

VERDAD RESOURCES

**WATTENBERG FIELD
1N-65W-31 COUNTY LINE 3229 PAD
COUNTY LINE 3229-26H**

Plan B

Plan: Permit Rev-1

Standard Planning Report

28 September, 2023

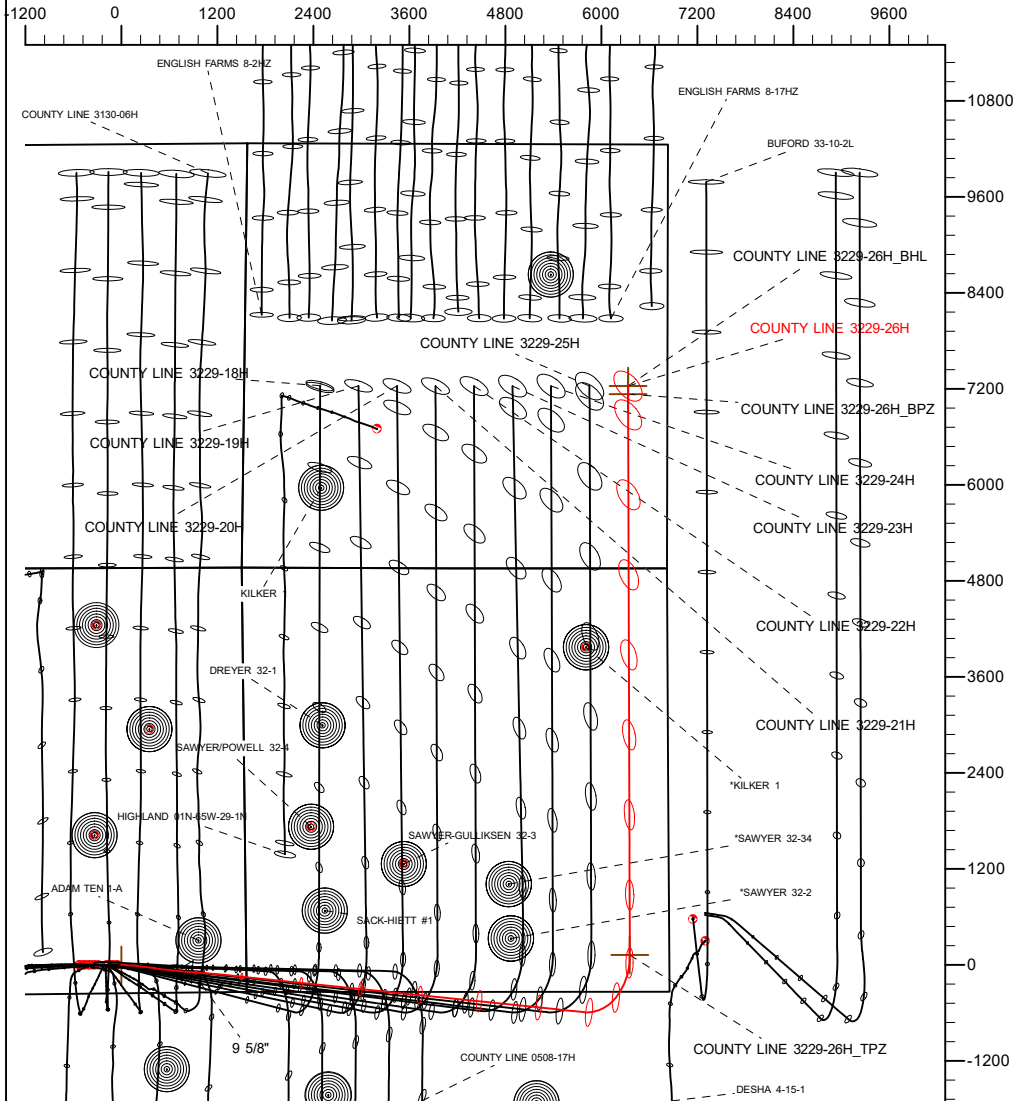
Project: WATTENBERG FIELD
Site: 1N-65W-31 COUNTY LINE 3229 PAD
Well: COUNTY LINE 3229-26H
Wellbore: Plan B
Design: Permit Rev-1

