

VERDAD RESOURCES

**WATTENBERG FIELD
2N-64W-28 GEORGENE PAD
GEORGENE 2833-08H**

Plan B

Plan: Design #3

Standard Planning Report

28 October, 2022

Project: WATTENBERG FIELD
Site: 2N-64W-28 GEORGENE PAD
Well: GEORGENE 2833-08H
Wellbore: Plan B
Design: Design #3

VERDAD RESOURCES

CASING DETAILS

TVD	MD	Name	Size
2376.00	2519.10	9 5/8"	9-5/8

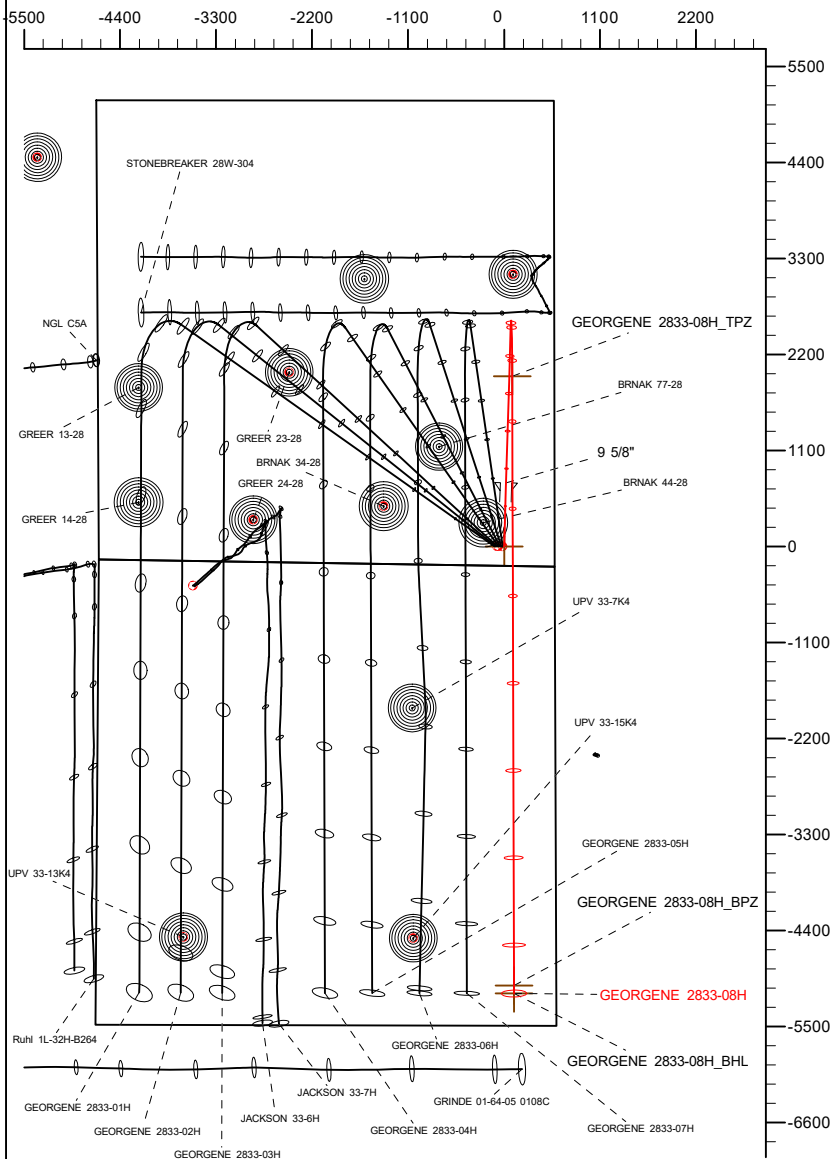
SHL
222' FSL
579 FEL

LP/TPZ
2173' FSL
483' FEL

BPZ
460' FSL
483' FEL

BHL
370' FSL
483' FEL

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

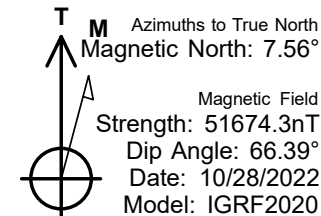
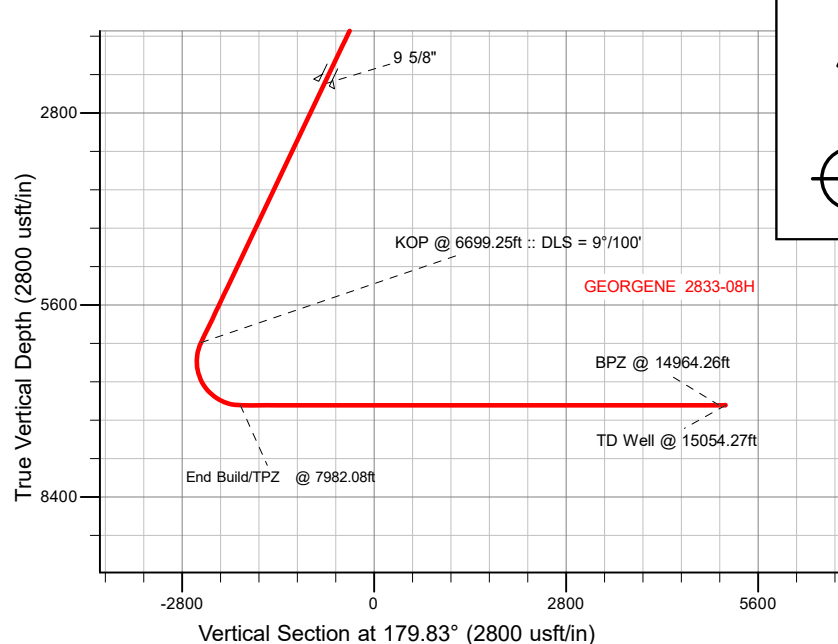


SECTION DETAILS

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	
200.50	0.00	0.00	200.50	0.00	0.00	0.00	0.00	0.00	
1474.00	25.47	1.74	1432.47	278.30	8.45	2.00	1.74	-278.27	
6699.25	25.47	1.74	6149.88	2524.32	76.68	0.00	0.00	-2524.08	
7982.08	90.00	179.83	7060.00	1949.55	92.85	9.00	177.88	-1949.26	
15054.27	90.00	179.83	7060.00	-5122.61	113.93	0.00	0.00	5122.93	GEORGENE 2833-08H_BHL

DESIGN TARGET DETAILS

Name	TVD	Northing	Easting	Latitude	Longitude
GEORGENE 2833-08H_SHL	0.00	1281682.28	3266065.24	40.102693	-104.548837
GEORGENE 2833-08H_TPZ	7060.00	1283632.73	3266137.14	40.108045	-104.548506
GEORGENE 2833-08H_BPZ	7060.00	1276651.19	3266232.87	40.088877	-104.548431
