

VERDAD RESOURCES

**WATTENBERG FIELD
2N-64W-28 GEORGENE PAD
GEORGENE 2833-04H**

Plan B

Plan: Design #3

Standard Planning Report

28 October, 2022

Project: WATTENBERG FIELD
Site: 2N-64W-28 GEORGENE PAD
Well: GEORGENE 2833-04H
Wellbore: Plan B
Design: Design #3

VERDAD RESOURCES

CASING DETAILS

TVD	MD	Name	Size
2376.00	2548.38	9 5/8"	9-5/8

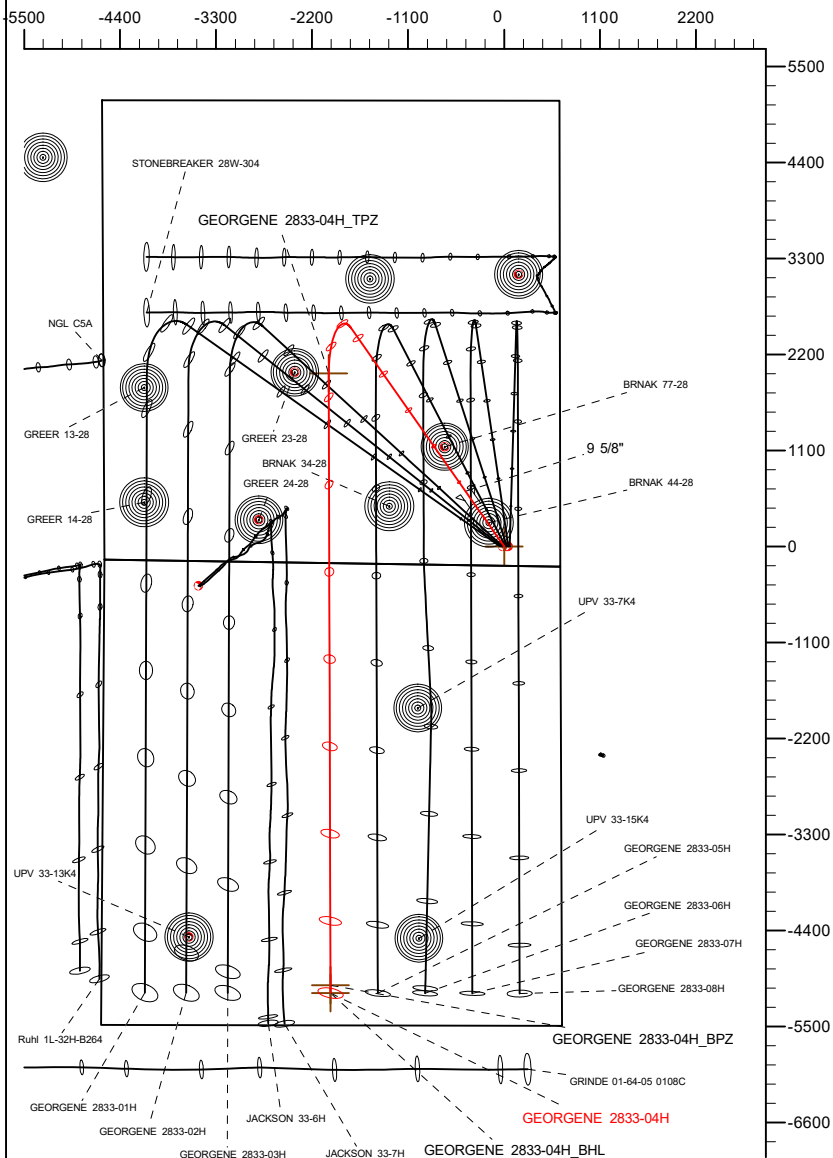
SHL
222' FSL
643 FEL

LP/TPZ
2172' FSL
2581' FWL

BPZ
460' FSL
2626' FWL

BHL
370' FSL
2627' FWL

West(-)/East(+) (2200 usft/in)

