

Well: Eichheim 18-9-66 1H
Zone of Interest: Niobrara Shale

Drill 12-1/4" surface hole to section TD at 1100'.

Set 9-5/8" 40# J-55 casing and cement with Lead and Tail cement (see details below). Cement will be circulated to surface.

Install 11" x 5,000 psi BOP and test as required

Drill 8-3/4" pilot hole to KOP.

Kick off and drill 8-3/4" curve at 10 deg/100' to end of build.

Drill 7-7/8" open hole to well TD

Acquire shuttle logs: Triple combo and image logs in open hole

Set 4-1/2" casing cement as shown below.

Suspend well and move drilling rig out in preparation for well completion

CASING AND CEMENTING PROGRAM

The proposed casing program will be as follows:

<u>Purpose</u>	<u>Interval</u>		<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>	<u>Condition</u>
	<u>From</u>	<u>To</u>	<u>(")</u>	<u>(")</u>	<u>Lbs/Ft</u>			
Surface	0	1100	12 1/4	9 5/8	40	J-55	LTC	New
Production	0	11559	8 3/4	4 1/2	11.6	P-110	LTC	New

Casing design subject to revision based on geologic conditions encountered.

Casing Safety Factors:

Interval	Casing	Burst	Collapse	Axial
Surface	9 5/8	2.03	2.03	4.78
Production	4 1/2	1.32	2.26	1.63

Centralizer Program

Casing	9 5/8		4 1/2
# of Bow-type spring centralizer	9		42

Cement Program

<u>Surface Casing</u>	<u>Slurry Volume</u>			<u>Weight</u>	<u>Yield</u>	<u>Mix H2O</u>	<u>TOC</u>
	<u>% Excess</u>	<u>(BBLS)</u>	<u>(Sacks)</u>	<u>(PPG)</u>	<u>(cuft/sk)</u>	<u>(GPS)</u>	
Lead Slurry	100%	92	175	11.50	2.95	17.88	0
Tail Slurry	100%	36	177	15.80	1.15	4.96	825

	<u>Lead</u>	<u>Tail</u>
Surface Casing with TOC at surface	Rockies LT 0.2 % Versaset (Additive Material) 0.2 % D-AIR 3000 (Additive Material) 0.125 lbm/sk Poly-E-Flake (Additive Material) 0.25 lbm/sk Kwik Seal (Additive Material)	Premium Cement, 94 lbm/sk Premium Cement (Cement) 1 % Calcium Chloride, Pellet (Accelerator) 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive)

Cement must be circulated to surface

Production Casing Cement	Slurry Volume			Weight	Yield	Mix H2O	TOC
	% Excess	(BBLS)	(Sacks)	(PPG)	(cuft/sk)	(GPS)	
Lead Slurry	20%	352	898	12.00	2.20	12.30	1050'
Tail Slurry	20%	276	1060	14.60	1.46	6.10	

	Lead	Tail
Production Casing Cement	Poz Type I-II 50/50 1 % Bentonite (Light Weight Additive) 3 lbm/sk Silicalite Compacted (Additive Material) 3 % Microbond HT (Additive Material) 0.2 % Halad(R)-322 (Low Fluid Loss Control) 0.4 % Halad(R)-344 (Low Fluid Loss Control) 0.3 % HR-5 (Retarder)	50/50 Poz Premium 2 % Bentonite (Light Weight Additive) 5 lbm/sk Silicalite Compacted (Light Weight Additive) 0.5 % Versaset (Thixotropic Additive) 0.5 % Econolite (Cement Material) 0.6 % HR-7 (Retarder) 0.5 % D-AIR 3000 (Defoamer) 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive) 0.25 lbm/sk Kwik Seal (Lost Circulation Additive)

The cement must achieve a compressive strength of at least 500 psi at the shoe prior to casing test and drilling out the shoe track. WOC time shall be recorded in the driller's log.

