

VERDAD RESOURCES

**WATTENBERG FIELD
1N-65W-31 COUNTY LINE 3130 PAD
COUNTY LINE 3130-02H**

Wellbore #2

Plan: Design #1

Standard Planning Report

10 May, 2021

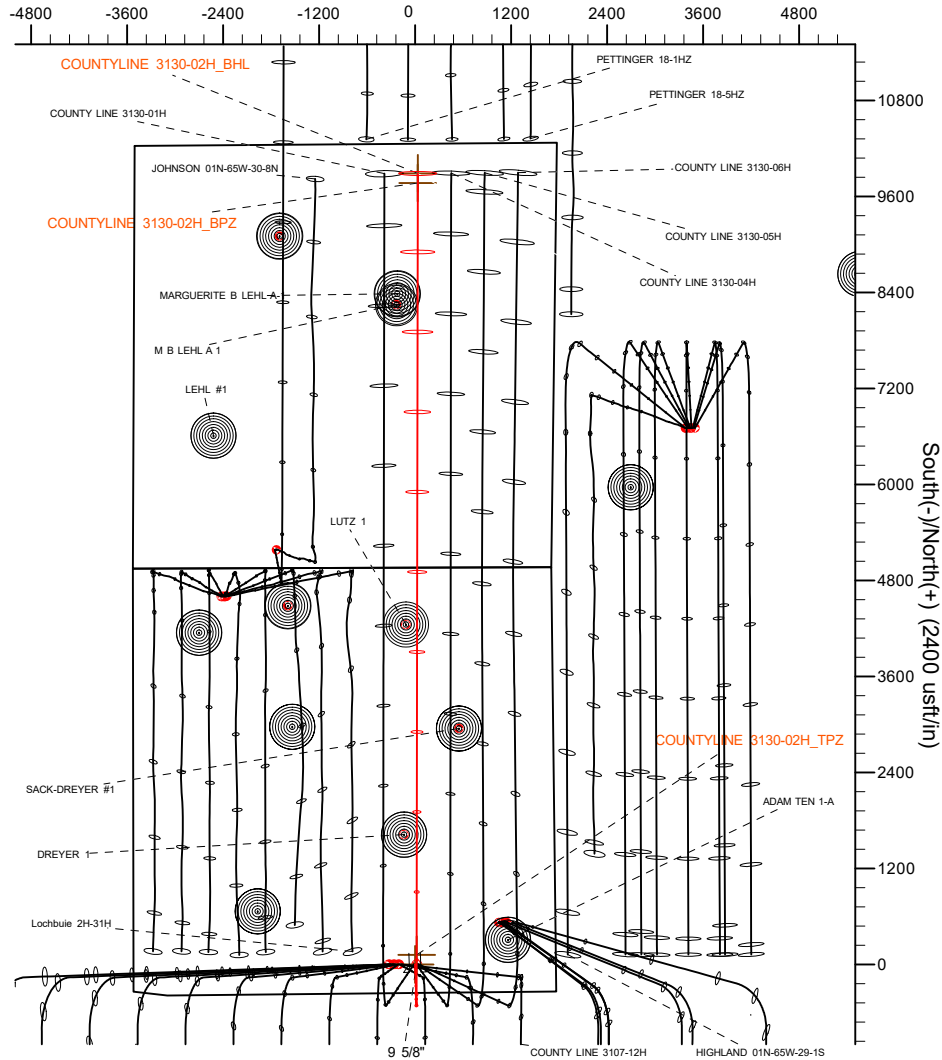
Project: WATTENBERG FIELD
Site: 1N-65W-31 COUNTY LINE 3130 PAD
Well: COUNTY LINE 3130-02H
Wellbore: Wellbore #2
Design: Design #1

