

# **VERDAD RESOURCES**

**WATTENBERG FIELD**

**2N-63W-19 KBL PAD**

**KBL 1918-15H**

**Plan A**

**Plan: Design #1**

## **Standard Planning Report**

**17 September, 2024**

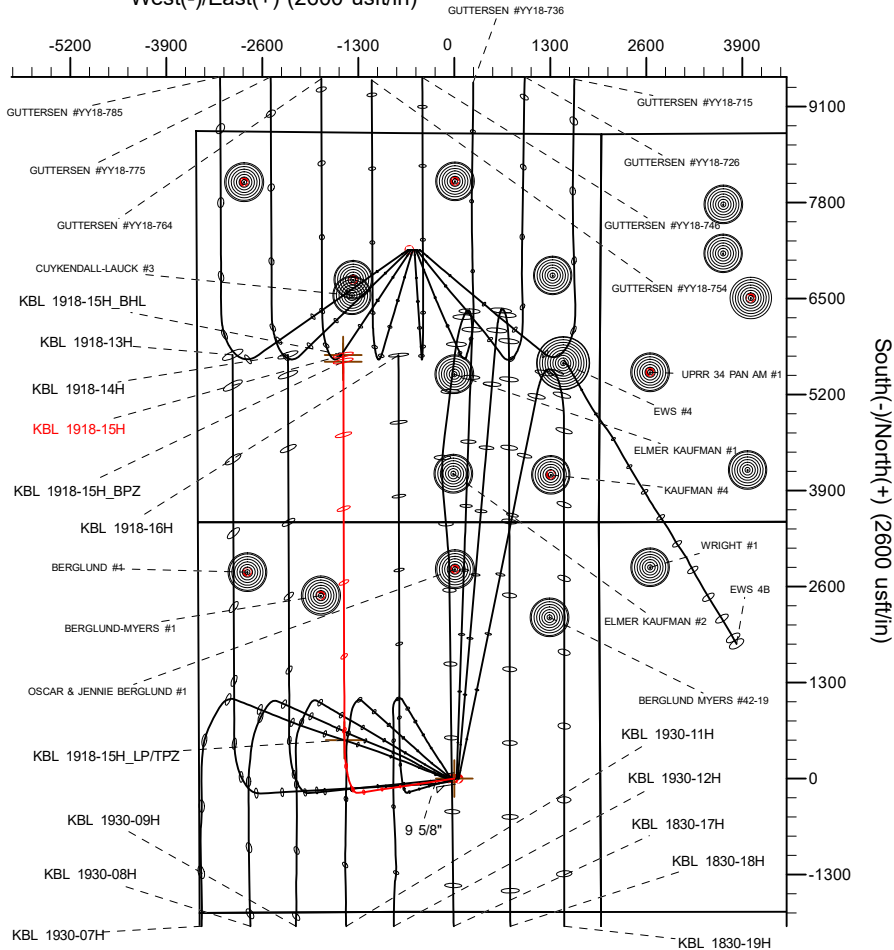
Project: WATTENBERG FIELD  
Site: 2N-63W-19 KBL PAD  
Well: KBL 1918-15H  
Wellbore: Plan A  
Design: Design #1

# VERDAD RESOURCES

## CASING DETAILS

TVD	MD	Name	Size
1816.00	1844.49	9 5/8"	9-5/8

West(-)/East(+) (2600 usft/in)



