

VERDAD RESOURCES

WATTENBERG FIELD

1N-65W-31 COUNTY LINE 3229 PAD

COUNTY LINE 3229-26H

Plan A

Plan: Design #2

Standard Planning Report

24 May, 2022

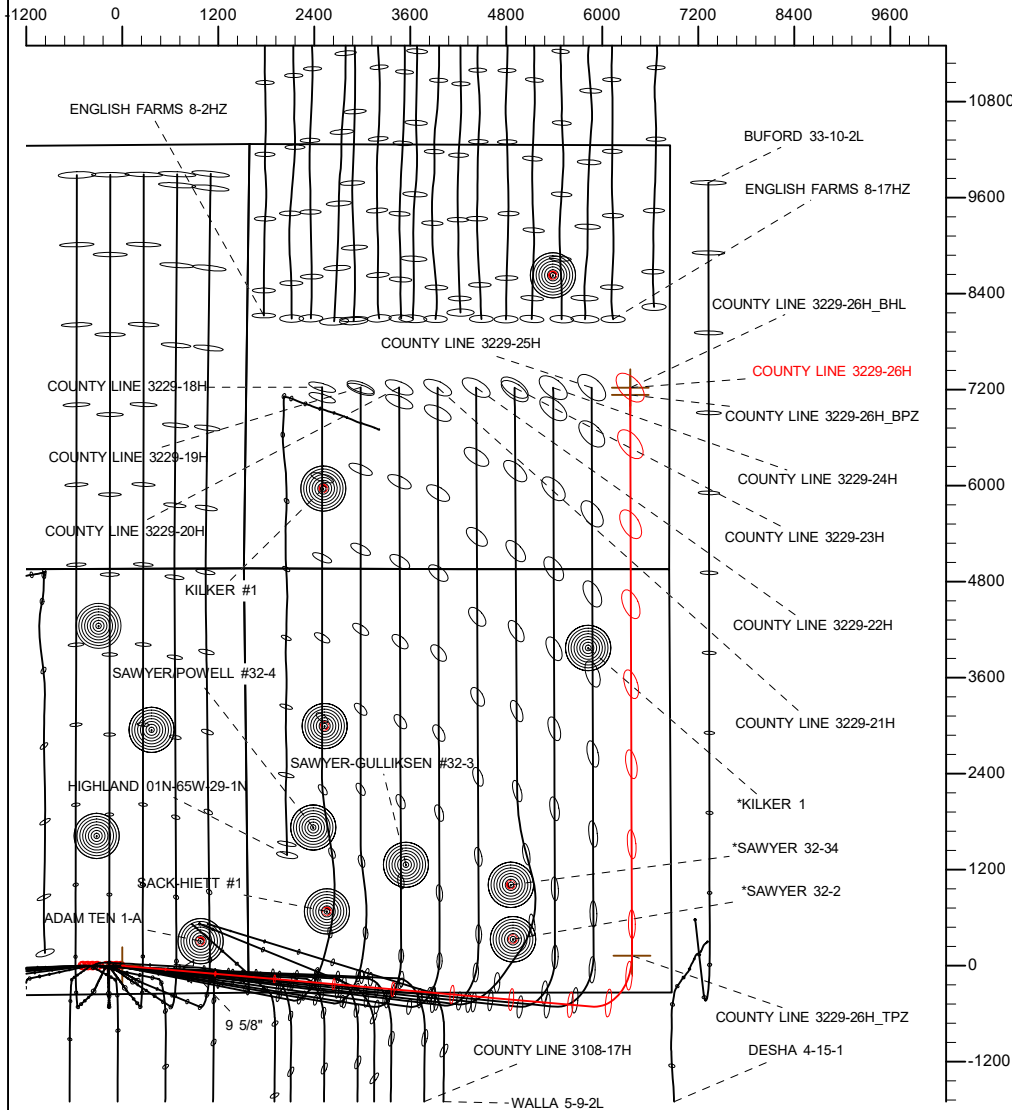
Project: WATTENBERG FIELD
Site: 1N-65W-31 COUNTY LINE 3229 PAD
Well: COUNTY LINE 3229-26H
Wellbore: Plan A
Design: Design #2