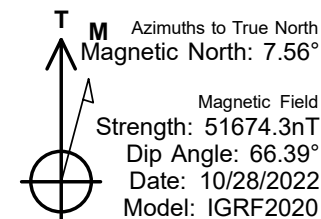
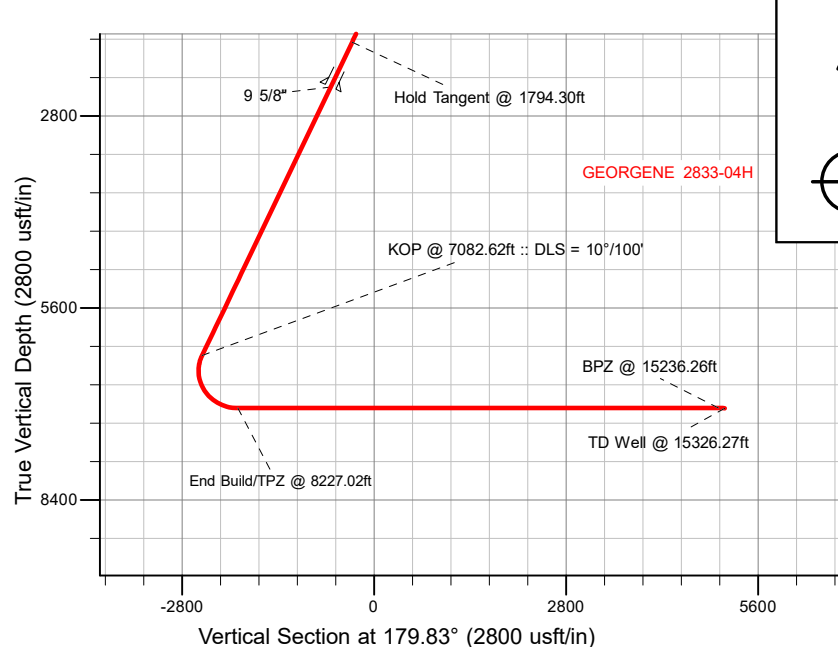


SECTION DETAILS

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	
280.30	0.00	0.00	280.30	0.00	0.00	0.00	0.00	0.00	
1794.30	30.28	324.97	1724.80	320.04	-224.34	2.00	324.97	-320.70	
7082.62	30.28	324.97	6291.64	2503.51	-1754.93	0.00	0.00	-2508.71	
8227.02	90.00	179.83	7060.00	1981.14	-2009.82	10.00	-141.11	-1987.10	
15326.27	90.00	179.83	7060.00	-5118.08	-1988.86	0.00	0.00	5112.16	GEORGENE 2833-04H_BHL

DESIGN TARGET DETAILS

Name	TVD	Northing	Easting	Latitude	Longitude
GEORGENE 2833-04H_SHL	0.00	1281682.28	3266001.24	40.102695	-104.549066
GEORGENE 2833-04H_TPZ	7060.00	1283641.67	3263970.10	40.108133	-104.556252
GEORGENE 2833-04H_BPZ	7060.00	1276633.17	3264066.14	40.088892	-104.556176
GEORGENE 2833-04H_BHL	7060.00	1276543.17	3264067.38	40.088644	-104.556175



WELL DETAILS: GEORGENE 2833-04H

GL = 5018'
RKB = 24' @ 5042.00usft (RIG)

Plan: Design #3 (GEORGENE 2833-04H/Plan B)

Date: 10/28/2022

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well GEORGENE 2833-04H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 5042.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5042.00usft (RIG)
Site:	2N-64W-28 GEORGENE PAD	North Reference:	True
Well:	GEORGENE 2833-04H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	Design #3		

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-64W-28 GEORGENE PAD			
Site Position:		Northing:	1,281,723.49 usft	Latitude: 40.102807
From:	Lat/Long	Easting:	3,266,028.51 usft	Longitude: -104.548967
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	

Well	GEORGENE 2833-04H			
Well Position	+N/-S	0.00 usft	Northing:	1,281,682.28 usft
	+E/-W	0.00 usft	Easting:	3,266,001.24 usft
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft
Grid Convergence:		0.61 °	Ground Level:	5,018.00 usft