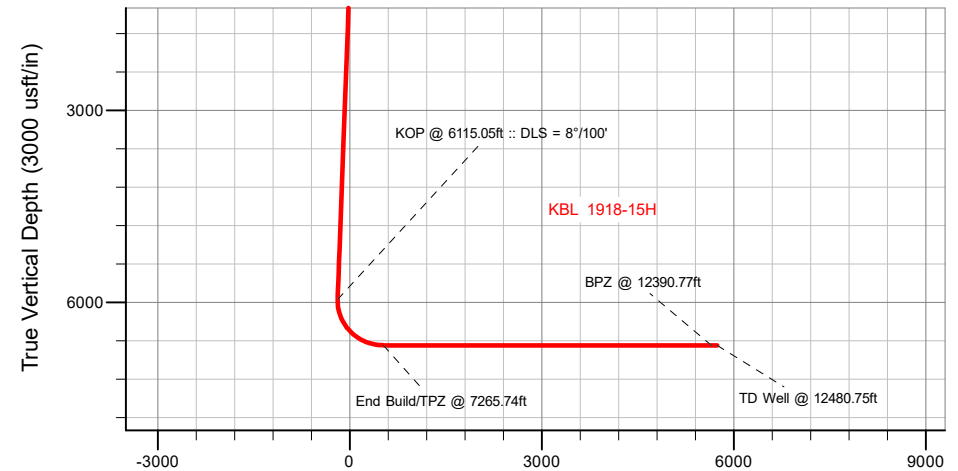
South(-)/North(+) (2600 usft/in)

## SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
460.10	0.00	0.00	460.10	0.00	0.00	0.00	0.00	0.00	
1181.10	14.42	261.55	1173.51	-13.26	-89.27	2.00	261.55	-13.00	
6115.05	14.42	261.55	5952.02	-193.81	-1304.63	0.00	0.00	-189.94	
7265.74	90.00	359.83	6671.00	521.38	-1489.67	8.00	98.02	525.80	
12480.75	90.00	359.83	6671.00	5736.36	-1505.03	0.00	0.00	5740.80	KBL 1918-15H_BHL

## WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	Northing	Easting	Latitude	Longitude
KBL 1918-15H_SHL	0.00	1288791.55	3285825.83	40.121604	-104.477908
KBL 1918-15H_LP/TPZ	6671.00	1289295.68	3284330.23	40.123035	-104.483235
KBL 1918-15H_BPZ	6671.00	1294420.22	3284256.09	40.137104	-104.483290
KBL 1918-15H_BHL	6671.00	1294510.18	3284254.78	40.137351	-104.483291



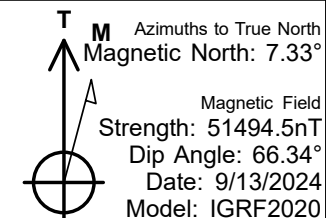
Vertical Section at 359.83° (3000 usft/in)

SHL  
1805' FSL  
1976' FEL

TPZ  
2330' FSL  
1971' FWL

BPZ  
2175' FSL  
1977' FWL

BHL  
2265' FSL  
1977' FWL



## WELL DETAILS: KBL 1918-15H

GL = 4861'

RKB = 21' @ 4882.00usft (RIG)

Plan: Design #1 (KBL 1918-15H/Plan A)

Date: 9/17/2024

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well KBL 1918-15H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 21' @ 4882.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 21' @ 4882.00usft (RIG)
Site:	2N-63W-19 KBL PAD	North Reference:	True
Well:	KBL 1918-15H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Design #1		

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

Site		2N-63W-19 KBL PAD				
Site Position:		Northing:	1,288,791.50	usft	Latitude:	40.121610
From:	Lat/Long	Easting:	3,285,630.62	usft	Longitude:	-104.478606
Position Uncertainty:		0.00	usft	Slot Radius:	13-3/16	"

Well	KBL 1918-15H					
Well Position	+N/-S	0.00 usft	Northing:	1,288,791.55 usft	Latitude:	40.121604
	+E/-W	0.00 usft	Easting:	3,285,825.83 usft	Longitude:	-104.477908
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft	Ground Level:	4,861.00 usft
Grid Convergence:		0.66 °				

Wellbore	Plan A				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF202013	9/13/2024	7.33	66.34	51,494.53088501

Design	Design #1				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:		Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
		0.00	0.00	0.00	359.83

Plan Survey Tool Program		Date	9/17/2024		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	1,816.00	Design #1 (Plan A)	ISCWSA MWD	
				Fixed:v2:standard declination	
2	1,816.00	12,480.75	Design #1 (Plan A)	ISCWSA MWD	
				Fixed:v2:standard declination	

