

VERDAD RESOURCES

WATTENBERG FIELD

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

FAWN 2833-04H

Plan B

Plan: Design #1

Standard Planning Report

20 December, 2022

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

VERDAD RESOURCES

CASING DETAILS

TVD	MD	Name	Size
2250.00	2349.64	9 5/8"	9-5/8

SHL
244' FSL
2286' FWL

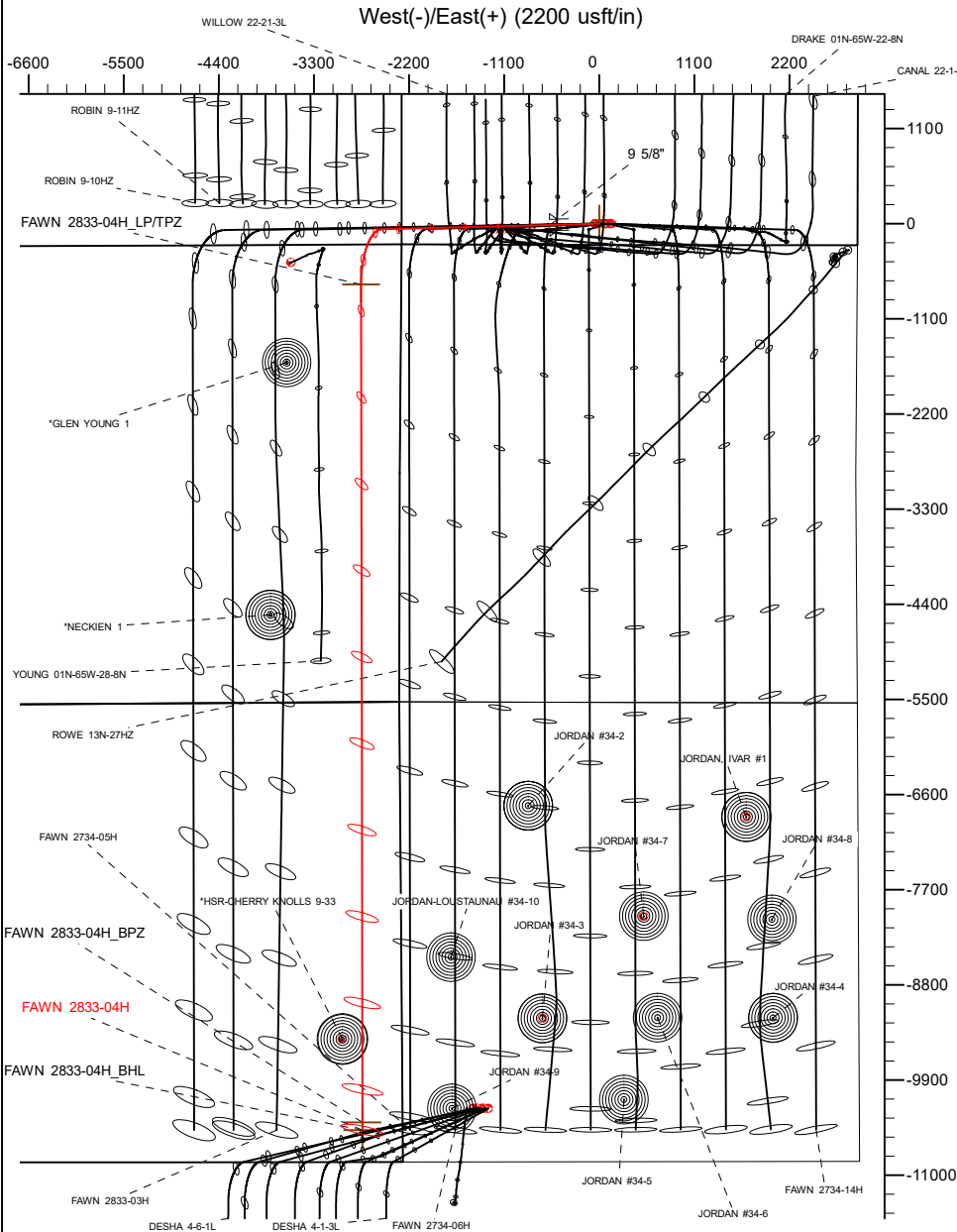
LP/TPZ
460' FNL
463' FEL

BPZ
460' FSL
463' FEL

BHL
370' FSL
464' FEL

SECTION DETAILS

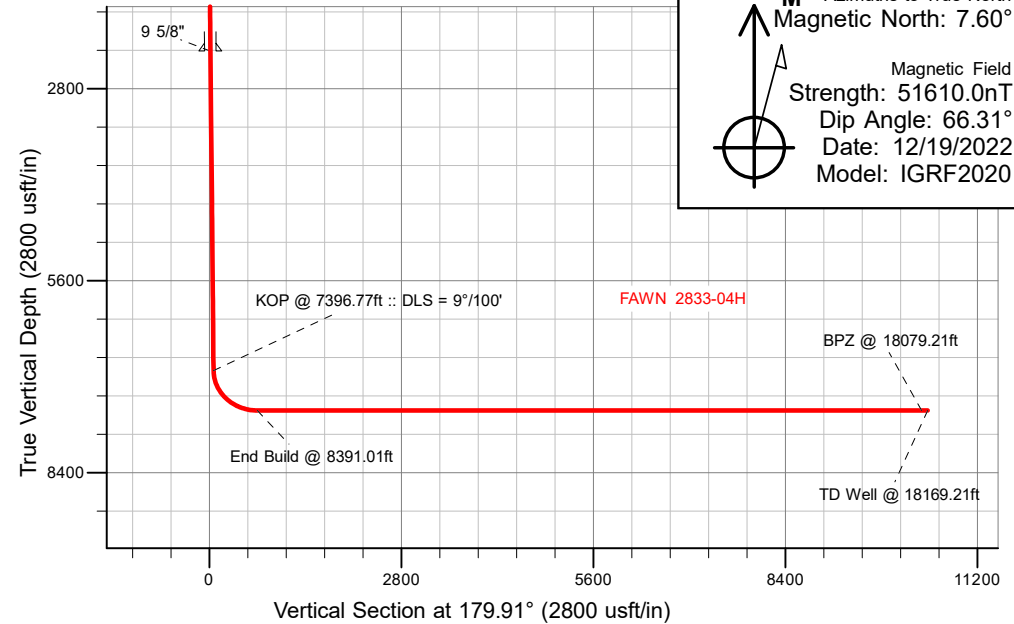
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSetc	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.70	0.00	0.00	300.70	0.00	0.00	0.00	0.00	0.00	
1430.70	22.60	268.56	1401.63	-5.53	-219.92	2.00	268.56	5.18	
7396.77	22.60	268.56	6909.56	-63.14	-2511.93	0.00	0.00	59.20	
8391.01	90.00	179.91	7492.00	-700.12	-2753.30	9.00	-88.75	695.80	
18169.21	90.00	179.91	7492.00-10478.31	-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	7492.00	1254303.91	3234875.45	40.028402	-104.661257
FAWN 2833-04H_BPZ	7492.00	1244616.42	3234983.47	40.001807	-104.661199
FAWN 2833-04H_BHL	7492.00	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 B)

Date: 12/20/2022

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 B		
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 B				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF202013	12/19/2022	7.60	66.31	51,609.99651118

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	12/19/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	2,250.00 Design #1 (Plan B)	ISCWSA MWD	Fixed:v2:standard declination	
2	2,250.00	18,169.21 Design #1 (Plan B)	ISCWSA MWD	Fixed:v2:standard declination	

