10	-53.82	2,004.82	0.00	0.00	0.00
CAMEO:									
5,700.00	0.00	0.00	5,100.05	-2,004.10	-53.82	2,004.82	0.00	0.00	0.00
5,800.00	0.00	0.00	5,200.05	-2,004.10	-53.82	2,004.82	0.00	0.00	0.00
5,900.00	0.00	0.00	5,300.05	-2,004.10	-53.82	2,004.82	0.00	0.00	0.00
6,000.00	0.00	0.00	5,400.05	-2,004.10	-53.82	2,004.82	0.00	0.00	0.00
6,014.95	0.00	0.00	5,415.00	-2,004.10	-53.82	2,004.82	0.00	0.00	0.00
ROLLINS:									
6,100.00	0.00	0.00	5,500.05	-2,004.10	-53.82	2,004.82	0.00	0.00	0.00
6,200.00	0.00	0.00	5,600.05	-2,004.10	-53.82	2,004.82	0.00	0.00	0.00
6,300.00	0.00	0.00	5,700.05	-2,004.10	-53.82	2,004.82	0.00	0.00	0.00
6,387.95	0.00	0.00	5,788.00	-2,004.10	-53.82	2,004.82	0.00	0.00	0.00
COZZETTE									
6,400.00	0.00	0.00	5,800.05	-2,004.10	-53.82	2,004.82	0.00	0.00	0.00
6,500.00	0.00	0.00	5,900.05	-2,004.10	-53.82	2,004.82	0.00	0.00	0.00
6,558.95	0.00	0.00	5,959.00	-2,004.10	-53.82	2,004.82	0.00	0.00	0.00
CORCORAN									
6,600.00	0.00	0.00	6,000.05	-2,004.10	-53.82	2,004.82	0.00	0.00	0.00
6,700.00	0.00	0.00	6,100.05	-2,004.10	-53.82	2,004.82	0.00	0.00	0.00
6,800.00	0.00	0.00	6,200.05	-2,004.10	-53.82	2,004.82	0.00	0.00	0.00
6,900.00	0.00	0.00	6,300.05	-2,004.10	-53.82	2,004.82	0.00	0.00	0.00
6,908.95	0.00	0.00	6,309.00	-2,004.10	-53.82	2,004.82	0.00	0.00	0.00
TD - 657' FNL & 644' FEL									

Design 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									
Hawxhurst 25-01B TOG	0.00	0.00	4,138.00	-2,004.10	-53.82	14,268,588.06	809,319.47	39.25394	-107.93571
- plan hits target center									
- Circle (radius 50.00)									
Hawxhurst 25-01B TD	0.00	0.00	6,309.00	-2,004.10	-53.82	14,268,588.06	809,319.47	39.25394	-107.93571
- plan hits target center									
- Circle (radius 50.00)									

Database:	EDM Depart	Local Co-ordinate Reference:	Well Hawxhurst 25-01B
Company:	Laramie Energy II, LLC	TVD Reference:	WELL @ 6375.00ft (Original Well Elev)
Project:	MESA, CO	MD Reference:	WELL @ 6375.00ft (Original Well Elev)
Site:	Sec 24-T9S-R95W (Hawxhurst 24-9 Pad)	North Reference:	True
Well:	Hawxhurst 25-01B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,956.62	2,525.00	WILLIAMS FORK:				
4,737.95	4,138.00	ETOG:				
5,629.95	5,030.00	CAMEO:				
6,014.95	5,415.00	ROLLINS:				
6,387.95	5,788.00	COZZETTE				
6,558.95	5,959.00	CORCORAN				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
200.00	200.00	0.00	0.00	KOP - Build at 3°/100'	
1,518.60	1,416.31	-437.24	-11.74	End of Build - Hold at 39.56° Inc.	
3,155.63	2,678.43	-1,479.42	-39.73	Drop at 2.5°/100'	
4,737.95	4,138.00	-2,004.10	-53.82	End of Drop - TOG	
6,908.95	6,309.00	-2,004.10	-53.82	TD - 657' FNL & 644' FEL	