GEORGENE 2833-08H_BHL	7060.00	1276561.19	3266234.11	40.088630	-104.548430



WELL DETAILS: GEORGENE 2833-08H

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

Plan: Design #3 (GEORGENE 2833-08H/Plan B)

Date: 10/28/2022

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well GEORGENE 2833-08H
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 2833-08H	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 2833-08H			
Well Position	+N/-S	0.00 usft	Northing:	1,281,682.28 usft
	+E/-W	0.00 usft	Easting:	3,266,065.24 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	51,674.30249498

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	15,054.27	Design #3 (Plan B)	ISCWSA MWD	Fixed:v2:standard declination

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well GEORGENE 2833-08H
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 2833-08H	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	
200.50	0.00	0.00	200.50	0.00	0.00	0.00	0.00	0.00	0.00	
1,474.00	25.47	1.74	1,432.47	278.30	8.45	2.00	2.00	0.00	1.74	
6,699.25	25.47	1.74	6,149.88	2,524.32	76.68	0.00	0.00	0.00	0.00	
7,982.08	90.00	179.83	7,060.00	1,949.55	92.85	9.00	5.03	13.88	177.88	
15,054.27	90.00	179.83	7,060.00	-5,122.61	113.93	0.00	0.00	0.00	0.00	GEORGENE 2833-08