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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 B		
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	
300.70	0.00	0.00	300.70	0.00	0.00	0.00	0.00	0.00	0.00	
1,430.70	22.60	268.56	1,401.63	-5.53	-219.92	2.00	2.00	0.00	268.56	
7,396.77	22.60	268.56	6,909.56	-63.14	-2,511.93	0.00	0.00	0.00	0.00	
8,391.01	90.00	179.91	7,492.00	-700.12	-2,753.30	9.00	6.78	-8.92	-88.75	
18,169.21	90.00	179.91	7,492.00	-10,478.31	-2,737.83	0.00	0.00	0.00	0.00	FAWN 2833-04H_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 2833-04H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
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	
300.70	0.00	0.00	300.70	0.00	0.00	0.00	0.00	0.00	0.00	
Begin Nudge @ 300.70ft										
400.00	1.99	268.56	399.98	-0.04	-1.72	0.04	2.00	2.00	0.00	
500.00	3.99	268.56	499.84	-0.17	-6.93	0.16	2.00	2.00	0.00	
600.00	5.99	268.56	599.46	-0.39	-15.62	0.37	2.00	2.00	0.00	
700.00	7.99	268.56	698.71	-0.70	-27.77	0.65	2.00	2.00	0.00	
800.00	9.99	268.56	797.48	-1.09	-43.39	1.02	2.00	2.00	0.00	
900.00	11.99	268.56	895.64	-1.57	-62.44	1.47	2.00	2.00	0.00	
1,000.00	13.99	268.56	993.08	-2.13	-84.90	2.00	2.00	2.00	0.00	
1,100.00	15.99	268.56	1,089.67	-2.78	-110.75	2.61	2.00	2.00	0.00	
1,200.00	17.99	268.56	1,185.30	-3.52	-139.95	3.30	2.00	2.00	0.00	
1,300.00	19.99	268.56	1,279.86	-4.34	-172.47	4.06	2.00	2.00	0.00	
1,400.00	21.99	268.56	1,373.22	-5.24	-208.27	4.91	2.00	2.00	0.00	
1,430.70	22.60	268.56	1,401.63	-5.53	-219.92	5.18	2.00	2.00	0.00	
Hold Tangent @ 1430.70ft										
1,500.00	22.60	268.56	1,465.60	-6.20	-246.54	5.81	0.00	0.00	0.00	
1,600.00	22.60	268.56	1,557.92	-7.16	-284.96	6.72	0.00	0.00	0.00	
1,700.00	22.60	268.56	1,650.25	-8.13	-323.38	7.62	0.00	0.00	0.00	
1,800.00	22.60	268.56	1,742.57	-9.09	-361.79	8.53	0.00	0.00	0.00	
1,900.00	22.60	268.56	1,834.89	-10.06	-400.21	9.43	0.00	0.00	0.00	
2,000.00	22.60	268.56	1,927.21	-11.03	-438.63	10.34	0.00	0.00	0.00	
2,100.00	22.60	268.56	2,019.53	-11.99	-477.04	11.24	0.00	0.00	0.00	
2,200.00	22.60	268.56	2,111.85	-12.96	-515.46	12.15	0.00	0.00	0.00	
2,300.00	22.60	268.56	2,204.17	-13.92	-553.88	13.05	0.00	0.00	0.00	
2,349.64	22.60	268.56	2,250.00	-14.40	-572.95	13.50	0.00	0.00	0.00	
9 5/8"										
2,400.00	22.60	268.56	2,296.49	-14.89	-592.30	13.96	0.00	0.00	0.00	
2,500.00	22.60	268.56	2,388.81	-15.85	-630.71	14.86	0.00	0.00	0.00	
2,600.00	22.60	268.56	2,481.13	-16.82	-669.13	15.77	0.00	0.00	0.00	
2,700.00	22.60	268.56	2,573.46	-17.79	-707.55	16.67	0.00	0.00	0.00	
2,800.00	22.60	268.56	2,665.78	-18.75	-745.97	17.58	0.00	0.00	0.00	
2,900.00	22.60	268.56	2,758.10	-19.72	-784.38	18.49	0.00	0.00	0.00	