VERDAD RESOURCES

CASING DETAILS

TVD	MD	Name	Size
2292.00	2536.28	9 5/8"	9-5/8

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



SHL
340' FSL
1564' FEL

TPZ
460' FSL
493' FEL

BPZ
2180' FSL
492' FEL

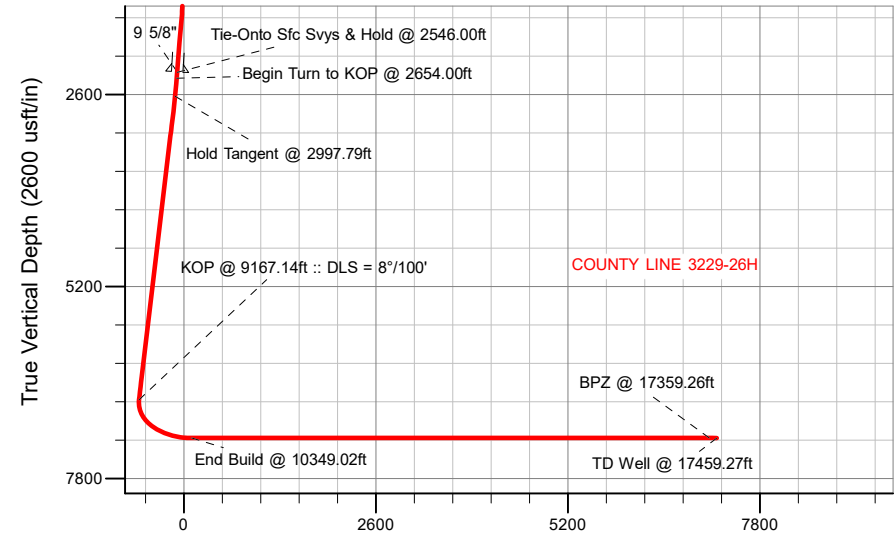
BHL
2280' FSL
493' FEL

SECTION DETAILS

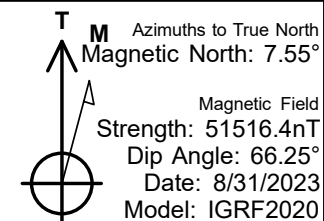
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
2546.00	41.48	94.06	2299.27	-89.79	895.38	0.00	0.00	-92.75	
2654.00	41.48	94.06	2380.18	-94.85	966.74	0.00	0.00	-98.06	
2997.79	48.23	95.92	2623.76	-116.16	1208.12	2.00	11.67	-120.17	
9167.14	48.23	95.92	6733.43	-590.73	5784.84	0.00	0.00	-609.91	
10349.02	90.00	359.81	7250.00	125.08	6357.59	8.00	-94.08	103.99	
17459.27	90.00	359.81	7250.00	7235.29	6334.40	0.00	0.00	7214.24	COUNTY LINE 3229-26H_BHL

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	Northing	Easting	Latitude	Longitude
COUNTY LINE 3229-26H_SHL	0.00	1244381.42	3223314.61	40.001457	-104.702857
COUNTY LINE 3229-26H_TPZ	7250.00	1244563.50	3229670.72	40.001798	-104.680164
COUNTY LINE 3229-26H_BPZ	7250.00	1251573.36	3229584.95	40.021043	-104.680239
COUNTY LINE 3229-26H_BHL	7250.00	1251673.36	3229583.72	40.021317	-104.680240



Vertical Section at 359.81° (2600 usft/in)



WELL DETAILS: COUNTY LINE 3229-26H

GL = 5037'

RKB = 15' @ 5052.00usft (IKON 112)

Plan: Permit Rev-1 (COUNTY LINE 3229-26H/Plan B)

Date: 9/28/2023

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well COUNTY LINE 3229-26H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 15' @ 5052.00usft (IKON 112)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 15' @ 5052.00usft (IKON 112)
Site:	1N-65W-31 COUNTY LINE 3229 PAD	North Reference:	True
Well:	COUNTY LINE 3229-26H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	Permit Rev-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 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:	1,244,381.42 usft
	+E/-W	0.00 usft	Easting:	3,223,314.61 usft
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft
Grid Convergence:		0.52 °	Ground Level:	5,037.00 usft

Wellbore	Plan B				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF202013	8/31/2023	7.55	66.25	51,516.37902797

Design	Permit Rev-1				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	2,546.00
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	9/28/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	80.00	2,546.00	Total Directional MWD Surface (P	ISCWSA MWD	
				Fixed:v2:standard declination	
2	2,546.00	17,459.27	Permit Rev-1 (Plan B)	ISCWSA MWD	
				Fixed:v2:standard declination	