MUD PROGRAM

Purpose	Interval		Hole Size	Mud Type	Mud Weight	Viscosity	Fluid Loss	pH
	From	To	(")	(")	Lbs/Ft			
Surface	0'	1100'	12 1/4	WBM	8.4 – 8.8	28 – 32	N/C	9
Production	1100'	7786'	8 3/4	WBM	8.5 – 9.5	35 – 46	4 – 6	9
	7786'	11559'	7 7/8	WBM	9.0 - 10.0	36 – 46	4 – 6	9

WBM = Water Based Mud

Chesapeake Energy -Rockies District

Weld - DJ Basin

Eichheim 18-9-66 1H

Eichheim 18-9-66 1H

Eichheim 18-9-66 1H

Plan: Eichheim 18-9-66 1H

Standard Planning Report

30 June, 2011

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Well Eichheim 18-9-66 1H
Company:	Chesapeake Energy -Rockies District	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Project:	Weld - DJ Basin	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eichheim 18-9-66 1H	North Reference:	Grid
Well:	Eichheim 18-9-66 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Eichheim 18-9-66 1H		
Design:	Eichheim 18-9-66 1H		

Project	Weld - DJ Basin		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Colorado North 501		

Site	Eichheim 18-9-66 1H		
Site Position:	Northing:	513,384.99 ft	Latitude: 40° 44' 26.24171437 N
From: Map	Easting:	2,190,641.40 ft	Longitude: 104° 48' 43.44024609 W
Position Uncertainty:	0.0 usft	Slot Radius: 13.200 in	Grid Convergence: 0.44 °

Well	Eichheim 18-9-66 1H		
Well Position	+N/-S	0.0 usft	Northing: 513,384.99 ft
	+E/-W	0.0 usft	Easting: 2,190,641.40 ft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level: 0.0 usft

Wellbore	Eichheim 18-9-66 1H		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF200510	6/21/2011	8.88
			Dip Angle (°)
			67.33
			Field Strength (nT)
			53,364

Design	Eichheim 18-9-66 1H		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°)
			359.80

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	
6,914.9	0.00	0.00	6,914.9	0.0	0.0	0.00	0.00	0.00	0.00	
7,785.9	87.10	359.80	7,487.1	544.0	-1.9	10.00	10.00	0.00	359.80	
11,558.8	87.10	359.80	7,678.0	4,312.0	-15.4	0.00	0.00	0.00	0.00	Eichheim 18-9-66 1H

Chesapeake Operating

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Design: Eichheim 18-9-66 1H

Local Co-ordinate Reference: Well Eichheim 18-9-66 1H
TVD Reference: WELL @ 0.0usft (Original Well Elev)
MD Reference: WELL @ 0.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00

Chesapeake Operating

Planning Report

Database: Drilling Database
 Company: Chesapeake Energy -Rockies District
 Project: Weld - DJ Basin
 Site: Eichheim 18-9-66 1H
 Well: Eichheim 18-9-66 1H
 Wellbore: Eichheim 18-9-66 1H
 Design: Eichheim 18-9-66 1H