Wellbore	Plan B				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF202013	10/28/2022	7.56	66.39	51,674.28005261

Design	Design #3				
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	179.83	

Plan Survey Tool Program	Date	10/28/2022			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	2,376.00	Design #3 (Plan B)	ISCWSA MWD	
				Fixed:v2:standard declination	
2	2,376.00	15,326.27	Design #3 (Plan B)	ISCWSA MWD	
				Fixed:v2:standard declination	

Planning Report

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Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 5042.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5042.00usft (RIG)
Site:	2N-64W-28 GEORGENE PAD	North Reference:	True
Well:	GEORGENE 2833-04H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	Design #3		

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	
280.30	0.00	0.00	280.30	0.00	0.00	0.00	0.00	0.00	0.00	
1,794.30	30.28	324.97	1,724.80	320.04	-224.34	2.00	2.00	0.00	324.97	
7,082.62	30.28	324.97	6,291.64	2,503.51	-1,754.93	0.00	0.00	0.00	0.00	
8,227.02	90.00	179.83	7,060.00	1,981.14	-2,009.82	10.00	5.22	-12.68	-141.11	
15,326.27	90.00	179.83	7,060.00	-5,118.08	-1,988.86	0.00	0.00	0.00	0.00	GEORGENE 2833-04

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well GEORGENE 2833-04H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 5042.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5042.00usft (RIG)
Site:	2N-64W-28 GEORGENE PAD	North Reference:	True
Well:	GEORGENE 2833-04H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	Design #3		

