

VERDAD RESOURCES

WATTENBERG FIELD

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

FAWN 2833-04H

Plan A

Plan: Design #1

Standard Planning Report

30 July, 2022

Project: WATTENBERG FIELD
Site: 1N-65W-22 FAWN 2734 & 2833 PAD
Well: FAWN 2833-04H
Wellbore: Plan A
Design: Design #1

VERDAD RESOURCES

CASING DETAILS

TVD	MD	Name	Size
2250.00	2355.22	9 5/8"	9-5/8

SHL
244' FSL
2286' FWL

LP/TPZ
460' FNL
463' FEL

BPZ
460' FSL
463' FEL

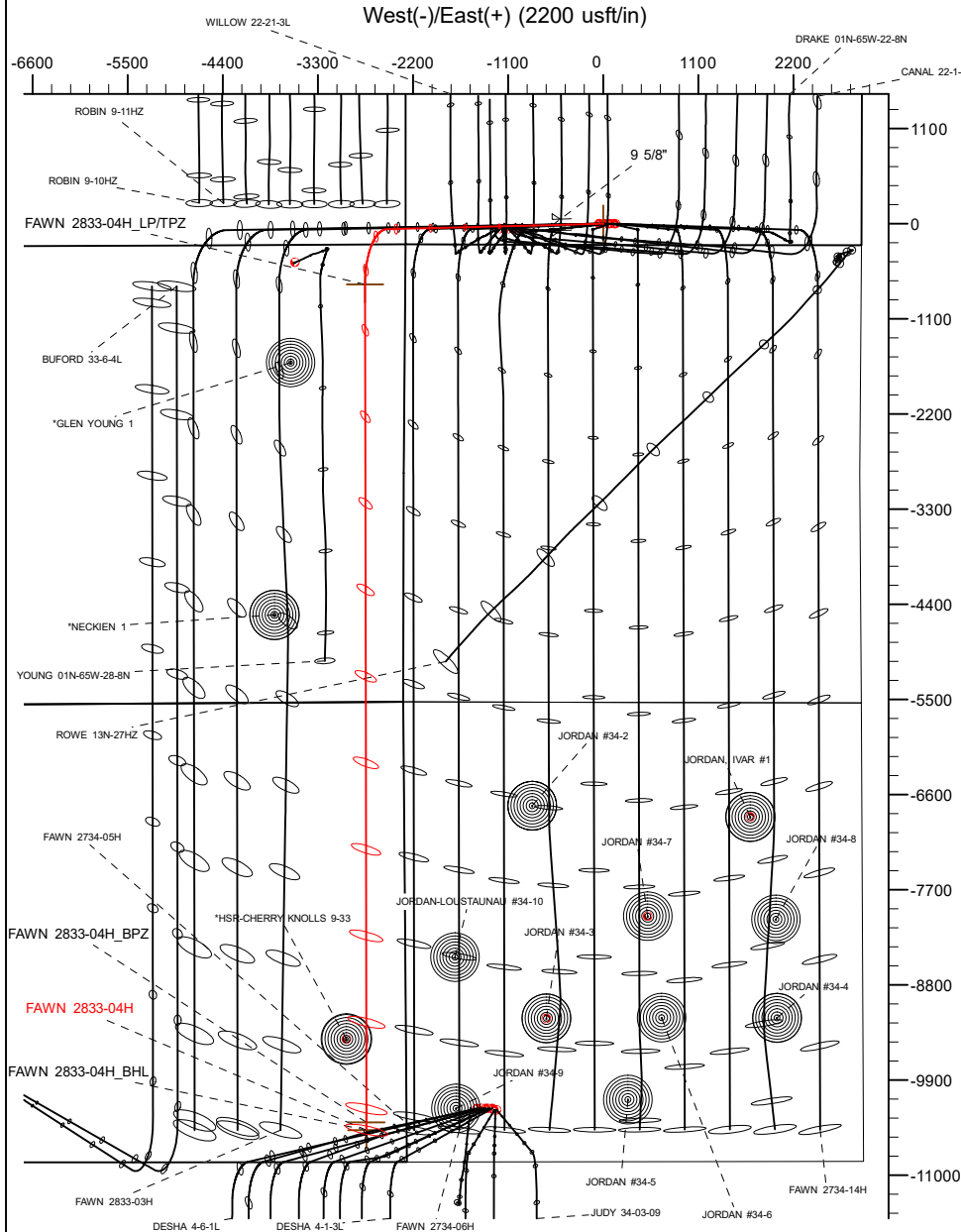
BHL
370' FSL
464' FEL

SECTION DETAILS

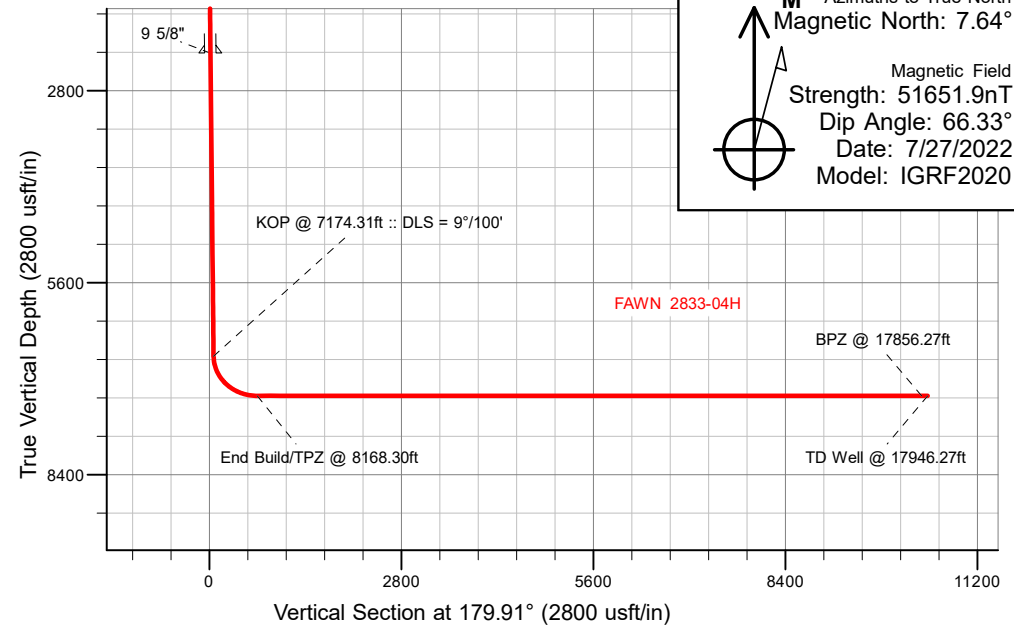
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
301.00	0.00	0.00	301.00	0.00	0.00	0.00	0.00	0.00	
1473.00	23.44	268.55	1440.58	-5.98	-236.33	2.00	268.55	5.61	
7174.31	23.44	268.55	6671.40	-63.37	-2503.52	0.00	0.00	59.44	
8168.30	90.00	179.91	7250.00	-700.36	-2753.31	9.00	-88.75	696.03	
17946.27	90.00	179.91	7250.00	-10478.31	-2737.83	0.00	0.00	10474.00	FAWN 2833-04H_BHL

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	Northing	Easting	Latitude	Longitude
FAWN 2833-04H_SHL	0.00	1255030.46	3237621.91	40.030325	-104.651425
FAWN 2833-04H_LP/TPZ	7250.00	1254303.91	3234875.45	40.028402	-104.661257
FAWN 2833-04H_BPZ	7250.00	1244616.42	3234983.47	40.001807	-104.661199
FAWN 2833-04H_BHL	7250.00	1244526.43	3234984.48	40.001560	-104.661198



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



WELL DETAILS: FAWN 2833-04H

GL = 5107'

RKB = 20' @ 5127.00usft (RIG)

Plan: Design #1 (FAWN 2833-04H/Plan A)

Date: 7/30/2022

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well FAWN 2833-04H
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 2833-04H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Design #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-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 2833-04H				
Well Position	+N/-S	0.00 usft	Northing:	1,255,030.46 usft	Latitude:	40.030325
	+E/-W	0.00 usft	Easting:	3,237,621.91 usft	Longitude:	-104.651426
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft	Ground Level:	5,107.00 usft
Grid Convergence:		0.55 °				

Wellbore	Plan A				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF202013	7/27/2022	7.64	66.33	51,651.92183122

Design	Design #1				
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	7/30/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	2,250.00	Design #1 (Plan A)	ISCWSA MWD	
				Fixed:v2:standard declination	
2	2,250.00	17,946.27	Design #1 (Plan A)	ISCWSA MWD	
				Fixed:v2:standard declination	