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Site:	1N-65W-31 COUNTY LINE 3229 PAD	North Reference:	True
Well:	COUNTY LINE 3229-26H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	Permit Rev-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
2,546.00	41.48	94.06	2,299.27	-89.79	895.38	0.00	0.00	0.00	0.00	
2,654.00	41.48	94.06	2,380.18	-94.85	966.74	0.00	0.00	0.00	0.00	
2,997.79	48.23	95.92	2,623.76	-116.16	1,208.12	2.00	1.96	0.54	11.67	
9,167.14	48.23	95.92	6,733.43	-590.73	5,784.84	0.00	0.00	0.00	0.00	
10,349.02	90.00	359.81	7,250.00	125.08	6,357.59	8.00	3.53	-8.13	-94.08	
17,459.27	90.00	359.81	7,250.00	7,235.29	6,334.40	0.00	0.00	0.00	0.00	COUNTY LINE 3229-

Planning Report

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Site:	1N-65W-31 COUNTY LINE 3229 PAD	North Reference:	True
Well:	COUNTY LINE 3229-26H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	Permit Rev-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
80.00	0.31	6.61	80.00	0.21	0.02	0.21	0.39	0.39	0.00
170.00	1.10	33.77	169.99	1.17	0.53	1.17	0.93	0.88	30.18
262.00	1.19	58.46	261.97	2.41	1.84	2.40	0.54	0.10	26.84
354.00	2.42	81.49	353.93	3.20	4.57	3.18	1.53	1.34	25.03
444.00	4.39	85.62	443.76	3.74	9.89	3.71	2.20	2.19	4.59
533.00	6.59	94.15	532.35	3.63	18.38	3.57	2.63	2.47	9.58
623.00	9.36	93.88	621.47	2.76	30.83	2.66	3.08	3.08	-0.30
712.00	9.71	100.39	709.25	0.92	45.44	0.77	1.27	0.39	7.31
801.00	12.04	100.74	796.64	-2.17	61.94	-2.37	2.62	2.62	0.39
891.00	14.19	95.03	884.29	-4.88	82.16	-5.15	2.79	2.39	-6.34
979.00	16.44	90.46	969.17	-5.93	105.36	-6.28	2.90	2.56	-5.19
1,069.00	20.43	93.18	1,054.53	-6.90	133.79	-7.35	4.53	4.43	3.02
1,159.00	21.93	95.90	1,138.45	-9.50	166.19	-10.05	1.99	1.67	3.02
1,248.00	22.32	97.57	1,220.90	-13.44	199.48	-14.10	0.83	0.44	1.88
1,338.00	22.24	97.49	1,304.18	-17.91	233.30	-18.68	0.10	-0.09	-0.09
1,427.00	21.45	95.38	1,386.79	-21.63	266.21	-22.51	1.25	-0.89	-2.37
1,516.00	22.24	95.64	1,469.40	-24.81	299.17	-25.80	0.89	0.89	0.29
1,606.00	25.18	97.84	1,551.79	-29.10	335.09	-30.21	3.41	3.27	2.44
1,695.00	28.34	98.37	1,631.25	-34.76	374.76	-36.00	3.56	3.55	0.60
1,785.00	31.90	98.45	1,709.09	-41.36	419.43	-42.75	3.96	3.96	0.09