Planning Report

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Project:	WATTENBERG FIELD	MD Reference:	RKB = 21' @ 4882.00usft (RIG)
Site:	2N-63W-19 KBL PAD	North Reference:	True
Well:	KBL 1918-15H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Design #1		

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	
460.10	0.00	0.00	460.10	0.00	0.00	0.00	0.00	0.00	0.00	
1,181.10	14.42	261.55	1,173.51	-13.26	-89.27	2.00	2.00	0.00	261.55	
6,115.05	14.42	261.55	5,952.03	-193.81	-1,304.63	0.00	0.00	0.00	0.00	
7,265.74	90.00	359.83	6,671.00	521.38	-1,489.67	8.00	6.57	8.54	98.02	
12,480.75	90.00	359.83	6,671.00	5,736.36	-1,505.03	0.00	0.00	0.00	0.00	KBL 1918-15H_BHL

## Planning Report

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<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 21' @ 4882.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 21' @ 4882.00usft (RIG)
<b>Site:</b>	2N-63W-19 KBL PAD	<b>North Reference:</b>	True
<b>Well:</b>	KBL 1918-15H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Design #1		

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
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
460.10	0.00	0.00	460.10	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 460.10ft									
500.00	0.80	261.55	500.00	-0.04	-0.27	-0.04	2.00	2.00	0.00
600.00	2.80	261.55	599.94	-0.50	-3.38	-0.49	2.00	2.00	0.00
700.00	4.80	261.55	699.72	-1.48	-9.93	-1.45	2.00	2.00	0.00
800.00	6.80	261.55	799.20	-2.96	-19.92	-2.90	2.00	2.00	0.00
900.00	8.80	261.55	898.27	-4.95	-33.34	-4.85	2.00	2.00	0.00
1,000.00	10.80	261.55	996.81	-7.45	-50.17	-7.30	2.00	2.00	0.00
1,100.00	12.80	261.55	1,094.69	-10.46	-70.40	-10.25	2.00	2.00	0.00
1,181.10	14.42	261.55	1,173.51	-13.26	-89.27	-13.00	2.00	2.00	0.00
Hold Tangent @ 1181.10ft									
1,200.00	14.42	261.55	1,191.82	-13.95	-93.93	-13.67	0.00	0.00	0.00
1,300.00	14.42	261.55	1,288.67	-17.61	-118.56	-17.26	0.00	0.00	0.00
1,400.00	14.42	261.55	1,385.52	-21.27	-143.19	-20.85	0.00	0.00	0.00
1,500.00	14.42	261.55	1,482.37	-24.93	-167.82	-24.43	0.00	0.00	0.00
1,600.00	14.42	261.55	1,579.22	-28.59	-192.46	-28.02	0.00	0.00	0.00
1,700.00	14.42	261.55	1,676.07	-32.25	-217.09	-31.61	0.00	0.00	0.00
1,800.00	14.42	261.55	1,772.91	-35.91	-241.72	-35.19	0.00	0.00	0.00
1,844.49	14.42	261.55	1,816.00	-37.54	-252.68	-36.79	0.00	0.00	0.00
9 5/8"									
1,900.00	14.42	261.55	1,869.76	-39.57	-266.35	-38.78	0.00	0.00	0.00
2,000.00	14.42	261.55	1,966.61	-43.23	-290.99	-42.37	0.00	0.00	0.00
2,100.00	14.42	261.55	2,063.46	-46.89	-315.62	-45.95	0.00	0.00	0.00
2,200.00	14.42	261.55	2,160.31	-50.55	-340.25	-49.54	0.00	0.00	0.00
2,300.00	14.42	261.55	2,257.16	-54.21	-364.88	-53.12	0.00	0.00	0.00
2,400.00	14.42	261.55	2,354.01	-57.87	-389.52	-56.71	0.00	0.00	0.00
2,500.00	14.42	261.55	2,450.86	-61.53	-414.15	-60.30	0.00	0.00	0.00
2,600.00	14.42	261.55	2,547.71	-65.18	-438.78	-63.88	0.00	0.00	0.00
2,700.00	14.42	261.55	2,644.56	-68.84	-463.41	-67.47	0.00	0.00	0.00
2,800.00	14.42	261.55	2,741.41	-72.50	-488.05	-71.06	0.00	0.00	0.00
2,900.00	14.42	261.55	2,838.26	-76.16	-512.68	-74.64	0.00	0.00	0.00
3,000.00	14.42	261.55	2,935.11	-79.82	-537.31	-78.23	0.00	0.00	0.00
3,100.00	14.42	261.55	3,031.96	-83.48	-561.94	-81.81	0.00	0.00	0.00
3,200.00	14.42	261.55	3,128.81	-87.14	-586.58	-85.40	0.00	0.00	0.00
3,300.00	14.42	261.55	3,225.66	-90.80	-611.21	-88.99	0.00	0.00	0.00
3,400.00	14.42	261.55	3,322.51	-94.46	-635.84	-92.57	0.00	0.00	0.00
3,500.00	14.42	261.55	3,419.36	-98.12	-660.47	-96.16	0.00	0.00	0.00
3,600.00	14.42	261.55	3,516.21	-101.78	-685.11	-99.75	0.00	0.00	0.00
3,700.00	14.42	261.55	3,613.06	-105.44	-709.74	-103.33	0.00	0.00	0.00
3,800.00	14.42	261.55	3,709.91	-109.10	-734.37	-106.92	0.00	0.00	0.00
3,900.00	14.42	261.55	3,806.76	-112.76	-759.00	-110.50	0.00	0.00	0.00
4,000.00	14.42	261.55	3,903.61	-116.42	-783.64	-114.09	0.00	0.00	0.00
4,100.00	14.42	261.55	4,000.46	-120.08	-808.27	-117.68	0.00	0.00	0.00
4,200.00	14.42	261.55	4,097.31	-123.73	-832.90	-121.26	0.00	0.00	0.00
4,300.00	14.42	261.55	4,194.16	-127.39	-857.53	-124.85	0.00	0.00	0.00
4,400.00	14.42	261.55	4,291.01	-131.05	-882.17	-128.44	0.00	0.00	0.00
4,500.00	14.42	261.55	4,387.86	-134.71	-906.80	-132.02	0.00	0.00	0.00
4,600.00	14.42	261.55	4,484.70	-138.37	-931.43	-135.61	0.00	0.00	0.00