VERDAD RESOURCES

CASING DETAILS

TVD	MD	Name	Size
2275.00	2519.91	9 5/8"	9-5/8

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



SHL
340' FSL
1580' FEL

TPZ
460' FSL
493' FEL

BPZ
2180' FSL
492' FEL

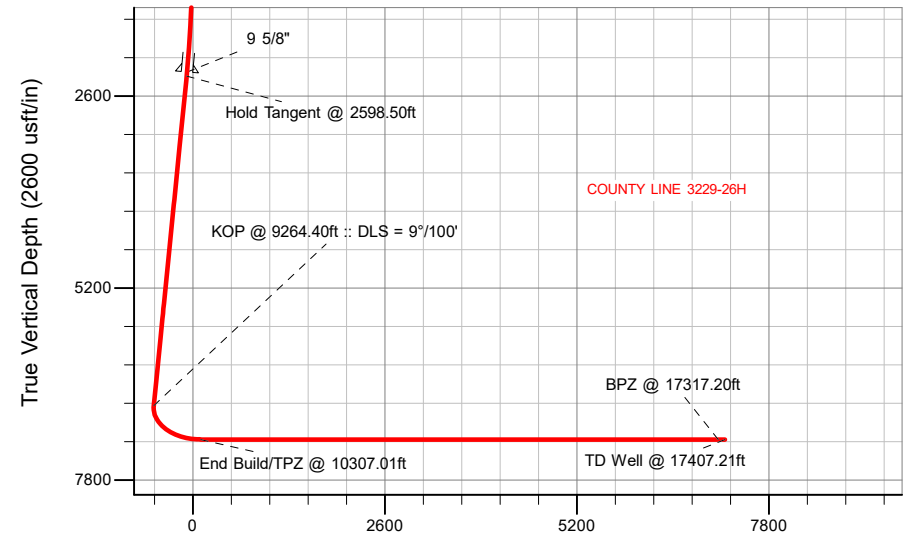
BHL
2270' FSL
493' FEL

SECTION DETAILS

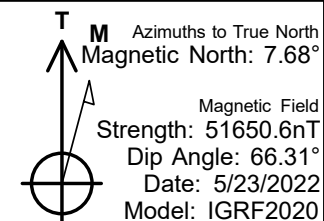
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
201.50	0.00	0.00	201.50	0.00	0.00	0.00	0.00	0.00	
2598.50	47.94	94.98	2328.44	-82.09	942.07	2.00	94.98	-85.21	
9264.40	47.94	94.98	6793.99	-511.71	5872.45	0.00	0.00	-531.18	
10307.01	90.00	359.81	7250.00	125.13	6373.70	9.00	-93.47	104.00	
17407.21	90.00	359.81	7250.00	7225.30	6350.43	0.00	0.00	7204.20	COUNTY LINE 3229-26H_BHL

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
COUNTY LINE 3229-26H_SHL	0.00	0.00	0.00	40.001457	-104.702914
COUNTY LINE 3229-26H_TPZ	7250.00	125.13	6373.70	40.001798	-104.680164
COUNTY LINE 3229-26H_BPZ	7250.00	7135.29	6350.73	40.021043	-104.680239
COUNTY LINE 3229-26H_BHL	7250.00	7225.30	6350.43	40.021290	-104.680240



Vertical Section at 359.81° (2600 usft/in)



WELL DETAILS: COUNTY LINE 3229-26H

GL = 5046'
RKB = 24' @ 5070.00usft (RIG)

Plan: Design #2 (COUNTY LINE 3229-26H/Plan A)

Date: 5/24/2022

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well COUNTY LINE 3229-26H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 5070.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5070.00usft (RIG)
Site:	1N-65W-31 COUNTY LINE 3229 PAD	North Reference:	True
Well:	COUNTY LINE 3229-26H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Design #2		

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 3229 PAD			
Site Position:		Northing:	1,244,380.12 usft	Latitude: 40.001457
From:	Map	Easting:	3,223,178.62 usft	Longitude: -104.703343
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	

Well	COUNTY LINE 3229-26H			
Well Position	+N/-S	0.00 usft	Northing:	1,244,381.27 usft
	+E/-W	0.00 usft	Easting:	3,223,298.61 usft
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft
Grid Convergence:		0.52 °	Ground Level:	5,046.00 usft

Wellbore	Plan A				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF202013	5/23/2022	7.68	66.31	51,650.63772230

