

VERDAD RESOURCES

WATTENBERG FIELD

1N-65W-22 FAWN 2734 & 2833 PAD

FAWN 2833-01H

Plan A

Plan: Design #2

Standard Planning Report

13 October, 2022

Project: WATTENBERG FIELD
Site: 1N-65W-22 FAWN 2734 & 2833 PAD
Well: FAWN 2833-01H
Wellbore: Plan A
Design: Design #2

VERDAD RESOURCES

CASING DETAILS

TVD	MD	Name	Size
2250.00	2460.22	9 5/8"	9-5/8

SHL
244' FSL
2238' FWL

LP/TPZ
460' FNL
2411' FEL

BPZ
460' FSL
2411' FEL

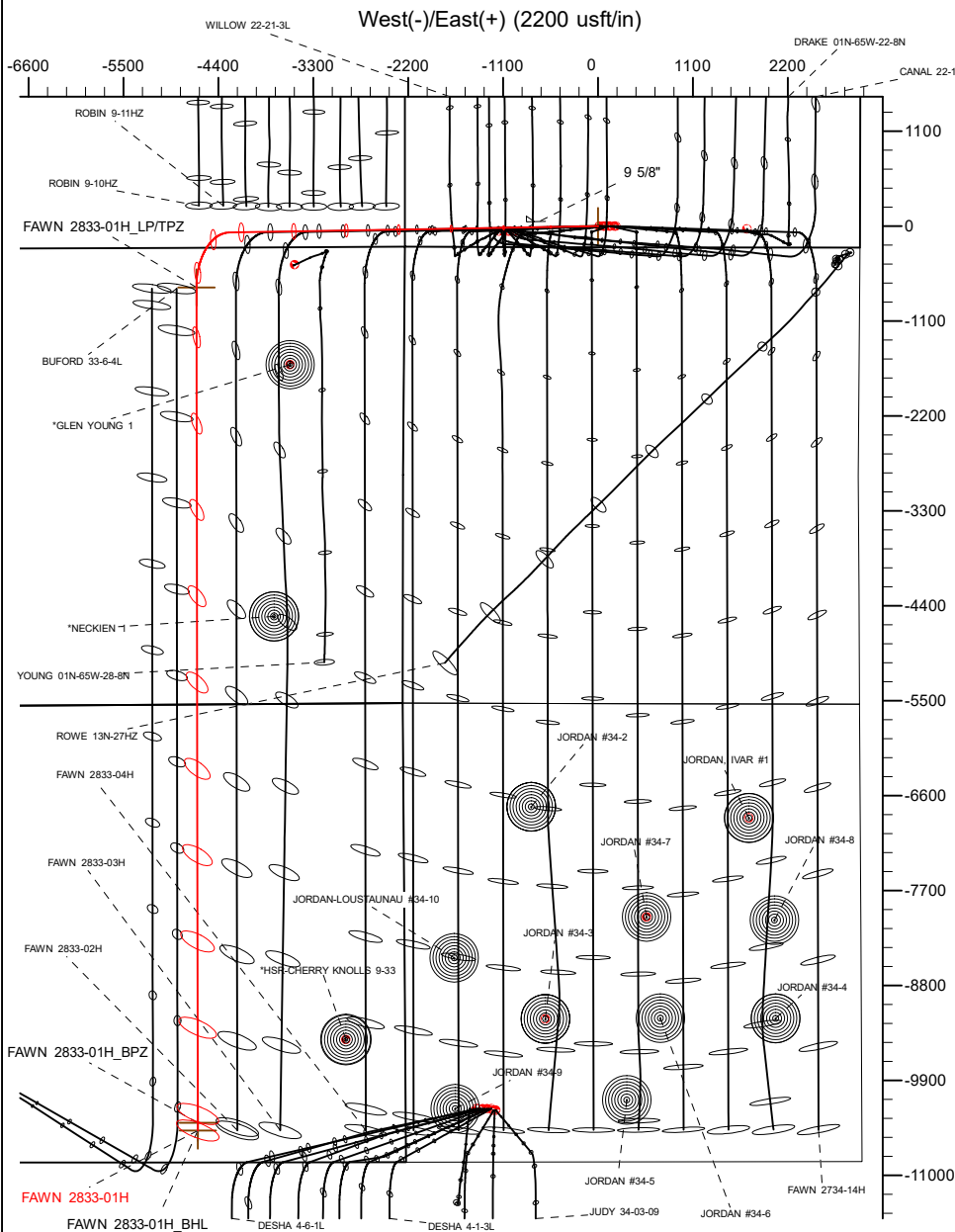
BHL
370' FSL
2412' FEL

SECTION DETAILS

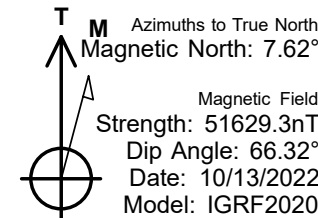
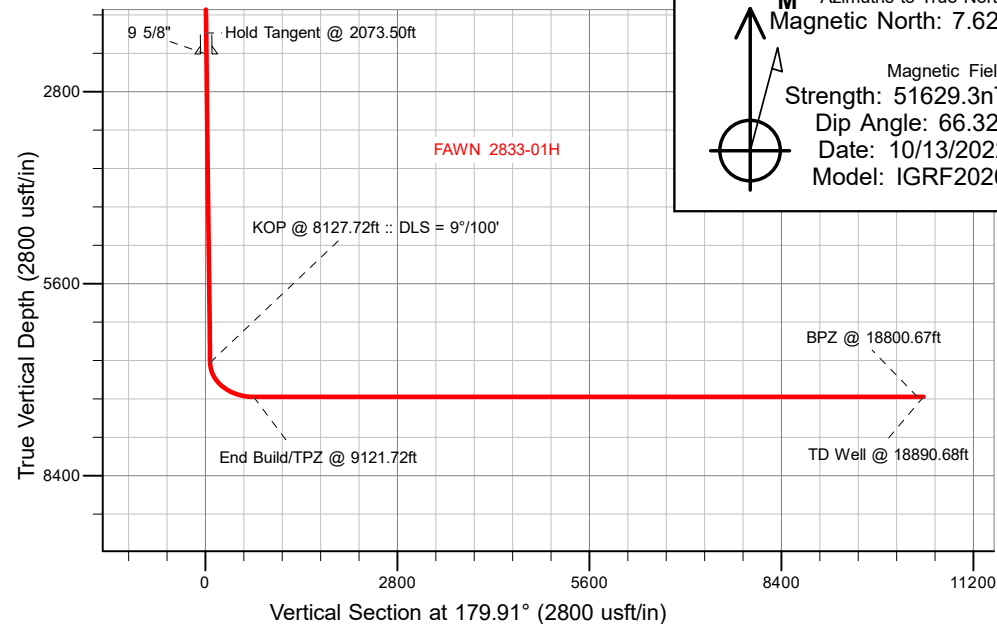
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	Vsect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
201.00	0.00	0.00	201.00	0.00	0.00	0.00	0.00	0.00	
2073.50	37.45	269.02	1942.99	-10.10	-590.39	2.00	269.02	9.17	
8127.72	37.45	269.02	6749.34	-73.06	-4271.24	0.00	0.00	66.35	
9121.72	90.00	179.91	7250.00	-710.27	-4653.65	9.00	-89.29	702.96	
18890.68	90.00	179.91	7250.00	-10479.22	-4637.97	0.00	0.00	10471.92	FAWN 2833-01H_BHL

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	Northing	Easting	Latitude	Longitude
FAWN 2833-01H_SHL	0.00	1255030.14	3237573.91	40.030325	-104.651597
FAWN 2833-01H_LP/TPZ	7250.00	1254275.12	3232927.37	40.028374	-104.668214
FAWN 2833-01H_BPZ	7250.00	1244597.03	3233035.40	40.001804	-104.668153
FAWN 2833-01H_BHL	7250.00	1244507.03	3233036.41	40.001557	-104.668152