3,000.00	22.60	268.56	2,850.42	-20.68	-822.80	19.39	0.00	0.00	0.00	
3,100.00	22.60	268.56	2,942.74	-21.65	-861.22	20.30	0.00	0.00	0.00	
3,200.00	22.60	268.56	3,035.06	-22.62	-899.64	21.20	0.00	0.00	0.00	
3,300.00	22.60	268.56	3,127.38	-23.58	-938.05	22.11	0.00	0.00	0.00	
3,400.00	22.60	268.56	3,219.70	-24.55	-976.47	23.01	0.00	0.00	0.00	
3,500.00	22.60	268.56	3,312.02	-25.51	-1,014.89	23.92	0.00	0.00	0.00	
3,600.00	22.60	268.56	3,404.35	-26.48	-1,053.31	24.82	0.00	0.00	0.00	
3,700.00	22.60	268.56	3,496.67	-27.44	-1,091.72	25.73	0.00	0.00	0.00	
3,800.00	22.60	268.56	3,588.99	-28.41	-1,130.14	26.63	0.00	0.00	0.00	
3,900.00	22.60	268.56	3,681.31	-29.38	-1,168.56	27.54	0.00	0.00	0.00	
4,000.00	22.60	268.56	3,773.63	-30.34	-1,206.98	28.45	0.00	0.00	0.00	
4,100.00	22.60	268.56	3,865.95	-31.31	-1,245.39	29.35	0.00	0.00	0.00	
4,200.00	22.60	268.56	3,958.27	-32.27	-1,283.81	30.26	0.00	0.00	0.00	
4,300.00	22.60	268.56	4,050.59	-33.24	-1,322.23	31.16	0.00	0.00	0.00	
4,400.00	22.60	268.56	4,142.91	-34.20	-1,360.64	32.07	0.00	0.00	0.00	
4,500.00	22.60	268.56	4,235.23	-35.17	-1,399.06	32.97	0.00	0.00	0.00	
4,600.00	22.60	268.56	4,327.56	-36.14	-1,437.48	33.88	0.00	0.00	0.00	
4,700.00	22.60	268.56	4,419.88	-37.10	-1,475.90	34.78	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 B		
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	22.60	268.56	4,512.20	-38.07	-1,514.31	35.69	0.00	0.00	0.00	
4,900.00	22.60	268.56	4,604.52	-39.03	-1,552.73	36.59	0.00	0.00	0.00	
5,000.00	22.60	268.56	4,696.84	-40.00	-1,591.15	37.50	0.00	0.00	0.00	
5,100.00	22.60	268.56	4,789.16	-40.96	-1,629.57	38.40	0.00	0.00	0.00	
5,200.00	22.60	268.56	4,881.48	-41.93	-1,667.98	39.31	0.00	0.00	0.00	
5,300.00	22.60	268.56	4,973.80	-42.90	-1,706.40	40.22	0.00	0.00	0.00	
5,400.00	22.60	268.56	5,066.12	-43.86	-1,744.82	41.12	0.00	0.00	0.00	
5,500.00	22.60	268.56	5,158.44	-44.83	-1,783.24	42.03	0.00	0.00	0.00	
5,600.00	22.60	268.56	5,250.77	-45.79	-1,821.65	42.93	0.00	0.00	0.00	
5,700.00	22.60	268.56	5,343.09	-46.76	-1,860.07	43.84	0.00	0.00	0.00	
5,800.00	22.60	268.56	5,435.41	-47.72	-1,898.49	44.74	0.00	0.00	0.00	
5,900.00	22.60	268.56	5,527.73	-48.69	-1,936.91	45.65	0.00	0.00	0.00	
6,000.00	22.60	268.56	5,620.05	-49.66	-1,975.32	46.55	0.00	0.00	0.00	
6,100.00	22.60	268.56	5,712.37	-50.62	-2,013.74	47.46	0.00	0.00	0.00	
6,200.00	22.60	268.56	5,804.69	-51.59	-2,052.16	48.36	0.00	0.00	0.00	
6,300.00	22.60	268.56	5,897.01	-52.55	-2,090.58	49.27	0.00	0.00	0.00	
6,400.00	22.60	268.56	5,989.33	-53.52	-2,128.99	50.17	0.00	0.00	0.00	
6,500.00	22.60	268.56	6,081.65	-54.48	-2,167.41	51.08	0.00	0.00	0.00	
