

VERDAD RESOURCES

WATTENBERG FIELD

2N-63W-19 KBL PAD

KBL 1918-16H

Plan A

Plan: Design #1

Standard Planning Report

17 September, 2024

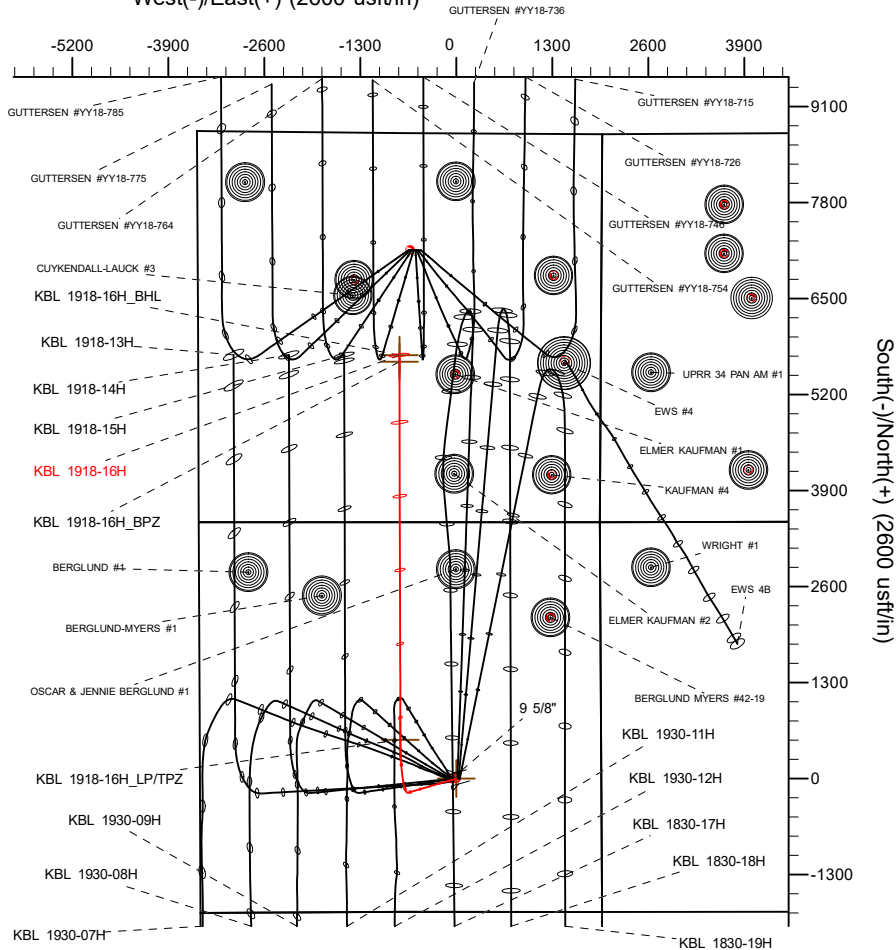
Project: WATTENBERG FIELD
Site: 2N-63W-19 KBL PAD
Well: KBL 1918-16H
Wellbore: Plan A
Design: Design #1

VERDAD RESOURCES

CASING DETAILS

TVD	MD	Name	Size
1816.00	1822.09	9 5/8"	9-5/8

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



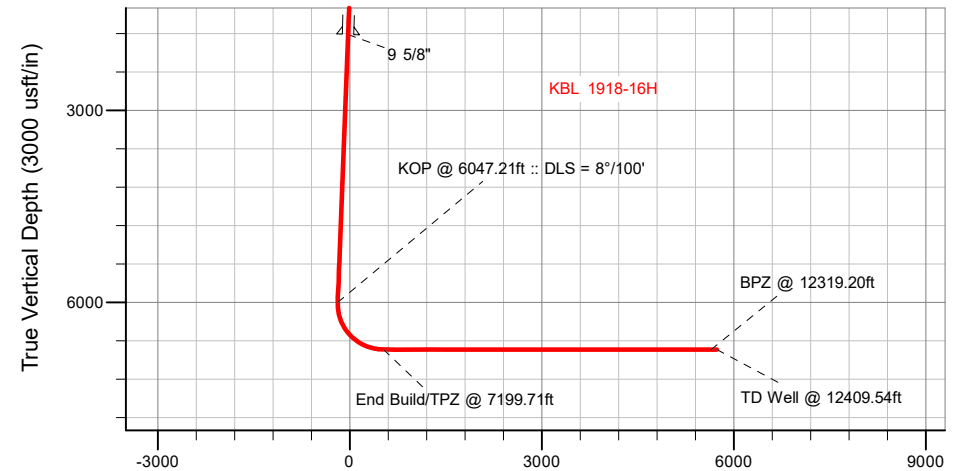
South(-)/North(+) (2600 usft/in)