South(-)/North(+) (2200 usft/in)



WELL DETAILS: FAWN 2833-01H

GL = 5107'

RKB = 20' @ 5127.00usft (RIG)

Plan: Design #2 (FAWN 2833-01H/Plan A)

Date: 10/13/2022

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well FAWN 2833-01H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 20' @ 5127.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 20' @ 5127.00usft (RIG)
Site:	1N-65W-22 FAWN 2734 & 2833 PAD	North Reference:	True
Well:	FAWN 2833-01H	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-22 FAWN 2734 & 2833 PAD			
Site Position:		Northing:	1,255,173.64 usft	Latitude: 40.030719
From:	Lat/Long	Easting:	3,237,589.54 usft	Longitude: -104.651536
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	

Well	FAWN 2833-01H			
Well Position	+N/-S	0.00 usft	Northing:	1,255,030.14 usft
	+E/-W	0.00 usft	Easting:	3,237,573.91 usft
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft
Grid Convergence:		0.55 °	Ground Level:	5,107.00 usft

Wellbore	Plan A				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF202013	10/13/2022	7.62	66.32	51,629.34865769

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	179.91	

Plan Survey Tool Program	Date	10/13/2022			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	2,250.00	Design #2 (Plan A)	ISCWSA MWD	
				Fixed:v2:standard declination	
2	2,250.00	18,890.68	Design #2 (Plan A)	ISCWSA MWD	
				Fixed:v2:standard declination	