Design	Design #2			
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	359.81

Plan Survey Tool Program	Date	5/23/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	2,275.00	Design #2 (Plan A)	ISCWSA MWD
				Fixed:v2:standard declination
2	2,275.00	17,407.21	Design #2 (Plan A)	ISCWSA MWD
				Fixed:v2:standard declination

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Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5070.00usft (RIG)
Site:	1N-65W-31 COUNTY LINE 3229 PAD	North Reference:	True
Well:	COUNTY LINE 3229-26H	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	
201.50	0.00	0.00	201.50	0.00	0.00	0.00	0.00	0.00	0.00	
2,598.50	47.94	94.98	2,328.44	-82.09	942.07	2.00	2.00	0.00	94.98	
9,264.40	47.94	94.98	6,793.99	-511.71	5,872.45	0.00	0.00	0.00	0.00	
10,307.01	90.00	359.81	7,250.01	125.13	6,373.70	9.00	4.03	-9.13	-93.47	
17,407.21	90.00	359.81	7,250.00	7,225.30	6,350.43	0.00	0.00	0.00	0.00	COUNTY LINE 3229-

Planning Report

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Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 5070.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5070.00usft (RIG)
Site:	1N-65W-31 COUNTY LINE 3229 PAD	North Reference:	True
Well:	COUNTY LINE 3229-26H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	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
201.50	0.00	0.00	201.50	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 201.50ft									
300.00	1.97	94.98	299.98	-0.15	1.69	-0.15	2.00	2.00	0.00
400.00	3.97	94.98	399.84	-0.60	6.85	-0.62	2.00	2.00	0.00
500.00	5.97	94.98	499.46	-1.35	15.48	-1.40	2.00	2.00	0.00
600.00	7.97	94.98	598.72	-2.40	27.57	-2.49	2.00	2.00	0.00
700.00	9.97	94.98	697.49	-3.76	43.10	-3.90	2.00	2.00	0.00
800.00	11.97	94.98	795.66	-5.41	62.06	-5.61	2.00	2.00	0.00
900.00	13.97	94.98	893.10	-7.36	84.41	-7.64	2.00	2.00	0.00
1,000.00	15.97	94.98	989.70	-9.60	110.15	-9.96	2.00	2.00	0.00
1,100.00	17.97	94.98	1,085.34	-12.13	139.22	-12.59	2.00	2.00	0.00
1,200.00	19.97	94.98	1,179.91	-14.95	171.61	-15.52	2.00	2.00	0.00
1,300.00	21.97	94.98	1,273.28	-18.06	207.26	-18.75	2.00	2.00	0.00
1,400.00	23.97	94.98	1,365.34	-21.45	246.13	-22.26	2.00	2.00	0.00
1,500.00	25.97	94.98	1,455.99	-25.11	288.18	-26.07	2.00	2.00	0.00
1,600.00	27.97	94.98	1,545.11	-29.05	333.36	-30.15	2.00	2.00	0.00
