

VERDAD RESOURCES

**WATTENBERG FIELD
2N-64W-28 GEORGENE PAD
GEORGENE 2833-02H**

Plan B

Plan: Design #3

Standard Planning Report

28 October, 2022

Project: WATTENBERG FIELD
Site: 2N-64W-28 GEORGENE PAD
Well: GEORGENE 2833-02H
Wellbore: Plan B
Design: Design #3

VERDAD RESOURCES

CASING DETAILS

TVD	MD	Name	Size
2376.00	2618.29	9 5/8"	9-5/8

SHL
222' FSL
675 FEL

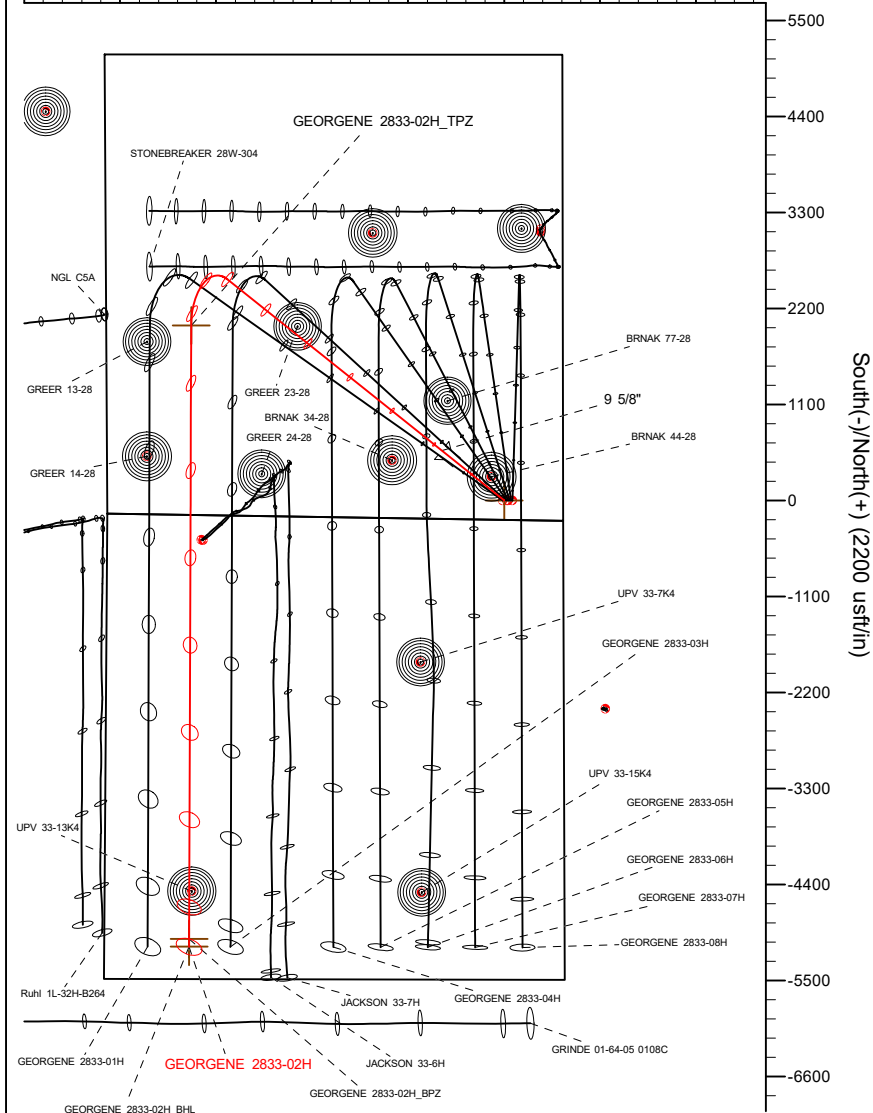
LP/TPZ
2171' FSL
974' FWL

BPZ
460' FSL
974' FWL

BHL
370' FSL
974' FWL

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

5500 -4400 -3300 -2200 -1100 0 1100 2200

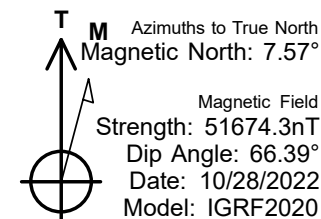
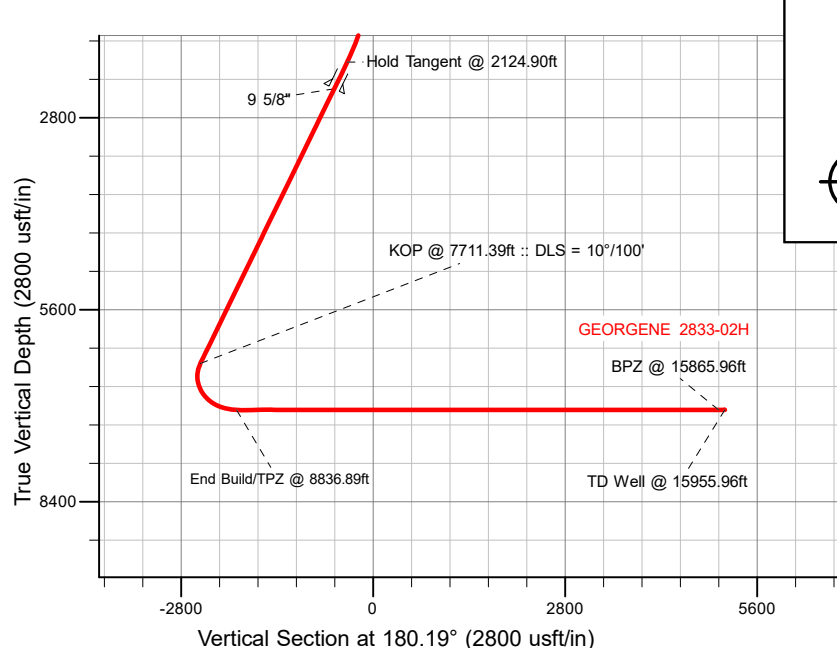


SECTION DETAILS

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	
220.40	0.00	0.00	220.40	0.00	0.00	0.00	0.00	0.00	
2124.90	38.09	308.63	1987.68	380.86	-476.59	2.00	308.63	-379.28	
7711.39	38.09	308.63	6384.49	2532.35	-3168.81	0.00	0.00	-2521.83	
8836.89	90.00	180.19	7060.00	2004.61	-3585.36	10.00	-121.99	-1992.71	
15955.96	90.00	180.19	7060.00	-5114.43	-3609.58	0.00	0.00	5126.37	GEORGENE 2833-02H_BHL

DESIGN TARGET DETAILS

Name	TVD	Northing	Easting	Latitude	Longitude
GEORGENE 2833-02H_SHL	0.00	1281682.28	3265969.24	40.102696	-104.549181
GEORGENE 2833-02H_TPZ	7060.00	1283648.32	3262362.72	40.108198	-104.561998
GEORGENE 2833-02H_BPZ	7060.00	1276619.44	3262414.06	40.088902	-104.562081
GEORGENE 2833-02H_BHL	7060.00	1276529.44	3262414.71	40.088655	-104.562082



WELL DETAILS: GEORGENE 2833-02H

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

Plan: Design #3 (GEORGENE 2833-02H/Plan B)

Date: 10/28/2022

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well GEORGENE 2833-02H
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 2833-02H	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 2833-02H			
Well Position	+N/-S	0.00 usft	Northing:	1,281,682.28 usft
	+E/-W	0.00 usft	Easting:	3,265,969.24 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	7.57	66.39	51,674.26883121