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	
930.00	0.00	0.00	930.00	0.00	0.00	0.00	0.00	0.00	
1330.00	8.00	253.85	1328.70	-7.75	-26.78	2.00	253.85	-7.69	
6047.21	8.00	253.85	6000.00	-190.36	-657.38	0.00	0.00	-188.76	
7199.71	90.00	359.86	6737.00	525.06	-758.65	8.00	105.87	526.92	
12409.54	90.00	359.86	6737.00	5734.88	-771.11	0.00	0.00	5736.75	KBL 1918-16H_BHL

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	Northing	Easting	Latitude	Longitude
KBL 1918-16H_SHL	0.00	1288791.71	3285840.65	40.121604	-104.477855
KBL 1918-16H_LP/TPZ	6737.00	1289308.25	3285075.96	40.123046	-104.480568
KBL 1918-16H_BPZ	6737.00	1294426.99	3285004.81	40.137099	-104.480612
KBL 1918-16H_BHL	6737.00	1294517.32	3285003.49	40.137347	-104.480613



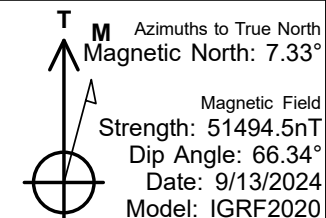
Vertical Section at 359.86° (3000 usft/in)

SHL
1805' FSL
1961' FEL

TPZ
2330' FSL
2717' FWL

BPZ
2174' FSL
2726' FWL

BHL
2264' FSL
2726' FWL



WELL DETAILS: KBL 1918-16H

GL = 4861'

RKB = 21' @ 4882.00usft (RIG)

Plan: Design #1 (KBL 1918-16H/Plan A)

Date: 9/17/2024

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well KBL 1918-16H
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 1918-16H	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 1918-16H			
Well Position	+N/-S	0.00 usft	Northing:	1,288,791.71 usft
	+E/-W	0.00 usft	Easting:	3,285,840.65 usft
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft
Grid Convergence:		0.66 °	Ground Level:	4,861.00 usft

Wellbore	Plan A				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF202013	9/13/2024	7.33	66.34	51,494.53622491

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	359.86

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	12,409.54	Design #1 (Plan A)	ISCWSA MWD	
				Fixed:v2:standard declination	

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well KBL 1918-16H
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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 1918-16H	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	
930.00	0.00	0.00	930.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,330.00	8.00	253.85	1,328.70	-7.75	-26.78	2.00	2.00	0.00	253.85	
6,047.21	8.00	253.85	6,000.00	-190.36	-657.38	0.00	0.00	0.00	0.00	
7,199.71	90.00	359.86	6,737.00	525.06	-758.65	8.00	7.11	9.20	105.87	
12,409.54	90.00	359.86	6,737.00	5,734.88	-771.11	0.00	0.00	0.00	0.00	KBL 1918-16H_BHL