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
280.30	0.00	0.00	280.30	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 280.30ft									
300.00	0.39	324.97	300.00	0.06	-0.04	-0.06	2.00	2.00	0.00
400.00	2.39	324.97	399.97	2.05	-1.44	-2.05	2.00	2.00	0.00
500.00	4.39	324.97	499.78	6.89	-4.83	-6.91	2.00	2.00	0.00
600.00	6.39	324.97	599.34	14.59	-10.23	-14.62	2.00	2.00	0.00
700.00	8.39	324.97	698.50	25.13	-17.62	-25.18	2.00	2.00	0.00
800.00	10.39	324.97	797.15	38.49	-26.98	-38.57	2.00	2.00	0.00
900.00	12.39	324.97	895.18	54.67	-38.32	-54.78	2.00	2.00	0.00
1,000.00	14.39	324.97	992.45	73.64	-51.62	-73.79	2.00	2.00	0.00
1,100.00	16.39	324.97	1,088.86	95.37	-66.86	-95.57	2.00	2.00	0.00
1,200.00	18.39	324.97	1,184.28	119.85	-84.01	-120.10	2.00	2.00	0.00
1,300.00	20.39	324.97	1,278.60	147.04	-103.07	-147.35	2.00	2.00	0.00
1,400.00	22.39	324.97	1,371.71	176.91	-124.01	-177.28	2.00	2.00	0.00
1,500.00	24.39	324.97	1,463.48	209.42	-146.80	-209.85	2.00	2.00	0.00
1,600.00	26.39	324.97	1,553.82	244.53	-171.42	-245.04	2.00	2.00	0.00
1,700.00	28.39	324.97	1,642.60	282.21	-197.82	-282.79	2.00	2.00	0.00
1,794.30	30.28	324.97	1,724.80	320.04	-224.34	-320.70	2.00	2.00	0.00
Hold Tangent @ 1794.30ft									
1,800.00	30.28	324.97	1,729.72	322.39	-225.99	-323.06	0.00	0.00	0.00
1,900.00	30.28	324.97	1,816.08	363.68	-254.94	-364.44	0.00	0.00	0.00
2,000.00	30.28	324.97	1,902.44	404.97	-283.88	-405.81	0.00	0.00	0.00
2,100.00	30.28	324.97	1,988.80	446.26	-312.82	-447.18	0.00	0.00	0.00
2,200.00	30.28	324.97	2,075.15	487.55	-341.76	-488.56	0.00	0.00	0.00
2,300.00	30.28	324.97	2,161.51	528.84	-370.71	-529.93	0.00	0.00	0.00
2,400.00	30.28	324.97	2,247.87	570.12	-399.65	-571.31	0.00	0.00	0.00
2,500.00	30.28	324.97	2,334.22	611.41	-428.59	-612.68	0.00	0.00	0.00
2,548.38	30.28	324.97	2,376.00	631.39	-442.59	-632.70	0.00	0.00	0.00
9 5/8"									
2,600.00	30.28	324.97	2,420.58	652.70	-457.54	-654.06	0.00	0.00	0.00
2,700.00	30.28	324.97	2,506.94	693.99	-486.48	-695.43	0.00	0.00	0.00
2,800.00	30.28	324.97	2,593.30	735.28	-515.42	-736.80	0.00	0.00	0.00
2,900.00	30.28	324.97	2,679.65	776.57	-544.36	-778.18	0.00	0.00	0.00
3,000.00	30.28	324.97	2,766.01	817.86	-573.31	-819.55	0.00	0.00	0.00
3,100.00	30.28	324.97	2,852.37	859.14	-602.25	-860.93	0.00	0.00	0.00
3,200.00	30.28	324.97	2,938.72	900.43	-631.19	-902.30	0.00	0.00	0.00
3,300.00	30.28	324.97	3,025.08	941.72	-660.14	-943.68	0.00	0.00	0.00
3,400.00	30.28	324.97	3,111.44	983.01	-689.08	-985.05	0.00	0.00	0.00
3,500.00	30.28	324.97	3,197.80	1,024.30	-718.02	-1,026.43	0.00	0.00	0.00
3,600.00	30.28	324.97	3,284.15	1,065.59	-746.96	-1,067.80	0.00	0.00	0.00
3,700.00	30.28	324.97	3,370.51	1,106.88	-775.91	-1,109.17	0.00	0.00	0.00
3,800.00	30.28	324.97	3,456.87	1,148.17	-804.85	-1,150.55	0.00	0.00	0.00
3,900.00	30.28	324.97	3,543.22	1,189.45	-833.79	-1,191.92	0.00	0.00	0.00
4,000.00	30.28	324.97	3,629.58	1,230.74	-862.74	-1,233.30	0.00	0.00	0.00
4,100.00	30.28	324.97	3,715.94	1,272.03	-891.68	-1,274.67	0.00	0.00	0.00
4,200.00	30.28	324.97	3,802.30	1,313.32	-920.62	-1,316.05	0.00	0.00	0.00
4,300.00	30.28	324.97	3,888.65	1,354.61	-949.56	-1,357.42	0.00	0.00	0.00
4,400.00	30.28	324.97	3,975.01	1,395.90	-978.51	-1,398.79	0.00	0.00	0.00
4,500.00	30.28	324.97	4,061.37	1,437.19	-1,007.45	-1,440.17	0.00	0.00	0.00
4,600.00	30.28	324.97	4,147.72	1,478.47	-1,036.39	-1,481.54	0.00	0.00	0.00

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Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5042.00usft (RIG)
Site:	2N-64W-28 GEORGENE PAD	North Reference:	True
Well:	GEORGENE 2833-04H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	Design #3		