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	180.19	

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	15,955.96	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 2833-02H
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 2833-02H	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	
220.40	0.00	0.00	220.40	0.00	0.00	0.00	0.00	0.00	0.00	
2,124.90	38.09	308.63	1,987.68	380.86	-476.59	2.00	2.00	0.00	308.63	
7,711.39	38.09	308.63	6,384.49	2,532.35	-3,168.81	0.00	0.00	0.00	0.00	
8,836.89	90.00	180.19	7,060.00	2,004.61	-3,585.36	10.00	4.61	-11.41	-121.99	
15,955.97	90.00	180.19	7,060.00	-5,114.43	-3,609.58	0.00	0.00	0.00	0.00	GEORGENE 2833-02

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well GEORGENE 2833-02H
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 2833-02H	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
220.40	0.00	0.00	220.40	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 220.40ft									
300.00	1.59	308.63	299.99	0.69	-0.86	-0.69	2.00	2.00	0.00
400.00	3.59	308.63	399.88	3.51	-4.40	-3.50	2.00	2.00	0.00
500.00	5.59	308.63	499.56	8.51	-10.65	-8.48	2.00	2.00	0.00
600.00	7.59	308.63	598.89	15.68	-19.62	-15.61	2.00	2.00	0.00
700.00	9.59	308.63	697.76	25.00	-31.29	-24.90	2.00	2.00	0.00
800.00	11.59	308.63	796.05	36.48	-45.65	-36.33	2.00	2.00	0.00
900.00	13.59	308.63	893.64	50.09	-62.68	-49.88	2.00	2.00	0.00
1,000.00	15.59	308.63	990.41	65.81	-82.36	-65.54	2.00	2.00	0.00
1,100.00	17.59	308.63	1,086.24	83.64	-104.66	-83.29	2.00	2.00	0.00
1,200.00	19.59	308.63	1,181.02	103.54	-129.57	-103.11	2.00	2.00	0.00
1,300.00	21.59	308.63	1,274.63	125.50	-157.04	-124.98	2.00	2.00	0.00
1,400.00	23.59	308.63	1,366.95	149.48	-187.05	-148.86	2.00	2.00	0.00
1,500.00	25.59	308.63	1,457.87	175.46	-219.56	-174.73	2.00	2.00	0.00
1,600.00	27.59	308.63	1,547.29	203.40	-254.53	-202.56	2.00	2.00	0.00
1,700.00	29.59	308.63	1,635.09	233.28	-291.91	-232.31	2.00	2.00	0.00
1,800.00	31.59	308.63	1,721.17	265.05	-331.66	-263.95	2.00	2.00	0.00
1,900.00	33.59	308.63	1,805.42	298.67	-373.74	-297.43	2.00	2.00	0.00
2,000.00	35.59	308.63	1,887.73	334.12	-418.09	-332.73	2.00	2.00	0.00
2,100.00	37.59	308.63	1,968.02	371.33	-464.66	-369.79	2.00	2.00	0.00
2,124.90	38.09	308.63	1,987.68	380.86	-476.59	-379.28	2.00	2.00	0.00
Hold Tangent @ 2124.90ft									
2,200.00	38.09	308.63	2,046.79	409.79	-512.78	-408.08	0.00	0.00	0.00
2,300.00	38.09	308.63	2,125.50	448.30	-560.97	-446.44	0.00	0.00	0.00
2,400.00	38.09	308.63	2,204.20	486.81	-609.16	-484.79	0.00	0.00	0.00
2,500.00	38.09	308.63	2,282.90	525.32	-657.36	-523.14	0.00	0.00	0.00
2,600.00	38.09	308.63	2,361.61	563.84	-705.55	-561.49	0.00	0.00	0.00
2,618.29	38.09	308.63	2,376.00	570.88	-714.36	-568.51	0.00	0.00	0.00
9 5/8"									
2,700.00	38.09	308.63	2,440.31	602.35	-753.74	-599.85	0.00	0.00	0.00
2,800.00	38.09	308.63	2,519.02	640.86	-801.93	-638.20	0.00	0.00	0.00
2,900.00	38.09	308.63	2,597.72	679.37	-850.12	-676.55	0.00	0.00	0.00
3,000.00	38.09	308.63	2,676.43	717.89	-898.31	-714.90	0.00	0.00	0.00
3,100.00	38.09	308.63	2,755.13	756.40	-946.51	-753.25	0.00	0.00	0.00
3,200.00	38.09	308.63	2,833.83	794.91	-994.70	-791.61	0.00	0.00	0.00
3,300.00	38.09	308.63	2,912.54	833.42	-1,042.89	-829.96	0.00	0.00	0.00
3,400.00	38.09	308.63	2,991.24	871.93	-1,091.08	-868.31	0.00	0.00	0.00
3,500.00	38.09	308.63	3,069.95	910.45	-1,139.27	-906.66	0.00	0.00	0.00
3,600.00	38.09	308.63	3,148.65	948.96	-1,187.47	-945.02	0.00	0.00	0.00
3,700.00	38.09	308.63	3,227.36	987.47	-1,235.66	-983.37	0.00	0.00	0.00
3,800.00	38.09	308.63	3,306.06	1,025.98	-1,283.85	-1,021.72	0.00	0.00	0.00
3,900.00	38.09	308.63	3,384.76	1,064.50	-1,332.04	-1,060.07	0.00	0.00	0.00
4,000.00	38.09	308.63	3,463.47	1,103.01	-1,380.23	-1,098.43	0.00	0.00	0.00
4,100.00	38.09	308.63	3,542.17	1,141.52	-1,428.42	-1,136.78	0.00	0.00	0.00
4,200.00	38.09	308.63	3,620.88	1,180.03	-1,476.62	-1,175.13	0.00	0.00	0.00
4,300.00	38.09	308.63	3,699.58	1,218.55	-1,524.81	-1,213.48	0.00	0.00	0.00
4,400.00	38.09	308.63	3,778.29	1,257.06	-1,573.00	-1,251.83	0.00	0.00	0.00
4,500.00	38.09	308.63	3,856.99	1,295.57	-1,621.19	-1,290.19	0.00	0.00	0.00
4,600.00	38.09	308.63	3,935.69	1,334.08	-1,669.38	-1,328.54	0.00	0.00	0.00