1,874.00	35.51	99.24	1,783.12	-48.97	468.22	-50.52	4.09	4.06	0.89
1,963.00	35.68	97.75	1,855.49	-56.62	519.45	-58.34	0.99	0.19	-1.67
2,053.00	37.79	96.08	1,927.61	-63.08	572.88	-64.98	2.59	2.34	-1.86
2,142.00	39.90	95.46	1,996.93	-68.69	628.42	-70.77	2.41	2.37	-0.70
2,231.00	39.99	94.94	2,065.16	-73.87	685.33	-76.14	0.39	0.10	-0.58
2,321.00	41.04	94.23	2,133.58	-78.54	743.61	-81.00	1.27	1.17	-0.79
2,411.00	43.64	93.97	2,200.10	-82.87	804.06	-85.53	2.90	2.89	-0.29
2,500.00	42.54	94.67	2,265.09	-87.44	864.69	-90.31	1.35	-1.24	0.79
2,536.28	41.70	94.19	2,292.00	-89.32	888.95	-92.27	2.47	-2.31	-1.32
9 5/8"									
2,546.00	41.48	94.06	2,299.27	-89.79	895.38	-92.75	2.47	-2.30	-1.35
Tie-Onto Sfc Svcs & Hold @ 2546.00ft									
2,600.00	41.48	94.06	2,339.73	-92.32	931.06	-95.41	0.00	0.00	0.00
2,654.00	41.48	94.06	2,380.18	-94.85	966.74	-98.06	0.00	0.00	0.00
Begin Turn to KOP @ 2654.00ft									
2,700.00	42.38	94.34	2,414.41	-97.10	997.40	-100.41	2.00	1.96	0.60
2,800.00	44.34	94.90	2,487.10	-102.64	1,065.83	-106.17	2.00	1.96	0.57
2,900.00	46.31	95.43	2,557.41	-109.05	1,136.65	-112.82	2.00	1.96	0.53
2,997.79	48.23	95.92	2,623.76	-116.16	1,208.12	-120.17	2.00	1.97	0.50
Hold Tangent @ 2997.79ft									
3,000.00	48.23	95.92	2,625.24	-116.33	1,209.76	-120.34	0.00	0.00	0.00
3,100.00	48.23	95.92	2,691.85	-124.02	1,283.94	-128.28	0.00	0.00	0.00
3,200.00	48.23	95.92	2,758.46	-131.72	1,358.13	-136.22	0.00	0.00	0.00
3,300.00	48.23	95.92	2,825.08	-139.41	1,432.31	-144.16	0.00	0.00	0.00
3,400.00	48.23	95.92	2,891.69	-147.10	1,506.50	-152.09	0.00	0.00	0.00
3,500.00	48.23	95.92	2,958.31	-154.79	1,580.68	-160.03	0.00	0.00	0.00
3,600.00	48.23	95.92	3,024.92	-162.48	1,654.87	-167.97	0.00	0.00	0.00
3,700.00	48.23	95.92	3,091.54	-170.18	1,729.05	-175.91	0.00	0.00	0.00
3,800.00	48.23	95.92	3,158.15	-177.87	1,803.24	-183.85	0.00	0.00	0.00
3,900.00	48.23	95.92	3,224.76	-185.56	1,877.42	-191.79	0.00	0.00	0.00
4,000.00	48.23	95.92	3,291.38	-193.25	1,951.61	-199.73	0.00	0.00	0.00
4,100.00	48.23	95.92	3,357.99	-200.95	2,025.79	-207.66	0.00	0.00	0.00
4,200.00	48.23	95.92	3,424.61	-208.64	2,099.98	-215.60	0.00	0.00	0.00