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	30.28	324.97	4,234.08	1,519.76	-1,065.34	-1,522.92	0.00	0.00	0.00
4,800.00	30.28	324.97	4,320.44	1,561.05	-1,094.28	-1,564.29	0.00	0.00	0.00
4,900.00	30.28	324.97	4,406.80	1,602.34	-1,123.22	-1,605.67	0.00	0.00	0.00
5,000.00	30.28	324.97	4,493.15	1,643.63	-1,152.16	-1,647.04	0.00	0.00	0.00
5,100.00	30.28	324.97	4,579.51	1,684.92	-1,181.11	-1,688.41	0.00	0.00	0.00
5,200.00	30.28	324.97	4,665.87	1,726.21	-1,210.05	-1,729.79	0.00	0.00	0.00
5,300.00	30.28	324.97	4,752.22	1,767.49	-1,238.99	-1,771.16	0.00	0.00	0.00
5,400.00	30.28	324.97	4,838.58	1,808.78	-1,267.94	-1,812.54	0.00	0.00	0.00
5,500.00	30.28	324.97	4,924.94	1,850.07	-1,296.88	-1,853.91	0.00	0.00	0.00
5,600.00	30.28	324.97	5,011.30	1,891.36	-1,325.82	-1,895.29	0.00	0.00	0.00
5,700.00	30.28	324.97	5,097.65	1,932.65	-1,354.76	-1,936.66	0.00	0.00	0.00
5,800.00	30.28	324.97	5,184.01	1,973.94	-1,383.71	-1,978.03	0.00	0.00	0.00
5,900.00	30.28	324.97	5,270.37	2,015.23	-1,412.65	-2,019.41	0.00	0.00	0.00
6,000.00	30.28	324.97	5,356.72	2,056.52	-1,441.59	-2,060.78	0.00	0.00	0.00
6,100.00	30.28	324.97	5,443.08	2,097.80	-1,470.54	-2,102.16	0.00	0.00	0.00
6,200.00	30.28	324.97	5,529.44	2,139.09	-1,499.48	-2,143.53	0.00	0.00	0.00
6,300.00	30.28	324.97	5,615.80	2,180.38	-1,528.42	-2,184.91	0.00	0.00	0.00
6,400.00	30.28	324.97	5,702.15	2,221.67	-1,557.36	-2,226.28	0.00	0.00	0.00
6,500.00	30.28	324.97	5,788.51	2,262.96	-1,586.31	-2,267.66	0.00	0.00	0.00
6,600.00	30.28	324.97	5,874.87	2,304.25	-1,615.25	-2,309.03	0.00	0.00	0.00
6,700.00	30.28	324.97	5,961.23	2,345.54	-1,644.19	-2,350.40	0.00	0.00	0.00
6,800.00	30.28	324.97	6,047.58	2,386.82	-1,673.14	-2,391.78	0.00	0.00	0.00
6,900.00	30.28	324.97	6,133.94	2,428.11	-1,702.08	-2,433.15	0.00	0.00	0.00
7,000.00	30.28	324.97	6,220.30	2,469.40	-1,731.02	-2,474.53	0.00	0.00	0.00
7,082.62	30.28	324.97	6,291.64	2,503.51	-1,754.93	-2,508.71	0.00	0.00	0.00
KOP @ 7082.62ft :: DLS = 10°/100'									
7,100.00	28.95	322.72	6,306.75	2,510.45	-1,760.00	-2,515.66	10.00	-7.68	-12.97
7,150.00	25.36	315.07	6,351.25	2,527.67	-1,774.90	-2,532.92	10.00	-7.18	-15.30
7,200.00	22.28	305.28	6,397.01	2,540.73	-1,790.21	-2,546.03	10.00	-6.16	-19.57
