

# **VERDAD RESOURCES**

**WATTENBERG FIELD**

**9N-60W-14 ROHN 1423 PAD**

**ROHN 1423-08H**

**Plan A**

**Plan: Design #2**

## **Standard Planning Report**

**23 May, 2022**

Project: WATTENBERG FIELD  
Site: 9N-60W-14 ROHN 1423 PAD  
Well: ROHN 1423-08H  
Wellbore: Plan A  
Design: Design #2

# VERDAD RESOURCES

## CASING DETAILS

TVD	MD	Name	Size
1790.00	1824.28	9 5/8"	9-5/8

West(-)/East(+) (2400 usft/in)

-3600 -2400 -1200 0 1200 2400 3600 4800

ROHN 1423-08H\_LP/TPZ

9 5/8"

BENNER 1

ROHN 9-60-14A-23-1

ROHN 9-60-14A-23-3

ROHN 1423-05H

ROHN 1423-07H

ROHN 1423-04H

ROHN 1423-06H

ROHN FED 1324-1H

ROHN 1423-09H

ROHN 1423-08H\_BHL

South(-)/North(+) (2400 usft/in)

## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	298.25	0.00	0.00	298.25	0.00	0.00	0.00	0.00	0.00	
3	1038.25	14.80	58.74	1030.05	49.32	81.25	2.00	58.74	-48.45	
4	5659.90	14.80	58.74	5498.37	661.95	1090.43	0.00	0.00	-650.30	
5	6743.05	90.00	179.39	6200.00	32.48	1256.58	9.00	119.81	-19.10	
6	12820.43	90.00	179.39	6200.00	-6044.56	1320.88	0.00	0.00	6058.28	ROHN 1423-08H_BHL

## WELLBORE TARGET DETAILS (LAT/LONG)

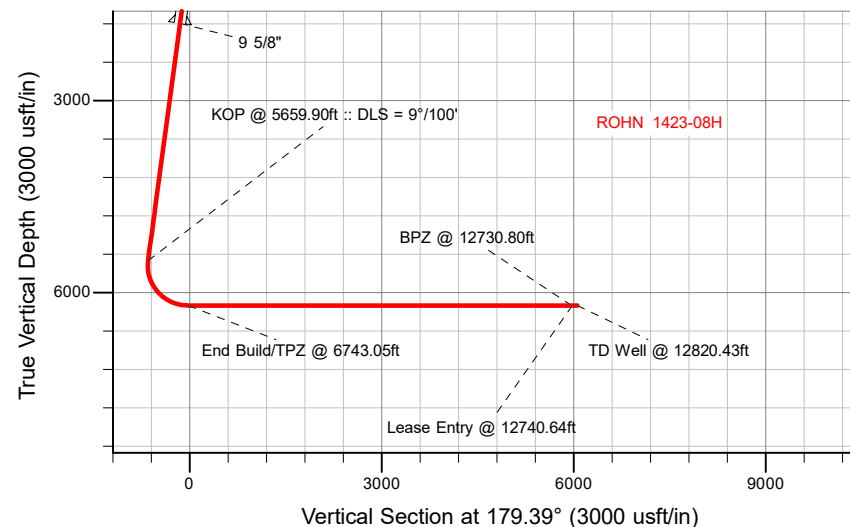
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
ROHN 1423-08H_SHL	0.00	0.00	0.00	40.748538	-104.058355
ROHN 1423-08H_LP/TPZ	6200.00	32.48	1256.58	40.748627	-104.053820
ROHN 1423-08H_BPZ	6200.00	-5954.94	1319.77	40.732193	-104.053593
ROHN 1423-08H_Lease Entry	6200.00	-5964.78	1319.77	40.732166	-104.053593
ROHN 1423-08H_BHL	6200.00	-6044.56	1320.88	40.731947	-104.053589

SHL  
2005' FSL  
2421' FEL

LP/TPZ  
2037' FSL  
1151' FEL

BPZ  
1330' FSL  
1166' FEL

BHL  
1240' FSL  
1166' FEL



Azimuths to True North  
Magnetic North: 7.42°  
Magnetic Field  
Strength: 52127.5nT  
Dip Angle: 67.00°  
Date: 3/9/2022  
Model: IGRF2020

## WELL DETAILS: ROHN 1423-08H

GL = 4986'

RKB = 20' @ 5006.00usft (RIG)

Plan: Design #2 (ROHN 1423-08H/Plan A)