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5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,914.9	0.00	0.00	6,914.9	0.0	0.0	0.0	0.00	0.00	0.00
6,950.0	3.51	359.80	6,950.0	1.1	0.0	1.1	10.00	10.00	0.00
7,000.0	8.51	359.80	6,999.7	6.3	0.0	6.3	10.00	10.00	0.00
7,050.0	13.51	359.80	7,048.8	15.9	-0.1	15.9	10.00	10.00	0.00
7,100.0	18.51	359.80	7,096.8	29.6	-0.1	29.6	10.00	10.00	0.00
7,150.0	23.51	359.80	7,143.5	47.6	-0.2	47.6	10.00	10.00	0.00
7,200.0	28.51	359.80	7,188.4	69.5	-0.2	69.5	10.00	10.00	0.00
7,250.0	33.51	359.80	7,231.2	95.2	-0.3	95.2	10.00	10.00	0.00
7,300.0	38.51	359.80	7,271.7	124.6	-0.4	124.6	10.00	10.00	0.00
7,350.0	43.51	359.80	7,309.4	157.4	-0.6	157.4	10.00	10.00	0.00
7,400.0	48.51	359.80	7,344.1	193.4	-0.7	193.4	10.00	10.00	0.00
7,450.0	53.51	359.80	7,375.5	232.2	-0.8	232.2	10.00	10.00	0.00
7,500.0	58.51	359.80	7,403.5	273.7	-1.0	273.7	10.00	10.00	0.00
7,550.0	63.51	359.80	7,427.7	317.4	-1.1	317.4	10.00	10.00	0.00
7,600.0	68.51	359.80	7,448.0	363.1	-1.3	363.1	10.00	10.00	0.00
7,650.0	73.51	359.80	7,464.3	410.3	-1.5	410.3	10.00	10.00	0.00
7,700.0	78.51	359.80	7,476.4	458.8	-1.6	458.8	10.00	10.00	0.00
7,750.0	83.51	359.80	7,484.2	508.2	-1.8	508.2	10.00	10.00	0.00
7,785.9	87.10	359.80	7,487.1	544.0	-1.9	544.0	10.00	10.00	0.00
7,800.0	87.10	359.80	7,487.8	558.1	-2.0	558.1	0.00	0.00	0.00
7,900.0	87.10	359.80	7,492.9	657.9	-2.3	657.9	0.00	0.00	0.00
8,000.0	87.10	359.80	7,498.0	757.8	-2.7	757.8	0.00	0.00	0.00
8,100.0	87.10	359.80	7,503.0	857.7	-3.1	857.7	0.00	0.00	0.00
8,200.0	87.10	359.80	7,508.1	957.5	-3.4	957.5	0.00	0.00	0.00
8,300.0	87.10	359.80	7,513.1	1,057.4	-3.8	1,057.4	0.00	0.00	0.00
8,400.0	87.10	359.80	7,518.2	1,157.3	-4.1	1,157.3	0.00	0.00	0.00
8,500.0	87.10	359.80	7,523.2	1,257.2	-4.5	1,257.2	0.00	0.00	0.00
8,600.0	87.10	359.80	7,528.3	1,357.0	-4.8	1,357.0	0.00	0.00	0.00
8,700.0	87.10	359.80	7,533.4	1,456.9	-5.2	1,456.9	0.00	0.00	0.00
8,800.0	87.10	359.80	7,538.4	1,556.8	-5.6	1,556.8	0.00	0.00	0.00
8,900.0	87.10	359.80	7,543.5	1,656.6	-5.9	1,656.6	0.00	0.00	0.00
9,000.0	87.10	359.80	7,548.5	1,756.5	-6.3	1,756.5	0.00	0.00	0.00
9,100.0	87.10	359.80	7,553.6	1,856.4	-6.6	1,856.4	0.00	0.00	0.00
9,200.0	87.10	359.80	7,558.7	1,956.3	-7.0	1,956.3	0.00	0.00	0.00
9,300.0	87.10	359.80	7,563.7	2,056.1	-7.3	2,056.1	0.00	0.00	0.00
9,400.0	87.10	359.80	7,568.8	2,156.0	-7.7	2,156.0	0.00	0.00	0.00
9,500.0	87.10	359.80	7,573.8	2,255.9	-8.1	2,255.9	0.00	0.00	0.00
9,600.0	87.10	359.80	7,578.9	2,355.7	-8.4	2,355.8	0.00	0.00	0.00

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Wellbore:	Eichheim 18-9-66 1H		
Design:	Eichheim 18-9-66 1H		