# Planning Report

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<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 21' @ 4882.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 21' @ 4882.00usft (RIG)
<b>Site:</b>	2N-63W-19 KBL PAD	<b>North Reference:</b>	True
<b>Well:</b>	KBL 1918-15H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Design #1		

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	14.42	261.55	4,581.55	-142.03	-956.06	-139.19	0.00	0.00	0.00
4,800.00	14.42	261.55	4,678.40	-145.69	-980.70	-142.78	0.00	0.00	0.00
4,900.00	14.42	261.55	4,775.25	-149.35	-1,005.33	-146.37	0.00	0.00	0.00
5,000.00	14.42	261.55	4,872.10	-153.01	-1,029.96	-149.95	0.00	0.00	0.00
5,100.00	14.42	261.55	4,968.95	-156.67	-1,054.59	-153.54	0.00	0.00	0.00
5,200.00	14.42	261.55	5,065.80	-160.33	-1,079.23	-157.13	0.00	0.00	0.00
5,300.00	14.42	261.55	5,162.65	-163.99	-1,103.86	-160.71	0.00	0.00	0.00
5,400.00	14.42	261.55	5,259.50	-167.65	-1,128.49	-164.30	0.00	0.00	0.00
5,500.00	14.42	261.55	5,356.35	-171.31	-1,153.12	-167.88	0.00	0.00	0.00
5,600.00	14.42	261.55	5,453.20	-174.97	-1,177.76	-171.47	0.00	0.00	0.00
5,700.00	14.42	261.55	5,550.05	-178.63	-1,202.39	-175.06	0.00	0.00	0.00
5,800.00	14.42	261.55	5,646.90	-182.28	-1,227.02	-178.64	0.00	0.00	0.00
5,900.00	14.42	261.55	5,743.75	-185.94	-1,251.65	-182.23	0.00	0.00	0.00
6,000.00	14.42	261.55	5,840.60	-189.60	-1,276.29	-185.82	0.00	0.00	0.00
6,100.00	14.42	261.55	5,937.45	-193.26	-1,300.92	-189.40	0.00	0.00	0.00
6,115.05	14.42	261.55	5,952.03	-193.81	-1,304.63	-189.94	0.00	0.00	0.00
KOP @ 6115.05ft :: DLS = 8°/100'									
6,150.00	14.29	272.83	5,985.89	-194.24	-1,313.24	-190.34	8.00	-0.36	32.28
6,200.00	15.03	288.42	6,034.28	-191.89	-1,325.56	-187.95	8.00	1.46	31.17
6,250.00	16.69	301.77	6,082.39	-186.06	-1,337.82	-182.08	8.00	3.33	26.71
6,300.00	19.05	312.35	6,129.99	-176.77	-1,349.96	-172.77	8.00	4.71	21.15
6,350.00	21.87	320.49	6,176.84	-164.09	-1,361.92	-160.05	8.00	5.64	16.27
6,400.00	25.00	326.76	6,222.72	-148.06	-1,373.64	-143.99	8.00	6.26	12.55
6,450.00	28.34	331.68	6,267.40	-128.77	-1,385.06	-124.66	8.00	6.68	9.84