Date: 5/23/2022

## Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well ROHN 1423-08H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 20' @ 5006.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 20' @ 5006.00usft (RIG)
<b>Site:</b>	9N-60W-14 ROHN 1423 PAD	<b>North Reference:</b>	True
<b>Well:</b>	ROHN 1423-08H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Design #2		

<b>Project</b>	WATTENBERG FIELD		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		

Site		9N-60W-14 ROHN 1423 PAD			
Site Position:		Northing:	1,518,783.27 usft	Latitude:	40.748538
From:	Lat/Long	Easting:	3,399,367.12 usft	Longitude:	-104.058586
Position Uncertainty:		0.00 usft	Slot Radius:	13-3/16 "	

Well		ROHN 1423-08H				
Well Position	+N/-S	0.00 usft	Northing:	1,518,784.30 usft	Latitude:	40.748538
	+E/-W	0.00 usft	Easting:	3,399,431.12 usft	Longitude:	-104.058355
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft	Ground Level:	4,986.00 usft
Grid Convergence:		0.93 °				

<b>Wellbore</b>	Plan A				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF202013	3/9/2022	7.42	67.00	52,127.46542448

<b>Design</b>	Design #2				
<b>Audit Notes:</b>					
<b>Version:</b>		<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	179.39	

<b>Plan Survey Tool Program</b>		<b>Date</b>	5/23/2022		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>	
1	0.00	1,790.00	Design #2 (Plan A)	ISCWSA MWD	
				Fixed:v2:standard declination	
2	1,790.00	12,820.43	Design #2 (Plan A)	ISCWSA MWD	
				Fixed:v2:standard declination	

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well ROHN 1423-08H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 20' @ 5006.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 20' @ 5006.00usft (RIG)
Site:	9N-60W-14 ROHN 1423 PAD	North Reference:	True
Well:	ROHN 1423-08H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Design #2		

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
298.25	0.00	0.00	298.25	0.00	0.00	0.00	0.00	0.00	0.00	
1,038.25	14.80	58.74	1,030.05	49.32	81.25	2.00	2.00	0.00	58.74	
5,659.90	14.80	58.74	5,498.37	661.95	1,090.43	0.00	0.00	0.00	0.00	
6,743.05	90.00	179.39	6,200.00	32.48	1,256.58	9.00	6.94	11.14	119.81	
12,820.43	90.00	179.39	6,200.00	-6,044.56	1,320.88	0.00	0.00	0.00	0.00	ROHN 1423-08H_BH

## Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well ROHN 1423-08H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 20' @ 5006.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 20' @ 5006.00usft (RIG)
<b>Site:</b>	9N-60W-14 ROHN 1423 PAD	<b>North Reference:</b>	True
<b>Well:</b>	ROHN 1423-08H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Design #2		