VERDAD RESOURCES

CASING DETAILS

TVD	MD	Name	Size
2297.00	2302.95	9 5/8"	9-5/8

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



SHL
340' FSL
1760 FEL

Top of Production Zone
460' FSL
1739' FEL

Bottom of Production Zone
490' FNL
1732' FEL

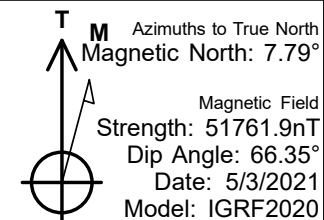
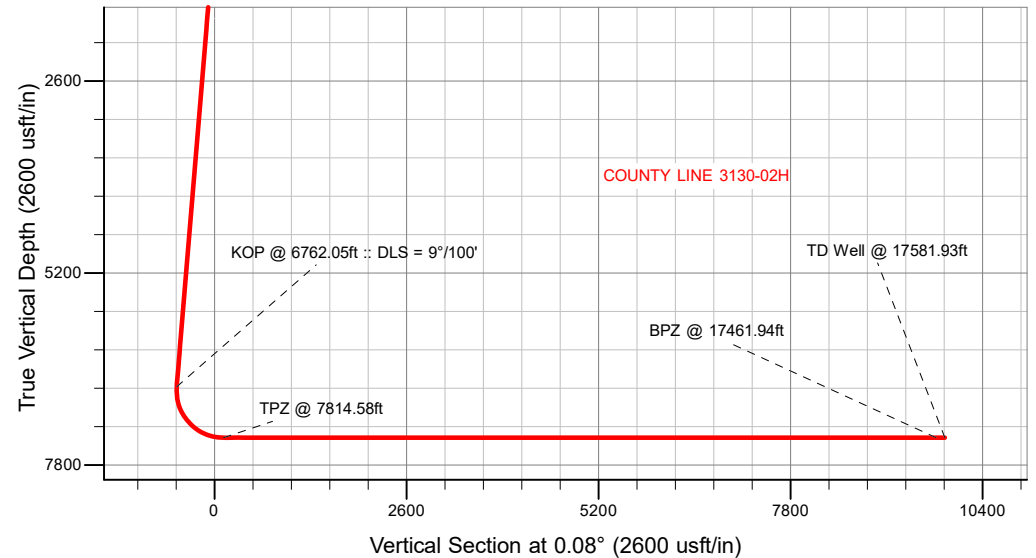
BHL
370' FNL
1734' FEL

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	
399.00	0.00	0.00	399.00	0.00	0.00	0.00	0.00	0.00	
635.50	4.73	178.15	635.23	-9.75	0.31	2.00	178.15	-9.75	
6762.05	4.73	178.15	6740.92	-514.69	16.62	0.00	0.00	-514.66	
7814.58	90.00	0.08	7430.00	119.77	19.42	9.00	-178.06	119.79	
17581.93	90.00	0.08	7430.00	9887.11	32.93	0.00	0.00	9887.14	COUNTY LINE 3130-02H_BHL

WELLBORE TARGET DETAILS (LAT/LONG)

Name	MD	TVD	+N/-S	+E/-W	Latitude	Longitude
COUNTY LINE 3130-02H_SHL	0.00	0.00	0.00	0.00	40.001457	-104.703557
COUNTY LINE 3130-02H_TPZ	7814.58	7430.00	119.77	19.42	40.001786	-104.703488
COUNTY LINE 3130-02H_BPZ	17461.94	7430.00	9767.12	32.76	40.028269	-104.703440
COUNTY LINE 3130-02H_BHL	17581.93	7430.00	9887.11	32.93	40.028599	-104.703439



WELL DETAILS: COUNTY LINE 3130-02H

GL = 5045'

RKB = 24' @ 5089.00usft (RIG)

Plan: Design #1 (COUNTY LINE 3130-02H/Wellbore #2)

Date: 5/10/2021

VERDAD RESOURCES

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well COUNTY LINE 3130-02H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 5069.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5069.00usft (RIG)
Site:	1N-65W-31 COUNTY LINE 3130 PAD	North Reference:	True
Well:	COUNTY LINE 3130-02H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2		
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		1N-65W-31 COUNTY LINE 3130 PAD				
Site Position:		Northing:	1,244,936.30	usft	Latitude:	40.002996
From:	Lat/Long	Easting:	3,222,683.37	usft	Longitude:	-104.705093
Position Uncertainty:		0.00	usft	Slot Radius:	13-3/16	"