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well GEORGENE 2833-08H
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 2833-08H	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
200.50	0.00	0.00	200.50	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 200.50ft									
300.00	1.99	1.74	299.98	1.73	0.05	-1.73	2.00	2.00	0.00
400.00	3.99	1.74	399.84	6.94	0.21	-6.94	2.00	2.00	0.00
500.00	5.99	1.74	499.45	15.63	0.47	-15.63	2.00	2.00	0.00
600.00	7.99	1.74	598.71	27.80	0.84	-27.79	2.00	2.00	0.00
700.00	9.99	1.74	697.47	43.42	1.32	-43.41	2.00	2.00	0.00
800.00	11.99	1.74	795.63	62.47	1.90	-62.46	2.00	2.00	0.00
900.00	13.99	1.74	893.07	84.94	2.58	-84.93	2.00	2.00	0.00
1,000.00	15.99	1.74	989.66	110.79	3.37	-110.78	2.00	2.00	0.00
1,100.00	17.99	1.74	1,085.29	139.99	4.25	-139.98	2.00	2.00	0.00
1,200.00	19.99	1.74	1,179.85	172.52	5.24	-172.50	2.00	2.00	0.00
1,300.00	21.99	1.74	1,273.21	208.32	6.33	-208.30	2.00	2.00	0.00
1,400.00	23.99	1.74	1,365.26	247.36	7.51	-247.33	2.00	2.00	0.00
1,474.00	25.47	1.74	1,432.47	278.30	8.45	-278.27	2.00	2.00	0.00
Hold Tangent @ 1474.00ft									
1,500.00	25.47	1.74	1,455.94	289.47	8.79	-289.45	0.00	0.00	0.00
1,600.00	25.47	1.74	1,546.22	332.46	10.10	-332.43	0.00	0.00	0.00
1,700.00	25.47	1.74	1,636.50	375.44	11.41	-375.41	0.00	0.00	0.00
1,800.00	25.47	1.74	1,726.79	418.43	12.71	-418.39	0.00	0.00	0.00
1,900.00	25.47	1.74	1,817.07	461.41	14.02	-461.37	0.00	0.00	0.00
2,000.00	25.47	1.74	1,907.35	504.39	15.32	-504.35	0.00	0.00	0.00
2,100.00	25.47	1.74	1,997.63	547.38	16.63	-547.33	0.00	0.00	0.00
2,200.00	25.47	1.74	2,087.91	590.36	17.93	-590.31	0.00	0.00	0.00
2,300.00	25.47	1.74	2,178.19	633.35	19.24	-633.29	0.00	0.00	0.00
2,400.00	25.47	1.74	2,268.47	676.33	20.55	-676.27	0.00	0.00	0.00
2,500.00	25.47	1.74	2,358.75	719.31	21.85	-719.25	0.00	0.00	0.00
2,519.10	25.47	1.74	2,376.00	727.53	22.10	-727.46	0.00	0.00	0.00
9 5/8"									
2,600.00	25.47	1.74	2,449.03	762.30	23.16	-762.23	0.00	0.00	0.00
2,700.00	25.47	1.74	2,539.32	805.28	24.46	-805.21	0.00	0.00	0.00
2,800.00	25.47	1.74	2,629.60	848.27	25.77	-848.19	0.00	0.00	0.00
2,900.00	25.47	1.74	2,719.88	891.25	27.07	-891.17	0.00	0.00	0.00
3,000.00	25.47	1.74	2,810.16	934.23	28.38	-934.15	0.00	0.00	0.00
3,100.00	25.47	1.74	2,900.44	977.22	29.69	-977.13	0.00	0.00	0.00
3,200.00	25.47	1.74	2,990.72	1,020.20	30.99	-1,020.11	0.00	0.00	0.00
3,300.00	25.47	1.74	3,081.00	1,063.19	32.30	-1,063.09	0.00	0.00	0.00
3,400.00	25.47	1.74	3,171.28	1,106.17	33.60	-1,106.07	0.00	0.00	0.00
3,500.00	25.47	1.74	3,261.56	1,149.15	34.91	-1,149.05	0.00	0.00	0.00