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 2833-02H	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	38.09	308.63	4,014.40	1,372.59	-1,717.57	-1,366.89	0.00	0.00	0.00
4,800.00	38.09	308.63	4,093.10	1,411.11	-1,765.77	-1,405.24	0.00	0.00	0.00
4,900.00	38.09	308.63	4,171.81	1,449.62	-1,813.96	-1,443.60	0.00	0.00	0.00
5,000.00	38.09	308.63	4,250.51	1,488.13	-1,862.15	-1,481.95	0.00	0.00	0.00
5,100.00	38.09	308.63	4,329.21	1,526.64	-1,910.34	-1,520.30	0.00	0.00	0.00
5,200.00	38.09	308.63	4,407.92	1,565.16	-1,958.53	-1,558.65	0.00	0.00	0.00
5,300.00	38.09	308.63	4,486.62	1,603.67	-2,006.72	-1,597.00	0.00	0.00	0.00
5,400.00	38.09	308.63	4,565.33	1,642.18	-2,054.92	-1,635.36	0.00	0.00	0.00
5,500.00	38.09	308.63	4,644.03	1,680.69	-2,103.11	-1,673.71	0.00	0.00	0.00
5,600.00	38.09	308.63	4,722.74	1,719.20	-2,151.30	-1,712.06	0.00	0.00	0.00
5,700.00	38.09	308.63	4,801.44	1,757.72	-2,199.49	-1,750.41	0.00	0.00	0.00
5,800.00	38.09	308.63	4,880.14	1,796.23	-2,247.68	-1,788.77	0.00	0.00	0.00
5,900.00	38.09	308.63	4,958.85	1,834.74	-2,295.87	-1,827.12	0.00	0.00	0.00
6,000.00	38.09	308.63	5,037.55	1,873.25	-2,344.07	-1,865.47	0.00	0.00	0.00
6,100.00	38.09	308.63	5,116.26	1,911.77	-2,392.26	-1,903.82	0.00	0.00	0.00
6,200.00	38.09	308.63	5,194.96	1,950.28	-2,440.45	-1,942.17	0.00	0.00	0.00
6,300.00	38.09	308.63	5,273.67	1,988.79	-2,488.64	-1,980.53	0.00	0.00	0.00
6,400.00	38.09	308.63	5,352.37	2,027.30	-2,536.83	-2,018.88	0.00	0.00	0.00
6,500.00	38.09	308.63	5,431.07	2,065.82	-2,585.03	-2,057.23	0.00	0.00	0.00
6,600.00	38.09	308.63	5,509.78	2,104.33	-2,633.22	-2,095.58	0.00	0.00	0.00
6,700.00	38.09	308.63	5,588.48	2,142.84	-2,681.41	-2,133.94	0.00	0.00	0.00
6,800.00	38.09	308.63	5,667.19	2,181.35	-2,729.60	-2,172.29	0.00	0.00	0.00
6,900.00	38.09	308.63	5,745.89	2,219.86	-2,777.79	-2,210.64	0.00	0.00	0.00
7,000.00	38.09	308.63	5,824.60	2,258.38	-2,825.98	-2,248.99	0.00	0.00	0.00
7,100.00	38.09	308.63	5,903.30	2,296.89	-2,874.18	-2,287.35	0.00	0.00	0.00
7,200.00	38.09	308.63	5,982.00	2,335.40	-2,922.37	-2,325.70	0.00	0.00	0.00