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well KBL 1918-16H
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 1918-16H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	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
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
930.00	0.00	0.00	930.00	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 930.00ft									
1,000.00	1.40	253.85	999.99	-0.24	-0.82	-0.24	2.00	2.00	0.00
1,100.00	3.40	253.85	1,099.90	-1.40	-4.84	-1.39	2.00	2.00	0.00
1,200.00	5.40	253.85	1,199.60	-3.54	-12.21	-3.51	2.00	2.00	0.00
1,300.00	7.40	253.85	1,298.97	-6.64	-22.92	-6.58	2.00	2.00	0.00
1,330.00	8.00	253.85	1,328.70	-7.75	-26.78	-7.69	2.00	2.00	0.00
Hold Tangent @ 1330.00ft									
1,400.00	8.00	253.85	1,398.02	-10.46	-36.14	-10.38	0.00	0.00	0.00
1,500.00	8.00	253.85	1,497.05	-14.34	-49.51	-14.21	0.00	0.00	0.00
1,600.00	8.00	253.85	1,596.07	-18.21	-62.87	-18.05	0.00	0.00	0.00
1,700.00	8.00	253.85	1,695.10	-22.08	-76.24	-21.89	0.00	0.00	0.00
1,800.00	8.00	253.85	1,794.13	-25.95	-89.61	-25.73	0.00	0.00	0.00
1,822.09	8.00	253.85	1,816.00	-26.80	-92.56	-26.58	0.00	0.00	0.00
9 5/8"									
1,900.00	8.00	253.85	1,893.15	-29.82	-102.98	-29.57	0.00	0.00	0.00
2,000.00	8.00	253.85	1,992.18	-33.69	-116.35	-33.41	0.00	0.00	0.00
2,100.00	8.00	253.85	2,091.21	-37.56	-129.71	-37.25	0.00	0.00	0.00
2,200.00	8.00	253.85	2,190.23	-41.43	-143.08	-41.08	0.00	0.00	0.00
2,300.00	8.00	253.85	2,289.26	-45.30	-156.45	-44.92	0.00	0.00	0.00
2,400.00	8.00	253.85	2,388.29	-49.18	-169.82	-48.76	0.00	0.00	0.00
2,500.00	8.00	253.85	2,487.32	-53.05	-183.19	-52.60	0.00	0.00	0.00
2,600.00	8.00	253.85	2,586.34	-56.92	-196.55	-56.44	0.00	0.00	0.00
2,700.00	8.00	253.85	2,685.37	-60.79	-209.92	-60.28	0.00	0.00	0.00
2,800.00	8.00	253.85	2,784.40	-64.66	-223.29	-64.11	0.00	0.00	0.00
2,900.00	8.00	253.85	2,883.42	-68.53	-236.66	-67.95	0.00	0.00	0.00
3,000.00	8.00	253.85	2,982.45	-72.40	-250.03	-71.79	0.00	0.00	0.00
3,100.00	8.00	253.85	3,081.48	-76.27	-263.39	-75.63	0.00	0.00	0.00
3,200.00	8.00	253.85	3,180.50	-80.15	-276.76	-79.47	0.00	0.00	0.00
3,300.00	8.00	253.85	3,279.53	-84.02	-290.13	-83.31	0.00	0.00	0.00
3,400.00	8.00	253.85	3,378.56	-87.89	-303.50	-87.15	0.00	0.00	0.00
3,500.00	8.00	253.85	3,477.58	-91.76	-316.87	-90.98	0.00	0.00	0.00
3,600.00	8.00	253.85	3,576.61	-95.63	-330.24	-94.82	0.00	0.00	0.00
3,700.00	8.00	253.85	3,675.64	-99.50	-343.60	-98.66	0.00	0.00	0.00
3,800.00	8.00	253.85	3,774.66	-103.37	-356.97	-102.50	0.00	0.00	0.00
3,900.00	8.00	253.85	3,873.69	-107.24	-370.34	-106.34	0.00	0.00	0.00
4,000.00	8.00	253.85	3,972.72	-111.11	-383.71	-110.18	0.00	0.00	0.00
4,100.00	8.00	253.85	4,071.74	-114.99	-397.08	-114.01	0.00	0.00	0.00