Well		COUNTY LINE 3130-02H				
Well Position	+N/-S	0.00 usft	Northing:	1,244,379.56 usft	Latitude:	40.001457
	+E/-W	0.00 usft	Easting:	3,223,118.63 usft	Longitude:	-104.703557
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft	Ground Level:	5,045.00 usft
Grid Convergence:		0.51 °				

Wellbore	Wellbore #2				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF202013	5/3/2021	7.79	66.35	51,761.92759064

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	0.08	

Plan Survey Tool Program	Date	5/10/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	2,297.00	Design #1 (Wellbore #2)	ISCWSA MWD	
				Fixed:v2:standard declination	
2	2,297.00	17,581.93	Design #1 (Wellbore #2)	ISCWSA MWD	
				Fixed:v2:standard declination	

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Site:	1N-65W-31 COUNTY LINE 3130 PAD	North Reference:	True
Well:	COUNTY LINE 3130-02H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2		
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	
399.00	0.00	0.00	399.00	0.00	0.00	0.00	0.00	0.00	0.00	
635.50	4.73	178.15	635.23	-9.75	0.31	2.00	2.00	0.00	178.15	
6,762.05	4.73	178.15	6,740.92	-514.69	16.62	0.00	0.00	0.00	0.00	
7,814.58	90.00	0.08	7,430.00	119.77	19.42	9.00	8.10	-16.92	-178.06	
17,581.93	90.00	0.08	7,430.00	9,887.11	32.93	0.00	0.00	0.00	0.00	COUNTYLINE 3130-C