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Site:	1N-65W-22 FAWN 2734 & 2833 PAD	North Reference:	True
Well:	FAWN 2833-01H	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	
201.00	0.00	0.00	201.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,073.50	37.45	269.02	1,942.99	-10.10	-590.39	2.00	2.00	0.00	269.02	
8,127.72	37.45	269.02	6,749.34	-73.06	-4,271.24	0.00	0.00	0.00	0.00	
9,121.72	90.00	179.91	7,250.00	-710.27	-4,653.65	9.00	5.29	-8.96	-89.29	
18,890.68	90.00	179.91	7,250.00	-10,479.22	-4,637.97	0.00	0.00	0.00	0.00	FAWN 2833-01H_BHI

Planning Report

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Company:	VERDAD RESOURCES	TVD Reference:	RKB = 20' @ 5127.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 20' @ 5127.00usft (RIG)
Site:	1N-65W-22 FAWN 2734 & 2833 PAD	North Reference:	True
Well:	FAWN 2833-01H	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
201.00	0.00	0.00	201.00	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 201.00ft									
300.00	1.98	269.02	299.98	-0.03	-1.71	0.03	2.00	2.00	0.00
400.00	3.98	269.02	399.84	-0.12	-6.91	0.11	2.00	2.00	0.00
500.00	5.98	269.02	499.46	-0.27	-15.59	0.24	2.00	2.00	0.00
600.00	7.98	269.02	598.71	-0.47	-27.74	0.43	2.00	2.00	0.00
700.00	9.98	269.02	697.48	-0.74	-43.34	0.67	2.00	2.00	0.00
800.00	11.98	269.02	795.64	-1.07	-62.39	0.97	2.00	2.00	0.00
900.00	13.98	269.02	893.08	-1.45	-84.84	1.32	2.00	2.00	0.00
1,000.00	15.98	269.02	989.68	-1.89	-110.69	1.72	2.00	2.00	0.00
1,100.00	17.98	269.02	1,085.32	-2.39	-139.88	2.17	2.00	2.00	0.00
1,200.00	19.98	269.02	1,179.88	-2.95	-172.40	2.68	2.00	2.00	0.00
1,300.00	21.98	269.02	1,273.24	-3.56	-208.20	3.23	2.00	2.00	0.00
1,400.00	23.98	269.02	1,365.30	-4.23	-247.23	3.84	2.00	2.00	0.00
1,500.00	25.98	269.02	1,455.94	-4.95	-289.45	4.50	2.00	2.00	0.00
1,600.00	27.98	269.02	1,545.05	-5.73	-334.81	5.20	2.00	2.00	0.00
1,700.00	29.98	269.02	1,632.53	-6.56	-383.25	5.95	2.00	2.00	0.00
1,800.00	31.98	269.02	1,718.26	-7.44	-434.72	6.75	2.00	2.00	0.00
1,900.00	33.98	269.02	1,802.14	-8.37	-489.14	7.60	2.00	2.00	0.00
2,000.00	35.98	269.02	1,884.07	-9.35	-546.46	8.49	2.00	2.00	0.00
2,073.50	37.45	269.02	1,942.99	-10.10	-590.39	9.17	2.00	2.00	0.00
Hold Tangent @ 2073.50ft									
2,100.00	37.45	269.02	1,964.03	-10.37	-606.50	9.42	0.00	0.00	0.00
2,200.00	37.45	269.02	2,043.42	-11.41	-667.30	10.37	0.00	0.00	0.00
2,300.00	37.45	269.02	2,122.80	-12.45	-728.10	11.31	0.00	0.00	0.00
2,400.00	37.45	269.02	2,202.19	-13.49	-788.90	12.26	0.00	0.00	0.00
2,460.22	37.45	269.02	2,250.00	-14.12	-825.51	12.82	0.00	0.00	0.00
9 5/8"									
2,500.00	37.45	269.02	2,281.58	-14.53	-849.70	13.20	0.00	0.00	0.00
2,600.00	37.45	269.02	2,360.97	-15.57	-910.49	14.14	0.00	0.00	0.00
2,700.00	37.45	269.02	2,440.36	-16.61	-971.29	15.09	0.00	0.00	0.00
2,800.00	37.45	269.02	2,519.75	-17.65	-1,032.09	16.03	0.00	0.00	0.00
2,900.00	37.45	269.02	2,599.13	-18.69	-1,092.89	16.98	0.00	0.00	0.00
3,000.00	37.45	269.02	2,678.52	-19.73	-1,153.69	17.92	0.00	0.00	0.00
3,100.00	37.45	269.02	2,757.91	-20.77	-1,214.48	18.87	0.00	0.00	0.00
3,200.00	37.45	269.02	2,837.30	-21.81	-1,275.28	19.81	0.00	0.00	0.00
3,300.00	37.45	269.02	2,916.69	-22.85	-1,336.08	20.76	0.00	0.00	0.00
3,400.00	37.45	269.02	2,996.08	-23.89	-1,396.88	21.70	0.00	0.00	0.00
3,500.00	37.45	269.02	3,075.46	-24.93	-1,457.68	22.65	0.00	0.00	0.00
3,600.00	37.45	269.02	3,154.85	-25.97	-1,518.47	23.59	0.00	0.00	0.00
3,700.00	37.45	269.02	3,234.24	-27.01	-1,579.27	24.53	0.00	0.00	0.00
3,800.00	37.45	269.02	3,313.63	-28.05	-1,640.07	25.48	0.00	0.00	0.00
3,900.00	37.45	269.02	3,393.02	-29.09	-1,700.87	26.42	0.00	0.00	0.00
4,000.00	37.45	269.02	3,472.41	-30.13	-1,761.67	27.37	0.00	0.00	0.00
4,100.00	37.45	269.02	3,551.80	-31.17	-1,822.46	28.31	0.00	0.00	0.00
4,200.00	37.45	269.02	3,631.18	-32.21	-1,883.26	29.26	0.00	0.00	0.00
4,300.00	37.45	269.02	3,710.57	-33.25	-1,944.06	30.20	0.00	0.00	0.00
4,400.00	37.45	269.02	3,789.96	-34.29	-2,004.86	31.15	0.00	0.00	0.00
4,500.00	37.45	269.02	3,869.35	-35.33	-2,065.65	32.09	0.00	0.00	0.00
4,600.00	37.45	269.02	3,948.74	-36.37	-2,126.45	33.03	0.00	0.00	0.00
4,700.00	37.45	269.02	4,028.13	-37.41	-2,187.25	33.98	0.00	0.00	0.00