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	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
298.25	0.00	0.00	298.25	0.00	0.00	0.00	0.00	0.00	0.00
<b>Begin Nudge @ 298.25ft</b>									
300.00	0.03	58.74	300.00	0.00	0.00	0.00	2.00	2.00	0.00
400.00	2.03	58.74	399.98	0.94	1.54	-0.92	2.00	2.00	0.00
500.00	4.03	58.74	499.83	3.68	6.07	-3.62	2.00	2.00	0.00
600.00	6.03	58.74	599.44	8.24	13.57	-8.09	2.00	2.00	0.00
700.00	8.03	58.74	698.68	14.59	24.04	-14.34	2.00	2.00	0.00
800.00	10.03	58.74	797.44	22.74	37.46	-22.34	2.00	2.00	0.00
900.00	12.03	58.74	895.58	32.67	53.83	-32.10	2.00	2.00	0.00
1,000.00	14.03	58.74	993.00	44.38	73.10	-43.60	2.00	2.00	0.00
1,038.25	14.80	58.74	1,030.05	49.32	81.25	-48.45	2.00	2.00	0.00
<b>Hold Tangent @ 1038.25ft</b>									
1,100.00	14.80	58.74	1,089.75	57.51	94.73	-56.49	0.00	0.00	0.00
1,200.00	14.80	58.74	1,186.43	70.76	116.57	-69.52	0.00	0.00	0.00
1,300.00	14.80	58.74	1,283.11	84.02	138.40	-82.54	0.00	0.00	0.00
1,400.00	14.80	58.74	1,379.80	97.27	160.24	-95.56	0.00	0.00	0.00
1,500.00	14.80	58.74	1,476.48	110.53	182.07	-108.58	0.00	0.00	0.00
1,600.00	14.80	58.74	1,573.16	123.78	203.91	-121.61	0.00	0.00	0.00
1,700.00	14.80	58.74	1,669.84	137.04	225.75	-134.63	0.00	0.00	0.00
1,800.00	14.80	58.74	1,766.53	150.30	247.58	-147.65	0.00	0.00	0.00
1,824.28	14.80	58.74	1,790.00	153.51	252.88	-150.81	0.00	0.00	0.00
<b>9 5/8"</b>									
1,900.00	14.80	58.74	1,863.21	163.55	269.42	-160.67	0.00	0.00	0.00
2,000.00	14.80	58.74	1,959.89	176.81	291.25	-173.70	0.00	0.00	0.00
2,100.00	14.80	58.74	2,056.57	190.06	313.09	-186.72	0.00	0.00	0.00
2,200.00	14.80	58.74	2,153.26	203.32	334.93	-199.74	0.00	0.00	0.00
2,300.00	14.80	58.74	2,249.94	216.57	356.76	-212.76	0.00	0.00	0.00
2,400.00	14.80	58.74	2,346.62	229.83	378.60	-225.79	0.00	0.00	0.00
2,500.00	14.80	58.74	2,443.30	243.08	400.43	-238.81	0.00	0.00	0.00
2,600.00	14.80	58.74	2,539.98	256.34	422.27	-251.83	0.00	0.00	0.00
2,700.00	14.80	58.74	2,636.67	269.60	444.11	-264.85	0.00	0.00	0.00
2,800.00	14.80	58.74	2,733.35	282.85	465.94	-277.88	0.00	0.00	0.00
2,900.00	14.80	58.74	2,830.03	296.11	487.78	-290.90	0.00	0.00	0.00
3,000.00	14.80	58.74	2,926.71	309.36	509.61	-303.92	0.00	0.00	0.00
3,100.00	14.80	58.74	3,023.40	322.62	531.45	-316.94	0.00	0.00	0.00
3,200.00	14.80	58.74	3,120.08	335.87	553.29	-329.97	0.00	0.00	0.00
3,300.00	14.80	58.74	3,216.76	349.13	575.12	-342.99	0.00	0.00	0.00
3,400.00	14.80	58.74	3,313.44	362.39	596.96	-356.01	0.00	0.00	0.00
3,500.00	14.80	58.74	3,410.13	375.64	618.79	-369.03	0.00	0.00	0.00
3,600.00	14.80	58.74	3,506.81	388.90	640.63	-382.05	0.00	0.00	0.00
3,700.00	14.80	58.74	3,603.49	402.15	662.47	-395.08	0.00	0.00	0.00
3,800.00	14.80	58.74	3,700.17	415.41	684.30	-408.10	0.00	0.00	0.00
3,900.00	14.80	58.74	3,796.86	428.66	706.14	-421.12	0.00	0.00	0.00
4,000.00	14.80	58.74	3,893.54	441.92	727.97	-434.14	0.00	0.00	0.00
4,100.00	14.80	58.74	3,990.22	455.18	749.81	-447.17	0.00	0.00	0.00
4,200.00	14.80	58.74	4,086.90	468.43	771.65	-460.19	0.00	0.00	0.00
4,300.00	14.80	58.74	4,183.58	481.69	793.48	-473.21	0.00	0.00	0.00
4,400.00	14.80	58.74	4,280.27	494.94	815.32	-486.23	0.00	0.00	0.00
4,500.00	14.80	58.74	4,376.95	508.20	837.16	-499.26	0.00	0.00	0.00
4,600.00	14.80	58.74	4,473.63	521.45	858.99	-512.28	0.00	0.00	0.00

## Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well ROHN 1423-08H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 20' @ 5006.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 20' @ 5006.00usft (RIG)
<b>Site:</b>	9N-60W-14 ROHN 1423 PAD	<b>North Reference:</b>	True
<b>Well:</b>	ROHN 1423-08H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Design #2		