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Well:	COUNTY LINE 3229-26H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	Permit Rev-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)
4,300.00	48.23	95.92	3,491.22	-216.33	2,174.16	-223.54	0.00	0.00	0.00
4,400.00	48.23	95.92	3,557.83	-224.02	2,248.35	-231.48	0.00	0.00	0.00
4,500.00	48.23	95.92	3,624.45	-231.72	2,322.53	-239.42	0.00	0.00	0.00
4,600.00	48.23	95.92	3,691.06	-239.41	2,396.72	-247.36	0.00	0.00	0.00
4,700.00	48.23	95.92	3,757.68	-247.10	2,470.90	-255.29	0.00	0.00	0.00
4,800.00	48.23	95.92	3,824.29	-254.79	2,545.08	-263.23	0.00	0.00	0.00
4,900.00	48.23	95.92	3,890.91	-262.49	2,619.27	-271.17	0.00	0.00	0.00
5,000.00	48.23	95.92	3,957.52	-270.18	2,693.45	-279.11	0.00	0.00	0.00
5,100.00	48.23	95.92	4,024.13	-277.87	2,767.64	-287.05	0.00	0.00	0.00
5,200.00	48.23	95.92	4,090.75	-285.56	2,841.82	-294.99	0.00	0.00	0.00
5,300.00	48.23	95.92	4,157.36	-293.26	2,916.01	-302.92	0.00	0.00	0.00
5,400.00	48.23	95.92	4,223.98	-300.95	2,990.19	-310.86	0.00	0.00	0.00
5,500.00	48.23	95.92	4,290.59	-308.64	3,064.38	-318.80	0.00	0.00	0.00
5,600.00	48.23	95.92	4,357.21	-316.33	3,138.56	-326.74	0.00	0.00	0.00
5,700.00	48.23	95.92	4,423.82	-324.03	3,212.75	-334.68	0.00	0.00	0.00
5,800.00	48.23	95.92	4,490.43	-331.72	3,286.93	-342.62	0.00	0.00	0.00
5,900.00	48.23	95.92	4,557.05	-339.41	3,361.12	-350.55	0.00	0.00	0.00
6,000.00	48.23	95.92	4,623.66	-347.10	3,435.30	-358.49	0.00	0.00	0.00
6,100.00	48.23	95.92	4,690.28	-354.80	3,509.49	-366.43	0.00	0.00	0.00
6,200.00	48.23	95.92	4,756.89	-362.49	3,583.67	-374.37	0.00	0.00	0.00
6,300.00	48.23	95.92	4,823.50	-370.18	3,657.86	-382.31	0.00	0.00	0.00
6,400.00	48.23	95.92	4,890.12	-377.87	3,732.04	-390.25	0.00	0.00	0.00
6,500.00	48.23	95.92	4,956.73	-385.56	3,806.23	-398.18	0.00	0.00	0.00
6,600.00	48.23	95.92	5,023.35	-393.26	3,880.41	-406.12	0.00	0.00	0.00
6,700.00	48.23	95.92	5,089.96	-400.95	3,954.59	-414.06	0.00	0.00	0.00
6,800.00	48.23	95.92	5,156.58	-408.64	4,028.78	-422.00	0.00	0.00	0.00
6,900.00	48.23	95.92	5,223.19	-416.33	4,102.96	-429.94	0.00	0.00	0.00
7,000.00	48.23	95.92	5,289.80	-424.03	4,177.15	-437.88	0.00	0.00	0.00
7,100.00	48.23	95.92	5,356.42	-431.72	4,251.33	-445.82	0.00	0.00	0.00
7,200.00	48.23	95.92	5,423.03	-439.41	4,325.52	-453.75	0.00	0.00	0.00
7,300.00	48.23	95.92	5,489.65	-447.10	4,399.70	-461.69	0.00	0.00	0.00
7,400.00	48.23	95.92	5,556.26	-454.80	4,473.89	-469.63	0.00	0.00	0.00
7,500.00	48.23	95.92	5,622.88	-462.49	4,548.07	-477.57	0.00	0.00	0.00
7,600.00	48.23	95.92	5,689.49	-470.18	4,622.26	-485.51	0.00	0.00	0.00
7,700.00	48.23	95.92	5,756.10	-477.87	4,696.44	-493.45	0.00	0.00	0.00
7,800.00	48.23	95.92	5,822.72	-485.57	4,770.63	-501.38	0.00	0.00	0.00
7,900.00	48.23	95.92	5,889.33	-493.26	4,844.81	-509.32	0.00	0.00	0.00
8,000.00	48.23	95.92	5,955.95	-500.95	4,919.00	-517.26	0.00	0.00	0.00
8,100.00	48.23	95.92	6,022.56	-508.64	4,993.18	-525.20	0.00	0.00	0.00
8,200.00	48.23	95.92	6,089.17	-516.34	5,067.37	-533.14	0.00	0.00	0.00
8,300.00	48.23	95.92	6,155.79	-524.03	5,141.55	-541.08	0.00	0.00	0.00
8,400.00	48.23	95.92	6,222.40	-531.72	5,215.74	-549.01	0.00	0.00	0.00
8,500.00	48.23	95.92	6,289.02	-539.41	5,289.92	-556.95	0.00	0.00	0.00
8,600.00	48.23	95.92	6,355.63	-547.11	5,364.10	-564.89	0.00	0.00	0.00
8,700.00	48.23	95.92	6,422.25	-554.80	5,438.29	-572.83	0.00	0.00	0.00
8,800.00	48.23	95.92	6,488.86	-562.49	5,512.47	-580.77	0.00	0.00	0.00
8,900.00	48.23	95.92	6,555.47	-570.18	5,586.66	-588.71	0.00	0.00	0.00
9,000.00	48.23	95.92	6,622.09	-577.88	5,660.84	-596.64	0.00	0.00	0.00
9,100.00	48.23	95.92	6,688.70	-585.57	5,735.03	-604.58	0.00	0.00	0.00
9,167.14	48.23	95.92	6,733.43	-590.73	5,784.84	-609.91	0.00	0.00	0.00
KOP @ 9167.14ft :: DLS = 8°/100'									
9,200.00	48.10	92.40	6,755.35	-592.51	5,809.25	-611.77	8.00	-0.41	-10.72
9,250.00	48.10	87.02	6,788.75	-592.32	5,846.44	-611.70	8.00	0.01	-10.75