Planning Report

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Project:	WATTENBERG FIELD	MD Reference:	RKB = 20' @ 5127.00usft (RIG)
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Well:	FAWN 2833-01H	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	37.45	269.02	4,107.51	-38.45	-2,248.05	34.92	0.00	0.00	0.00
4,900.00	37.45	269.02	4,186.90	-39.49	-2,308.85	35.87	0.00	0.00	0.00
5,000.00	37.45	269.02	4,266.29	-40.53	-2,369.64	36.81	0.00	0.00	0.00
5,100.00	37.45	269.02	4,345.68	-41.57	-2,430.44	37.76	0.00	0.00	0.00
5,200.00	37.45	269.02	4,425.07	-42.61	-2,491.24	38.70	0.00	0.00	0.00
5,300.00	37.45	269.02	4,504.46	-43.65	-2,552.04	39.65	0.00	0.00	0.00
5,400.00	37.45	269.02	4,583.85	-44.69	-2,612.84	40.59	0.00	0.00	0.00
5,500.00	37.45	269.02	4,663.23	-45.73	-2,673.63	41.54	0.00	0.00	0.00
5,600.00	37.45	269.02	4,742.62	-46.77	-2,734.43	42.48	0.00	0.00	0.00
5,700.00	37.45	269.02	4,822.01	-47.81	-2,795.23	43.42	0.00	0.00	0.00
5,800.00	37.45	269.02	4,901.40	-48.85	-2,856.03	44.37	0.00	0.00	0.00
5,900.00	37.45	269.02	4,980.79	-49.89	-2,916.83	45.31	0.00	0.00	0.00
6,000.00	37.45	269.02	5,060.18	-50.93	-2,977.62	46.26	0.00	0.00	0.00
6,100.00	37.45	269.02	5,139.56	-51.97	-3,038.42	47.20	0.00	0.00	0.00
6,200.00	37.45	269.02	5,218.95	-53.01	-3,099.22	48.15	0.00	0.00	0.00
6,300.00	37.45	269.02	5,298.34	-54.05	-3,160.02	49.09	0.00	0.00	0.00
6,400.00	37.45	269.02	5,377.73	-55.09	-3,220.82	50.04	0.00	0.00	0.00
6,500.00	37.45	269.02	5,457.12	-56.13	-3,281.61	50.98	0.00	0.00	0.00
6,600.00	37.45	269.02	5,536.51	-57.17	-3,342.41	51.92	0.00	0.00	0.00
6,700.00	37.45	269.02	5,615.89	-58.21	-3,403.21	52.87	0.00	0.00	0.00
6,800.00	37.45	269.02	5,695.28	-59.25	-3,464.01	53.81	0.00	0.00	0.00
6,900.00	37.45	269.02	5,774.67	-60.29	-3,524.81	54.76	0.00	0.00	0.00
7,000.00	37.45	269.02	5,854.06	-61.33	-3,585.60	55.70	0.00	0.00	0.00
7,100.00	37.45	269.02	5,933.45	-62.37	-3,646.40	56.65	0.00	0.00	0.00
7,200.00	37.45	269.02	6,012.84	-63.41	-3,707.20	57.59	0.00	0.00	0.00
7,300.00	37.45	269.02	6,092.23	-64.45	-3,768.00	58.54	0.00	0.00	0.00
7,400.00	37.45	269.02	6,171.61	-65.49	-3,828.80	59.48	0.00	0.00	0.00
7,500.00	37.45	269.02	6,251.00	-66.53	-3,889.59	60.43	0.00	0.00	0.00
7,600.00	37.45	269.02	6,330.39	-67.58	-3,950.39	61.37	0.00	0.00	0.00
7,700.00	37.45	269.02	6,409.78	-68.62	-4,011.19	62.31	0.00	0.00	0.00
7,800.00	37.45	269.02	6,489.17	-69.66	-4,071.99	63.26	0.00	0.00	0.00
7,900.00	37.45	269.02	6,568.56	-70.70	-4,132.79	64.20	0.00	0.00	0.00
8,000.00	37.45	269.02	6,647.94	-71.74	-4,193.58	65.15	0.00	0.00	0.00
8,100.00	37.45	269.02	6,727.33	-72.78	-4,254.38	66.09	0.00	0.00	0.00
8,127.72	37.45	269.02	6,749.34	-73.06	-4,271.24	66.35	0.00	0.00	0.00
KOP @ 8127.72ft :: DLS = 9°/100'									
8,150.00	37.52	265.73	6,767.02	-73.68	-4,284.78	66.95	9.00	0.32	-14.78
8,200.00	38.01	258.42	6,806.57	-77.91	-4,315.06	71.13	9.00	0.98	-14.62
8,250.00	38.94	251.34	6,845.73	-86.03	-4,345.04	79.21	9.00	1.85	-14.16
8,300.00	40.27	244.59	6,884.27	-98.00	-4,374.54	91.13	9.00	2.67	-13.49
8,350.00	41.98	238.26	6,921.95	-113.74	-4,403.37	106.82	9.00	3.41	-12.67
8,400.00	44.01	232.37	6,958.54	-133.15	-4,431.36	126.19	9.00	4.06	-11.79
8,450.00	46.32	226.92	6,993.81	-156.12	-4,458.33	149.11	9.00	4.62	-10.90
8,500.00	48.86	221.89	7,027.54	-182.50	-4,484.12	175.45	9.00	5.10	-10.05
8,550.00	51.62	217.26	7,059.52	-212.12	-4,508.57	205.04	9.00	5.50	-9.27
8,600.00	54.53	212.97	7,089.57	-244.82	-4,531.52	237.70	9.00	5.84	-8.57
8,650.00	57.59	208.99	7,117.48	-280.38	-4,552.85	273.23	9.00	6.12	-7.96
8,700.00	60.77	205.28	7,143.10	-318.59	-4,572.40	311.41	9.00	6.35	-7.42
8,750.00	64.04	201.80	7,166.26	-359.21	-4,590.08	352.00	9.00	6.55	-6.97
8,800.00	67.40	198.50	7,186.82	-401.99	-4,605.76	394.76	9.00	6.70	-6.59
8,850.00	70.81	195.36	7,204.66	-446.67	-4,619.34	439.41	9.00	6.83	-6.27
8,900.00	74.28	192.36	7,219.66	-492.97	-4,630.75	485.69	9.00	6.93	-6.02
8,950.00	77.79	189.45	7,231.73	-540.60	-4,639.92	533.31	9.00	7.01	-5.81
9,000.00	81.32	186.62	7,240.79	-589.28	-4,646.79	581.98	9.00	7.07	-5.66