7,300.00	38.09	308.63	6,060.71	2,373.91	-2,970.56	-2,364.05	0.00	0.00	0.00
7,400.00	38.09	308.63	6,139.41	2,412.43	-3,018.75	-2,402.40	0.00	0.00	0.00
7,500.00	38.09	308.63	6,218.12	2,450.94	-3,066.94	-2,440.75	0.00	0.00	0.00
7,600.00	38.09	308.63	6,296.82	2,489.45	-3,115.13	-2,479.11	0.00	0.00	0.00
7,700.00	38.09	308.63	6,375.53	2,527.96	-3,163.33	-2,517.46	0.00	0.00	0.00
7,711.39	38.09	308.63	6,384.49	2,532.35	-3,168.81	-2,521.83	0.00	0.00	0.00
KOP @ 7711.39ft :: DLS = 10°/100'									
7,750.00	36.17	303.08	6,415.28	2,546.01	-3,187.67	-2,535.42	10.00	-4.97	-14.38
7,800.00	34.11	295.16	6,456.19	2,560.03	-3,212.74	-2,549.36	10.00	-4.13	-15.84
7,850.00	32.60	286.48	6,497.97	2,569.81	-3,238.36	-2,559.06	10.00	-3.01	-17.36
7,900.00	31.74	277.22	6,540.32	2,575.29	-3,264.35	-2,564.45	10.00	-1.72	-18.51
7,950.00	31.57	267.69	6,582.91	2,576.42	-3,290.49	-2,565.49	10.00	-0.34	-19.06
8,000.00	32.11	258.26	6,625.41	2,573.18	-3,316.60	-2,562.17	10.00	1.07	-18.86
8,050.00	33.32	249.27	6,667.50	2,565.61	-3,342.47	-2,554.52	10.00	2.41	-17.97
8,100.00	35.13	240.98	6,708.87	2,553.77	-3,367.90	-2,542.59	10.00	3.62	-16.59
8,150.00	37.45	233.49	6,749.19	2,537.73	-3,392.71	-2,526.47	10.00	4.64	-14.98
8,200.00	40.19	226.81	6,788.16	2,517.64	-3,416.71	-2,506.29	10.00	5.49	-13.35
8,250.00	43.27	220.90	6,825.48	2,493.63	-3,439.71	-2,482.20	10.00	6.17	-11.83
8,300.00	46.63	215.65	6,860.88	2,465.88	-3,461.53	-2,454.39	10.00	6.71	-10.50
8,350.00	50.20	210.96	6,894.07	2,434.63	-3,482.02	-2,423.07	10.00	7.14	-9.37
8,400.00	53.94	206.75	6,924.81	2,400.09	-3,501.01	-2,388.46	10.00	7.48	-8.42
8,450.00	57.81	202.93	6,952.86	2,362.53	-3,518.36	-2,350.85	10.00	7.75	-7.64
8,500.00	61.79	199.42	6,978.01	2,322.24	-3,533.94	-2,310.51	10.00	7.96	-7.01
8,550.00	65.85	196.17	7,000.07	2,279.53	-3,547.62	-2,267.75	10.00	8.12	-6.50
8,600.00	69.98	193.12	7,018.86	2,234.72	-3,559.32	-2,222.90	10.00	8.25	-6.10
8,650.00	74.15	190.23	7,034.26	2,188.14	-3,568.93	-2,176.30	10.00	8.35	-5.78
8,700.00	78.37	187.46	7,046.14	2,140.17	-3,576.39	-2,128.29	10.00	8.42	-5.55
8,750.00	82.60	184.77	7,054.40	2,091.15	-3,581.63	-2,079.26	10.00	8.48	-5.38