6,500.00	31.82	335.62	6,310.66	-106.31	-1,396.14	-102.17	8.00	6.96	7.88
6,550.00	35.40	338.85	6,352.30	-80.79	-1,406.81	-76.62	8.00	7.16	6.46
6,600.00	39.05	341.55	6,392.11	-52.33	-1,417.02	-48.13	8.00	7.30	5.40
6,650.00	42.75	343.86	6,429.90	-21.08	-1,426.73	-16.85	8.00	7.41	4.61
6,700.00	46.50	345.86	6,465.48	12.82	-1,435.88	17.08	8.00	7.49	4.00
6,750.00	50.27	347.62	6,498.68	49.20	-1,444.44	53.49	8.00	7.55	3.53
6,800.00	54.07	349.21	6,529.34	87.88	-1,452.35	92.19	8.00	7.60	3.17
6,850.00	57.89	350.64	6,557.31	128.68	-1,459.59	133.01	8.00	7.64	2.87
6,900.00	61.73	351.97	6,582.45	171.40	-1,466.11	175.74	8.00	7.67	2.64
6,950.00	65.57	353.19	6,604.64	215.82	-1,471.89	220.18	8.00	7.69	2.46
7,000.00	69.43	354.35	6,623.77	261.73	-1,476.89	266.11	8.00	7.71	2.31
7,050.00	73.29	355.45	6,639.75	308.91	-1,481.10	313.30	8.00	7.72	2.20
7,100.00	77.16	356.51	6,652.50	357.13	-1,484.48	361.53	8.00	7.74	2.11
7,150.00	81.03	357.53	6,661.96	406.15	-1,487.03	410.56	8.00	7.74	2.05
7,200.00	84.90	358.53	6,668.08	455.73	-1,488.74	460.15	8.00	7.75	2.00
7,250.00	88.78	359.52	6,670.83	505.64	-1,489.58	510.06	8.00	7.75	1.98
7,265.74	90.00	359.83	6,671.00	521.38	-1,489.67	525.80	8.00	7.75	1.97
End Build/TPZ @ 7265.74ft									
7,300.00	90.00	359.83	6,671.00	555.64	-1,489.77	560.05	0.00	0.00	0.00
7,400.00	90.00	359.83	6,671.00	655.64	-1,490.07	660.05	0.00	0.00	0.00
7,500.00	90.00	359.83	6,671.00	755.64	-1,490.36	760.05	0.00	0.00	0.00
7,600.00	90.00	359.83	6,671.00	855.64	-1,490.66	860.05	0.00	0.00	0.00
7,700.00	90.00	359.83	6,671.00	955.63	-1,490.95	960.05	0.00	0.00	0.00
7,800.00	90.00	359.83	6,671.00	1,055.63	-1,491.25	1,060.05	0.00	0.00	0.00
7,900.00	90.00	359.83	6,671.00	1,155.63	-1,491.54	1,160.05	0.00	0.00	0.00
8,000.00	90.00	359.83	6,671.00	1,255.63	-1,491.84	1,260.05	0.00	0.00	0.00
8,100.00	90.00	359.83	6,671.00	1,355.63	-1,492.13	1,360.05	0.00	0.00	0.00
8,200.00	90.00	359.83	6,671.00	1,455.63	-1,492.42	1,460.05	0.00	0.00	0.00
8,300.00	90.00	359.83	6,671.00	1,555.63	-1,492.72	1,560.05	0.00	0.00	0.00
8,400.00	90.00	359.83	6,671.00	1,655.63	-1,493.01	1,660.05	0.00	0.00	0.00