1,700.00	29.97	94.98	1,632.60	-33.25	381.61	-34.52	2.00	2.00	0.00
1,800.00	31.97	94.98	1,718.33	-37.72	432.88	-39.15	2.00	2.00	0.00
1,900.00	33.97	94.98	1,802.23	-42.44	487.09	-44.06	2.00	2.00	0.00
2,000.00	35.97	94.98	1,884.17	-47.42	544.18	-49.22	2.00	2.00	0.00
2,100.00	37.97	94.98	1,964.06	-52.64	604.09	-54.64	2.00	2.00	0.00
2,200.00	39.97	94.98	2,041.80	-58.10	666.74	-60.31	2.00	2.00	0.00
2,300.00	41.97	94.98	2,117.30	-63.79	732.06	-66.22	2.00	2.00	0.00
2,400.00	43.97	94.98	2,190.47	-69.71	799.96	-72.36	2.00	2.00	0.00
2,500.00	45.97	94.98	2,261.21	-75.84	870.36	-78.73	2.00	2.00	0.00
2,519.91	46.37	94.98	2,275.00	-77.09	884.67	-80.02	2.00	2.00	0.00
9 5/8"									
2,598.50	47.94	94.98	2,328.44	-82.09	942.07	-85.21	2.00	2.00	0.00
Hold Tangent @ 2598.50ft									
2,600.00	47.94	94.98	2,329.45	-82.19	943.18	-85.31	0.00	0.00	0.00
2,700.00	47.94	94.98	2,396.44	-88.63	1,017.15	-92.00	0.00	0.00	0.00
2,800.00	47.94	94.98	2,463.43	-95.08	1,091.11	-98.69	0.00	0.00	0.00
2,900.00	47.94	94.98	2,530.42	-101.52	1,165.07	-105.38	0.00	0.00	0.00
3,000.00	47.94	94.98	2,597.41	-107.97	1,239.04	-112.07	0.00	0.00	0.00
3,100.00	47.94	94.98	2,664.40	-114.41	1,313.00	-118.76	0.00	0.00	0.00
3,200.00	47.94	94.98	2,731.39	-120.86	1,386.97	-125.45	0.00	0.00	0.00
3,300.00	47.94	94.98	2,798.39	-127.30	1,460.93	-132.14	0.00	0.00	0.00
3,400.00	47.94	94.98	2,865.38	-133.75	1,534.90	-138.84	0.00	0.00	0.00
3,500.00	47.94	94.98	2,932.37	-140.19	1,608.86	-145.53	0.00	0.00	0.00
3,600.00	47.94	94.98	2,999.36	-146.64	1,682.82	-152.22	0.00	0.00	0.00
3,700.00	47.94	94.98	3,066.35	-153.08	1,756.79	-158.91	0.00	0.00	0.00
3,800.00	47.94	94.98	3,133.34	-159.53	1,830.75	-165.60	0.00	0.00	0.00
3,900.00	47.94	94.98	3,200.33	-165.97	1,904.72	-172.29	0.00	0.00	0.00
4,000.00	47.94	94.98	3,267.32	-172.42	1,978.68	-178.98	0.00	0.00	0.00
4,100.00	47.94	94.98	3,334.31	-178.86	2,052.64	-185.67	0.00	0.00	0.00
4,200.00	47.94	94.98	3,401.30	-185.31	2,126.61	-192.36	0.00	0.00	0.00
4,300.00	47.94	94.98	3,468.29	-191.75	2,200.57	-199.05	0.00	0.00	0.00
4,400.00	47.94	94.98	3,535.28	-198.20	2,274.54	-205.74	0.00	0.00	0.00
4,500.00	47.94	94.98	3,602.28	-204.64	2,348.50	-212.43	0.00	0.00	0.00
4,600.00	47.94	94.98	3,669.27	-211.09	2,422.46	-219.12	0.00	0.00	0.00
4,700.00	47.94	94.98	3,736.26	-217.53	2,496.43	-225.81	0.00	0.00	0.00