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well FAWN 2833-01H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 20' @ 5127.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 20' @ 5127.00usft (RIG)
Site:	1N-65W-22 FAWN 2734 & 2833 PAD	North Reference:	True
Well:	FAWN 2833-01H	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)
9,050.00	84.88	183.84	7,246.80	-638.70	-4,651.31	631.39	9.00	7.11	-5.55
9,100.00	88.45	181.10	7,249.71	-688.55	-4,653.45	681.24	9.00	7.14	-5.49
9,121.72	90.00	179.91	7,250.00	-710.27	-4,653.65	702.96	9.00	7.14	-5.47
End Build/TPZ @ 9121.72ft									
9,200.00	90.00	179.91	7,250.00	-788.55	-4,653.52	781.24	0.00	0.00	0.00
9,300.00	90.00	179.91	7,250.00	-888.55	-4,653.36	881.24	0.00	0.00	0.00
9,400.00	90.00	179.91	7,250.00	-988.55	-4,653.20	981.24	0.00	0.00	0.00
9,500.00	90.00	179.91	7,250.00	-1,088.55	-4,653.04	1,081.24	0.00	0.00	0.00
9,600.00	90.00	179.91	7,250.00	-1,188.55	-4,652.88	1,181.24	0.00	0.00	0.00
9,700.00	90.00	179.91	7,250.00	-1,288.55	-4,652.72	1,281.24	0.00	0.00	0.00
9,800.00	90.00	179.91	7,250.00	-1,388.55	-4,652.56	1,381.24	0.00	0.00	0.00
9,900.00	90.00	179.91	7,250.00	-1,488.55	-4,652.40	1,481.24	0.00	0.00	0.00
10,000.00	90.00	179.91	7,250.00	-1,588.55	-4,652.24	1,581.24	0.00	0.00	0.00
10,100.00	90.00	179.91	7,250.00	-1,688.55	-4,652.08	1,681.24	0.00	0.00	0.00
10,200.00	90.00	179.91	7,250.00	-1,788.55	-4,651.92	1,781.24	0.00	0.00	0.00
10,300.00	90.00	179.91	7,250.00	-1,888.55	-4,651.75	1,881.24	0.00	0.00	0.00
10,400.00	90.00	179.91	7,250.00	-1,988.55	-4,651.59	1,981.24	0.00	0.00	0.00
10,500.00	90.00	179.91	7,250.00	-2,088.55	-4,651.43	2,081.24	0.00	0.00	0.00
10,600.00	90.00	179.91	7,250.00	-2,188.55	-4,651.27	2,181.24	0.00	0.00	0.00
10,700.00	90.00	179.91	7,250.00	-2,288.55	-4,651.11	2,281.24	0.00	0.00	0.00
10,800.00	90.00	179.91	7,250.00	-2,388.55	-4,650.95	2,381.24	0.00	0.00	0.00
10,900.00	90.00	179.91	7,250.00	-2,488.55	-4,650.79	2,481.24	0.00	0.00	0.00
11,000.00	90.00	179.91	7,250.00	-2,588.55	-4,650.63	2,581.24	0.00	0.00	0.00
11,100.00	90.00	179.91	7,250.00	-2,688.55	-4,650.47	2,681.24	0.00	0.00	0.00
11,200.00	90.00	179.91	7,250.00	-2,788.55	-4,650.31	2,781.24	0.00	0.00	0.00