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Project:	WATTENBERG FIELD	MD Reference:	RKB = 15' @ 5052.00usft (IKON 112)
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Well:	COUNTY LINE 3229-26H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	Permit Rev-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)	
9,300.00	48.36	81.67	6,822.08	-588.64	5,883.52	-608.15	8.00	0.51	-10.71	
9,350.00	48.86	76.38	6,855.15	-581.50	5,920.32	-601.13	8.00	1.00	-10.58	
9,400.00	49.60	71.18	6,887.82	-570.92	5,956.65	-590.67	8.00	1.48	-10.38	
9,450.00	50.56	66.12	6,919.92	-556.96	5,992.34	-576.83	8.00	1.93	-10.12	
9,500.00	51.74	61.21	6,951.29	-539.68	6,027.21	-559.67	8.00	2.36	-9.82	
9,550.00	53.11	56.47	6,981.79	-519.18	6,061.10	-539.27	8.00	2.75	-9.48	
9,600.00	54.67	51.91	7,011.26	-495.54	6,093.83	-515.75	8.00	3.11	-9.12	
9,650.00	56.39	47.53	7,039.57	-468.89	6,125.26	-489.20	8.00	3.44	-8.76	
9,700.00	58.26	43.33	7,066.57	-439.35	6,155.22	-459.76	8.00	3.74	-8.40	
9,750.00	60.26	39.30	7,092.13	-407.08	6,183.57	-427.58	8.00	4.00	-8.06	
9,800.00	62.38	35.43	7,116.13	-372.22	6,210.17	-392.81	8.00	4.24	-7.73	
9,850.00	64.61	31.72	7,138.45	-334.94	6,234.90	-355.61	8.00	4.44	-7.43	
9,900.00	66.92	28.14	7,158.98	-295.43	6,257.63	-316.18	8.00	4.62	-7.16	
9,950.00	69.31	24.68	7,177.62	-253.88	6,278.24	-274.70	8.00	4.78	-6.91	
10,000.00	71.76	21.33	7,194.28	-210.50	6,296.65	-231.37	8.00	4.91	-6.70	
10,050.00	74.28	18.08	7,208.89	-165.48	6,312.76	-186.42	8.00	5.03	-6.51	
10,100.00	76.84	14.90	7,221.36	-119.06	6,326.50	-140.04	8.00	5.12	-6.35	
10,150.00	79.44	11.79	7,231.64	-71.46	6,337.79	-92.48	8.00	5.20	-6.22	
10,200.00	82.07	8.74	7,239.68	-22.91	6,346.58	-43.96	8.00	5.26	-6.11	
10,250.00	84.72	5.72	7,245.43	26.35	6,352.82	5.29	8.00	5.30	-6.03	
10,300.00	87.38	2.73	7,248.88	76.09	6,356.50	55.01	8.00	5.33	-5.98	
10,349.02	90.00	359.81	7,250.00	125.08	6,357.59	103.99	8.00	5.34	-5.96	
End Build @ 10349.02ft										
10,400.00	90.00	359.81	7,250.00	176.05	6,357.42	154.97	0.00	0.00	0.00	
10,500.00	90.00	359.81	7,250.00	276.05	6,357.09	254.97	0.00	0.00	0.00	
10,600.00	90.00	359.81	7,250.00	376.05	6,356.77	354.97	0.00	0.00	0.00	
10,700.00	90.00	359.81	7,250.00	476.05	6,356.44	454.97	0.00	0.00	0.00	
10,800.00	90.00	359.81	7,250.00	576.05	6,356.12	554.97	0.00	0.00	0.00	
10,900.00	90.00	359.81	7,250.00	676.05	6,355.79	654.97	0.00	0.00	0.00	
11,000.00	90.00	359.81	7,250.00	776.05	6,355.46	754.97	0.00	0.00	0.00	
11,100.00	90.00	359.81	7,250.00	876.05	6,355.14	854.97	0.00	0.00	0.00	
11,200.00	90.00	359.81	7,250.00	976.05	6,354.81	954.97	0.00	0.00	0.00	
11,300.00	90.00	359.81	7,250.00	1,076.05	6,354.49	1,054.97	0.00	0.00	0.00	
11,400.00	90.00	359.81	7,250.00	1,176.05	6,354.16	1,154.97	0.00	0.00	0.00	
11,500.00	90.00	359.81	7,250.00	1,276.05	6,353.83	1,254.97	0.00	0.00	0.00	
11,600.00	90.00	359.81	7,250.00	1,376.05	6,353.51	1,354.97	0.00	0.00	0.00	