6,600.00	22.60	268.56	6,173.98	-55.45	-2,205.83	51.99	0.00	0.00	0.00	
6,700.00	22.60	268.56	6,266.30	-56.42	-2,244.24	52.89	0.00	0.00	0.00	
6,800.00	22.60	268.56	6,358.62	-57.38	-2,282.66	53.80	0.00	0.00	0.00	
6,900.00	22.60	268.56	6,450.94	-58.35	-2,321.08	54.70	0.00	0.00	0.00	
7,000.00	22.60	268.56	6,543.26	-59.31	-2,359.50	55.61	0.00	0.00	0.00	
7,100.00	22.60	268.56	6,635.58	-60.28	-2,397.91	56.51	0.00	0.00	0.00	
7,200.00	22.60	268.56	6,727.90	-61.24	-2,436.33	57.42	0.00	0.00	0.00	
7,300.00	22.60	268.56	6,820.22	-62.21	-2,474.75	58.32	0.00	0.00	0.00	
7,396.77	22.60	268.56	6,909.56	-63.14	-2,511.93	59.20	0.00	0.00	0.00	
KOP @ 7396.77ft :: DLS = 9°/100'										
7,400.00	22.61	267.80	6,912.54	-63.18	-2,513.17	59.24	9.00	0.25	-23.41	
7,450.00	23.18	256.31	6,958.63	-65.88	-2,532.34	61.90	9.00	1.14	-22.98	
7,500.00	24.53	245.68	7,004.38	-72.49	-2,551.37	68.48	9.00	2.70	-21.26	
7,550.00	26.54	236.33	7,049.51	-82.96	-2,570.13	78.92	9.00	4.03	-18.70	
7,600.00	29.08	228.35	7,093.75	-97.24	-2,588.52	93.17	9.00	5.07	-15.96	
7,650.00	32.02	221.63	7,136.81	-115.23	-2,606.41	111.13	9.00	5.87	-13.44	
7,700.00	35.25	215.98	7,178.45	-136.82	-2,623.71	132.70	9.00	6.47	-11.31	
7,750.00	38.71	211.19	7,218.39	-161.89	-2,640.29	157.74	9.00	6.92	-9.58	
7,800.00	42.34	207.09	7,256.40	-190.27	-2,656.06	186.09	9.00	7.25	-8.21	
7,850.00	46.09	203.52	7,292.24	-221.79	-2,670.92	217.59	9.00	7.51	-7.12	
7,900.00	49.94	200.39	7,325.68	-256.26	-2,684.79	252.04	9.00	7.70	-6.27	
7,950.00	53.87	197.60	7,356.52	-293.46	-2,697.56	289.22	9.00	7.85	-5.59	
8,000.00	57.85	195.07	7,384.58	-333.17	-2,709.18	328.91	9.00	7.97	-5.05	
8,050.00	61.89	192.76	7,409.68	-375.13	-2,719.55	370.86	9.00	8.06	-4.63	
8,100.00	65.95	190.61	7,431.66	-419.10	-2,728.63	414.82	9.00	8.13	-4.29	
8,150.00	70.05	188.60	7,450.38	-464.80	-2,736.35	460.50	9.00	8.19	-4.02	
8,200.00	74.16	186.69	7,465.74	-511.95	-2,742.67	507.64	9.00	8.23	-3.82	
8,250.00	78.30	184.85	7,477.64	-560.25	-2,747.54	555.94	9.00	8.27	-3.67	
8,300.00	82.44	183.07	7,486.01	-609.42	-2,750.95	605.10	9.00	8.29	-3.56	
8,350.00	86.59	181.33	7,490.78	-659.14	-2,752.85	654.82	9.00	8.30	-3.49	
8,391.01	90.00	179.91	7,492.00	-700.12	-2,753.30	695.80	9.00	8.31	-3.46	
End Build @ 8391.01ft										
8,400.00	90.00	179.91	7,492.00	-709.11	-2,753.28	704.79	0.00	0.00	0.00	
8,500.00	90.00	179.91	7,492.00	-809.11	-2,753.12	804.79	0.00	0.00	0.00	
8,600.00	90.00	179.91	7,492.00	-909.11	-2,752.97	904.79	0.00	0.00	0.00	
8,700.00	90.00	179.91	7,492.00	-1,009.11	-2,752.81	1,004.79	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 B		
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	7,492.00	-1,109.11	-2,752.65	1,104.79	0.00	0.00	0.00	