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well GEORGENE 2833-02H
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 2833-02H	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)	
8,800.00	86.86	182.13	7,058.99	2,041.47	-3,584.62	-2,029.57	10.00	8.51	-5.28	
8,836.89	90.00	180.19	7,060.00	2,004.61	-3,585.36	-1,992.71	10.00	8.52	-5.24	
End Build/TPZ @ 8836.89ft										
8,900.00	90.00	180.19	7,060.00	1,941.49	-3,585.58	-1,929.59	0.00	0.00	0.00	
9,000.00	90.00	180.19	7,060.00	1,841.49	-3,585.92	-1,829.59	0.00	0.00	0.00	
9,100.00	90.00	180.19	7,060.00	1,741.50	-3,586.26	-1,729.59	0.00	0.00	0.00	
9,200.00	90.00	180.19	7,060.00	1,641.50	-3,586.60	-1,629.59	0.00	0.00	0.00	
9,300.00	90.00	180.19	7,060.00	1,541.50	-3,586.94	-1,529.59	0.00	0.00	0.00	
9,400.00	90.00	180.19	7,060.00	1,441.50	-3,587.28	-1,429.59	0.00	0.00	0.00	
9,500.00	90.00	180.19	7,060.00	1,341.50	-3,587.62	-1,329.59	0.00	0.00	0.00	
9,600.00	90.00	180.19	7,060.00	1,241.50	-3,587.96	-1,229.59	0.00	0.00	0.00	
9,700.00	90.00	180.19	7,060.00	1,141.50	-3,588.30	-1,129.59	0.00	0.00	0.00	
9,800.00	90.00	180.19	7,060.00	1,041.50	-3,588.64	-1,029.59	0.00	0.00	0.00	
9,900.00	90.00	180.19	7,060.00	941.50	-3,588.98	-929.59	0.00	0.00	0.00	
10,000.00	90.00	180.19	7,060.00	841.50	-3,589.32	-829.59	0.00	0.00	0.00	
10,100.00	90.00	180.19	7,060.00	741.50	-3,589.66	-729.59	0.00	0.00	0.00	
10,200.00	90.00	180.19	7,060.00	641.50	-3,590.00	-629.59	0.00	0.00	0.00	
10,300.00	90.00	180.19	7,060.00	541.50	-3,590.34	-529.59	0.00	0.00	0.00	
10,400.00	90.00	180.19	7,060.00	441.50	-3,590.68	-429.59	0.00	0.00	0.00	
10,500.00	90.00	180.19	7,060.00	341.50	-3,591.02	-329.59	0.00	0.00	0.00	
10,600.00	90.00	180.19	7,060.00	241.50	-3,591.36	-229.59	0.00	0.00	0.00	
10,700.00	90.00	180.19	7,060.00	141.50	-3,591.70	-129.59	0.00	0.00	0.00	
10,800.00	90.00	180.19	7,060.00	41.50	-3,592.04	-29.59	0.00	0.00	0.00	
10,900.00	90.00	180.19	7,060.00	-58.49	-3,592.38	70.41	0.00	0.00	0.00	
11,000.00	90.00	180.19	7,060.00	-158.49	-3,592.72	170.41	0.00	0.00	0.00	
11,100.00	90.00	180.19	7,060.00	-258.49	-3,593.06	270.41	0.00	0.00	0.00	
11,200.00	90.00	180.19	7,060.00	-358.49	-3,593.40	370.41	0.00	0.00	0.00	
11,300.00	90.00	180.19	7,060.00	-458.49	-3,593.74	470.41	0.00	0.00	0.00	