VERDAD RESOURCES

Planning Report

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Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5069.00usft (RIG)
Site:	1N-65W-31 COUNTY LINE 3130 PAD	North Reference:	True
Well:	COUNTY LINE 3130-02H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2		
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
399.00	0.00	0.00	399.00	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 399.00ft									
400.00	0.02	178.15	400.00	0.00	0.00	0.00	2.00	2.00	0.00
500.00	2.02	178.15	499.98	-1.78	0.06	-1.78	2.00	2.00	0.00
600.00	4.02	178.15	599.84	-7.04	0.23	-7.04	2.00	2.00	0.00
635.50	4.73	178.15	635.23	-9.75	0.31	-9.75	2.00	2.00	0.00
Hold Tangent @ 635.50ft									
700.00	4.73	178.15	699.51	-15.07	0.49	-15.07	0.00	0.00	0.00
800.00	4.73	178.15	799.17	-23.31	0.75	-23.31	0.00	0.00	0.00
900.00	4.73	178.15	898.83	-31.55	1.02	-31.55	0.00	0.00	0.00
1,000.00	4.73	178.15	998.49	-39.79	1.29	-39.79	0.00	0.00	0.00
1,100.00	4.73	178.15	1,098.15	-48.03	1.55	-48.03	0.00	0.00	0.00
1,200.00	4.73	178.15	1,197.81	-56.28	1.82	-56.27	0.00	0.00	0.00
1,300.00	4.73	178.15	1,297.47	-64.52	2.08	-64.51	0.00	0.00	0.00
1,400.00	4.73	178.15	1,397.13	-72.76	2.35	-72.76	0.00	0.00	0.00
1,500.00	4.73	178.15	1,496.79	-81.00	2.62	-81.00	0.00	0.00	0.00
1,600.00	4.73	178.15	1,596.45	-89.24	2.88	-89.24	0.00	0.00	0.00
1,700.00	4.73	178.15	1,696.11	-97.48	3.15	-97.48	0.00	0.00	0.00
1,800.00	4.73	178.15	1,795.77	-105.73	3.41	-105.72	0.00	0.00	0.00
1,900.00	4.73	178.15	1,895.43	-113.97	3.68	-113.96	0.00	0.00	0.00
2,000.00	4.73	178.15	1,995.08	-122.21	3.95	-122.20	0.00	0.00	0.00
2,100.00	4.73	178.15	2,094.74	-130.45	4.21	-130.45	0.00	0.00	0.00
2,200.00	4.73	178.15	2,194.40	-138.69	4.48	-138.69	0.00	0.00	0.00
2,300.00	4.73	178.15	2,294.06	-146.94	4.75	-146.93	0.00	0.00	0.00
2,302.95	4.73	178.15	2,297.00	-147.18	4.75	-147.17	0.00	0.00	0.00
9 5/8"									
2,400.00	4.73	178.15	2,393.72	-155.18	5.01	-155.17	0.00	0.00	0.00
2,500.00	4.73	178.15	2,493.38	-163.42	5.28	-163.41	0.00	0.00	0.00
2,600.00	4.73	178.15	2,593.04	-171.66	5.54	-171.65	0.00	0.00	0.00
2,700.00	4.73	178.15	2,692.70	-179.90	5.81	-179.89	0.00	0.00	0.00
2,800.00	4.73	178.15	2,792.36	-188.14	6.08	-188.14	0.00	0.00	0.00
2,900.00	4.73	178.15	2,892.02	-196.39	6.34	-196.38	0.00	0.00	0.00
3,000.00	4.73	178.15	2,991.68	-204.63	6.61	-204.62	0.00	0.00	0.00
3,100.00	4.73	178.15	3,091.34	-212.87	6.88	-212.86	0.00	0.00	0.00
3,200.00	4.73	178.15	3,191.00	-221.11	7.14	-221.10	0.00	0.00	0.00
3,300.00	4.73	178.15	3,290.66	-229.35	7.41	-229.34	0.00	0.00	0.00
3,400.00	4.73	178.15	3,390.32	-237.59	7.67	-237.58	0.00	0.00	0.00
3,500.00	4.73	178.15	3,489.98	-245.84	7.94	-245.82	0.00	0.00	0.00
3,600.00	4.73	178.15	3,589.64	-254.08	8.21	-254.07	0.00	0.00	0.00
3,700.00	4.73	178.15	3,689.29	-262.32	8.47	-262.31	0.00	0.00	0.00
3,800.00	4.73	178.15	3,788.95	-270.56	8.74	-270.55	0.00	0.00	0.00
3,900.00	4.73	178.15	3,888.61	-278.80	9.01	-278.79	0.00	0.00	0.00
4,000.00	4.73	178.15	3,988.27	-287.04	9.27	-287.03	0.00	0.00	0.00
4,100.00	4.73	178.15	4,087.93	-295.29	9.54	-295.27	0.00	0.00	0.00
4,200.00	4.73	178.15	4,187.59	-303.53	9.80	-303.51	0.00	0.00	0.00
4,300.00	4.73	178.15	4,287.25	-311.77	10.07	-311.76	0.00	0.00	0.00
4,400.00	4.73	178.15	4,386.91	-320.01	10.34	-320.00	0.00	0.00	0.00
4,500.00	4.73	178.15	4,486.57	-328.25	10.60	-328.24	0.00	0.00	0.00
4,600.00	4.73	178.15	4,586.23	-336.50	10.87	-336.48	0.00	0.00	0.00