Planning Report

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Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5070.00usft (RIG)
Site:	1N-65W-31 COUNTY LINE 3229 PAD	North Reference:	True
Well:	COUNTY LINE 3229-26H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	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)
4,800.00	47.94	94.98	3,803.25	-223.98	2,570.39	-232.50	0.00	0.00	0.00
4,900.00	47.94	94.98	3,870.24	-230.42	2,644.36	-239.19	0.00	0.00	0.00
5,000.00	47.94	94.98	3,937.23	-236.87	2,718.32	-245.88	0.00	0.00	0.00
5,100.00	47.94	94.98	4,004.22	-243.31	2,792.28	-252.57	0.00	0.00	0.00
5,200.00	47.94	94.98	4,071.21	-249.76	2,866.25	-259.26	0.00	0.00	0.00
5,300.00	47.94	94.98	4,138.20	-256.20	2,940.21	-265.95	0.00	0.00	0.00
5,400.00	47.94	94.98	4,205.19	-262.65	3,014.18	-272.64	0.00	0.00	0.00
5,500.00	47.94	94.98	4,272.18	-269.09	3,088.14	-279.33	0.00	0.00	0.00
5,600.00	47.94	94.98	4,339.17	-275.54	3,162.11	-286.02	0.00	0.00	0.00
5,700.00	47.94	94.98	4,406.17	-281.98	3,236.07	-292.71	0.00	0.00	0.00
5,800.00	47.94	94.98	4,473.16	-288.43	3,310.03	-299.40	0.00	0.00	0.00
5,900.00	47.94	94.98	4,540.15	-294.87	3,384.00	-306.09	0.00	0.00	0.00
6,000.00	47.94	94.98	4,607.14	-301.32	3,457.96	-312.78	0.00	0.00	0.00
6,100.00	47.94	94.98	4,674.13	-307.76	3,531.93	-319.47	0.00	0.00	0.00
6,200.00	47.94	94.98	4,741.12	-314.21	3,605.89	-326.16	0.00	0.00	0.00
6,300.00	47.94	94.98	4,808.11	-320.65	3,679.85	-332.85	0.00	0.00	0.00
6,400.00	47.94	94.98	4,875.10	-327.10	3,753.82	-339.54	0.00	0.00	0.00
6,500.00	47.94	94.98	4,942.09	-333.54	3,827.78	-346.23	0.00	0.00	0.00
6,600.00	47.94	94.98	5,009.08	-339.99	3,901.75	-352.92	0.00	0.00	0.00
6,700.00	47.94	94.98	5,076.07	-346.43	3,975.71	-359.61	0.00	0.00	0.00
6,800.00	47.94	94.98	5,143.07	-352.88	4,049.67	-366.30	0.00	0.00	0.00
6,900.00	47.94	94.98	5,210.06	-359.32	4,123.64	-372.99	0.00	0.00	0.00
7,000.00	47.94	94.98	5,277.05	-365.77	4,197.60	-379.68	0.00	0.00	0.00
7,100.00	47.94	94.98	5,344.04	-372.21	4,271.57	-386.37	0.00	0.00	0.00
7,200.00	47.94	94.98	5,411.03	-378.66	4,345.53	-393.06	0.00	0.00	0.00
7,300.00	47.94	94.98	5,478.02	-385.10	4,419.50	-399.75	0.00	0.00	0.00
7,400.00	47.94	94.98	5,545.01	-391.55	4,493.46	-406.44	0.00	0.00	0.00
7,500.00	47.94	94.98	5,612.00	-397.99	4,567.42	-413.14	0.00	0.00	0.00
7,600.00	47.94	94.98	5,678.99	-404.44	4,641.39	-419.83	0.00	0.00	0.00
7,700.00	47.94	94.98	5,745.98	-410.88	4,715.35	-426.52	0.00	0.00	0.00
7,800.00	47.94	94.98	5,812.97	-417.33	4,789.32	-433.21	0.00	0.00	0.00
7,900.00	47.94	94.98	5,879.96	-423.77	4,863.28	-439.90	0.00	0.00	0.00
8,000.00	47.94	94.98	5,946.96	-430.22	4,937.24	-446.59	0.00	0.00	0.00
8,100.00	47.94	94.98	6,013.95	-436.66	5,011.21	-453.28	0.00	0.00	0.00
8,200.00	47.94	94.98	6,080.94	-443.11	5,085.17	-459.97	0.00	0.00	0.00
8,300.00	47.94	94.98	6,147.93	-449.55	5,159.14	-466.66	0.00	0.00	0.00
8,400.00	47.94	94.98	6,214.92	-456.00	5,233.10	-473.35	0.00	0.00	0.00
8,500.00	47.94	94.98	6,281.91	-462.44	5,307.06	-480.04	0.00	0.00	0.00
8,600.00	47.94	94.98	6,348.90	-468.89	5,381.03	-486.73	0.00	0.00	0.00
8,700.00	47.94	94.98	6,415.89	-475.33	5,454.99	-493.42	0.00	0.00	0.00
8,800.00	47.94	94.98	6,482.88	-481.78	5,528.96	-500.11	0.00	0.00	0.00
8,900.00	47.94	94.98	6,549.87	-488.22	5,602.92	-506.80	0.00	0.00	0.00
9,000.00	47.94	94.98	6,616.86	-494.67	5,676.88	-513.49	0.00	0.00	0.00
9,100.00	47.94	94.98	6,683.85	-501.11	5,750.85	-520.18	0.00	0.00	0.00
9,200.00	47.94	94.98	6,750.85	-507.56	5,824.81	-526.87	0.00	0.00	0.00
9,264.40	47.94	94.98	6,793.99	-511.71	5,872.45	-531.18	0.00	0.00	0.00
KOP @ 9264.40ft :: DLS = 9°/100'									
9,300.00	47.83	90.66	6,817.87	-513.01	5,898.81	-532.57	9.00	-0.32	-12.13
9,350.00	47.94	84.60	6,851.42	-511.47	5,935.83	-531.15	9.00	0.23	-12.13
9,400.00	48.37	78.58	6,884.79	-506.02	5,972.65	-525.83	9.00	0.86	-12.03
9,450.00	49.11	72.68	6,917.77	-496.69	6,009.03	-516.62	9.00	1.48	-11.81
9,500.00	50.15	66.93	6,950.17	-483.54	6,044.75	-503.58	9.00	2.07	-11.50
9,550.00	51.46	61.37	6,981.79	-466.64	6,079.59	-486.80	9.00	2.62	-11.11
9,600.00	53.02	56.03	7,012.42	-446.10	6,113.33	-466.37	9.00	3.12	-10.68