Planning Report

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Site:	1N-65W-22 FAWN 2734 & 2833 PAD	North Reference:	True
Well:	FAWN 2833-04H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Design #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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
301.00	0.00	0.00	301.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,473.00	23.44	268.55	1,440.58	-5.98	-236.33	2.00	2.00	0.00	268.55	
7,174.31	23.44	268.55	6,671.40	-63.37	-2,503.52	0.00	0.00	0.00	0.00	
8,168.30	90.00	179.91	7,250.00	-700.36	-2,753.31	9.00	6.70	-8.92	-88.75	
17,946.27	90.00	179.91	7,250.00	-10,478.31	-2,737.83	0.00	0.00	0.00	0.00	FAWN 2833-04H_BHI

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well FAWN 2833-04H
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 2833-04H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Design #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
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
301.00	0.00	0.00	301.00	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 301.00ft									
400.00	1.98	268.55	399.98	-0.04	-1.71	0.04	2.00	2.00	0.00
500.00	3.98	268.55	499.84	-0.17	-6.91	0.16	2.00	2.00	0.00
600.00	5.98	268.55	599.46	-0.39	-15.58	0.37	2.00	2.00	0.00
700.00	7.98	268.55	698.71	-0.70	-27.73	0.66	2.00	2.00	0.00
800.00	9.98	268.55	797.48	-1.10	-43.34	1.03	2.00	2.00	0.00
900.00	11.98	268.55	895.64	-1.58	-62.37	1.48	2.00	2.00	0.00
1,000.00	13.98	268.55	993.08	-2.15	-84.83	2.01	2.00	2.00	0.00
1,100.00	15.98	268.55	1,089.68	-2.80	-110.67	2.63	2.00	2.00	0.00
1,200.00	17.98	268.55	1,185.32	-3.54	-139.86	3.32	2.00	2.00	0.00
1,300.00	19.98	268.55	1,279.88	-4.36	-172.37	4.09	2.00	2.00	0.00
1,400.00	21.98	268.55	1,373.24	-5.27	-208.16	4.94	2.00	2.00	0.00
1,473.00	23.44	268.55	1,440.58	-5.98	-236.33	5.61	2.00	2.00	0.00
Hold Tangent @ 1473.00ft									
1,500.00	23.44	268.55	1,465.35	-6.25	-247.07	5.87	0.00	0.00	0.00
1,600.00	23.44	268.55	1,557.10	-7.26	-286.84	6.81	0.00	0.00	0.00
1,700.00	23.44	268.55	1,648.85	-8.27	-326.60	7.75	0.00	0.00	0.00
1,800.00	23.44	268.55	1,740.60	-9.27	-366.37	8.70	0.00	0.00	0.00
1,900.00	23.44	268.55	1,832.34	-10.28	-406.14	9.64	0.00	0.00	0.00
2,000.00	23.44	268.55	1,924.09	-11.29	-445.90	10.59	0.00	0.00	0.00
2,100.00	23.44	268.55	2,015.84	-12.29	-485.67	11.53	0.00	0.00	0.00
2,200.00	23.44	268.55	2,107.59	-13.30	-525.43	12.47	0.00	0.00	0.00
2,300.00	23.44	268.55	2,199.33	-14.31	-565.20	13.42	0.00	0.00	0.00
2,355.22	23.44	268.55	2,250.00	-14.86	-587.16	13.94	0.00	0.00	0.00
9 5/8"									
2,400.00	23.44	268.55	2,291.08	-15.31	-604.97	14.36	0.00	0.00	0.00
2,500.00	23.44	268.55	2,382.83	-16.32	-644.73	15.31	0.00	0.00	0.00
2,600.00	23.44	268.55	2,474.58	-17.33	-684.50	16.25	0.00	0.00	0.00
2,700.00	23.44	268.55	2,566.32	-18.33	-724.27	17.20	0.00	0.00	0.00
2,800.00	23.44	268.55	2,658.07	-19.34	-764.03	18.14	0.00	0.00	0.00
2,900.00	23.44	268.55	2,749.82	-20.35	-803.80	19.08	0.00	0.00	0.00
3,000.00	23.44	268.55	2,841.57	-21.35	-843.56	20.03	0.00	0.00	0.00
3,100.00	23.44	268.55	2,933.32	-22.36	-883.33	20.97	0.00	0.00	0.00
3,200.00	23.44	268.55	3,025.06	-23.37	-923.10	21.92	0.00	0.00	0.00
3,300.00	23.44	268.55	3,116.81	-24.37	-962.86	22.86	0.00	0.00	0.00
3,400.00	23.44	268.55	3,208.56	-25.38	-1,002.63	23.80	0.00	0.00	0.00
3,500.00	23.44	268.55	3,300.31	-26.39	-1,042.39	24.75	0.00	0.00	0.00
3,600.00	23.44	268.55	3,392.05	-27.39	-1,082.16	25.69	0.00	0.00	0.00
3,700.00	23.44	268.55	3,483.80	-28.40	-1,121.93	26.64	0.00	0.00	0.00
3,800.00	23.44	268.55	3,575.55	-29.41	-1,161.69	27.58	0.00	0.00	0.00
3,900.00	23.44	268.55	3,667.30	-30.41	-1,201.46	28.52	0.00	0.00	0.00
4,000.00	23.44	268.55	3,759.04	-31.42	-1,241.22	29.47	0.00	0.00	0.00
4,100.00	23.44	268.55	3,850.79	-32.43	-1,280.99	30.41	0.00	0.00	0.00
4,200.00	23.44	268.55	3,942.54	-33.43	-1,320.76	31.36	0.00	0.00	0.00
4,300.00	23.44	268.55	4,034.29	-34.44	-1,360.52	32.30	0.00	0.00	0.00
4,400.00	23.44	268.55	4,126.04	-35.45	-1,400.29	33.25	0.00	0.00	0.00
4,500.00	23.44	268.55	4,217.78	-36.45	-1,440.06	34.19	0.00	0.00	0.00
4,600.00	23.44	268.55	4,309.53	-37.46	-1,479.82	35.13	0.00	0.00	0.00
4,700.00	23.44	268.55	4,401.28	-38.46	-1,519.59	36.08	0.00	0.00	0.00