3,600.00	25.47	1.74	3,351.84	1,192.14	36.21	-1,192.03	0.00	0.00	0.00
3,700.00	25.47	1.74	3,442.13	1,235.12	37.52	-1,235.01	0.00	0.00	0.00
3,800.00	25.47	1.74	3,532.41	1,278.11	38.83	-1,277.99	0.00	0.00	0.00
3,900.00	25.47	1.74	3,622.69	1,321.09	40.13	-1,320.97	0.00	0.00	0.00
4,000.00	25.47	1.74	3,712.97	1,364.08	41.44	-1,363.95	0.00	0.00	0.00
4,100.00	25.47	1.74	3,803.25	1,407.06	42.74	-1,406.93	0.00	0.00	0.00
4,200.00	25.47	1.74	3,893.53	1,450.04	44.05	-1,449.91	0.00	0.00	0.00
4,300.00	25.47	1.74	3,983.81	1,493.03	45.36	-1,492.89	0.00	0.00	0.00
4,400.00	25.47	1.74	4,074.09	1,536.01	46.66	-1,535.87	0.00	0.00	0.00
4,500.00	25.47	1.74	4,164.37	1,579.00	47.97	-1,578.85	0.00	0.00	0.00
4,600.00	25.47	1.74	4,254.66	1,621.98	49.27	-1,621.83	0.00	0.00	0.00
4,700.00	25.47	1.74	4,344.94	1,664.96	50.58	-1,664.81	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well GEORGENE 2833-08H
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 2833-08H	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)
4,800.00	25.47	1.74	4,435.22	1,707.95	51.88	-1,707.79	0.00	0.00	0.00
4,900.00	25.47	1.74	4,525.50	1,750.93	53.19	-1,750.77	0.00	0.00	0.00
5,000.00	25.47	1.74	4,615.78	1,793.92	54.50	-1,793.75	0.00	0.00	0.00
5,100.00	25.47	1.74	4,706.06	1,836.90	55.80	-1,836.73	0.00	0.00	0.00
5,200.00	25.47	1.74	4,796.34	1,879.88	57.11	-1,879.71	0.00	0.00	0.00
5,300.00	25.47	1.74	4,886.62	1,922.87	58.41	-1,922.69	0.00	0.00	0.00
5,400.00	25.47	1.74	4,976.90	1,965.85	59.72	-1,965.67	0.00	0.00	0.00
5,500.00	25.47	1.74	5,067.18	2,008.84	61.02	-2,008.65	0.00	0.00	0.00
5,600.00	25.47	1.74	5,157.47	2,051.82	62.33	-2,051.63	0.00	0.00	0.00
5,700.00	25.47	1.74	5,247.75	2,094.80	63.64	-2,094.61	0.00	0.00	0.00
5,800.00	25.47	1.74	5,338.03	2,137.79	64.94	-2,137.59	0.00	0.00	0.00
5,900.00	25.47	1.74	5,428.31	2,180.77	66.25	-2,180.57	0.00	0.00	0.00
6,000.00	25.47	1.74	5,518.59	2,223.76	67.55	-2,223.55	0.00	0.00	0.00
6,100.00	25.47	1.74	5,608.87	2,266.74	68.86	-2,266.53	0.00	0.00	0.00
6,200.00	25.47	1.74	5,699.15	2,309.72	70.16	-2,309.51	0.00	0.00	0.00
6,300.00	25.47	1.74	5,789.43	2,352.71	71.47	-2,352.49	0.00	0.00	0.00
6,400.00	25.47	1.74	5,879.71	2,395.69	72.78	-2,395.46	0.00	0.00	0.00
6,500.00	25.47	1.74	5,970.00	2,438.68	74.08	-2,438.44	0.00	0.00	0.00
6,600.00	25.47	1.74	6,060.28	2,481.66	75.39	-2,481.42	0.00	0.00	0.00
6,699.25	25.47	1.74	6,149.88	2,524.32	76.68	-2,524.08	0.00	0.00	0.00
KOP @ 6699.25ft :: DLS = 9°/100'									
6,750.00	20.91	2.21	6,196.52	2,544.29	77.37	-2,544.05	9.00	-8.99	0.93
6,800.00	16.41	2.92	6,243.88	2,560.26	78.07	-2,560.02	9.00	-8.99	1.42
6,850.00	11.92	4.14	6,292.35	2,572.48	78.80	-2,572.23	9.00	-8.98	2.45