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well COUNTY LINE 3229-26H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 5070.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5070.00usft (RIG)
Site:	1N-65W-31 COUNTY LINE 3229 PAD	North Reference:	True
Well:	COUNTY LINE 3229-26H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	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)	
9,650.00	54.81	50.92	7,041.88	-422.05	6,145.77	-442.43	9.00	3.58	-10.22	
9,700.00	56.80	46.04	7,069.99	-394.64	6,176.71	-415.12	9.00	3.99	-9.75	
9,750.00	58.98	41.39	7,096.57	-364.03	6,205.95	-384.61	9.00	4.35	-9.30	
9,800.00	61.32	36.96	7,121.47	-330.41	6,233.32	-351.08	9.00	4.67	-8.87	
9,850.00	63.79	32.72	7,144.52	-294.00	6,258.64	-314.75	9.00	4.95	-8.47	
9,900.00	66.38	28.67	7,165.59	-255.01	6,281.77	-275.84	9.00	5.19	-8.11	
9,950.00	69.08	24.77	7,184.54	-213.69	6,302.55	-234.59	9.00	5.39	-7.79	
10,000.00	71.86	21.02	7,201.26	-170.28	6,320.87	-191.24	9.00	5.56	-7.51	
10,050.00	74.71	17.38	7,215.65	-125.07	6,336.60	-146.08	9.00	5.70	-7.27	
10,100.00	77.61	13.84	7,227.61	-78.32	6,349.65	-99.38	9.00	5.81	-7.08	
10,150.00	80.57	10.38	7,237.07	-30.33	6,359.94	-51.42	9.00	5.90	-6.92	
10,200.00	83.55	6.98	7,243.98	18.61	6,367.40	-2.50	9.00	5.97	-6.80	
10,250.00	86.56	3.62	7,248.29	68.20	6,372.00	47.07	9.00	6.01	-6.72	
10,300.00	89.58	0.28	7,249.98	118.13	6,373.70	96.99	9.00	6.04	-6.68	
10,307.01	90.00	359.81	7,250.01	125.13	6,373.70	104.00	9.00	6.04	-6.67	
End Build/TPZ @ 10307.01ft										
10,400.00	90.00	359.81	7,250.01	218.13	6,373.40	196.99	0.00	0.00	0.00	
10,500.00	90.00	359.81	7,250.00	318.13	6,373.07	296.99	0.00	0.00	0.00	
10,600.00	90.00	359.81	7,250.00	418.13	6,372.74	396.99	0.00	0.00	0.00	
10,700.00	90.00	359.81	7,250.00	518.13	6,372.41	496.99	0.00	0.00	0.00	
10,800.00	90.00	359.81	7,250.00	618.13	6,372.09	596.99	0.00	0.00	0.00	
10,900.00	90.00	359.81	7,250.00	718.13	6,371.76	696.99	0.00	0.00	0.00	
11,000.00	90.00	359.81	7,250.00	818.13	6,371.43	796.99	0.00	0.00	0.00	
11,100.00	90.00	359.81	7,250.00	918.12	6,371.10	896.99	0.00	0.00	0.00	
11,200.00	90.00	359.81	7,250.00	1,018.12	6,370.78	996.99	0.00	0.00	0.00	
11,300.00	90.00	359.81	7,250.00	1,118.12	6,370.45	1,096.99	0.00	0.00	0.00	
11,400.00	90.00	359.81	7,250.00	1,218.12	6,370.12	1,196.99	0.00	0.00	0.00	
11,500.00	90.00	359.81	7,250.00	1,318.12	6,369.79	1,296.99	0.00	0.00	0.00	
11,600.00	90.00	359.81	7,250.00	1,418.12	6,369.46	1,396.99	0.00	0.00	0.00	
11,700.00	90.00	359.81	7,250.00	1,518.12	6,369.14	1,496.99	0.00	0.00	0.00	
11,800.00	90.00	359.81	7,250.00	1,618.12	6,368.81	1,596.99	0.00	0.00	0.00	
11,900.00	90.00	359.81	7,250.00	1,718.12	6,368.48	1,696.99	0.00	0.00	0.00	
