

Company Name: Laramie Energy, LLC
Sup & Shep 0993-25-09W
Mesa County, CO
Rig: H&P #522
Created By: Will Jircik
Date: 11/16/2018

Sup & Shep 0993-25-09W
Mesa County, CO
Q181549 & RM-181304
Design #2

DESIGN ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.0	0.0	KOP (Build 3° / 100')
466.6	8.00	340.75	465.7	17.5	-6.1	18.6	18.6	18.6	EOB @ 8.00° Inc. / 340.75° Azm
5681.9	8.00	340.75	5630.3	702.5	-245.4	744.2	744.2	744.2	Drop 3° / 100'
5948.4	0.00	0.00	5896.0	720.1	-251.5	762.7	762.7	762.7	EOD @ Vertical
8688.4	0.00	0.00	8636.0	720.1	-251.5	762.7	762.7	762.7	TD @ 8688.4' MD / 8636.0' TVD

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL - SUP & SHEP 0993-25-09W	8636.0	720.1	-251.5	1522488.83	2370128.70	39.246789	-107.724347
						Shape	Circle (Radius: 50.0)



PROJECT DETAILS:		Mesa County, CO
Geodetic System:	US State Plane 1983	
Datum:	North American Datum 1983	
Ellipsoid:	GRS 1980	
Zone:	Colorado Central Zone	
System Datum:	Mean Sea Level	

WELL DETAILS: Sup & Shep 0993-25-09W					
GL: 8078.0					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1521762.81	2370362.48	39.244812	-107.723459

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
3336.0	3365.1	G Sand
5286.0	5334.2	Ohio Creek
5636.0	5687.6	Williams Fork
6886.0	6938.4	TOG
7686.0	7738.4	Cameo
8366.0	8418.4	Base Cameo Coal
8386.0	8438.4	Rollins

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Azimuths to True North

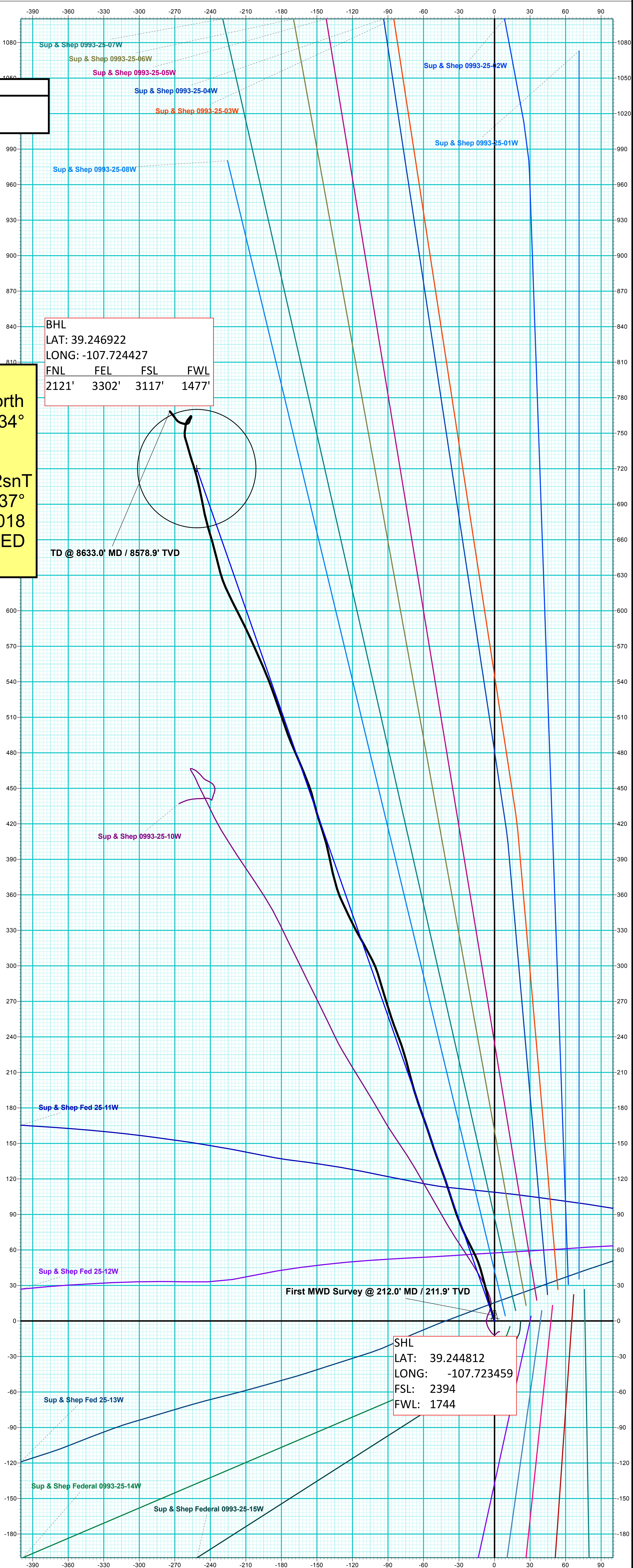
Magnetic North: 9.34°

Strength: 51244.2snT

Dip Angle: 65.37°

Date: 11/6/2018

Model: USER DEFINED



BHL			
LAT: 39.246922			
LONG: -107.724427			
FNL	FEL	FSL	FWL
2121'	3302'	3117'	1477'

SHL	
LAT: 39.244812	
LONG: -107.723459	
FSL	2394
FWL	1744