

Carrizo Oil and Gas, Inc. (Niobrara)

Weld County

Shull 25 9-60 Pad

Shull 7-25-9-60

Wellbore #1

Plan: Design #1

Standard Planning Report

18 December, 2014

Carrizo Oil and Gas, Inc.

Planning Report

Database:	EDMServer	Local Co-ordinate Reference:	Well Shull 7-25-9-60
Company:	Carrizo Oil and Gas, Inc. (Niobrara)	TVD Reference:	WELL @ 4904.0usft (Original Well Elev)
Project:	Weld County	MD Reference:	WELL @ 4904.0usft (Original Well Elev)
Site:	Shull 25 9-60 Pad	North Reference:	Grid
Well:	Shull 7-25-9-60	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Weld County		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		Shull 25 9-60 Pad			
Site Position:		Northing:	1,506,559.70 usft	Latitude:	40° 42' 52.881 N
From:	Map	Easting:	3,406,089.43 usft	Longitude:	104° 2' 6.204 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.95 °

Well	Shull 7-25-9-60					
Well Position	+N/-S	-5.5 usft	Northing:	1,506,554.23 usft	Latitude:	40° 42' 52.872 N
	+E/-W	-275.4 usft	Easting:	3,405,814.02 usft	Longitude:	104° 2' 9.781 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	0.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/18/2014	8.01	67.30	52,998

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	358.38

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
126.6	2.53	188.23	126.6	-2.8	-0.4	2.00	2.00	0.00	188.23	
5,507.4	2.53	188.23	5,502.1	-238.1	-34.5	0.00	0.00	0.00	0.00	
6,432.4	90.00	358.90	6,100.0	334.1	-49.8	10.00	9.46	18.45	170.65	7-25 land
10,881.1	90.00	358.90	6,100.0	4,782.0	-135.5	0.00	0.00	0.00	0.00	7-25 TD

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
126.6	2.53	188.23	126.6	-2.8	-0.4	-2.8	2.00	2.00	0.00
5,507.4	2.53	188.23	5,502.1	-238.1	-34.5	-237.0	0.00	0.00	0.00
6,432.4	90.00	358.90	6,100.0	334.1	-49.8	335.4	10.00	9.46	18.45
10,881.1	90.00	358.90	6,100.0	4,782.0	-135.5	4,783.9	0.00	0.00	0.00

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Wellbore:	Wellbore #1		
Design:	Design #1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
7-25 land	0.00	0.00	6,100.0	334.1	-49.8	1,506,888.36	3,405,764.24	40° 42' 56.182 N	104° 2' 10.356 W
- plan hits target center									
- Point									
7-25 TD	0.00	0.00	6,100.0	4,782.0	-135.5	1,511,336.23	3,405,678.51	40° 43' 40.140 N	104° 2' 10.516 W
- plan hits target center									
- Point									