4,200.00	8.00	253.85	4,170.77	-118.86	-410.44	-117.85	0.00	0.00	0.00
4,300.00	8.00	253.85	4,269.80	-122.73	-423.81	-121.69	0.00	0.00	0.00
4,400.00	8.00	253.85	4,368.82	-126.60	-437.18	-125.53	0.00	0.00	0.00
4,500.00	8.00	253.85	4,467.85	-130.47	-450.55	-129.37	0.00	0.00	0.00
4,600.00	8.00	253.85	4,566.88	-134.34	-463.92	-133.21	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well KBL 1918-16H
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 1918-16H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	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	8.00	253.85	4,665.91	-138.21	-477.28	-137.05	0.00	0.00	0.00
4,800.00	8.00	253.85	4,764.93	-142.08	-490.65	-140.88	0.00	0.00	0.00
4,900.00	8.00	253.85	4,863.96	-145.95	-504.02	-144.72	0.00	0.00	0.00
5,000.00	8.00	253.85	4,962.99	-149.83	-517.39	-148.56	0.00	0.00	0.00
5,100.00	8.00	253.85	5,062.01	-153.70	-530.76	-152.40	0.00	0.00	0.00
5,200.00	8.00	253.85	5,161.04	-157.57	-544.12	-156.24	0.00	0.00	0.00
5,300.00	8.00	253.85	5,260.07	-161.44	-557.49	-160.08	0.00	0.00	0.00
5,400.00	8.00	253.85	5,359.09	-165.31	-570.86	-163.91	0.00	0.00	0.00
5,500.00	8.00	253.85	5,458.12	-169.18	-584.23	-167.75	0.00	0.00	0.00
5,600.00	8.00	253.85	5,557.15	-173.05	-597.60	-171.59	0.00	0.00	0.00
5,700.00	8.00	253.85	5,656.17	-176.92	-610.97	-175.43	0.00	0.00	0.00
5,800.00	8.00	253.85	5,755.20	-180.79	-624.33	-179.27	0.00	0.00	0.00
5,900.00	8.00	253.85	5,854.23	-184.67	-637.70	-183.11	0.00	0.00	0.00
6,000.00	8.00	253.85	5,953.25	-188.54	-651.07	-186.95	0.00	0.00	0.00
6,047.21	8.00	253.85	6,000.00	-190.36	-657.38	-188.76	0.00	0.00	0.00
KOP @ 6047.21ft :: DLS = 8°/100'									
6,050.00	7.94	255.40	6,002.77	-190.47	-657.75	-188.86	8.00	-2.08	55.70
6,100.00	7.95	284.64	6,052.31	-190.46	-664.45	-188.84	8.00	0.02	58.48
6,150.00	9.76	308.11	6,101.72	-186.97	-671.13	-185.33	8.00	3.61	46.92
6,200.00	12.61	322.72	6,150.78	-180.01	-677.77	-178.35	8.00	5.70	29.23
6,250.00	15.96	331.67	6,199.23	-169.61	-684.34	-167.94	8.00	6.69	17.90
6,300.00	19.55	337.50	6,246.85	-155.83	-690.81	-154.14	8.00	7.18	11.65
6,350.00	23.26	341.55	6,293.39	-138.73	-697.14	-137.03	8.00	7.44	8.10
6,400.00	27.06	344.53	6,338.64	-118.39	-703.30	-116.67	8.00	7.59	5.96
6,450.00	30.90	346.82	6,382.37	-94.92	-709.26	-93.19	8.00	7.69	4.58
6,500.00	34.78	348.65	6,424.38	-68.43	-715.00	-66.68	8.00	7.75	3.65
6,550.00	38.68	350.15	6,464.44	-39.04	-720.48	-37.28	8.00	7.80	3.00
6,600.00	42.59	351.41	6,502.38	-6.90	-725.68	-5.13	8.00	7.83	2.53
6,650.00	46.52	352.50	6,538.00	27.82	-730.58	29.61	8.00	7.85	2.18
6,700.00	50.45	353.46	6,571.14	64.98	-735.14	66.77	8.00	7.87	1.91
6,750.00	54.40	354.31	6,601.62	104.37	-739.36	106.18	8.00	7.88	1.71