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)
4,700.00	14.80	58.74	4,570.31	534.71	880.83	-525.30	0.00	0.00	0.00
4,800.00	14.80	58.74	4,667.00	547.97	902.66	-538.32	0.00	0.00	0.00
4,900.00	14.80	58.74	4,763.68	561.22	924.50	-551.35	0.00	0.00	0.00
5,000.00	14.80	58.74	4,860.36	574.48	946.34	-564.37	0.00	0.00	0.00
5,100.00	14.80	58.74	4,957.04	587.73	968.17	-577.39	0.00	0.00	0.00
5,200.00	14.80	58.74	5,053.73	600.99	990.01	-590.41	0.00	0.00	0.00
5,300.00	14.80	58.74	5,150.41	614.24	1,011.84	-603.44	0.00	0.00	0.00
5,400.00	14.80	58.74	5,247.09	627.50	1,033.68	-616.46	0.00	0.00	0.00
5,500.00	14.80	58.74	5,343.77	640.75	1,055.52	-629.48	0.00	0.00	0.00
5,600.00	14.80	58.74	5,440.45	654.01	1,077.35	-642.50	0.00	0.00	0.00
5,659.90	14.80	58.74	5,498.37	661.95	1,090.43	-650.30	0.00	0.00	0.00
<b>KOP @ 5659.90ft :: DLS = 9°/100'</b>									
5,700.00	13.37	72.40	5,537.27	666.01	1,099.23	-654.27	9.00	-3.57	34.07
5,750.00	12.82	92.21	5,586.00	667.55	1,110.29	-655.69	9.00	-1.10	39.62
5,800.00	13.78	111.43	5,634.68	665.15	1,121.38	-653.18	9.00	1.91	38.43
5,850.00	15.97	126.82	5,683.02	658.85	1,132.44	-646.76	9.00	4.39	30.78
5,900.00	18.98	138.02	5,730.72	648.68	1,143.39	-636.47	9.00	6.01	22.41
5,950.00	22.47	146.06	5,777.49	634.70	1,154.16	-622.38	9.00	6.99	16.08
6,000.00	26.26	151.97	5,823.03	617.00	1,164.70	-604.57	9.00	7.58	11.80
6,050.00	30.24	156.44	5,867.07	595.69	1,174.94	-583.14	9.00	7.95	8.95
6,100.00	34.33	159.95	5,909.34	570.89	1,184.81	-558.24	9.00	8.18	7.02
6,150.00	38.50	162.79	5,949.57	542.76	1,194.25	-530.02	9.00	8.35	5.68
6,200.00	42.73	165.15	5,987.52	511.48	1,203.21	-498.65	9.00	8.46	4.72
6,250.00	47.00	167.16	6,022.95	477.24	1,211.63	-464.31	9.00	8.54	4.02
6,300.00	51.31	168.90	6,055.64	440.25	1,219.45	-427.24	9.00	8.60	3.49
6,350.00	55.63	170.45	6,085.40	400.73	1,226.63	-387.65	9.00	8.65	3.09
6,400.00	59.97	171.85	6,112.04	358.93	1,233.13	-345.78	9.00	8.69	2.79
6,450.00	64.33	173.12	6,135.39	315.11	1,238.90	-301.91	9.00	8.71	2.55
6,500.00	68.70	174.31	6,155.31	269.54	1,243.91	-256.28	9.00	8.73	2.37
6,550.00	73.07	175.43	6,171.68	222.50	1,248.13	-209.20	9.00	8.75	2.24
6,600.00	77.45	176.49	6,184.40	174.28	1,251.53	-160.94	9.00	8.76	2.13
6,650.00	81.84	177.52	6,193.39	125.17	1,254.09	-111.81	9.00	8.77	2.06
6,700.00	86.22	178.53	6,198.59	75.49	1,255.80	-62.11	9.00	8.77	2.02
6,743.05	90.00	179.39	6,200.00	32.48	1,256.58	-19.10	9.00	8.78	2.00
<b>End Build/TPZ @ 6743.05ft</b>									
6,800.00	90.00	179.39	6,200.00	-24.47	1,257.18	37.86	0.00	0.00	0.00
6,900.00	90.00	179.39	6,200.00	-124.47	1,258.24	137.86	0.00	0.00	0.00
7,000.00	90.00	179.39	6,200.00	-224.46	1,259.30	237.86	0.00	0.00	0.00
7,100.00	90.00	179.39	6,200.00	-324.46	1,260.35	337.86	0.00	0.00	0.00
7,200.00	90.00	179.39	6,200.00	-424.45	1,261.41	437.86	0.00	0.00	0.00
7,300.00	90.00	179.39	6,200.00	-524.44	1,262.47	537.86	0.00	0.00	0.00
7,400.00	90.00	179.39	6,200.00	-624.44	1,263.53	637.86	0.00	0.00	0.00
7,500.00	90.00	179.39	6,200.00	-724.43	1,264.59	737.86	0.00	0.00	0.00
7,600.00	90.00	179.39	6,200.00	-824.43	1,265.64	837.86	0.00	0.00	0.00
7,700.00	90.00	179.39	6,200.00	-924.42	1,266.70	937.86	0.00	0.00	0.00
7,800.00	90.00	179.39	6,200.00	-1,024.42	1,267.76	1,037.86	0.00	0.00	0.00
7,900.00	90.00	179.39	6,200.00	-1,124.41	1,268.82	1,137.86	0.00	0.00	0.00
8,000.00	90.00	179.39	6,200.00	-1,224.41	1,269.88	1,237.86	0.00	0.00	0.00
8,100.00	90.00	179.39	6,200.00	-1,324.40	1,270.93	1,337.86	0.00	0.00	0.00
8,200.00	90.00	179.39	6,200.00	-1,424.39	1,271.99	1,437.86	0.00	0.00	0.00
8,300.00	90.00	179.39	6,200.00	-1,524.39	1,273.05	1,537.86	0.00	0.00	0.00
8,400.00	90.00	179.39	6,200.00	-1,624.38	1,274.11	1,637.86	0.00	0.00	0.00
8,500.00	90.00	179.39	6,200.00	-1,724.38	1,275.17	1,737.86	0.00	0.00	0.00
8,600.00	90.00	179.39	6,200.00	-1,824.37	1,276.23	1,837.86	0.00	0.00	0.00

## Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well ROHN 1423-08H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 20' @ 5006.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 20' @ 5006.00usft (RIG)
<b>Site:</b>	9N-60W-14 ROHN 1423 PAD	<b>North Reference:</b>	True
<b>Well:</b>	ROHN 1423-08H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Design #2		

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)	
8,700.00	90.00	179.39	6,200.00	-1,924.37	1,277.28	1,937.86	0.00	0.00	0.00	
8,800.00	90.00	179.39	6,200.00	-2,024.36	1,278.34	2,037.86	0.00	0.00	0.00	
8,900.00	90.00	179.39	6,200.00	-2,124.35	1,279.40	2,137.86	0.00	0.00	0.00	
9,000.00	90.00	179.39	6,200.00	-2,224.35	1,280.46	2,237.86	0.00	0.00	0.00	
9,100.00	90.00	179.39	6,200.00	-2,324.34	1,281.52	2,337.86	0.00	0.00	0.00	
9,200.00	90.00	179.39	6,200.00	-2,424.34	1,282.57	2,437.86	0.00	0.00	0.00	
9,300.00	90.00	179.39	6,200.00	-2,524.33	1,283.63	2,537.86	0.00	0.00	0.00	
9,400.00	90.00	179.39	6,200.00	-2,624.33	1,284.69	2,637.86	0.00	0.00	0.00	
9,500.00	90.00	179.39	6,200.00	-2,724.32	1,285.75	2,737.86	0.00	0.00	0.00	
9,600.00	90.00	179.39	6,200.00	-2,824.32	1,286.81	2,837.86	0.00	0.00	0.00	
9,700.00	90.00	179.39	6,200.00	-2,924.31	1,287.86	2,937.86	0.00	0.00	0.00	
9,800.00	90.00	179.39	6,200.00	-3,024.30	1,288.92	3,037.86	0.00	0.00	0.00	
9,900.00	90.00	179.39	6,200.00	-3,124.30	1,289.98	3,137.86	0.00	0.00	0.00	
10,000.00	90.00	179.39	6,200.00	-3,224.29	1,291.04	3,237.86	0.00	0.00	0.00	
10,100.00	90.00	179.39	6,200.00	-3,324.29	1,292.10	3,337.86	0.00	0.00	0.00	
10,200.00	90.00	179.39	6,200.00	-3,424.28	1,293.15	3,437.86	0.00	0.00	0.00	
10,300.00	90.00	179.39	6,200.00	-3,524.28	1,294.21	3,537.86	0.00	0.00	0.00	
10,400.00	90.00	179.39	6,200.00	-3,624.27	1,295.27	3,637.86	0.00	0.00	0.00	
10,500.00	90.00	179.39	6,200.00	-3,724.27	1,296.33	3,737.86	0.00	0.00	0.00	
10,600.00	90.00	179.39	6,200.00	-3,824.26	1,297.39	3,837.86	0.00	0.00	0.00	
10,700.00	90.00	179.39	6,200.00	-3,924.25	1,298.44	3,937.86	0.00	0.00	0.00	
10,800.00	90.00	179.39	6,200.00	-4,024.25	1,299.50	4,037.86	0.00	0.00	0.00	
10,900.00	90.00	179.39	6,200.00	-4,124.24	1,300.56	4,137.86	0.00	0.00	0.00	
11,000.00	90.00	179.39	6,200.00	-4,224.24	1,301.62	4,237.86	0.00	0.00	0.00	
11,100.00	90.00	179.39	6,200.00	-4,324.23	1,302.68	4,337.86	0.00	0.00	0.00	
11,200.00	90.00	179.39	6,200.00	-4,424.23	1,303.74	4,437.86	0.00	0.00	0.00	