11,300.00	90.00	179.91	7,250.00	-2,888.55	-4,650.15	2,881.24	0.00	0.00	0.00
11,400.00	90.00	179.91	7,250.00	-2,988.55	-4,649.99	2,981.24	0.00	0.00	0.00
11,500.00	90.00	179.91	7,250.00	-3,088.55	-4,649.83	3,081.24	0.00	0.00	0.00
11,600.00	90.00	179.91	7,250.00	-3,188.55	-4,649.67	3,181.24	0.00	0.00	0.00
11,700.00	90.00	179.91	7,250.00	-3,288.55	-4,649.51	3,281.24	0.00	0.00	0.00
11,800.00	90.00	179.91	7,250.00	-3,388.55	-4,649.35	3,381.24	0.00	0.00	0.00
11,900.00	90.00	179.91	7,250.00	-3,488.55	-4,649.19	3,481.24	0.00	0.00	0.00
12,000.00	90.00	179.91	7,250.00	-3,588.55	-4,649.03	3,581.24	0.00	0.00	0.00
12,100.00	90.00	179.91	7,250.00	-3,688.55	-4,648.87	3,681.24	0.00	0.00	0.00
12,200.00	90.00	179.91	7,250.00	-3,788.55	-4,648.71	3,781.24	0.00	0.00	0.00
12,300.00	90.00	179.91	7,250.00	-3,888.55	-4,648.55	3,881.24	0.00	0.00	0.00
12,400.00	90.00	179.91	7,250.00	-3,988.54	-4,648.39	3,981.24	0.00	0.00	0.00
12,500.00	90.00	179.91	7,250.00	-4,088.54	-4,648.23	4,081.24	0.00	0.00	0.00
12,600.00	90.00	179.91	7,250.00	-4,188.54	-4,648.06	4,181.24	0.00	0.00	0.00
12,700.00	90.00	179.91	7,250.00	-4,288.54	-4,647.90	4,281.24	0.00	0.00	0.00
12,800.00	90.00	179.91	7,250.00	-4,388.54	-4,647.74	4,381.24	0.00	0.00	0.00
12,900.00	90.00	179.91	7,250.00	-4,488.54	-4,647.58	4,481.24	0.00	0.00	0.00
13,000.00	90.00	179.91	7,250.00	-4,588.54	-4,647.42	4,581.24	0.00	0.00	0.00
13,100.00	90.00	179.91	7,250.00	-4,688.54	-4,647.26	4,681.24	0.00	0.00	0.00
13,200.00	90.00	179.91	7,250.00	-4,788.54	-4,647.10	4,781.24	0.00	0.00	0.00
13,300.00	90.00	179.91	7,250.00	-4,888.54	-4,646.94	4,881.24	0.00	0.00	0.00
13,400.00	90.00	179.91	7,250.00	-4,988.54	-4,646.78	4,981.24	0.00	0.00	0.00
13,500.00	90.00	179.91	7,250.00	-5,088.54	-4,646.62	5,081.24	0.00	0.00	0.00
13,600.00	90.00	179.91	7,250.00	-5,188.54	-4,646.46	5,181.24	0.00	0.00	0.00
13,700.00	90.00	179.91	7,250.00	-5,288.54	-4,646.30	5,281.24	0.00	0.00	0.00
13,800.00	90.00	179.91	7,250.00	-5,388.54	-4,646.14	5,381.24	0.00	0.00	0.00
13,900.00	90.00	179.91	7,250.00	-5,488.54	-4,645.98	5,481.24	0.00	0.00	0.00
14,000.00	90.00	179.91	7,250.00	-5,588.54	-4,645.82	5,581.24	0.00	0.00	0.00