12,000.00	90.00	359.81	7,250.00	1,818.12	6,368.15	1,796.99	0.00	0.00	0.00	
12,100.00	90.00	359.81	7,250.00	1,918.12	6,367.83	1,896.99	0.00	0.00	0.00	
12,200.00	90.00	359.81	7,250.00	2,018.12	6,367.50	1,996.99	0.00	0.00	0.00	
12,300.00	90.00	359.81	7,250.00	2,118.12	6,367.17	2,096.99	0.00	0.00	0.00	
12,400.00	90.00	359.81	7,250.00	2,218.12	6,366.84	2,196.99	0.00	0.00	0.00	
12,500.00	90.00	359.81	7,250.00	2,318.12	6,366.51	2,296.99	0.00	0.00	0.00	
12,600.00	90.00	359.81	7,250.00	2,418.12	6,366.19	2,396.99	0.00	0.00	0.00	
12,700.00	90.00	359.81	7,250.00	2,518.12	6,365.86	2,496.99	0.00	0.00	0.00	
12,800.00	90.00	359.81	7,250.00	2,618.12	6,365.53	2,596.99	0.00	0.00	0.00	
12,900.00	90.00	359.81	7,250.00	2,718.12	6,365.20	2,696.99	0.00	0.00	0.00	
13,000.00	90.00	359.81	7,250.00	2,818.11	6,364.88	2,796.99	0.00	0.00	0.00	
13,100.00	90.00	359.81	7,250.00	2,918.11	6,364.55	2,896.99	0.00	0.00	0.00	
13,200.00	90.00	359.81	7,250.00	3,018.11	6,364.22	2,996.99	0.00	0.00	0.00	
13,300.00	90.00	359.81	7,250.00	3,118.11	6,363.89	3,096.99	0.00	0.00	0.00	
13,400.00	90.00	359.81	7,250.00	3,218.11	6,363.57	3,196.99	0.00	0.00	0.00	
13,500.00	90.00	359.81	7,250.00	3,318.11	6,363.24	3,296.99	0.00	0.00	0.00	
13,600.00	90.00	359.81	7,250.00	3,418.11	6,362.91	3,396.99	0.00	0.00	0.00	
13,700.00	90.00	359.81	7,250.00	3,518.11	6,362.58	3,496.99	0.00	0.00	0.00	
13,800.00	90.00	359.81	7,250.00	3,618.11	6,362.25	3,596.99	0.00	0.00	0.00	
13,900.00	90.00	359.81	7,250.00	3,718.11	6,361.93	3,696.99	0.00	0.00	0.00	
14,000.00	90.00	359.81	7,250.00	3,818.11	6,361.60	3,796.99	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well COUNTY LINE 3229-26H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 5070.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5070.00usft (RIG)
Site:	1N-65W-31 COUNTY LINE 3229 PAD	North Reference:	True
Well:	COUNTY LINE 3229-26H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	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)
14,100.00	90.00	359.81	7,250.00	3,918.11	6,361.27	3,896.99	0.00	0.00	0.00
14,200.00	90.00	359.81	7,250.00	4,018.11	6,360.94	3,996.99	0.00	0.00	0.00
14,300.00	90.00	359.81	7,250.00	4,118.11	6,360.62	4,096.99	0.00	0.00	0.00
14,400.00	90.00	359.81	7,250.00	4,218.11	6,360.29	4,196.99	0.00	0.00	0.00
14,500.00	90.00	359.81	7,250.00	4,318.11	6,359.96	4,296.99	0.00	0.00	0.00
14,600.00	90.00	359.81	7,250.00	4,418.11	6,359.63	4,396.99	0.00	0.00	0.00
14,700.00	90.00	359.81	7,250.00	4,518.11	6,359.30	4,496.99	0.00	0.00	0.00
14,800.00	90.00	359.81	7,250.00	4,618.10	6,358.98	4,596.99	0.00	0.00	0.00
14,900.00	90.00	359.81	7,250.00	4,718.10	6,358.65	4,696.99	0.00	0.00	0.00
15,000.00	90.00	359.81	7,250.00	4,818.10	6,358.32	4,796.99	0.00	0.00	0.00
15,100.00	90.00	359.81	7,250.00	4,918.10	6,357.99	4,896.99	0.00	0.00	0.00