7,250.00	19.95	292.96	6,443.67	2,549.54	-1,805.81	-2,554.88	10.00	-4.66	-24.64
7,300.00	18.65	278.31	6,490.89	2,554.02	-1,821.58	-2,559.41	10.00	-2.60	-29.31
7,350.00	18.59	262.61	6,538.30	2,554.15	-1,837.40	-2,559.59	10.00	-0.10	-31.41
7,400.00	19.80	247.81	6,585.55	2,549.92	-1,853.16	-2,555.41	10.00	2.41	-29.60
7,450.00	22.06	235.28	6,632.27	2,541.37	-1,868.73	-2,546.90	10.00	4.52	-25.05
7,500.00	25.09	225.30	6,678.11	2,528.56	-1,883.99	-2,534.14	10.00	6.06	-19.96
7,550.00	28.64	217.50	6,722.72	2,511.58	-1,898.83	-2,517.21	10.00	7.11	-15.61
7,600.00	32.55	211.36	6,765.76	2,490.58	-1,913.13	-2,496.24	10.00	7.82	-12.28
7,650.00	36.70	206.43	6,806.91	2,465.70	-1,926.79	-2,471.40	10.00	8.30	-9.85
7,700.00	41.01	202.40	6,845.84	2,437.13	-1,939.70	-2,442.88	10.00	8.63	-8.07
7,750.00	45.44	199.02	6,882.27	2,405.11	-1,951.76	-2,410.89	10.00	8.86	-6.77
7,800.00	49.96	196.12	6,915.91	2,369.85	-1,962.88	-2,375.67	10.00	9.04	-5.80
7,850.00	54.54	193.58	6,946.52	2,331.65	-1,972.98	-2,337.49	10.00	9.16	-5.07
7,900.00	59.17	191.32	6,973.85	2,290.78	-1,981.99	-2,296.65	10.00	9.26	-4.52
7,950.00	63.83	189.27	6,997.70	2,247.55	-1,989.82	-2,253.45	10.00	9.33	-4.10
8,000.00	68.53	187.38	7,017.89	2,202.31	-1,996.42	-2,208.22	10.00	9.38	-3.79
8,050.00	73.24	185.60	7,034.26	2,155.38	-2,001.75	-2,161.31	10.00	9.42	-3.55
8,100.00	77.96	183.91	7,046.70	2,107.14	-2,005.76	-2,113.08	10.00	9.45	-3.38
8,150.00	82.70	182.28	7,055.09	2,057.93	-2,008.41	-2,063.88	10.00	9.47	-3.26
8,200.00	87.44	180.69	7,059.39	2,008.15	-2,009.70	-2,014.11	10.00	9.48	-3.19
8,227.02	90.00	179.83	7,060.00	1,981.14	-2,009.82	-1,987.10	10.00	9.49	-3.17
End Build/TPZ @ 8227.02ft									
8,300.00	90.00	179.83	7,060.00	1,908.16	-2,009.61	-1,914.12	0.00	0.00	0.00
8,400.00	90.00	179.83	7,060.00	1,808.16	-2,009.31	-1,814.12	0.00	0.00	0.00
8,500.00	90.00	179.83	7,060.00	1,708.16	-2,009.02	-1,714.12	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well GEORGENE 2833-04H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 5042.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5042.00usft (RIG)
Site:	2N-64W-28 GEORGENE PAD	North Reference:	True
Well:	GEORGENE 2833-04H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	Design #3		