11,700.00	90.00	359.81	7,250.00	1,476.05	6,353.18	1,454.97	0.00	0.00	0.00	
11,800.00	90.00	359.81	7,250.00	1,576.05	6,352.86	1,554.97	0.00	0.00	0.00	
11,900.00	90.00	359.81	7,250.00	1,676.05	6,352.53	1,654.97	0.00	0.00	0.00	
12,000.00	90.00	359.81	7,250.00	1,776.04	6,352.20	1,754.97	0.00	0.00	0.00	
12,100.00	90.00	359.81	7,250.00	1,876.04	6,351.88	1,854.97	0.00	0.00	0.00	
12,200.00	90.00	359.81	7,250.00	1,976.04	6,351.55	1,954.97	0.00	0.00	0.00	
12,300.00	90.00	359.81	7,250.00	2,076.04	6,351.22	2,054.97	0.00	0.00	0.00	
12,400.00	90.00	359.81	7,250.00	2,176.04	6,350.90	2,154.97	0.00	0.00	0.00	
12,500.00	90.00	359.81	7,250.00	2,276.04	6,350.57	2,254.97	0.00	0.00	0.00	
12,600.00	90.00	359.81	7,250.00	2,376.04	6,350.25	2,354.97	0.00	0.00	0.00	
12,700.00	90.00	359.81	7,250.00	2,476.04	6,349.92	2,454.97	0.00	0.00	0.00	
12,800.00	90.00	359.81	7,250.00	2,576.04	6,349.59	2,554.97	0.00	0.00	0.00	
12,900.00	90.00	359.81	7,250.00	2,676.04	6,349.27	2,654.97	0.00	0.00	0.00	
13,000.00	90.00	359.81	7,250.00	2,776.04	6,348.94	2,754.97	0.00	0.00	0.00	
13,100.00	90.00	359.81	7,250.00	2,876.04	6,348.62	2,854.97	0.00	0.00	0.00	
13,200.00	90.00	359.81	7,250.00	2,976.04	6,348.29	2,954.97	0.00	0.00	0.00	
13,300.00	90.00	359.81	7,250.00	3,076.04	6,347.96	3,054.97	0.00	0.00	0.00	
13,400.00	90.00	359.81	7,250.00	3,176.04	6,347.64	3,154.97	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 = 15' @ 5052.00usft (IKON 112)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 15' @ 5052.00usft (IKON 112)
Site:	1N-65W-31 COUNTY LINE 3229 PAD	North Reference:	True
Well:	COUNTY LINE 3229-26H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	Permit Rev-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)
13,500.00	90.00	359.81	7,250.00	3,276.04	6,347.31	3,254.97	0.00	0.00	0.00
13,600.00	90.00	359.81	7,250.00	3,376.04	6,346.99	3,354.97	0.00	0.00	0.00
13,700.00	90.00	359.81	7,250.00	3,476.04	6,346.66	3,454.97	0.00	0.00	0.00
13,800.00	90.00	359.81	7,250.00	3,576.04	6,346.33	3,554.97	0.00	0.00	0.00
13,900.00	90.00	359.81	7,250.00	3,676.03	6,346.01	3,654.97	0.00	0.00	0.00
14,000.00	90.00	359.81	7,250.00	3,776.03	6,345.68	3,754.97	0.00	0.00	0.00
14,100.00	90.00	359.81	7,250.00	3,876.03	6,345.36	3,854.97	0.00	0.00	0.00
14,200.00	90.00	359.81	7,250.00	3,976.03	6,345.03	3,954.97	0.00	0.00	0.00
14,300.00	90.00	359.81	7,250.00	4,076.03	6,344.70	4,054.97	0.00	0.00	0.00
14,400.00	90.00	359.81	7,250.00	4,176.03	6,344.38	4,154.97	0.00	0.00	0.00
14,500.00	90.00	359.81	7,250.00	4,276.03	6,344.05	4,254.97	0.00	0.00	0.00
14,600.00	90.00	359.81	7,250.00	4,376.03	6,343.73	4,354.97	0.00	0.00	0.00
14,700.00	90.00	359.81	7,250.00	4,476.03	6,343.40	4,454.97	0.00	0.00	0.00
14,800.00	90.00	359.81	7,250.00	4,576.03	6,343.07	4,554.97	0.00	0.00	0.00
14,900.00	90.00	359.81	7,250.00	4,676.03	6,342.75	4,654.97	0.00	0.00	0.00
15,000.00	90.00	359.81	7,250.00	4,776.03	6,342.42	4,754.97	0.00	0.00	0.00