6,900.00	7.44	6.81	6,341.62	2,580.85	79.56	-2,580.60	9.00	-8.96	5.34
6,950.00	3.03	17.31	6,391.40	2,585.32	80.34	-2,585.07	9.00	-8.83	20.99
7,000.00	1.85	150.40	6,441.38	2,585.88	81.13	-2,585.63	9.00	-2.35	266.19
7,050.00	6.18	171.39	6,491.25	2,582.52	81.93	-2,582.26	9.00	8.66	41.98
7,100.00	10.65	174.98	6,540.70	2,575.25	82.74	-2,574.99	9.00	8.94	7.18
7,150.00	15.14	176.46	6,589.42	2,564.12	83.55	-2,563.87	9.00	8.98	2.96
7,200.00	19.63	177.28	6,637.13	2,549.21	84.35	-2,548.95	9.00	8.99	1.63
7,250.00	24.13	177.80	6,683.51	2,530.60	85.14	-2,530.33	9.00	8.99	1.04
7,300.00	28.63	178.16	6,728.29	2,508.40	85.92	-2,508.14	9.00	8.99	0.73
7,350.00	33.12	178.43	6,771.20	2,482.76	86.68	-2,482.49	9.00	9.00	0.55
7,400.00	37.62	178.65	6,811.96	2,453.83	87.41	-2,453.56	9.00	9.00	0.43
7,450.00	42.12	178.82	6,850.32	2,421.80	88.11	-2,421.53	9.00	9.00	0.35
7,500.00	46.62	178.97	6,886.05	2,386.85	88.79	-2,386.57	9.00	9.00	0.29
7,550.00	51.12	179.10	6,918.94	2,349.20	89.42	-2,348.93	9.00	9.00	0.25
7,600.00	55.62	179.21	6,948.76	2,309.09	90.01	-2,308.82	9.00	9.00	0.22
7,650.00	60.12	179.31	6,975.35	2,266.77	90.56	-2,266.49	9.00	9.00	0.20
7,700.00	64.62	179.40	6,998.53	2,222.48	91.06	-2,222.20	9.00	9.00	0.18
7,750.00	69.12	179.48	7,018.17	2,176.52	91.51	-2,176.24	9.00	9.00	0.17
7,800.00	73.61	179.56	7,034.15	2,129.15	91.91	-2,128.87	9.00	9.00	0.16
7,850.00	78.11	179.64	7,046.35	2,080.68	92.24	-2,080.40	9.00	9.00	0.15
7,900.00	82.61	179.71	7,054.72	2,031.40	92.52	-2,031.12	9.00	9.00	0.15
7,950.00	87.11	179.78	7,059.20	1,981.61	92.74	-1,981.33	9.00	9.00	0.14
7,982.08	90.00	179.83	7,060.00	1,949.55	92.85	-1,949.26	9.00	9.00	0.14
End Build/TPZ @ 7982.08ft									
8,000.00	90.00	179.83	7,060.00	1,931.63	92.91	-1,931.34	0.00	0.00	0.00
8,100.00	90.00	179.83	7,060.00	1,831.63	93.20	-1,831.34	0.00	0.00	0.00
8,200.00	90.00	179.83	7,060.00	1,731.63	93.50	-1,731.34	0.00	0.00	0.00
8,300.00	90.00	179.83	7,060.00	1,631.63	93.80	-1,631.34	0.00	0.00	0.00
8,400.00	90.00	179.83	7,060.00	1,531.63	94.10	-1,531.34	0.00	0.00	0.00
8,500.00	90.00	179.83	7,060.00	1,431.63	94.40	-1,431.34	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well GEORGENE 2833-08H
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 2833-08H	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	1,331.63	94.69	-1,331.34	0.00	0.00	0.00	
8,700.00	90.00	179.83	7,060.00	1,231.63	94.99	-1,231.34	0.00	0.00	0.00	
8,800.00	90.00	179.83	7,060.00	1,131.63	95.29	-1,131.34	0.00	0.00	0.00	
8,900.00	90.00	179.83	7,060.00	1,031.63	95.59	-1,031.34	0.00	0.00	0.00	
9,000.00	90.00	179.83	7,060.00	931.63	95.89	-931.34	0.00	0.00	0.00	