Planning Report

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Project:	WATTENBERG FIELD	MD Reference:	RKB = 20' @ 5127.00usft (RIG)
Site:	1N-65W-22 FAWN 2734 & 2833 PAD	North Reference:	True
Well:	FAWN 2833-04H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Design #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)
4,800.00	23.44	268.55	4,493.03	-39.47	-1,559.35	37.02	0.00	0.00	0.00
4,900.00	23.44	268.55	4,584.77	-40.48	-1,599.12	37.97	0.00	0.00	0.00
5,000.00	23.44	268.55	4,676.52	-41.48	-1,638.89	38.91	0.00	0.00	0.00
5,100.00	23.44	268.55	4,768.27	-42.49	-1,678.65	39.85	0.00	0.00	0.00
5,200.00	23.44	268.55	4,860.02	-43.50	-1,718.42	40.80	0.00	0.00	0.00
5,300.00	23.44	268.55	4,951.77	-44.50	-1,758.18	41.74	0.00	0.00	0.00
5,400.00	23.44	268.55	5,043.51	-45.51	-1,797.95	42.69	0.00	0.00	0.00
5,500.00	23.44	268.55	5,135.26	-46.52	-1,837.72	43.63	0.00	0.00	0.00
5,600.00	23.44	268.55	5,227.01	-47.52	-1,877.48	44.57	0.00	0.00	0.00
5,700.00	23.44	268.55	5,318.76	-48.53	-1,917.25	45.52	0.00	0.00	0.00
5,800.00	23.44	268.55	5,410.50	-49.54	-1,957.01	46.46	0.00	0.00	0.00
5,900.00	23.44	268.55	5,502.25	-50.54	-1,996.78	47.41	0.00	0.00	0.00
6,000.00	23.44	268.55	5,594.00	-51.55	-2,036.55	48.35	0.00	0.00	0.00
6,100.00	23.44	268.55	5,685.75	-52.56	-2,076.31	49.30	0.00	0.00	0.00
6,200.00	23.44	268.55	5,777.49	-53.56	-2,116.08	50.24	0.00	0.00	0.00
6,300.00	23.44	268.55	5,869.24	-54.57	-2,155.85	51.18	0.00	0.00	0.00
6,400.00	23.44	268.55	5,960.99	-55.58	-2,195.61	52.13	0.00	0.00	0.00
6,500.00	23.44	268.55	6,052.74	-56.58	-2,235.38	53.07	0.00	0.00	0.00
6,600.00	23.44	268.55	6,144.49	-57.59	-2,275.14	54.02	0.00	0.00	0.00
6,700.00	23.44	268.55	6,236.23	-58.60	-2,314.91	54.96	0.00	0.00	0.00
6,800.00	23.44	268.55	6,327.98	-59.60	-2,354.68	55.90	0.00	0.00	0.00
6,900.00	23.44	268.55	6,419.73	-60.61	-2,394.44	56.85	0.00	0.00	0.00
7,000.00	23.44	268.55	6,511.48	-61.62	-2,434.21	57.79	0.00	0.00	0.00
7,100.00	23.44	268.55	6,603.22	-62.62	-2,473.97	58.74	0.00	0.00	0.00
7,174.31	23.44	268.55	6,671.40	-63.37	-2,503.52	59.44	0.00	0.00	0.00