VERDAD RESOURCES

Planning Report

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Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 5069.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5069.00usft (RIG)
Site:	1N-65W-31 COUNTY LINE 3130 PAD	North Reference:	True
Well:	COUNTY LINE 3130-02H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2		
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	4.73	178.15	4,685.89	-344.74	11.13	-344.72	0.00	0.00	0.00
4,800.00	4.73	178.15	4,785.55	-352.98	11.40	-352.96	0.00	0.00	0.00
4,900.00	4.73	178.15	4,885.21	-361.22	11.67	-361.20	0.00	0.00	0.00
5,000.00	4.73	178.15	4,984.87	-369.46	11.93	-369.44	0.00	0.00	0.00
5,100.00	4.73	178.15	5,084.53	-377.70	12.20	-377.69	0.00	0.00	0.00
5,200.00	4.73	178.15	5,184.19	-385.95	12.47	-385.93	0.00	0.00	0.00
5,300.00	4.73	178.15	5,283.85	-394.19	12.73	-394.17	0.00	0.00	0.00
5,400.00	4.73	178.15	5,383.51	-402.43	13.00	-402.41	0.00	0.00	0.00
5,500.00	4.73	178.15	5,483.16	-410.67	13.26	-410.65	0.00	0.00	0.00
5,600.00	4.73	178.15	5,582.82	-418.91	13.53	-418.89	0.00	0.00	0.00
5,700.00	4.73	178.15	5,682.48	-427.15	13.80	-427.13	0.00	0.00	0.00
5,800.00	4.73	178.15	5,782.14	-435.40	14.06	-435.38	0.00	0.00	0.00
5,900.00	4.73	178.15	5,881.80	-443.64	14.33	-443.62	0.00	0.00	0.00
6,000.00	4.73	178.15	5,981.46	-451.88	14.60	-451.86	0.00	0.00	0.00
6,100.00	4.73	178.15	6,081.12	-460.12	14.86	-460.10	0.00	0.00	0.00
6,200.00	4.73	178.15	6,180.78	-468.36	15.13	-468.34	0.00	0.00	0.00
6,300.00	4.73	178.15	6,280.44	-476.60	15.39	-476.58	0.00	0.00	0.00
6,400.00	4.73	178.15	6,380.10	-484.85	15.66	-484.82	0.00	0.00	0.00
6,500.00	4.73	178.15	6,479.76	-493.09	15.93	-493.07	0.00	0.00	0.00
6,600.00	4.73	178.15	6,579.42	-501.33	16.19	-501.31	0.00	0.00	0.00
6,700.00	4.73	178.15	6,679.08	-509.57	16.46	-509.55	0.00	0.00	0.00
6,762.05	4.73	178.15	6,740.92	-514.69	16.62	-514.66	0.00	0.00	0.00
KOP @ 6762.05ft :: DLS = 9°/100'									
6,800.00	1.32	173.14	6,778.81	-516.68	16.73	-516.66	9.00	-8.98	-13.19
6,900.00	7.69	1.26	6,878.55	-511.13	17.01	-511.10	9.00	6.37	-171.88
7,000.00	16.69	0.61	6,976.20	-490.04	17.31	-490.01	9.00	9.00	-0.65
7,100.00	25.69	0.41	7,069.34	-453.93	17.62	-453.91	9.00	9.00	-0.20
7,200.00	34.69	0.31	7,155.69	-403.70	17.93	-403.68	9.00	9.00	-0.10
7,300.00	43.69	0.25	7,233.12	-340.58	18.24	-340.55	9.00	9.00	-0.06
7,400.00	52.69	0.20	7,299.72	-266.12	18.52	-266.10	9.00	9.00	-0.05
7,500.00	61.69	0.17	7,353.85	-182.16	18.79	-182.14	9.00	9.00	-0.04
7,600.00	70.69	0.14	7,394.18	-90.77	19.03	-90.74	9.00	9.00	-0.03
7,700.00	79.69	0.11	7,419.72	5.81	19.24	5.83	9.00	9.00	-0.03
7,800.00	88.69	0.08	7,429.83	105.19	19.40	105.22	9.00	9.00	-0.03
7,814.58	90.00	0.08	7,430.00	119.77	19.42	119.79	9.00	9.00	-0.03
TPZ @ 7814.58ft									
7,900.00	90.00	0.08	7,430.00	205.19	19.54	205.22	0.00	0.00	0.00
8,000.00	90.00	0.08	7,430.00	305.19	19.68	305.22	0.00	0.00	0.00
8,100.00	90.00	0.08	7,430.00	405.19	19.82	405.22	0.00	0.00	0.00
8,200.00	90.00	0.08	7,430.00	505.19	19.95	505.22	0.00	0.00	0.00
8,300.00	90.00	0.08	7,430.00	605.19	20.09	605.22	0.00	0.00	0.00
8,400.00	90.00	0.08	7,430.00	705.19	20.23	705.22	0.00	0.00	0.00
8,500.00	90.00	0.08	7,430.00	805.19	20.37	805.22	0.00	0.00	0.00
8,600.00	90.00	0.08	7,430.00	905.19	20.51	905.22	0.00	0.00	0.00
8,700.00	90.00	0.08	7,430.00	1,005.19	20.65	1,005.22	0.00	0.00	0.00
8,800.00	90.00	0.08	7,430.00	1,105.19	20.78	1,105.22	0.00	0.00	0.00
8,900.00	90.00	0.08	7,430.00	1,205.19	20.92	1,205.22	0.00	0.00	0.00
9,000.00	90.00	0.08	7,430.00	1,305.19	21.06	1,305.22	0.00	0.00	0.00
9,100.00	90.00	0.08	7,430.00	1,405.19	21.20	1,405.22	0.00	0.00	0.00
9,200.00	90.00	0.08	7,430.00	1,505.19	21.34	1,505.22	0.00	0.00	0.00
9,300.00	90.00	0.08	7,430.00	1,605.19	21.48	1,605.22	0.00	0.00	0.00
9,400.00	90.00	0.08	7,430.00	1,705.19	21.61	1,705.22	0.00	0.00	0.00
9,500.00	90.00	0.08	7,430.00	1,805.19	21.75	1,805.22	0.00	0.00	0.00
9,600.00	90.00	0.08	7,430.00	1,905.19	21.89	1,905.22	0.00	0.00	0.00