6,800.00	58.34	355.09	6,629.31	145.82	-743.20	147.63	8.00	7.90	1.55
6,850.00	62.30	355.80	6,654.06	189.11	-746.64	190.94	8.00	7.90	1.42
6,900.00	66.25	356.46	6,675.76	234.04	-749.68	235.87	8.00	7.91	1.32
6,950.00	70.21	357.08	6,694.30	280.39	-752.30	282.23	8.00	7.92	1.24
7,000.00	74.17	357.67	6,709.59	327.94	-754.48	329.78	8.00	7.92	1.18
7,050.00	78.13	358.24	6,721.55	376.44	-756.21	378.29	8.00	7.92	1.14
7,100.00	82.10	358.79	6,730.14	425.68	-757.49	427.53	8.00	7.93	1.10
7,150.00	86.06	359.33	6,735.29	475.39	-758.30	477.24	8.00	7.93	1.08
7,199.71	90.00	359.86	6,737.00	525.06	-758.65	526.92	8.00	7.93	1.07
End Build/TPZ @ 7199.71ft									
7,300.00	90.00	359.86	6,737.00	625.35	-758.89	627.20	0.00	0.00	0.00
7,400.00	90.00	359.86	6,737.00	725.35	-759.13	727.20	0.00	0.00	0.00
7,500.00	90.00	359.86	6,737.00	825.35	-759.37	827.20	0.00	0.00	0.00
7,600.00	90.00	359.86	6,737.00	925.35	-759.61	927.20	0.00	0.00	0.00
7,700.00	90.00	359.86	6,737.00	1,025.35	-759.85	1,027.20	0.00	0.00	0.00
7,800.00	90.00	359.86	6,737.00	1,125.35	-760.09	1,127.20	0.00	0.00	0.00
7,900.00	90.00	359.86	6,737.00	1,225.35	-760.33	1,227.20	0.00	0.00	0.00
8,000.00	90.00	359.86	6,737.00	1,325.35	-760.56	1,327.20	0.00	0.00	0.00
8,100.00	90.00	359.86	6,737.00	1,425.35	-760.80	1,427.20	0.00	0.00	0.00
8,200.00	90.00	359.86	6,737.00	1,525.35	-761.04	1,527.20	0.00	0.00	0.00
8,300.00	90.00	359.86	6,737.00	1,625.35	-761.28	1,627.20	0.00	0.00	0.00
8,400.00	90.00	359.86	6,737.00	1,725.35	-761.52	1,727.20	0.00	0.00	0.00
8,500.00	90.00	359.86	6,737.00	1,825.35	-761.76	1,827.20	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well KBL 1918-16H
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 1918-16H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	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)	
8,600.00	90.00	359.86	6,737.00	1,925.35	-762.00	1,927.20	0.00	0.00	0.00	
8,700.00	90.00	359.86	6,737.00	2,025.35	-762.24	2,027.20	0.00	0.00	0.00	
8,800.00	90.00	359.86	6,737.00	2,125.35	-762.48	2,127.20	0.00	0.00	0.00	
8,900.00	90.00	359.86	6,737.00	2,225.35	-762.72	2,227.20	0.00	0.00	0.00	
9,000.00	90.00	359.86	6,737.00	2,325.35	-762.96	2,327.20	0.00	0.00	0.00	
9,100.00	90.00	359.86	6,737.00	2,425.35	-763.19	2,427.20	0.00	0.00	0.00	
9,200.00	90.00	359.86	6,737.00	2,525.35	-763.43	2,527.20	0.00	0.00	0.00	
9,300.00	90.00	359.86	6,737.00	2,625.35	-763.67	2,627.20	0.00	0.00	0.00	
9,400.00	90.00	359.86	6,737.00	2,725.35	-763.91	2,727.20	0.00	0.00	0.00	
9,500.00	90.00	359.86	6,737.00	2,825.35	-764.15	2,827.20	0.00	0.00	0.00	
9,600.00	90.00	359.86	6,737.00	2,925.34	-764.39	2,927.20	0.00	0.00	0.00	
9,700.00	90.00	359.86	6,737.00	3,025.34	-764.63	3,027.20	0.00	0.00	0.00	