11,400.00	90.00	180.19	7,060.00	-558.49	-3,594.08	570.41	0.00	0.00	0.00	
11,500.00	90.00	180.19	7,060.00	-658.49	-3,594.42	670.41	0.00	0.00	0.00	
11,600.00	90.00	180.19	7,060.00	-758.49	-3,594.76	770.41	0.00	0.00	0.00	
11,700.00	90.00	180.19	7,060.00	-858.49	-3,595.10	870.41	0.00	0.00	0.00	
11,800.00	90.00	180.19	7,060.00	-958.49	-3,595.44	970.41	0.00	0.00	0.00	
11,900.00	90.00	180.19	7,060.00	-1,058.49	-3,595.78	1,070.41	0.00	0.00	0.00	
12,000.00	90.00	180.19	7,060.00	-1,158.49	-3,596.12	1,170.41	0.00	0.00	0.00	
12,100.00	90.00	180.19	7,060.00	-1,258.49	-3,596.46	1,270.41	0.00	0.00	0.00	
12,200.00	90.00	180.19	7,060.00	-1,358.49	-3,596.80	1,370.41	0.00	0.00	0.00	
12,300.00	90.00	180.19	7,060.00	-1,458.49	-3,597.14	1,470.41	0.00	0.00	0.00	
12,400.00	90.00	180.19	7,060.00	-1,558.49	-3,597.48	1,570.41	0.00	0.00	0.00	
12,500.00	90.00	180.19	7,060.00	-1,658.49	-3,597.82	1,670.41	0.00	0.00	0.00	
12,600.00	90.00	180.19	7,060.00	-1,758.48	-3,598.16	1,770.41	0.00	0.00	0.00	
12,700.00	90.00	180.19	7,060.00	-1,858.48	-3,598.50	1,870.41	0.00	0.00	0.00	
12,800.00	90.00	180.19	7,060.00	-1,958.48	-3,598.84	1,970.41	0.00	0.00	0.00	
12,900.00	90.00	180.19	7,060.00	-2,058.48	-3,599.18	2,070.41	0.00	0.00	0.00	
13,000.00	90.00	180.19	7,060.00	-2,158.48	-3,599.52	2,170.41	0.00	0.00	0.00	
13,100.00	90.00	180.19	7,060.00	-2,258.48	-3,599.86	2,270.41	0.00	0.00	0.00	
13,200.00	90.00	180.19	7,060.00	-2,358.48	-3,600.20	2,370.41	0.00	0.00	0.00	
13,300.00	90.00	180.19	7,060.00	-2,458.48	-3,600.54	2,470.41	0.00	0.00	0.00	
13,400.00	90.00	180.19	7,060.00	-2,558.48	-3,600.88	2,570.41	0.00	0.00	0.00	
13,500.00	90.00	180.19	7,060.00	-2,658.48	-3,601.23	2,670.41	0.00	0.00	0.00	
13,600.00	90.00	180.19	7,060.00	-2,758.48	-3,601.57	2,770.41	0.00	0.00	0.00	
13,700.00	90.00	180.19	7,060.00	-2,858.48	-3,601.91	2,870.41	0.00	0.00	0.00	
13,800.00	90.00	180.19	7,060.00	-2,958.48	-3,602.25	2,970.41	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well GEORGENE 2833-02H
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 2833-02H	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)	
13,900.00	90.00	180.19	7,060.00	-3,058.48	-3,602.59	3,070.41	0.00	0.00	0.00	