Planned Survey

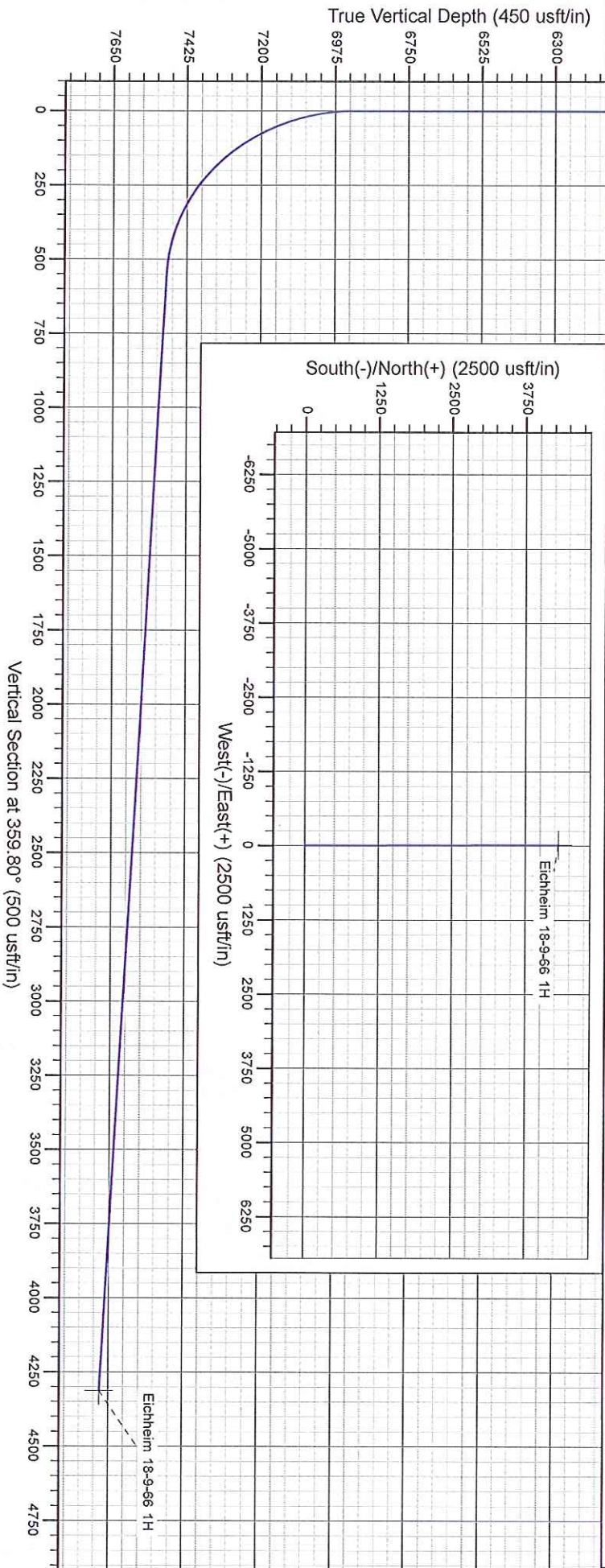
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,700.0	87.10	359.80	7,584.0	2,455.6	-8.8	2,455.6	0.00	0.00	0.00
9,800.0	87.10	359.80	7,589.0	2,555.5	-9.1	2,555.5	0.00	0.00	0.00
9,900.0	87.10	359.80	7,594.1	2,655.4	-9.5	2,655.4	0.00	0.00	0.00
10,000.0	87.10	359.80	7,599.1	2,755.2	-9.8	2,755.2	0.00	0.00	0.00
10,100.0	87.10	359.80	7,604.2	2,855.1	-10.2	2,855.1	0.00	0.00	0.00
10,200.0	87.10	359.80	7,609.3	2,955.0	-10.6	2,955.0	0.00	0.00	0.00
10,300.0	87.10	359.80	7,614.3	3,054.8	-10.9	3,054.9	0.00	0.00	0.00
10,400.0	87.10	359.80	7,619.4	3,154.7	-11.3	3,154.7	0.00	0.00	0.00
10,500.0	87.10	359.80	7,624.4	3,254.6	-11.6	3,254.6	0.00	0.00	0.00
10,600.0	87.10	359.80	7,629.5	3,354.5	-12.0	3,354.5	0.00	0.00	0.00
10,700.0	87.10	359.80	7,634.6	3,454.3	-12.3	3,454.3	0.00	0.00	0.00
10,800.0	87.10	359.80	7,639.6	3,554.2	-12.7	3,554.2	0.00	0.00	0.00
10,900.0	87.10	359.80	7,644.7	3,654.1	-13.1	3,654.1	0.00	0.00	0.00
11,000.0	87.10	359.80	7,649.7	3,753.9	-13.4	3,754.0	0.00	0.00	0.00
11,100.0	87.10	359.80	7,654.8	3,853.8	-13.8	3,853.8	0.00	0.00	0.00
11,200.0	87.10	359.80	7,659.8	3,953.7	-14.1	3,953.7	0.00	0.00	0.00
11,300.0	87.10	359.80	7,664.9	4,053.5	-14.5	4,053.6	0.00	0.00	0.00
11,400.0	87.10	359.80	7,670.0	4,153.4	-14.8	4,153.4	0.00	0.00	0.00
11,500.0	87.10	359.80	7,675.0	4,253.3	-15.2	4,253.3	0.00	0.00	0.00
11,558.8	87.10	359.80	7,678.0	4,312.0	-15.4	4,312.0	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Eichheim 18-9-66 1H	0.00	0.00	7,678.0	4,312.0	-15.4	517,697.00	2,190,626.00	40° 45' 8.84970632 N	4° 48' 43.20568952 W
- plan hits target center									
- Point									

Project: Weld - DJ Basin
 Site: Eichheim 18-9-66 1H
 Well: Eichheim 18-9-66 1H
 Wellbore: Eichheim 18-9-66 1H
 Design: Eichheim 18-9-66 1H

PROJECT DETAILS: Weld - DJ Basin
 Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: Colorado North 501
 System Datum: Mean Sea Level



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	6914.9	0.00	0.00	6914.9	0.0	0.0	0.00	0.00	0.0	
3	7785.9	87.10	359.80	7487.1	544.0	-1.9	10.00	359.80	544.0	
4	11558.8	87.10	359.80	7678.0	4312.0	-15.4	0.00	0.00	4312.0	Eichheim 18-9-66 1H