11,300.00	90.00	179.39	6,200.00	-4,524.22	1,304.79	4,537.86	0.00	0.00	0.00	
11,400.00	90.00	179.39	6,200.00	-4,624.22	1,305.85	4,637.86	0.00	0.00	0.00	
11,500.00	90.00	179.39	6,200.00	-4,724.21	1,306.91	4,737.86	0.00	0.00	0.00	
11,600.00	90.00	179.39	6,200.00	-4,824.20	1,307.97	4,837.86	0.00	0.00	0.00	
11,700.00	90.00	179.39	6,200.00	-4,924.20	1,309.03	4,937.86	0.00	0.00	0.00	
11,800.00	90.00	179.39	6,200.00	-5,024.19	1,310.08	5,037.86	0.00	0.00	0.00	
11,900.00	90.00	179.39	6,200.00	-5,124.19	1,311.14	5,137.86	0.00	0.00	0.00	
12,000.00	90.00	179.39	6,200.00	-5,224.18	1,312.20	5,237.86	0.00	0.00	0.00	
12,100.00	90.00	179.39	6,200.00	-5,324.18	1,313.26	5,337.86	0.00	0.00	0.00	
12,200.00	90.00	179.39	6,200.00	-5,424.17	1,314.32	5,437.86	0.00	0.00	0.00	
12,300.00	90.00	179.39	6,200.00	-5,524.16	1,315.37	5,537.86	0.00	0.00	0.00	
12,400.00	90.00	179.39	6,200.00	-5,624.16	1,316.43	5,637.86	0.00	0.00	0.00	
12,500.00	90.00	179.39	6,200.00	-5,724.15	1,317.49	5,737.86	0.00	0.00	0.00	
12,600.00	90.00	179.39	6,200.00	-5,824.15	1,318.55	5,837.86	0.00	0.00	0.00	
12,700.00	90.00	179.39	6,200.00	-5,924.14	1,319.61	5,937.86	0.00	0.00	0.00	
12,730.80	90.00	179.39	6,200.00	-5,954.94	1,319.93	5,968.66	0.00	0.00	0.00	
BPZ @ 12730.80ft										
12,740.64	90.00	179.39	6,200.00	-5,964.78	1,320.04	5,978.50	0.00	0.00	0.00	
Lease Entry @ 12740.64ft										
12,800.00	90.00	179.39	6,200.00	-6,024.14	1,320.66	6,037.86	0.00	0.00	0.00	
12,820.43	90.00	179.39	6,200.00	-6,044.56	1,320.88	6,058.28	0.00	0.00	0.00	
TD Well @ 12820.43ft										

## Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well ROHN 1423-08H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 20' @ 5006.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 20' @ 5006.00usft (RIG)
<b>Site:</b>	9N-60W-14 ROHN 1423 PAD	<b>North Reference:</b>	True
<b>Well:</b>	ROHN 1423-08H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Design #2		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
1,824.28	1,790.00	9 5/8"		9-5/8	13-1/2

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
298.25	298.25	0.00	0.00	Begin Nudge @ 298.25ft	
1,038.25	1,030.05	49.32	81.25	Hold Tangent @ 1038.25ft	
5,659.90	5,498.37	661.95	1,090.43	KOP @ 5659.90ft :: DLS = 9°/100'	
6,743.05	6,200.00	32.48	1,256.58	End Build/TPZ @ 6743.05ft	
12,730.80	6,200.00	-5,954.94	1,319.93	BPZ @ 12730.80ft	
12,740.64	6,200.00	-5,964.78	1,320.04	Lease Entry @ 12740.64ft	
12,820.43	6,200.00	-6,044.56	1,320.88	TD Well @ 12820.43ft	