KOP @ 7174.31ft :: DLS = 9°/100'									
7,200.00	23.60	262.77	6,694.96	-64.15	-2,513.73	60.20	9.00	0.61	-22.51
7,250.00	24.50	251.93	6,740.64	-68.62	-2,533.53	64.65	9.00	1.80	-21.67
7,300.00	26.11	242.09	6,785.86	-76.99	-2,553.12	72.98	9.00	3.22	-19.69
7,350.00	28.31	233.49	6,830.35	-89.21	-2,572.38	85.16	9.00	4.40	-17.20
7,400.00	30.97	226.14	6,873.81	-105.18	-2,591.19	101.11	9.00	5.33	-14.69
7,450.00	33.99	219.92	6,916.00	-124.82	-2,609.45	120.73	9.00	6.03	-12.45
7,500.00	37.27	214.63	6,956.64	-148.01	-2,627.03	143.89	9.00	6.57	-10.58
7,550.00	40.76	210.10	6,995.50	-174.60	-2,643.83	170.45	9.00	6.97	-9.05
7,600.00	44.40	206.18	7,032.31	-204.44	-2,659.74	200.26	9.00	7.28	-7.83
7,650.00	48.15	202.75	7,066.87	-237.32	-2,674.67	233.12	9.00	7.51	-6.87
7,700.00	52.00	199.71	7,098.96	-273.06	-2,688.52	268.84	9.00	7.69	-6.09
7,750.00	55.92	196.96	7,128.38	-311.43	-2,701.21	307.19	9.00	7.83	-5.48
7,800.00	59.89	194.47	7,154.95	-352.19	-2,712.66	347.93	9.00	7.95	-4.99
7,850.00	63.90	192.17	7,178.50	-395.10	-2,722.80	390.83	9.00	8.03	-4.60
7,900.00	67.95	190.02	7,198.89	-439.89	-2,731.57	435.60	9.00	8.10	-4.30
7,950.00	72.03	187.99	7,215.99	-486.29	-2,738.91	481.98	9.00	8.15	-4.06
8,000.00	76.13	186.05	7,229.71	-534.00	-2,744.77	529.68	9.00	8.19	-3.87
8,050.00	80.24	184.19	7,239.94	-582.73	-2,749.13	578.41	9.00	8.22	-3.74
8,100.00	84.36	182.36	7,246.64	-632.18	-2,751.96	627.86	9.00	8.24	-3.65
8,150.00	88.49	180.56	7,249.76	-682.06	-2,753.23	677.73	9.00	8.25	-3.59
8,168.30	90.00	179.91	7,250.00	-700.36	-2,753.31	696.03	9.00	8.26	-3.58
End Build/TPZ @ 8168.30ft									
8,200.00	90.00	179.91	7,250.00	-732.06	-2,753.26	727.73	0.00	0.00	0.00
8,300.00	90.00	179.91	7,250.00	-832.06	-2,753.10	827.73	0.00	0.00	0.00
8,400.00	90.00	179.91	7,250.00	-932.06	-2,752.94	927.73	0.00	0.00	0.00
8,500.00	90.00	179.91	7,250.00	-1,032.06	-2,752.78	1,027.73	0.00	0.00	0.00
8,600.00	90.00	179.91	7,250.00	-1,132.06	-2,752.62	1,127.73	0.00	0.00	0.00
8,700.00	90.00	179.91	7,250.00	-1,232.06	-2,752.47	1,227.73	0.00	0.00	0.00