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Planning Report

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Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 5069.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5069.00usft (RIG)
Site:	1N-65W-31 COUNTY LINE 3130 PAD	North Reference:	True
Well:	COUNTY LINE 3130-02H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2		
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)	
9,700.00	90.00	0.08	7,430.00	2,005.19	22.03	2,005.22	0.00	0.00	0.00	
9,800.00	90.00	0.08	7,430.00	2,105.19	22.17	2,105.22	0.00	0.00	0.00	
9,900.00	90.00	0.08	7,430.00	2,205.19	22.31	2,205.22	0.00	0.00	0.00	
10,000.00	90.00	0.08	7,430.00	2,305.19	22.44	2,305.22	0.00	0.00	0.00	
10,100.00	90.00	0.08	7,430.00	2,405.19	22.58	2,405.22	0.00	0.00	0.00	
10,200.00	90.00	0.08	7,430.00	2,505.19	22.72	2,505.22	0.00	0.00	0.00	
10,300.00	90.00	0.08	7,430.00	2,605.19	22.86	2,605.22	0.00	0.00	0.00	
10,400.00	90.00	0.08	7,430.00	2,705.19	23.00	2,705.22	0.00	0.00	0.00	
10,500.00	90.00	0.08	7,430.00	2,805.19	23.14	2,805.22	0.00	0.00	0.00	
10,600.00	90.00	0.08	7,430.00	2,905.19	23.27	2,905.22	0.00	0.00	0.00	
10,700.00	90.00	0.08	7,430.00	3,005.19	23.41	3,005.22	0.00	0.00	0.00	
10,800.00	90.00	0.08	7,430.00	3,105.19	23.55	3,105.22	0.00	0.00	0.00	
10,900.00	90.00	0.08	7,430.00	3,205.19	23.69	3,205.22	0.00	0.00	0.00	
11,000.00	90.00	0.08	7,430.00	3,305.19	23.83	3,305.22	0.00	0.00	0.00	
11,100.00	90.00	0.08	7,430.00	3,405.19	23.97	3,405.22	0.00	0.00	0.00	
11,200.00	90.00	0.08	7,430.00	3,505.19	24.10	3,505.22	0.00	0.00	0.00	
11,300.00	90.00	0.08	7,430.00	3,605.19	24.24	3,605.22	0.00	0.00	0.00	
11,400.00	90.00	0.08	7,430.00	3,705.19	24.38	3,705.22	0.00	0.00	0.00	
11,500.00	90.00	0.08	7,430.00	3,805.19	24.52	3,805.22	0.00	0.00	0.00	
11,600.00	90.00	0.08	7,430.00	3,905.19	24.66	3,905.22	0.00	0.00	0.00	
11,700.00	90.00	0.08	7,430.00	4,005.19	24.80	4,005.22	0.00	0.00	0.00	
11,800.00	90.00	0.08	7,430.00	4,105.19	24.93	4,105.22	0.00	0.00	0.00	
11,900.00	90.00	0.08	7,430.00	4,205.19	25.07	4,205.22	0.00	0.00	0.00	
12,000.00	90.00	0.08	7,430.00	4,305.19	25.21	4,305.22	0.00	0.00	0.00	