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	179.83	7,060.00	1,608.16	-2,008.72	-1,614.12	0.00	0.00	0.00	
8,700.00	90.00	179.83	7,060.00	1,508.16	-2,008.43	-1,514.12	0.00	0.00	0.00	
8,800.00	90.00	179.83	7,060.00	1,408.16	-2,008.13	-1,414.12	0.00	0.00	0.00	
8,900.00	90.00	179.83	7,060.00	1,308.16	-2,007.83	-1,314.12	0.00	0.00	0.00	
9,000.00	90.00	179.83	7,060.00	1,208.16	-2,007.54	-1,214.12	0.00	0.00	0.00	
9,100.00	90.00	179.83	7,060.00	1,108.16	-2,007.24	-1,114.12	0.00	0.00	0.00	
9,200.00	90.00	179.83	7,060.00	1,008.17	-2,006.95	-1,014.12	0.00	0.00	0.00	
9,300.00	90.00	179.83	7,060.00	908.17	-2,006.65	-914.12	0.00	0.00	0.00	
9,400.00	90.00	179.83	7,060.00	808.17	-2,006.36	-814.12	0.00	0.00	0.00	
9,500.00	90.00	179.83	7,060.00	708.17	-2,006.06	-714.12	0.00	0.00	0.00	
9,600.00	90.00	179.83	7,060.00	608.17	-2,005.77	-614.12	0.00	0.00	0.00	
9,700.00	90.00	179.83	7,060.00	508.17	-2,005.47	-514.12	0.00	0.00	0.00	
9,800.00	90.00	179.83	7,060.00	408.17	-2,005.18	-414.12	0.00	0.00	0.00	
9,900.00	90.00	179.83	7,060.00	308.17	-2,004.88	-314.12	0.00	0.00	0.00	
10,000.00	90.00	179.83	7,060.00	208.17	-2,004.59	-214.12	0.00	0.00	0.00	
10,100.00	90.00	179.83	7,060.00	108.17	-2,004.29	-114.12	0.00	0.00	0.00	
10,200.00	90.00	179.83	7,060.00	8.17	-2,004.00	-14.12	0.00	0.00	0.00	
10,300.00	90.00	179.83	7,060.00	-91.83	-2,003.70	85.88	0.00	0.00	0.00	
10,400.00	90.00	179.83	7,060.00	-191.83	-2,003.41	185.88	0.00	0.00	0.00	
10,500.00	90.00	179.83	7,060.00	-291.83	-2,003.11	285.88	0.00	0.00	0.00	
10,600.00	90.00	179.83	7,060.00	-391.83	-2,002.82	385.88	0.00	0.00	0.00	
10,700.00	90.00	179.83	7,060.00	-491.83	-2,002.52	485.88	0.00	0.00	0.00	
10,800.00	90.00	179.83	7,060.00	-591.83	-2,002.22	585.88	0.00	0.00	0.00	
10,900.00	90.00	179.83	7,060.00	-691.83	-2,001.93	685.88	0.00	0.00	0.00	
11,000.00	90.00	179.83	7,060.00	-791.83	-2,001.63	785.88	0.00	0.00	0.00	
11,100.00	90.00	179.83	7,060.00	-891.83	-2,001.34	885.88	0.00	0.00	0.00	
11,200.00	90.00	179.83	7,060.00	-991.83	-2,001.04	985.88	0.00	0.00	0.00	
11,300.00	90.00	179.83	7,060.00	-1,091.83	-2,000.75	1,085.88	0.00	0.00	0.00	
11,400.00	90.00	179.83	7,060.00	-1,191.83	-2,000.45	1,185.88	0.00	0.00	0.00	
11,500.00	90.00	179.83	7,060.00	-1,291.82	-2,000.16	1,285.88	0.00	0.00	0.00	
11,600.00	90.00	179.83	7,060.00	-1,391.82	-1,999.86	1,385.88	0.00	0.00	0.00	
11,700.00	90.00	179.83	7,060.00	-1,491.82	-1,999.57	1,485.88	0.00	0.00	0.00	
11,800.00	90.00	179.83	7,060.00	-1,591.82	-1,999.27	1,585.88	0.00	0.00	0.00	
11,900.00	90.00	179.83	7,060.00	-1,691.82	-1,998.98	1,685.88	0.00	0.00	0.00	
12,000.00	90.00	179.83	7,060.00	-1,791.82	-1,998.68	1,785.88	0.00	0.00	0.00	
12,100.00	90.00	179.83	7,060.00	-1,891.82	-1,998.39	1,885.88	0.00	0.00	0.00	
12,200.00	90.00	179.83	7,060.00	-1,991.82	-1,998.09	1,985.88	0.00	0.00	0.00	
12,300.00	90.00	179.83	7,060.00	-2,091.82	-1,997.80	2,085.88	0.00	0.00	0.00	
12,400.00	90.00	179.83	7,060.00	-2,191.82	-1,997.50	2,185.88	0.00	0.00	0.00	
12,500.00	90.00	179.83	7,060.00	-2,291.82	-1,997.21	2,285.88	0.00	0.00	0.00	
12,600.00	90.00	179.83	7,060.00	-2,391.82	-1,996.91	2,385.88	0.00	0.00	0.00	
12,700.00	90.00	179.83	7,060.00	-2,491.82	-1,996.61	2,485.88	0.00	0.00	0.00	
12,800.00	90.00	179.83	7,060.00	-2,591.82	-1,996.32	2,585.88	0.00	0.00	0.00	
12,900.00	90.00	179.83	7,060.00	-2,691.82	-1,996.02	2,685.88	0.00	0.00	0.00	
13,000.00	90.00	179.83	7,060.00	-2,791.82	-1,995.73	2,785.88	0.00	0.00	0.00	
13,100.00	90.00	179.83	7,060.00	-2,891.82	-1,995.43	2,885.88	0.00	0.00	0.00	
13,200.00	90.00	179.83	7,060.00	-2,991.82	-1,995.14	2,985.88	0.00	0.00	0.00	
13,300.00	90.00	179.83	7,060.00	-3,091.82	-1,994.84	3,085.88	0.00	0.00	0.00	
13,400.00	90.00	179.83	7,060.00	-3,191.82	-1,994.55	3,185.88	0.00	0.00	0.00	
13,500.00	90.00	179.83	7,060.00	-3,291.82	-1,994.25	3,285.88	0.00	0.00	0.00	
13,600.00	90.00	179.83	7,060.00	-3,391.82	-1,993.96	3,385.88	0.00	0.00	0.00	
13,700.00	90.00	179.83	7,060.00	-3,491.82	-1,993.66	3,485.88	0.00	0.00	0.00	
13,800.00	90.00	179.83	7,060.00	-3,591.81	-1,993.37	3,585.88	0.00	0.00	0.00	
13,900.00	90.00	179.83	7,060.00	-3,691.81	-1,993.07	3,685.88	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well GEORGENE 2833-04H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 5042.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5042.00usft (RIG)
Site:	2N-64W-28 GEORGENE PAD	North Reference:	True
Well:	GEORGENE 2833-04H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	Design #3		