## Planning Report

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<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 21' @ 4882.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 21' @ 4882.00usft (RIG)
<b>Site:</b>	2N-63W-19 KBL PAD	<b>North Reference:</b>	True
<b>Well:</b>	KBL 1918-15H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Design #1		

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)	
8,500.00	90.00	359.83	6,671.00	1,755.63	-1,493.31	1,760.05	0.00	0.00	0.00	
8,600.00	90.00	359.83	6,671.00	1,855.63	-1,493.60	1,860.05	0.00	0.00	0.00	
8,700.00	90.00	359.83	6,671.00	1,955.63	-1,493.90	1,960.05	0.00	0.00	0.00	
8,800.00	90.00	359.83	6,671.00	2,055.63	-1,494.19	2,060.05	0.00	0.00	0.00	
8,900.00	90.00	359.83	6,671.00	2,155.63	-1,494.49	2,160.05	0.00	0.00	0.00	
9,000.00	90.00	359.83	6,671.00	2,255.63	-1,494.78	2,260.05	0.00	0.00	0.00	
9,100.00	90.00	359.83	6,671.00	2,355.63	-1,495.07	2,360.05	0.00	0.00	0.00	
9,200.00	90.00	359.83	6,671.00	2,455.63	-1,495.37	2,460.05	0.00	0.00	0.00	
9,300.00	90.00	359.83	6,671.00	2,555.63	-1,495.66	2,560.05	0.00	0.00	0.00	
9,400.00	90.00	359.83	6,671.00	2,655.63	-1,495.96	2,660.05	0.00	0.00	0.00	
9,500.00	90.00	359.83	6,671.00	2,755.63	-1,496.25	2,760.05	0.00	0.00	0.00	
9,600.00	90.00	359.83	6,671.00	2,855.63	-1,496.55	2,860.05	0.00	0.00	0.00	
9,700.00	90.00	359.83	6,671.00	2,955.63	-1,496.84	2,960.05	0.00	0.00	0.00	
9,800.00	90.00	359.83	6,671.00	3,055.63	-1,497.14	3,060.05	0.00	0.00	0.00	
9,900.00	90.00	359.83	6,671.00	3,155.63	-1,497.43	3,160.05	0.00	0.00	0.00	
10,000.00	90.00	359.83	6,671.00	3,255.62	-1,497.72	3,260.05	0.00	0.00	0.00	
10,100.00	90.00	359.83	6,671.00	3,355.62	-1,498.02	3,360.05	0.00	0.00	0.00	
10,200.00	90.00	359.83	6,671.00	3,455.62	-1,498.31	3,460.05	0.00	0.00	0.00	
10,300.00	90.00	359.83	6,671.00	3,555.62	-1,498.61	3,560.05	0.00	0.00	0.00	
10,400.00	90.00	359.83	6,671.00	3,655.62	-1,498.90	3,660.05	0.00	0.00	0.00	
10,500.00	90.00	359.83	6,671.00	3,755.62	-1,499.20	3,760.05	0.00	0.00	0.00	
10,600.00	90.00	359.83	6,671.00	3,855.62	-1,499.49	3,860.05	0.00	0.00	0.00	
10,700.00	90.00	359.83	6,671.00	3,955.62	-1,499.79	3,960.05	0.00	0.00	0.00	
10,800.00	90.00	359.83	6,671.00	4,055.62	-1,500.08	4,060.05	0.00	0.00	0.00	