12,100.00	90.00	0.08	7,430.00	4,405.19	25.35	4,405.22	0.00	0.00	0.00	
12,200.00	90.00	0.08	7,430.00	4,505.19	25.49	4,505.22	0.00	0.00	0.00	
12,300.00	90.00	0.08	7,430.00	4,605.19	25.63	4,605.22	0.00	0.00	0.00	
12,400.00	90.00	0.08	7,430.00	4,705.19	25.76	4,705.22	0.00	0.00	0.00	
12,500.00	90.00	0.08	7,430.00	4,805.19	25.90	4,805.22	0.00	0.00	0.00	
12,600.00	90.00	0.08	7,430.00	4,905.19	26.04	4,905.22	0.00	0.00	0.00	
12,700.00	90.00	0.08	7,430.00	5,005.19	26.18	5,005.22	0.00	0.00	0.00	
12,800.00	90.00	0.08	7,430.00	5,105.19	26.32	5,105.22	0.00	0.00	0.00	
12,900.00	90.00	0.08	7,430.00	5,205.18	26.46	5,205.22	0.00	0.00	0.00	
13,000.00	90.00	0.08	7,430.00	5,305.18	26.59	5,305.22	0.00	0.00	0.00	
13,100.00	90.00	0.08	7,430.00	5,405.18	26.73	5,405.22	0.00	0.00	0.00	
13,200.00	90.00	0.08	7,430.00	5,505.18	26.87	5,505.22	0.00	0.00	0.00	
13,300.00	90.00	0.08	7,430.00	5,605.18	27.01	5,605.22	0.00	0.00	0.00	
13,400.00	90.00	0.08	7,430.00	5,705.18	27.15	5,705.22	0.00	0.00	0.00	
13,500.00	90.00	0.08	7,430.00	5,805.18	27.29	5,805.22	0.00	0.00	0.00	
13,600.00	90.00	0.08	7,430.00	5,905.18	27.42	5,905.22	0.00	0.00	0.00	
13,700.00	90.00	0.08	7,430.00	6,005.18	27.56	6,005.22	0.00	0.00	0.00	
13,800.00	90.00	0.08	7,430.00	6,105.18	27.70	6,105.22	0.00	0.00	0.00	
13,900.00	90.00	0.08	7,430.00	6,205.18	27.84	6,205.22	0.00	0.00	0.00	
14,000.00	90.00	0.08	7,430.00	6,305.18	27.98	6,305.22	0.00	0.00	0.00	
14,100.00	90.00	0.08	7,430.00	6,405.18	28.12	6,405.22	0.00	0.00	0.00	
14,200.00	90.00	0.08	7,430.00	6,505.18	28.25	6,505.22	0.00	0.00	0.00	
14,300.00	90.00	0.08	7,430.00	6,605.18	28.39	6,605.22	0.00	0.00	0.00	
14,400.00	90.00	0.08	7,430.00	6,705.18	28.53	6,705.22	0.00	0.00	0.00	
14,500.00	90.00	0.08	7,430.00	6,805.18	28.67	6,805.22	0.00	0.00	0.00	
14,600.00	90.00	0.08	7,430.00	6,905.18	28.81	6,905.22	0.00	0.00	0.00	
14,700.00	90.00	0.08	7,430.00	7,005.18	28.95	7,005.22	0.00	0.00	0.00	
14,800.00	90.00	0.08	7,430.00	7,105.18	29.08	7,105.22	0.00	0.00	0.00	
14,900.00	90.00	0.08	7,430.00	7,205.18	29.22	7,205.22	0.00	0.00	0.00	
15,000.00	90.00	0.08	7,430.00	7,305.18	29.36	7,305.22	0.00	0.00	0.00	