14,000.00	90.00	180.19	7,060.00	-3,158.48	-3,602.93	3,170.41	0.00	0.00	0.00	
14,100.00	90.00	180.19	7,060.00	-3,258.48	-3,603.27	3,270.41	0.00	0.00	0.00	
14,200.00	90.00	180.19	7,060.00	-3,358.48	-3,603.61	3,370.41	0.00	0.00	0.00	
14,300.00	90.00	180.19	7,060.00	-3,458.47	-3,603.95	3,470.41	0.00	0.00	0.00	
14,400.00	90.00	180.19	7,060.00	-3,558.47	-3,604.29	3,570.41	0.00	0.00	0.00	
14,500.00	90.00	180.19	7,060.00	-3,658.47	-3,604.63	3,670.41	0.00	0.00	0.00	
14,600.00	90.00	180.19	7,060.00	-3,758.47	-3,604.97	3,770.41	0.00	0.00	0.00	
14,700.00	90.00	180.19	7,060.00	-3,858.47	-3,605.31	3,870.41	0.00	0.00	0.00	
14,800.00	90.00	180.19	7,060.00	-3,958.47	-3,605.65	3,970.41	0.00	0.00	0.00	
14,900.00	90.00	180.19	7,060.00	-4,058.47	-3,605.99	4,070.41	0.00	0.00	0.00	
15,000.00	90.00	180.19	7,060.00	-4,158.47	-3,606.33	4,170.41	0.00	0.00	0.00	
15,100.00	90.00	180.19	7,060.00	-4,258.47	-3,606.67	4,270.41	0.00	0.00	0.00	
15,200.00	90.00	180.19	7,060.00	-4,358.47	-3,607.01	4,370.41	0.00	0.00	0.00	
15,300.00	90.00	180.19	7,060.00	-4,458.47	-3,607.35	4,470.41	0.00	0.00	0.00	
15,400.00	90.00	180.19	7,060.00	-4,558.47	-3,607.69	4,570.41	0.00	0.00	0.00	
15,500.00	90.00	180.19	7,060.00	-4,658.47	-3,608.03	4,670.41	0.00	0.00	0.00	
15,600.00	90.00	180.19	7,060.00	-4,758.47	-3,608.37	4,770.41	0.00	0.00	0.00	
15,700.00	90.00	180.19	7,060.00	-4,858.47	-3,608.71	4,870.41	0.00	0.00	0.00	
15,800.00	90.00	180.19	7,060.00	-4,958.47	-3,609.05	4,970.41	0.00	0.00	0.00	
15,865.96	90.00	180.19	7,060.00	-5,024.43	-3,609.27	5,036.37	0.00	0.00	0.00	
BPZ @ 15865.96ft										
15,900.00	90.00	180.19	7,060.00	-5,058.47	-3,609.39	5,070.41	0.00	0.00	0.00	
15,955.97	90.00	180.19	7,060.00	-5,114.43	-3,609.58	5,126.37	0.00	0.00	0.00	
TD Well @ 15955.96ft										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
2,618.29	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)		
220.40	220.40	0.00	0.00	Begin Nudge @ 220.40ft	
2,124.90	1,987.68	380.86	-476.59	Hold Tangent @ 2124.90ft	
7,711.39	6,384.49	2,532.35	-3,168.81	KOP @ 7711.39ft :: DLS = 10°/100'	
8,836.89	7,060.00	2,004.61	-3,585.36	End Build/TPZ @ 8836.89ft	
15,865.96	7,060.00	-5,024.43	-3,609.27	BPZ @ 15865.96ft	
15,955.97	7,060.00	-5,114.43	-3,609.58	TD Well @ 15955.96ft	