15,200.00	90.00	359.81	7,250.00	5,018.10	6,357.67	4,996.99	0.00	0.00	0.00
15,300.00	90.00	359.81	7,250.00	5,118.10	6,357.34	5,096.99	0.00	0.00	0.00
15,400.00	90.00	359.81	7,250.00	5,218.10	6,357.01	5,196.99	0.00	0.00	0.00
15,500.00	90.00	359.81	7,250.00	5,318.10	6,356.68	5,296.99	0.00	0.00	0.00
15,600.00	90.00	359.81	7,250.00	5,418.10	6,356.36	5,396.99	0.00	0.00	0.00
15,700.00	90.00	359.81	7,250.00	5,518.10	6,356.03	5,496.99	0.00	0.00	0.00
15,800.00	90.00	359.81	7,250.00	5,618.10	6,355.70	5,596.99	0.00	0.00	0.00
15,900.00	90.00	359.81	7,250.00	5,718.10	6,355.37	5,696.99	0.00	0.00	0.00
16,000.00	90.00	359.81	7,250.00	5,818.10	6,355.04	5,796.99	0.00	0.00	0.00
16,100.00	90.00	359.81	7,250.00	5,918.10	6,354.72	5,896.99	0.00	0.00	0.00
16,200.00	90.00	359.81	7,250.00	6,018.10	6,354.39	5,996.99	0.00	0.00	0.00
16,300.00	90.00	359.81	7,250.00	6,118.10	6,354.06	6,096.99	0.00	0.00	0.00
16,400.00	90.00	359.81	7,250.00	6,218.10	6,353.73	6,196.99	0.00	0.00	0.00
16,500.00	90.00	359.81	7,250.00	6,318.10	6,353.41	6,296.99	0.00	0.00	0.00
16,600.00	90.00	359.81	7,250.00	6,418.10	6,353.08	6,396.99	0.00	0.00	0.00
16,700.00	90.00	359.81	7,250.00	6,518.09	6,352.75	6,496.99	0.00	0.00	0.00
16,800.00	90.00	359.81	7,250.00	6,618.09	6,352.42	6,596.99	0.00	0.00	0.00
16,900.00	90.00	359.81	7,250.00	6,718.09	6,352.10	6,696.99	0.00	0.00	0.00
17,000.00	90.00	359.81	7,250.00	6,818.09	6,351.77	6,796.99	0.00	0.00	0.00
17,100.00	90.00	359.81	7,250.00	6,918.09	6,351.44	6,896.99	0.00	0.00	0.00
17,200.00	90.00	359.81	7,250.00	7,018.09	6,351.11	6,996.99	0.00	0.00	0.00
17,300.00	90.00	359.81	7,250.00	7,118.09	6,350.78	7,096.99	0.00	0.00	0.00
17,317.20	90.00	359.81	7,250.00	7,135.29	6,350.73	7,114.19	0.00	0.00	0.00
BPZ @ 17317.20ft									
17,407.21	90.00	359.81	7,250.00	7,225.30	6,350.43	7,204.20	0.00	0.00	0.00
TD Well @ 17407.21ft									

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
2,519.91	2,275.00	9 5/8"	9-5/8	13-1/2

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well COUNTY LINE 3229-26H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 5070.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5070.00usft (RIG)
Site:	1N-65W-31 COUNTY LINE 3229 PAD	North Reference:	True
Well:	COUNTY LINE 3229-26H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Design #2		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
201.50	201.50	0.00	0.00	Begin Nudge @ 201.50ft
2,598.50	2,328.44	-82.09	942.07	Hold Tangent @ 2598.50ft
9,264.40	6,793.99	-511.71	5,872.45	KOP @ 9264.40ft :: DLS = 9°/100'
10,307.01	7,250.01	125.13	6,373.70	End Build/TPZ @ 10307.01ft
17,317.20	7,250.00	7,135.29	6,350.73	BPZ @ 17317.20ft
17,407.21	7,250.00	7,225.30	6,350.43	TD Well @ 17407.21ft