VERDAD RESOURCES

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well COUNTY LINE 3130-02H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 5069.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5069.00usft (RIG)
Site:	1N-65W-31 COUNTY LINE 3130 PAD	North Reference:	True
Well:	COUNTY LINE 3130-02H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2		
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)	
15,100.00	90.00	0.08	7,430.00	7,405.18	29.50	7,405.22	0.00	0.00	0.00	
15,200.00	90.00	0.08	7,430.00	7,505.18	29.64	7,505.22	0.00	0.00	0.00	
15,300.00	90.00	0.08	7,430.00	7,605.18	29.78	7,605.22	0.00	0.00	0.00	
15,400.00	90.00	0.08	7,430.00	7,705.18	29.91	7,705.22	0.00	0.00	0.00	
15,500.00	90.00	0.08	7,430.00	7,805.18	30.05	7,805.22	0.00	0.00	0.00	
15,600.00	90.00	0.08	7,430.00	7,905.18	30.19	7,905.22	0.00	0.00	0.00	
15,700.00	90.00	0.08	7,430.00	8,005.18	30.33	8,005.22	0.00	0.00	0.00	
15,800.00	90.00	0.08	7,430.00	8,105.18	30.47	8,105.22	0.00	0.00	0.00	
15,900.00	90.00	0.08	7,430.00	8,205.18	30.61	8,205.22	0.00	0.00	0.00	
16,000.00	90.00	0.08	7,430.00	8,305.18	30.74	8,305.22	0.00	0.00	0.00	
16,100.00	90.00	0.08	7,430.00	8,405.18	30.88	8,405.22	0.00	0.00	0.00	
16,200.00	90.00	0.08	7,430.00	8,505.18	31.02	8,505.22	0.00	0.00	0.00	
16,300.00	90.00	0.08	7,430.00	8,605.18	31.16	8,605.22	0.00	0.00	0.00	
16,400.00	90.00	0.08	7,430.00	8,705.18	31.30	8,705.22	0.00	0.00	0.00	
16,500.00	90.00	0.08	7,430.00	8,805.18	31.44	8,805.22	0.00	0.00	0.00	
16,600.00	90.00	0.08	7,430.00	8,905.18	31.57	8,905.22	0.00	0.00	0.00	
16,700.00	90.00	0.08	7,430.00	9,005.18	31.71	9,005.22	0.00	0.00	0.00	
16,800.00	90.00	0.08	7,430.00	9,105.18	31.85	9,105.22	0.00	0.00	0.00	
16,900.00	90.00	0.08	7,430.00	9,205.18	31.99	9,205.22	0.00	0.00	0.00	
17,000.00	90.00	0.08	7,430.00	9,305.18	32.13	9,305.22	0.00	0.00	0.00	
17,100.00	90.00	0.08	7,430.00	9,405.18	32.27	9,405.22	0.00	0.00	0.00	
17,200.00	90.00	0.08	7,430.00	9,505.18	32.40	9,505.22	0.00	0.00	0.00	
17,300.00	90.00	0.08	7,430.00	9,605.18	32.54	9,605.22	0.00	0.00	0.00	
17,400.00	90.00	0.08	7,430.00	9,705.18	32.68	9,705.22	0.00	0.00	0.00	
17,461.94	90.00	0.08	7,430.00	9,767.12	32.77	9,767.16	0.00	0.00	0.00	
BPZ @ 17461.94ft										
17,500.00	90.00	0.08	7,430.00	9,805.18	32.82	9,805.22	0.00	0.00	0.00	
17,581.93	90.00	0.08	7,430.00	9,887.11	32.93	9,887.14	0.00	0.00	0.00	
TD Well @ 17581.93ft										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
2,302.95	2,297.00	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)		
399.00	399.00	0.00	0.00	Begin Nudge @ 399.00ft	
635.50	635.23	-9.75	0.31	Hold Tangent @ 635.50ft	
6,762.05	6,740.92	-514.69	16.62	KOP @ 6762.05ft :: DLS = 9°/100'	
7,814.58	7,430.00	119.77	19.42	TPZ @ 7814.58ft	
17,461.94	7,430.00	9,767.12	32.77	BPZ @ 17461.94ft	
17,581.93	7,430.00	9,887.11	32.93	TD Well @ 17581.93ft	