8,900.00	90.00	179.91	7,492.00	-1,209.11	-2,752.49	1,204.79	0.00	0.00	0.00	
9,000.00	90.00	179.91	7,492.00	-1,309.11	-2,752.33	1,304.79	0.00	0.00	0.00	
9,100.00	90.00	179.91	7,492.00	-1,409.11	-2,752.18	1,404.79	0.00	0.00	0.00	
9,200.00	90.00	179.91	7,492.00	-1,509.11	-2,752.02	1,504.79	0.00	0.00	0.00	
9,300.00	90.00	179.91	7,492.00	-1,609.11	-2,751.86	1,604.79	0.00	0.00	0.00	
9,400.00	90.00	179.91	7,492.00	-1,709.11	-2,751.70	1,704.79	0.00	0.00	0.00	
9,500.00	90.00	179.91	7,492.00	-1,809.11	-2,751.54	1,804.79	0.00	0.00	0.00	
9,600.00	90.00	179.91	7,492.00	-1,909.11	-2,751.38	1,904.79	0.00	0.00	0.00	
9,700.00	90.00	179.91	7,492.00	-2,009.11	-2,751.23	2,004.79	0.00	0.00	0.00	
9,800.00	90.00	179.91	7,492.00	-2,109.11	-2,751.07	2,104.79	0.00	0.00	0.00	
9,900.00	90.00	179.91	7,492.00	-2,209.11	-2,750.91	2,204.79	0.00	0.00	0.00	
10,000.00	90.00	179.91	7,492.00	-2,309.11	-2,750.75	2,304.79	0.00	0.00	0.00	
10,100.00	90.00	179.91	7,492.00	-2,409.11	-2,750.59	2,404.79	0.00	0.00	0.00	
10,200.00	90.00	179.91	7,492.00	-2,509.11	-2,750.43	2,504.79	0.00	0.00	0.00	
10,300.00	90.00	179.91	7,492.00	-2,609.11	-2,750.28	2,604.79	0.00	0.00	0.00	
10,400.00	90.00	179.91	7,492.00	-2,709.11	-2,750.12	2,704.79	0.00	0.00	0.00	
10,500.00	90.00	179.91	7,492.00	-2,809.11	-2,749.96	2,804.79	0.00	0.00	0.00	
10,600.00	90.00	179.91	7,492.00	-2,909.11	-2,749.80	2,904.79	0.00	0.00	0.00	
10,700.00	90.00	179.91	7,492.00	-3,009.11	-2,749.64	3,004.79	0.00	0.00	0.00	
10,800.00	90.00	179.91	7,492.00	-3,109.11	-2,749.49	3,104.79	0.00	0.00	0.00	
10,900.00	90.00	179.91	7,492.00	-3,209.11	-2,749.33	3,204.79	0.00	0.00	0.00	
11,000.00	90.00	179.91	7,492.00	-3,309.11	-2,749.17	3,304.79	0.00	0.00	0.00	
11,100.00	90.00	179.91	7,492.00	-3,409.11	-2,749.01	3,404.79	0.00	0.00	0.00	
11,200.00	90.00	179.91	7,492.00	-3,509.11	-2,748.85	3,504.79	0.00	0.00	0.00	
11,300.00	90.00	179.91	7,492.00	-3,609.11	-2,748.69	3,604.79	0.00	0.00	0.00	
11,400.00	90.00	179.91	7,492.00	-3,709.11	-2,748.54	3,704.79	0.00	0.00	0.00	
11,500.00	90.00	179.91	7,492.00	-3,809.11	-2,748.38	3,804.79	0.00	0.00	0.00	
11,600.00	90.00	179.91	7,492.00	-3,909.11	-2,748.22	3,904.79	0.00	0.00	0.00	
11,700.00	90.00	179.91	7,492.00	-4,009.11	-2,748.06	4,004.79	0.00	0.00	0.00	
11,800.00	90.00	179.91	7,492.00	-4,109.11	-2,747.90	4,104.79	0.00	0.00	0.00	
11,900.00	90.00	179.91	7,492.00	-4,209.11	-2,747.75	4,204.79	0.00	0.00	0.00	
12,000.00	90.00	179.91	7,492.00	-4,309.11	-2,747.59	4,304.79	0.00	0.00	0.00	
12,100.00	90.00	179.91	7,492.00	-4,409.11	-2,747.43	4,404.79	0.00	0.00	0.00	
12,200.00	90.00	179.91	7,492.00	-4,509.11	-2,747.27	4,504.79	0.00	0.00	0.00	
12,300.00	90.00	179.91	7,492.00	-4,609.11	-2,747.11	4,604.79	0.00	0.00	0.00	