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	EDM 5000.16 Single User Db VERDAD RESOURCES WATTENBERG FIELD 1N-65W-22 FAWN 2734 & 2833 PAD FAWN 2833-01H Plan A Design #2	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Well FAWN 2833-01H RKB = 20' @ 5127.00usft (RIG) RKB = 20' @ 5127.00usft (RIG) True Minimum Curvature
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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	179.91	7,250.00	-5,688.54	-4,645.66	5,681.24	0.00	0.00	0.00	
14,200.00	90.00	179.91	7,250.00	-5,788.54	-4,645.50	5,781.24	0.00	0.00	0.00	
14,300.00	90.00	179.91	7,250.00	-5,888.54	-4,645.34	5,881.24	0.00	0.00	0.00	
14,400.00	90.00	179.91	7,250.00	-5,988.54	-4,645.18	5,981.24	0.00	0.00	0.00	
14,500.00	90.00	179.91	7,250.00	-6,088.54	-4,645.02	6,081.24	0.00	0.00	0.00	
14,600.00	90.00	179.91	7,250.00	-6,188.54	-4,644.86	6,181.24	0.00	0.00	0.00	
14,700.00	90.00	179.91	7,250.00	-6,288.54	-4,644.70	6,281.24	0.00	0.00	0.00	
14,800.00	90.00	179.91	7,250.00	-6,388.54	-4,644.53	6,381.24	0.00	0.00	0.00	
14,900.00	90.00	179.91	7,250.00	-6,488.54	-4,644.37	6,481.24	0.00	0.00	0.00	
15,000.00	90.00	179.91	7,250.00	-6,588.54	-4,644.21	6,581.24	0.00	0.00	0.00	
15,100.00	90.00	179.91	7,250.00	-6,688.54	-4,644.05	6,681.24	0.00	0.00	0.00	
15,200.00	90.00	179.91	7,250.00	-6,788.54	-4,643.89	6,781.24	0.00	0.00	0.00	
15,300.00	90.00	179.91	7,250.00	-6,888.54	-4,643.73	6,881.24	0.00	0.00	0.00	
15,400.00	90.00	179.91	7,250.00	-6,988.54	-4,643.57	6,981.24	0.00	0.00	0.00	
15,500.00	90.00	179.91	7,250.00	-7,088.54	-4,643.41	7,081.24	0.00	0.00	0.00	
15,600.00	90.00	179.91	7,250.00	-7,188.54	-4,643.25	7,181.24	0.00	0.00	0.00	
15,700.00	90.00	179.91	7,250.00	-7,288.54	-4,643.09	7,281.24	0.00	0.00	0.00	
15,800.00	90.00	179.91	7,250.00	-7,388.54	-4,642.93	7,381.24	0.00	0.00	0.00	
15,900.00	90.00	179.91	7,250.00	-7,488.54	-4,642.77	7,481.24	0.00	0.00	0.00	
16,000.00	90.00	179.91	7,250.00	-7,588.54	-4,642.61	7,581.24	0.00	0.00	0.00	
16,100.00	90.00	179.91	7,250.00	-7,688.54	-4,642.45	7,681.24	0.00	0.00	0.00	
16,200.00	90.00	179.91	7,250.00	-7,788.54	-4,642.29	7,781.24	0.00	0.00	0.00	
16,300.00	90.00	179.91	7,250.00	-7,888.54	-4,642.13	7,881.24	0.00	0.00	0.00	
16,400.00	90.00	179.91	7,250.00	-7,988.54	-4,641.97	7,981.24	0.00	0.00	0.00	
16,500.00	90.00	179.91	7,250.00	-8,088.54	-4,641.81	8,081.24	0.00	0.00	0.00	
16,600.00	90.00	179.91	7,250.00	-8,188.54	-4,641.65	8,181.24	0.00	0.00	0.00	
16,700.00	90.00	179.91	7,250.00	-8,288.54	-4,641.49	8,281.24	0.00	0.00	0.00	
16,800.00	90.00	179.91	7,250.00	-8,388.54	-4,641.33	8,381.24	0.00	0.00	0.00	