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 2833-04H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Design #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)	
8,800.00	90.00	179.91	7,250.00	-1,332.06	-2,752.31	1,327.73	0.00	0.00	0.00	
8,900.00	90.00	179.91	7,250.00	-1,432.06	-2,752.15	1,427.73	0.00	0.00	0.00	
9,000.00	90.00	179.91	7,250.00	-1,532.05	-2,751.99	1,527.73	0.00	0.00	0.00	
9,100.00	90.00	179.91	7,250.00	-1,632.05	-2,751.83	1,627.73	0.00	0.00	0.00	
9,200.00	90.00	179.91	7,250.00	-1,732.05	-2,751.67	1,727.73	0.00	0.00	0.00	
9,300.00	90.00	179.91	7,250.00	-1,832.05	-2,751.52	1,827.73	0.00	0.00	0.00	
9,400.00	90.00	179.91	7,250.00	-1,932.05	-2,751.36	1,927.73	0.00	0.00	0.00	
9,500.00	90.00	179.91	7,250.00	-2,032.05	-2,751.20	2,027.73	0.00	0.00	0.00	
9,600.00	90.00	179.91	7,250.00	-2,132.05	-2,751.04	2,127.73	0.00	0.00	0.00	
9,700.00	90.00	179.91	7,250.00	-2,232.05	-2,750.88	2,227.73	0.00	0.00	0.00	
9,800.00	90.00	179.91	7,250.00	-2,332.05	-2,750.72	2,327.73	0.00	0.00	0.00	
9,900.00	90.00	179.91	7,250.00	-2,432.05	-2,750.57	2,427.73	0.00	0.00	0.00	
10,000.00	90.00	179.91	7,250.00	-2,532.05	-2,750.41	2,527.73	0.00	0.00	0.00	
10,100.00	90.00	179.91	7,250.00	-2,632.05	-2,750.25	2,627.73	0.00	0.00	0.00	
10,200.00	90.00	179.91	7,250.00	-2,732.05	-2,750.09	2,727.73	0.00	0.00	0.00	
10,300.00	90.00	179.91	7,250.00	-2,832.05	-2,749.93	2,827.73	0.00	0.00	0.00	
10,400.00	90.00	179.91	7,250.00	-2,932.05	-2,749.77	2,927.73	0.00	0.00	0.00	
10,500.00	90.00	179.91	7,250.00	-3,032.05	-2,749.62	3,027.73	0.00	0.00	0.00	
10,600.00	90.00	179.91	7,250.00	-3,132.05	-2,749.46	3,127.73	0.00	0.00	0.00	
10,700.00	90.00	179.91	7,250.00	-3,232.05	-2,749.30	3,227.73	0.00	0.00	0.00	
10,800.00	90.00	179.91	7,250.00	-3,332.05	-2,749.14	3,327.73	0.00	0.00	0.00	
10,900.00	90.00	179.91	7,250.00	-3,432.05	-2,748.98	3,427.73	0.00	0.00	0.00	
11,000.00	90.00	179.91	7,250.00	-3,532.05	-2,748.82	3,527.73	0.00	0.00	0.00	
11,100.00	90.00	179.91	7,250.00	-3,632.05	-2,748.67	3,627.73	0.00	0.00	0.00	
11,200.00	90.00	179.91	7,250.00	-3,732.05	-2,748.51	3,727.73	0.00	0.00	0.00	
11,300.00	90.00	179.91	7,250.00	-3,832.05	-2,748.35	3,827.73	0.00	0.00	0.00	
11,400.00	90.00	179.91	7,250.00	-3,932.05	-2,748.19	3,927.73	0.00	0.00	0.00	
11,500.00	90.00	179.91	7,250.00	-4,032.05	-2,748.03	4,027.73	0.00	0.00	0.00	
11,600.00	90.00	179.91	7,250.00	-4,132.05	-2,747.87	4,127.73	0.00	0.00	0.00	
11,700.00	90.00	179.91	7,250.00	-4,232.05	-2,747.72	4,227.73	0.00	0.00	0.00	
11,800.00	90.00	179.91	7,250.00	-4,332.05	-2,747.56	4,327.73	0.00	0.00	0.00	
11,900.00	90.00	179.91	7,250.00	-4,432.05	-2,747.40	4,427.73	0.00	0.00	0.00	
12,000.00	90.00	179.91	7,250.00	-4,532.05	-2,747.24	4,527.73	0.00	0.00	0.00	
12,100.00	90.00	179.91	7,250.00	-4,632.05	-2,747.08	4,627.73	0.00	0.00	0.00	