9,100.00	90.00	179.83	7,060.00	831.63	96.18	-831.34	0.00	0.00	0.00	
9,200.00	90.00	179.83	7,060.00	731.63	96.48	-731.34	0.00	0.00	0.00	
9,300.00	90.00	179.83	7,060.00	631.63	96.78	-631.34	0.00	0.00	0.00	
9,400.00	90.00	179.83	7,060.00	531.63	97.08	-531.34	0.00	0.00	0.00	
9,500.00	90.00	179.83	7,060.00	431.64	97.38	-431.34	0.00	0.00	0.00	
9,600.00	90.00	179.83	7,060.00	331.64	97.67	-331.34	0.00	0.00	0.00	
9,700.00	90.00	179.83	7,060.00	231.64	97.97	-231.34	0.00	0.00	0.00	
9,800.00	90.00	179.83	7,060.00	131.64	98.27	-131.34	0.00	0.00	0.00	
9,900.00	90.00	179.83	7,060.00	31.64	98.57	-31.34	0.00	0.00	0.00	
10,000.00	90.00	179.83	7,060.00	-68.36	98.87	68.66	0.00	0.00	0.00	
10,100.00	90.00	179.83	7,060.00	-168.36	99.16	168.66	0.00	0.00	0.00	
10,200.00	90.00	179.83	7,060.00	-268.36	99.46	268.66	0.00	0.00	0.00	
10,300.00	90.00	179.83	7,060.00	-368.36	99.76	368.66	0.00	0.00	0.00	
10,400.00	90.00	179.83	7,060.00	-468.36	100.06	468.66	0.00	0.00	0.00	
10,500.00	90.00	179.83	7,060.00	-568.36	100.36	568.66	0.00	0.00	0.00	
10,600.00	90.00	179.83	7,060.00	-668.36	100.65	668.66	0.00	0.00	0.00	
10,700.00	90.00	179.83	7,060.00	-768.36	100.95	768.66	0.00	0.00	0.00	
10,800.00	90.00	179.83	7,060.00	-868.36	101.25	868.66	0.00	0.00	0.00	
10,900.00	90.00	179.83	7,060.00	-968.36	101.55	968.66	0.00	0.00	0.00	
11,000.00	90.00	179.83	7,060.00	-1,068.36	101.85	1,068.66	0.00	0.00	0.00	
11,100.00	90.00	179.83	7,060.00	-1,168.36	102.14	1,168.66	0.00	0.00	0.00	
11,200.00	90.00	179.83	7,060.00	-1,268.36	102.44	1,268.66	0.00	0.00	0.00	
11,300.00	90.00	179.83	7,060.00	-1,368.36	102.74	1,368.66	0.00	0.00	0.00	
11,400.00	90.00	179.83	7,060.00	-1,468.36	103.04	1,468.66	0.00	0.00	0.00	
11,500.00	90.00	179.83	7,060.00	-1,568.36	103.34	1,568.66	0.00	0.00	0.00	
11,600.00	90.00	179.83	7,060.00	-1,668.36	103.63	1,668.66	0.00	0.00	0.00	
11,700.00	90.00	179.83	7,060.00	-1,768.35	103.93	1,768.66	0.00	0.00	0.00	
11,800.00	90.00	179.83	7,060.00	-1,868.35	104.23	1,868.66	0.00	0.00	0.00	
11,900.00	90.00	179.83	7,060.00	-1,968.35	104.53	1,968.66	0.00	0.00	0.00	
12,000.00	90.00	179.83	7,060.00	-2,068.35	104.83	2,068.66	0.00	0.00	0.00	
12,100.00	90.00	179.83	7,060.00	-2,168.35	105.13	2,168.66	0.00	0.00	0.00	
12,200.00	90.00	179.83	7,060.00	-2,268.35	105.42	2,268.66	0.00	0.00	0.00	
12,300.00	90.00	179.83	7,060.00	-2,368.35	105.72	2,368.66	0.00	0.00	0.00	
12,400.00	90.00	179.83	7,060.00	-2,468.35	106.02	2,468.66	0.00	0.00	0.00	
12,500.00	90.00	179.83	7,060.00	-2,568.35	106.32	2,568.66	0.00	0.00	0.00	
12,600.00	90.00	179.83	7,060.00	-2,668.35	106.62	2,668.66	0.00	0.00	0.00	