16,900.00	90.00	179.91	7,250.00	-8,488.54	-4,641.17	8,481.24	0.00	0.00	0.00	
17,000.00	90.00	179.91	7,250.00	-8,588.54	-4,641.01	8,581.24	0.00	0.00	0.00	
17,100.00	90.00	179.91	7,250.00	-8,688.54	-4,640.84	8,681.24	0.00	0.00	0.00	
17,200.00	90.00	179.91	7,250.00	-8,788.54	-4,640.68	8,781.24	0.00	0.00	0.00	
17,300.00	90.00	179.91	7,250.00	-8,888.54	-4,640.52	8,881.24	0.00	0.00	0.00	
17,400.00	90.00	179.91	7,250.00	-8,988.54	-4,640.36	8,981.24	0.00	0.00	0.00	
17,500.00	90.00	179.91	7,250.00	-9,088.54	-4,640.20	9,081.24	0.00	0.00	0.00	
17,600.00	90.00	179.91	7,250.00	-9,188.54	-4,640.04	9,181.24	0.00	0.00	0.00	
17,700.00	90.00	179.91	7,250.00	-9,288.54	-4,639.88	9,281.24	0.00	0.00	0.00	
17,800.00	90.00	179.91	7,250.00	-9,388.54	-4,639.72	9,381.24	0.00	0.00	0.00	
17,900.00	90.00	179.91	7,250.00	-9,488.54	-4,639.56	9,481.24	0.00	0.00	0.00	
18,000.00	90.00	179.91	7,250.00	-9,588.54	-4,639.40	9,581.24	0.00	0.00	0.00	
18,100.00	90.00	179.91	7,250.00	-9,688.54	-4,639.24	9,681.24	0.00	0.00	0.00	
18,200.00	90.00	179.91	7,250.00	-9,788.54	-4,639.08	9,781.24	0.00	0.00	0.00	
18,300.00	90.00	179.91	7,250.00	-9,888.54	-4,638.92	9,881.24	0.00	0.00	0.00	
18,400.00	90.00	179.91	7,250.00	-9,988.54	-4,638.76	9,981.24	0.00	0.00	0.00	
18,500.00	90.00	179.91	7,250.00	-10,088.54	-4,638.60	10,081.24	0.00	0.00	0.00	
18,600.00	90.00	179.91	7,250.00	-10,188.54	-4,638.44	10,181.24	0.00	0.00	0.00	
18,700.00	90.00	179.91	7,250.00	-10,288.54	-4,638.28	10,281.24	0.00	0.00	0.00	
18,800.00	90.00	179.91	7,250.00	-10,388.54	-4,638.12	10,381.24	0.00	0.00	0.00	
18,800.67	90.00	179.91	7,250.00	-10,389.21	-4,638.12	10,381.91	0.00	0.00	0.00	
BPZ @ 18800.67ft										
18,890.68	90.00	179.91	7,250.00	-10,479.22	-4,637.97	10,471.92	0.00	0.00	0.00	
TD Well @ 18890.68ft										

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well FAWN 2833-01H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 20' @ 5127.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 20' @ 5127.00usft (RIG)
Site:	1N-65W-22 FAWN 2734 & 2833 PAD	North Reference:	True
Well:	FAWN 2833-01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Design #2		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
2,460.22	2,250.00	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)		
201.00	201.00	0.00	0.00	Begin Nudge @ 201.00ft	
2,073.50	1,942.99	-10.10	-590.39	Hold Tangent @ 2073.50ft	
8,127.72	6,749.34	-73.06	-4,271.24	KOP @ 8127.72ft :: DLS = 9°/100'	
9,121.72	7,250.00	-710.27	-4,653.65	End Build/TPZ @ 9121.72ft	
18,800.67	7,250.00	-10,389.21	-4,638.12	BPZ @ 18800.67ft	
18,890.68	7,250.00	-10,479.22	-4,637.97	TD Well @ 18890.68ft	