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)
14,000.00	90.00	179.83	7,060.00	-3,791.81	-1,992.78	3,785.88	0.00	0.00	0.00
14,100.00	90.00	179.83	7,060.00	-3,891.81	-1,992.48	3,885.88	0.00	0.00	0.00
14,200.00	90.00	179.83	7,060.00	-3,991.81	-1,992.19	3,985.88	0.00	0.00	0.00
14,300.00	90.00	179.83	7,060.00	-4,091.81	-1,991.89	4,085.88	0.00	0.00	0.00
14,400.00	90.00	179.83	7,060.00	-4,191.81	-1,991.60	4,185.88	0.00	0.00	0.00
14,500.00	90.00	179.83	7,060.00	-4,291.81	-1,991.30	4,285.88	0.00	0.00	0.00
14,600.00	90.00	179.83	7,060.00	-4,391.81	-1,991.00	4,385.88	0.00	0.00	0.00
14,700.00	90.00	179.83	7,060.00	-4,491.81	-1,990.71	4,485.88	0.00	0.00	0.00
14,800.00	90.00	179.83	7,060.00	-4,591.81	-1,990.41	4,585.88	0.00	0.00	0.00
14,900.00	90.00	179.83	7,060.00	-4,691.81	-1,990.12	4,685.88	0.00	0.00	0.00
15,000.00	90.00	179.83	7,060.00	-4,791.81	-1,989.82	4,785.88	0.00	0.00	0.00
15,100.00	90.00	179.83	7,060.00	-4,891.81	-1,989.53	4,885.88	0.00	0.00	0.00
15,200.00	90.00	179.83	7,060.00	-4,991.81	-1,989.23	4,985.88	0.00	0.00	0.00
15,236.26	90.00	179.83	7,060.00	-5,028.07	-1,989.13	5,022.14	0.00	0.00	0.00
BPZ @ 15236.26ft									
15,300.00	90.00	179.83	7,060.00	-5,091.81	-1,988.94	5,085.88	0.00	0.00	0.00
15,326.27	90.00	179.83	7,060.00	-5,118.08	-1,988.86	5,112.16	0.00	0.00	0.00
TD Well @ 15326.27ft									

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
2,548.38	2,376.00	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)	
280.30	280.30	0.00	0.00	Begin Nudge @ 280.30ft
1,794.30	1,724.80	320.04	-224.34	Hold Tangent @ 1794.30ft
7,082.62	6,291.64	2,503.51	-1,754.93	KOP @ 7082.62ft :: DLS = 10°/100'
8,227.02	7,060.00	1,981.14	-2,009.82	End Build/TPZ @ 8227.02ft
15,236.26	7,060.00	-5,028.07	-1,989.13	BPZ @ 15236.26ft
15,326.27	7,060.00	-5,118.08	-1,988.86	TD Well @ 15326.27ft