9,800.00	90.00	359.86	6,737.00	3,125.34	-764.87	3,127.20	0.00	0.00	0.00	
9,900.00	90.00	359.86	6,737.00	3,225.34	-765.11	3,227.20	0.00	0.00	0.00	
10,000.00	90.00	359.86	6,737.00	3,325.34	-765.35	3,327.20	0.00	0.00	0.00	
10,100.00	90.00	359.86	6,737.00	3,425.34	-765.59	3,427.20	0.00	0.00	0.00	
10,200.00	90.00	359.86	6,737.00	3,525.34	-765.82	3,527.20	0.00	0.00	0.00	
10,300.00	90.00	359.86	6,737.00	3,625.34	-766.06	3,627.20	0.00	0.00	0.00	
10,400.00	90.00	359.86	6,737.00	3,725.34	-766.30	3,727.20	0.00	0.00	0.00	
10,500.00	90.00	359.86	6,737.00	3,825.34	-766.54	3,827.20	0.00	0.00	0.00	
10,600.00	90.00	359.86	6,737.00	3,925.34	-766.78	3,927.20	0.00	0.00	0.00	
10,700.00	90.00	359.86	6,737.00	4,025.34	-767.02	4,027.20	0.00	0.00	0.00	
10,800.00	90.00	359.86	6,737.00	4,125.34	-767.26	4,127.20	0.00	0.00	0.00	
10,900.00	90.00	359.86	6,737.00	4,225.34	-767.50	4,227.20	0.00	0.00	0.00	
11,000.00	90.00	359.86	6,737.00	4,325.34	-767.74	4,327.20	0.00	0.00	0.00	
11,100.00	90.00	359.86	6,737.00	4,425.34	-767.98	4,427.20	0.00	0.00	0.00	
11,200.00	90.00	359.86	6,737.00	4,525.34	-768.22	4,527.20	0.00	0.00	0.00	
11,300.00	90.00	359.86	6,737.00	4,625.34	-768.45	4,627.20	0.00	0.00	0.00	
11,400.00	90.00	359.86	6,737.00	4,725.34	-768.69	4,727.20	0.00	0.00	0.00	
11,500.00	90.00	359.86	6,737.00	4,825.34	-768.93	4,827.20	0.00	0.00	0.00	
11,600.00	90.00	359.86	6,737.00	4,925.34	-769.17	4,927.20	0.00	0.00	0.00	
11,700.00	90.00	359.86	6,737.00	5,025.34	-769.41	5,027.20	0.00	0.00	0.00	
11,800.00	90.00	359.86	6,737.00	5,125.34	-769.65	5,127.20	0.00	0.00	0.00	
11,900.00	90.00	359.86	6,737.00	5,225.34	-769.89	5,227.20	0.00	0.00	0.00	
12,000.00	90.00	359.86	6,737.00	5,325.34	-770.13	5,327.20	0.00	0.00	0.00	
12,100.00	90.00	359.86	6,737.00	5,425.34	-770.37	5,427.20	0.00	0.00	0.00	
12,200.00	90.00	359.86	6,737.00	5,525.34	-770.61	5,527.20	0.00	0.00	0.00	
12,300.00	90.00	359.86	6,737.00	5,625.34	-770.85	5,627.20	0.00	0.00	0.00	
12,319.20	90.00	359.86	6,737.00	5,644.54	-770.89	5,646.40	0.00	0.00	0.00	
BPZ @ 12319.20ft										
12,409.54	90.00	359.86	6,737.00	5,734.88	-771.11	5,736.75	0.00	0.00	0.00	
TD Well @ 12409.54ft										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
1,822.09	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 1918-16H
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 1918-16H	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)	
930.00	930.00	0.00	0.00	Begin Nudge @ 930.00ft
1,330.00	1,328.70	-7.75	-26.78	Hold Tangent @ 1330.00ft
6,047.21	6,000.00	-190.36	-657.38	KOP @ 6047.21ft :: DLS = 8"/100'
7,199.71	6,737.00	525.06	-758.65	End Build/TPZ @ 7199.71ft
12,319.20	6,737.00	5,644.54	-770.89	BPZ @ 12319.20ft
12,409.54	6,737.00	5,734.88	-771.11	TD Well @ 12409.54ft