15,100.00	90.00	359.81	7,250.00	4,876.03	6,342.10	4,854.97	0.00	0.00	0.00
15,200.00	90.00	359.81	7,250.00	4,976.03	6,341.77	4,954.97	0.00	0.00	0.00
15,300.00	90.00	359.81	7,250.00	5,076.03	6,341.44	5,054.97	0.00	0.00	0.00
15,400.00	90.00	359.81	7,250.00	5,176.03	6,341.12	5,154.97	0.00	0.00	0.00
15,500.00	90.00	359.81	7,250.00	5,276.03	6,340.79	5,254.97	0.00	0.00	0.00
15,600.00	90.00	359.81	7,250.00	5,376.03	6,340.47	5,354.97	0.00	0.00	0.00
15,700.00	90.00	359.81	7,250.00	5,476.03	6,340.14	5,454.97	0.00	0.00	0.00
15,800.00	90.00	359.81	7,250.00	5,576.02	6,339.81	5,554.97	0.00	0.00	0.00
15,900.00	90.00	359.81	7,250.00	5,676.02	6,339.49	5,654.97	0.00	0.00	0.00
16,000.00	90.00	359.81	7,250.00	5,776.02	6,339.16	5,754.97	0.00	0.00	0.00
16,100.00	90.00	359.81	7,250.00	5,876.02	6,338.84	5,854.97	0.00	0.00	0.00
16,200.00	90.00	359.81	7,250.00	5,976.02	6,338.51	5,954.97	0.00	0.00	0.00
16,300.00	90.00	359.81	7,250.00	6,076.02	6,338.18	6,054.97	0.00	0.00	0.00
16,400.00	90.00	359.81	7,250.00	6,176.02	6,337.86	6,154.97	0.00	0.00	0.00
16,500.00	90.00	359.81	7,250.00	6,276.02	6,337.53	6,254.97	0.00	0.00	0.00
16,600.00	90.00	359.81	7,250.00	6,376.02	6,337.21	6,354.97	0.00	0.00	0.00
16,700.00	90.00	359.81	7,250.00	6,476.02	6,336.88	6,454.97	0.00	0.00	0.00
16,800.00	90.00	359.81	7,250.00	6,576.02	6,336.55	6,554.97	0.00	0.00	0.00
16,900.00	90.00	359.81	7,250.00	6,676.02	6,336.23	6,654.97	0.00	0.00	0.00
17,000.00	90.00	359.81	7,250.00	6,776.02	6,335.90	6,754.97	0.00	0.00	0.00
17,100.00	90.00	359.81	7,250.00	6,876.02	6,335.58	6,854.97	0.00	0.00	0.00
17,200.00	90.00	359.81	7,250.00	6,976.02	6,335.25	6,954.97	0.00	0.00	0.00
17,300.00	90.00	359.81	7,250.00	7,076.02	6,334.92	7,054.97	0.00	0.00	0.00
17,359.26	90.00	359.81	7,250.00	7,135.28	6,334.73	7,114.23	0.00	0.00	0.00
BPZ @ 17359.26ft									
17,400.00	90.00	359.81	7,250.00	7,176.02	6,334.60	7,154.97	0.00	0.00	0.00
17,459.27	90.00	359.81	7,250.00	7,235.29	6,334.40	7,214.24	0.00	0.00	0.00
TD Well @ 17459.27ft									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
2,536.28	2,292.00	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 = 15' @ 5052.00usft (IKON 112)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 15' @ 5052.00usft (IKON 112)
Site:	1N-65W-31 COUNTY LINE 3229 PAD	North Reference:	True
Well:	COUNTY LINE 3229-26H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	Permit Rev-1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,546.00	2,299.27	-89.79	895.38	Tie-Onto Sfc Svys & Hold @ 2546.00ft
2,654.00	2,380.18	-94.85	966.74	Begin Turn to KOP @ 2654.00ft
2,997.79	2,623.76	-116.16	1,208.12	Hold Tangent @ 2997.79ft
9,167.14	6,733.43	-590.73	5,784.84	KOP @ 9167.14ft :: DLS = 8"/100'
10,349.02	7,250.00	125.08	6,357.59	End Build @ 10349.02ft
17,359.26	7,250.00	7,135.28	6,334.73	BPZ @ 17359.26ft
17,459.27	7,250.00	7,235.29	6,334.40	TD Well @ 17459.27ft