10,900.00	90.00	359.83	6,671.00	4,155.62	-1,500.37	4,160.05	0.00	0.00	0.00	
11,000.00	90.00	359.83	6,671.00	4,255.62	-1,500.67	4,260.05	0.00	0.00	0.00	
11,100.00	90.00	359.83	6,671.00	4,355.62	-1,500.96	4,360.05	0.00	0.00	0.00	
11,200.00	90.00	359.83	6,671.00	4,455.62	-1,501.26	4,460.05	0.00	0.00	0.00	
11,300.00	90.00	359.83	6,671.00	4,555.62	-1,501.55	4,560.05	0.00	0.00	0.00	
11,400.00	90.00	359.83	6,671.00	4,655.62	-1,501.85	4,660.05	0.00	0.00	0.00	
11,500.00	90.00	359.83	6,671.00	4,755.62	-1,502.14	4,760.05	0.00	0.00	0.00	
11,600.00	90.00	359.83	6,671.00	4,855.62	-1,502.44	4,860.05	0.00	0.00	0.00	
11,700.00	90.00	359.83	6,671.00	4,955.62	-1,502.73	4,960.05	0.00	0.00	0.00	
11,800.00	90.00	359.83	6,671.00	5,055.62	-1,503.03	5,060.05	0.00	0.00	0.00	
11,900.00	90.00	359.83	6,671.00	5,155.62	-1,503.32	5,160.05	0.00	0.00	0.00	
12,000.00	90.00	359.83	6,671.00	5,255.62	-1,503.61	5,260.05	0.00	0.00	0.00	
12,100.00	90.00	359.83	6,671.00	5,355.62	-1,503.91	5,360.05	0.00	0.00	0.00	
12,200.00	90.00	359.83	6,671.00	5,455.62	-1,504.20	5,460.05	0.00	0.00	0.00	
12,300.00	90.00	359.83	6,671.00	5,555.61	-1,504.50	5,560.05	0.00	0.00	0.00	
12,390.77	90.00	359.83	6,671.00	5,646.38	-1,504.76	5,650.82	0.00	0.00	0.00	
BPZ @ 12390.77ft										
12,400.00	90.00	359.83	6,671.00	5,655.61	-1,504.79	5,660.05	0.00	0.00	0.00	
12,480.75	90.00	359.83	6,671.00	5,736.36	-1,505.03	5,740.80	0.00	0.00	0.00	
TD Well @ 12480.75ft										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
1,844.49	1,816.00	9 5/8"		9-5/8	13-1/2

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well KBL 1918-15H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 21' @ 4882.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 21' @ 4882.00usft (RIG)
Site:	2N-63W-19 KBL PAD	North Reference:	True
Well:	KBL 1918-15H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Design #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
460.10	460.10	0.00	0.00	Begin Nudge @ 460.10ft
1,181.10	1,173.51	-13.26	-89.27	Hold Tangent @ 1181.10ft
6,115.05	5,952.03	-193.81	-1,304.63	KOP @ 6115.05ft :: DLS = 8°/100'
7,265.74	6,671.00	521.38	-1,489.67	End Build/TPZ @ 7265.74ft
12,390.77	6,671.00	5,646.38	-1,504.76	BPZ @ 12390.77ft
12,480.75	6,671.00	5,736.36	-1,505.03	TD Well @ 12480.75ft