12,700.00	90.00	179.83	7,060.00	-2,768.35	106.91	2,768.66	0.00	0.00	0.00	
12,800.00	90.00	179.83	7,060.00	-2,868.35	107.21	2,868.66	0.00	0.00	0.00	
12,900.00	90.00	179.83	7,060.00	-2,968.35	107.51	2,968.66	0.00	0.00	0.00	
13,000.00	90.00	179.83	7,060.00	-3,068.35	107.81	3,068.66	0.00	0.00	0.00	
13,100.00	90.00	179.83	7,060.00	-3,168.35	108.11	3,168.66	0.00	0.00	0.00	
13,200.00	90.00	179.83	7,060.00	-3,268.35	108.40	3,268.66	0.00	0.00	0.00	
13,300.00	90.00	179.83	7,060.00	-3,368.35	108.70	3,368.66	0.00	0.00	0.00	
13,400.00	90.00	179.83	7,060.00	-3,468.35	109.00	3,468.66	0.00	0.00	0.00	
13,500.00	90.00	179.83	7,060.00	-3,568.35	109.30	3,568.66	0.00	0.00	0.00	
13,600.00	90.00	179.83	7,060.00	-3,668.35	109.60	3,668.66	0.00	0.00	0.00	
13,700.00	90.00	179.83	7,060.00	-3,768.35	109.89	3,768.66	0.00	0.00	0.00	
13,800.00	90.00	179.83	7,060.00	-3,868.35	110.19	3,868.66	0.00	0.00	0.00	
13,900.00	90.00	179.83	7,060.00	-3,968.35	110.49	3,968.66	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well GEORGENE 2833-08H
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 2833-08H	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	-4,068.34	110.79	4,068.66	0.00	0.00	0.00	
14,100.00	90.00	179.83	7,060.00	-4,168.34	111.09	4,168.66	0.00	0.00	0.00	
14,200.00	90.00	179.83	7,060.00	-4,268.34	111.38	4,268.66	0.00	0.00	0.00	
14,300.00	90.00	179.83	7,060.00	-4,368.34	111.68	4,368.66	0.00	0.00	0.00	
14,400.00	90.00	179.83	7,060.00	-4,468.34	111.98	4,468.66	0.00	0.00	0.00	
14,500.00	90.00	179.83	7,060.00	-4,568.34	112.28	4,568.66	0.00	0.00	0.00	
14,600.00	90.00	179.83	7,060.00	-4,668.34	112.58	4,668.66	0.00	0.00	0.00	
14,700.00	90.00	179.83	7,060.00	-4,768.34	112.87	4,768.66	0.00	0.00	0.00	
14,800.00	90.00	179.83	7,060.00	-4,868.34	113.17	4,868.66	0.00	0.00	0.00	
14,900.00	90.00	179.83	7,060.00	-4,968.34	113.47	4,968.66	0.00	0.00	0.00	
14,964.26	90.00	179.83	7,060.00	-5,032.60	113.66	5,032.92	0.00	0.00	0.00	
BPZ @ 14964.26ft										
15,000.00	90.00	179.83	7,060.00	-5,068.34	113.77	5,068.66	0.00	0.00	0.00	
15,054.27	90.00	179.83	7,060.00	-5,122.61	113.93	5,122.93	0.00	0.00	0.00	
TD Well @ 15054.27ft										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
2,519.10	2,376.00	9 5/8"	9-5/8	13-1/2	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
200.50	200.50	0.00	0.00	Begin Nudge @ 200.50ft	
1,474.00	1,432.47	278.30	8.45	Hold Tangent @ 1474.00ft	
6,699.25	6,149.88	2,524.32	76.68	KOP @ 6699.25ft :: DLS = 9°/100'	
7,982.08	7,060.00	1,949.55	92.85	End Build/TPZ @ 7982.08ft	
14,964.26	7,060.00	-5,032.60	113.66	BPZ @ 14964.26ft	
15,054.27	7,060.00	-5,122.61	113.93	TD Well @ 15054.27ft	