12,400.00	90.00	179.91	7,492.00	-4,709.11	-2,746.95	4,704.79	0.00	0.00	0.00	
12,500.00	90.00	179.91	7,492.00	-4,809.11	-2,746.80	4,804.79	0.00	0.00	0.00	
12,600.00	90.00	179.91	7,492.00	-4,909.11	-2,746.64	4,904.79	0.00	0.00	0.00	
12,700.00	90.00	179.91	7,492.00	-5,009.11	-2,746.48	5,004.79	0.00	0.00	0.00	
12,800.00	90.00	179.91	7,492.00	-5,109.11	-2,746.32	5,104.79	0.00	0.00	0.00	
12,900.00	90.00	179.91	7,492.00	-5,209.11	-2,746.16	5,204.79	0.00	0.00	0.00	
13,000.00	90.00	179.91	7,492.00	-5,309.11	-2,746.00	5,304.79	0.00	0.00	0.00	
13,100.00	90.00	179.91	7,492.00	-5,409.11	-2,745.85	5,404.79	0.00	0.00	0.00	
13,200.00	90.00	179.91	7,492.00	-5,509.11	-2,745.69	5,504.79	0.00	0.00	0.00	
13,300.00	90.00	179.91	7,492.00	-5,609.11	-2,745.53	5,604.79	0.00	0.00	0.00	
13,400.00	90.00	179.91	7,492.00	-5,709.11	-2,745.37	5,704.79	0.00	0.00	0.00	
13,500.00	90.00	179.91	7,492.00	-5,809.11	-2,745.21	5,804.79	0.00	0.00	0.00	
13,600.00	90.00	179.91	7,492.00	-5,909.11	-2,745.06	5,904.79	0.00	0.00	0.00	
13,700.00	90.00	179.91	7,492.00	-6,009.11	-2,744.90	6,004.79	0.00	0.00	0.00	
13,800.00	90.00	179.91	7,492.00	-6,109.11	-2,744.74	6,104.79	0.00	0.00	0.00	
13,900.00	90.00	179.91	7,492.00	-6,209.11	-2,744.58	6,204.79	0.00	0.00	0.00	
14,000.00	90.00	179.91	7,492.00	-6,309.11	-2,744.42	6,304.79	0.00	0.00	0.00	
14,100.00	90.00	179.91	7,492.00	-6,409.11	-2,744.26	6,404.79	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 B		
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	7,492.00	-6,509.11	-2,744.11	6,504.79	0.00	0.00	0.00
14,300.00	90.00	179.91	7,492.00	-6,609.11	-2,743.95	6,604.79	0.00	0.00	0.00
14,400.00	90.00	179.91	7,492.00	-6,709.11	-2,743.79	6,704.79	0.00	0.00	0.00
14,500.00	90.00	179.91	7,492.00	-6,809.10	-2,743.63	6,804.79	0.00	0.00	0.00
14,600.00	90.00	179.91	7,492.00	-6,909.10	-2,743.47	6,904.79	0.00	0.00	0.00
14,700.00	90.00	179.91	7,492.00	-7,009.10	-2,743.32	7,004.79	0.00	0.00	0.00
14,800.00	90.00	179.91	7,492.00	-7,109.10	-2,743.16	7,104.79	0.00	0.00	0.00
14,900.00	90.00	179.91	7,492.00	-7,209.10	-2,743.00	7,204.79	0.00	0.00	0.00
15,000.00	90.00	179.91	7,492.00	-7,309.10	-2,742.84	7,304.79	0.00	0.00	0.00
15,100.00	90.00	179.91	7,492.00	-7,409.10	-2,742.68	7,404.79	0.00	0.00	0.00
15,200.00	90.00	179.91	7,492.00	-7,509.10	-2,742.52	7,504.79	0.00	0.00	0.00
15,300.00	90.00	179.91	7,492.00	-7,609.10	-2,742.37	7,604.79	0.00	0.00	0.00
15,400.00	90.00	179.91	7,492.00	-7,709.10	-2,742.21	7,704.79	0.00	0.00	0.00
15,500.00	90.00	179.91	7,492.00	-7,809.10	-2,742.05	7,804.79	0.00	0.00	0.00
15,600.00	90.00	179.91	7,492.00	-7,909.10	-2,741.89	7,904.79	0.00	0.00	0.00