12,200.00	90.00	179.91	7,250.00	-4,732.05	-2,746.92	4,727.73	0.00	0.00	0.00	
12,300.00	90.00	179.91	7,250.00	-4,832.05	-2,746.77	4,827.73	0.00	0.00	0.00	
12,400.00	90.00	179.91	7,250.00	-4,932.05	-2,746.61	4,927.73	0.00	0.00	0.00	
12,500.00	90.00	179.91	7,250.00	-5,032.05	-2,746.45	5,027.73	0.00	0.00	0.00	
12,600.00	90.00	179.91	7,250.00	-5,132.05	-2,746.29	5,127.73	0.00	0.00	0.00	
12,700.00	90.00	179.91	7,250.00	-5,232.05	-2,746.13	5,227.73	0.00	0.00	0.00	
12,800.00	90.00	179.91	7,250.00	-5,332.05	-2,745.97	5,327.73	0.00	0.00	0.00	
12,900.00	90.00	179.91	7,250.00	-5,432.05	-2,745.82	5,427.73	0.00	0.00	0.00	
13,000.00	90.00	179.91	7,250.00	-5,532.05	-2,745.66	5,527.73	0.00	0.00	0.00	
13,100.00	90.00	179.91	7,250.00	-5,632.05	-2,745.50	5,627.73	0.00	0.00	0.00	
13,200.00	90.00	179.91	7,250.00	-5,732.05	-2,745.34	5,727.73	0.00	0.00	0.00	
13,300.00	90.00	179.91	7,250.00	-5,832.05	-2,745.18	5,827.73	0.00	0.00	0.00	
13,400.00	90.00	179.91	7,250.00	-5,932.05	-2,745.02	5,927.73	0.00	0.00	0.00	
13,500.00	90.00	179.91	7,250.00	-6,032.05	-2,744.87	6,027.73	0.00	0.00	0.00	
13,600.00	90.00	179.91	7,250.00	-6,132.05	-2,744.71	6,127.73	0.00	0.00	0.00	
13,700.00	90.00	179.91	7,250.00	-6,232.05	-2,744.55	6,227.73	0.00	0.00	0.00	
13,800.00	90.00	179.91	7,250.00	-6,332.05	-2,744.39	6,327.73	0.00	0.00	0.00	
13,900.00	90.00	179.91	7,250.00	-6,432.05	-2,744.23	6,427.73	0.00	0.00	0.00	
14,000.00	90.00	179.91	7,250.00	-6,532.05	-2,744.07	6,527.73	0.00	0.00	0.00	
14,100.00	90.00	179.91	7,250.00	-6,632.05	-2,743.92	6,627.73	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well FAWN 2833-04H
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 2833-04H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Design #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)	
14,200.00	90.00	179.91	7,250.00	-6,732.05	-2,743.76	6,727.73	0.00	0.00	0.00	
14,300.00	90.00	179.91	7,250.00	-6,832.05	-2,743.60	6,827.73	0.00	0.00	0.00	
14,400.00	90.00	179.91	7,250.00	-6,932.05	-2,743.44	6,927.73	0.00	0.00	0.00	
14,500.00	90.00	179.91	7,250.00	-7,032.05	-2,743.28	7,027.73	0.00	0.00	0.00	
14,600.00	90.00	179.91	7,250.00	-7,132.05	-2,743.12	7,127.73	0.00	0.00	0.00	
14,700.00	90.00	179.91	7,250.00	-7,232.05	-2,742.97	7,227.73	0.00	0.00	0.00	
14,800.00	90.00	179.91	7,250.00	-7,332.05	-2,742.81	7,327.73	0.00	0.00	0.00	
14,900.00	90.00	179.91	7,250.00	-7,432.05	-2,742.65	7,427.73	0.00	0.00	0.00	
15,000.00	90.00	179.91	7,250.00	-7,532.05	-2,742.49	7,527.73	0.00	0.00	0.00	
15,100.00	90.00	179.91	7,250.00	-7,632.05	-2,742.33	7,627.73	0.00	0.00	0.00	
15,200.00	90.00	179.91	7,250.00	-7,732.05	-2,742.17	7,727.73	0.00	0.00	0.00	
15,300.00	90.00	179.91	7,250.00	-7,832.05	-2,742.02	7,827.73	0.00	0.00	0.00	
15,400.00	90.00	179.91	7,250.00	-7,932.05	-2,741.86	7,927.73	0.00	0.00	0.00	
15,500.00	90.00	179.91	7,250.00	-8,032.05	-2,741.70	8,027.73	0.00	0.00	0.00	