15,700.00	90.00	179.91	7,492.00	-8,009.10	-2,741.73	8,004.79	0.00	0.00	0.00
15,800.00	90.00	179.91	7,492.00	-8,109.10	-2,741.57	8,104.79	0.00	0.00	0.00
15,900.00	90.00	179.91	7,492.00	-8,209.10	-2,741.42	8,204.79	0.00	0.00	0.00
16,000.00	90.00	179.91	7,492.00	-8,309.10	-2,741.26	8,304.79	0.00	0.00	0.00
16,100.00	90.00	179.91	7,492.00	-8,409.10	-2,741.10	8,404.79	0.00	0.00	0.00
16,200.00	90.00	179.91	7,492.00	-8,509.10	-2,740.94	8,504.79	0.00	0.00	0.00
16,300.00	90.00	179.91	7,492.00	-8,609.10	-2,740.78	8,604.79	0.00	0.00	0.00
16,400.00	90.00	179.91	7,492.00	-8,709.10	-2,740.63	8,704.79	0.00	0.00	0.00
16,500.00	90.00	179.91	7,492.00	-8,809.10	-2,740.47	8,804.79	0.00	0.00	0.00
16,600.00	90.00	179.91	7,492.00	-8,909.10	-2,740.31	8,904.79	0.00	0.00	0.00
16,700.00	90.00	179.91	7,492.00	-9,009.10	-2,740.15	9,004.79	0.00	0.00	0.00
16,800.00	90.00	179.91	7,492.00	-9,109.10	-2,739.99	9,104.79	0.00	0.00	0.00
16,900.00	90.00	179.91	7,492.00	-9,209.10	-2,739.83	9,204.79	0.00	0.00	0.00
17,000.00	90.00	179.91	7,492.00	-9,309.10	-2,739.68	9,304.79	0.00	0.00	0.00
17,100.00	90.00	179.91	7,492.00	-9,409.10	-2,739.52	9,404.79	0.00	0.00	0.00
17,200.00	90.00	179.91	7,492.00	-9,509.10	-2,739.36	9,504.79	0.00	0.00	0.00
17,300.00	90.00	179.91	7,492.00	-9,609.10	-2,739.20	9,604.79	0.00	0.00	0.00
17,400.00	90.00	179.91	7,492.00	-9,709.10	-2,739.04	9,704.79	0.00	0.00	0.00
17,500.00	90.00	179.91	7,492.00	-9,809.10	-2,738.88	9,804.79	0.00	0.00	0.00
17,600.00	90.00	179.91	7,492.00	-9,909.10	-2,738.73	9,904.79	0.00	0.00	0.00
17,700.00	90.00	179.91	7,492.00	-10,009.10	-2,738.57	10,004.79	0.00	0.00	0.00
17,800.00	90.00	179.91	7,492.00	-10,109.10	-2,738.41	10,104.79	0.00	0.00	0.00
17,900.00	90.00	179.91	7,492.00	-10,209.10	-2,738.25	10,204.79	0.00	0.00	0.00
18,000.00	90.00	179.91	7,492.00	-10,309.10	-2,738.09	10,304.79	0.00	0.00	0.00
18,079.21	90.00	179.91	7,492.00	-10,388.31	-2,737.97	10,384.00	0.00	0.00	0.00
BPZ @ 18079.21ft									
18,100.00	90.00	179.91	7,492.00	-10,409.10	-2,737.94	10,404.79	0.00	0.00	0.00
18,169.21	90.00	179.91	7,492.00	-10,478.31	-2,737.83	10,474.00	0.00	0.00	0.00
TD Well @ 18169.21ft									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
2,349.64	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 B		
Design:	Design #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
300.70	300.70	0.00	0.00	Begin Nudge @ 300.70ft
1,430.70	1,401.63	-5.53	-219.92	Hold Tangent @ 1430.70ft
7,396.77	6,909.56	-63.14	-2,511.93	KOP @ 7396.77ft :: DLS = 9°/100'
8,391.01	7,492.00	-700.12	-2,753.30	End Build @ 8391.01ft
18,079.21	7,492.00	-10,388.31	-2,737.97	BPZ @ 18079.21ft
18,169.21	7,492.00	-10,478.31	-2,737.83	TD Well @ 18169.21ft