15,600.00	90.00	179.91	7,250.00	-8,132.05	-2,741.54	8,127.73	0.00	0.00	0.00	
15,700.00	90.00	179.91	7,250.00	-8,232.05	-2,741.38	8,227.73	0.00	0.00	0.00	
15,800.00	90.00	179.91	7,250.00	-8,332.05	-2,741.22	8,327.73	0.00	0.00	0.00	
15,900.00	90.00	179.91	7,250.00	-8,432.05	-2,741.07	8,427.73	0.00	0.00	0.00	
16,000.00	90.00	179.91	7,250.00	-8,532.05	-2,740.91	8,527.73	0.00	0.00	0.00	
16,100.00	90.00	179.91	7,250.00	-8,632.05	-2,740.75	8,627.73	0.00	0.00	0.00	
16,200.00	90.00	179.91	7,250.00	-8,732.05	-2,740.59	8,727.73	0.00	0.00	0.00	
16,300.00	90.00	179.91	7,250.00	-8,832.05	-2,740.43	8,827.73	0.00	0.00	0.00	
16,400.00	90.00	179.91	7,250.00	-8,932.05	-2,740.27	8,927.73	0.00	0.00	0.00	
16,500.00	90.00	179.91	7,250.00	-9,032.05	-2,740.12	9,027.73	0.00	0.00	0.00	
16,600.00	90.00	179.91	7,250.00	-9,132.05	-2,739.96	9,127.73	0.00	0.00	0.00	
16,700.00	90.00	179.91	7,250.00	-9,232.05	-2,739.80	9,227.73	0.00	0.00	0.00	
16,800.00	90.00	179.91	7,250.00	-9,332.05	-2,739.64	9,327.73	0.00	0.00	0.00	
16,900.00	90.00	179.91	7,250.00	-9,432.05	-2,739.48	9,427.73	0.00	0.00	0.00	
17,000.00	90.00	179.91	7,250.00	-9,532.05	-2,739.32	9,527.73	0.00	0.00	0.00	
17,100.00	90.00	179.91	7,250.00	-9,632.05	-2,739.17	9,627.73	0.00	0.00	0.00	
17,200.00	90.00	179.91	7,250.00	-9,732.04	-2,739.01	9,727.73	0.00	0.00	0.00	
17,300.00	90.00	179.91	7,250.00	-9,832.04	-2,738.85	9,827.73	0.00	0.00	0.00	
17,400.00	90.00	179.91	7,250.00	-9,932.04	-2,738.69	9,927.73	0.00	0.00	0.00	
17,500.00	90.00	179.91	7,250.00	-10,032.04	-2,738.53	10,027.73	0.00	0.00	0.00	
17,600.00	90.00	179.91	7,250.00	-10,132.04	-2,738.37	10,127.73	0.00	0.00	0.00	
17,700.00	90.00	179.91	7,250.00	-10,232.04	-2,738.22	10,227.73	0.00	0.00	0.00	
17,800.00	90.00	179.91	7,250.00	-10,332.04	-2,738.06	10,327.73	0.00	0.00	0.00	
17,856.27	90.00	179.91	7,250.00	-10,388.31	-2,737.97	10,384.00	0.00	0.00	0.00	
BPZ @ 17856.27ft										
17,900.00	90.00	179.91	7,250.00	-10,432.04	-2,737.90	10,427.73	0.00	0.00	0.00	
17,946.27	90.00	179.91	7,250.00	-10,478.31	-2,737.83	10,474.00	0.00	0.00	0.00	
TD Well @ 17946.27ft										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
2,355.22	2,250.00	9 5/8"		9-5/8	13-1/2

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well FAWN 2833-04H
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 2833-04H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Design #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
301.00	301.00	0.00	0.00	Begin Nudge @ 301.00ft
1,473.00	1,440.58	-5.98	-236.33	Hold Tangent @ 1473.00ft
7,174.31	6,671.40	-63.37	-2,503.52	KOP @ 7174.31ft :: DLS = 9°/100'
8,168.30	7,250.00	-700.36	-2,753.31	End Build/TPZ @ 8168.30ft
17,856.27	7,250.00	-10,388.31	-2,737.97	BPZ @ 17856.27ft
17,946.27	7,250.00	-10,478.31	-2,737.83	TD Well @ 17946.27ft