

# **VERDAD RESOURCES**

**WATTENBERG FIELD**

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

**FAWN 2734-12H**

**Plan A**

**Plan: Design #1**

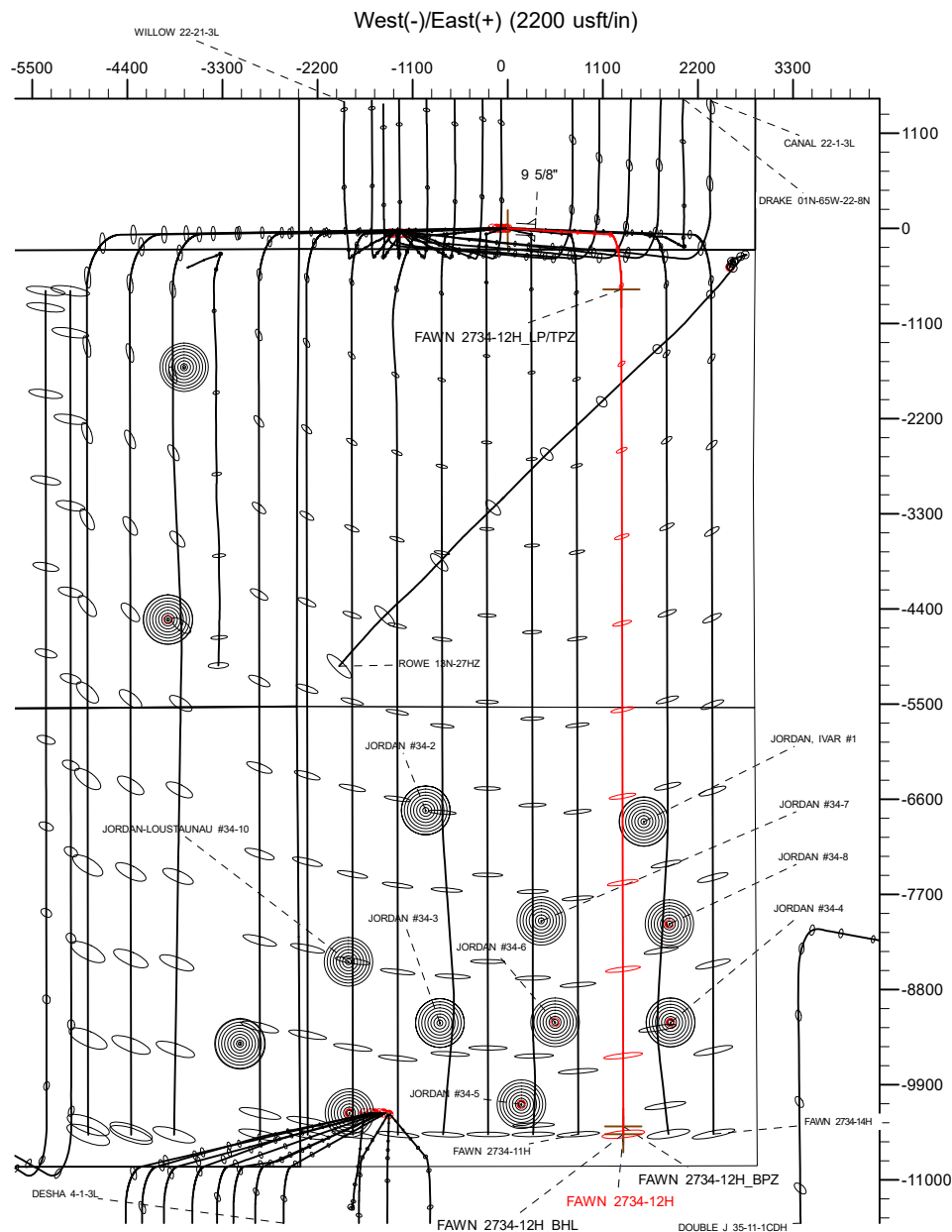
## **Standard Planning Report**

**30 July, 2022**

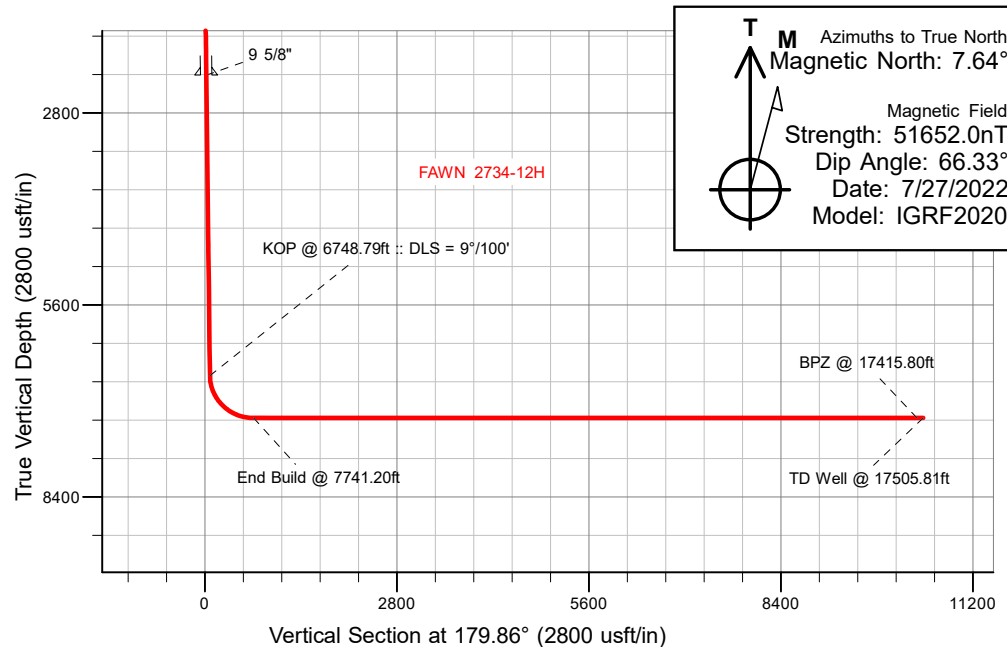
# VERDAD RESOURCES

CASING DETAILS			
TVD	MD	Name	Size
2250.00	2279.55	9 5/8"	9-5/8

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	
371.51	0.00	0.00	371.51	0.00	0.00	0.00	0.00	0.00	
935.01	11.27	93.36	931.38	-3.24	55.15	2.00	93.36	3.37	
6748.79	11.27	93.36	6633.06	-69.83	1189.40	0.00	0.00	72.74	
7741.20	90.00	179.86	7250.00	-706.11	1313.63	9.00	86.57	709.32	
17505.81	90.00	179.86	7250.00	-10470.69	1336.98	0.00	0.00	10473.93	FAWN 2734-12H_BHL



WELLBORE TARGET DETAILS (LAT/LONG)					
Name	TVD	Northing	Easting	Latitude	Longitude
FAWN 2734-12H_SHL	0.00	1255031.33	3237749.90	40.030324	-104.650968
FAWN 2734-12H_LP/TPZ	7250.00	1254337.73	3239070.21	40.028385	-104.646277
FAWN 2734-12H_BPZ	7250.00	1244663.92	3239185.99	40.001827	-104.646197
FAWN 2734-12H_BHL	7250.00	1244573.92	3239187.07	40.001580	-104.646196



WELL DETAILS: FAWN 2734-12H
GL = 5107'
RKB = 20' @ 5127.00usft (RIG)
Plan: Design #1 (FAWN 2734-12H/Plan A)
Date: 7/30/2022

## Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well FAWN 2734-12H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 20' @ 5127.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 20' @ 5127.00usft (RIG)
<b>Site:</b>	1N-65W-22 FAWN 2734 & 2833 PAD	<b>North Reference:</b>	True
<b>Well:</b>	FAWN 2734-12H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Design #1		

<b>Project</b>	WATTENBERG FIELD		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	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 2734-12H				
Well Position	+N/-S	0.00 usft	Northing:	1,255,031.33 usft	Latitude:	40.030324
	+E/-W	0.00 usft	Easting:	3,237,749.90 usft	Longitude:	-104.650969
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft	Ground Level:	5,107.00 usft
Grid Convergence:		0.55 °				

<b>Wellbore</b>	Plan A				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF202013	7/27/2022	7.64	66.33	51,651.96855939

<b>Design</b>	Design #1				
<b>Audit Notes:</b>					
<b>Version:</b>		<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	179.86	

<b>Plan Survey Tool Program</b>	<b>Date</b>	7/30/2022			
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>	
1	0.00	2,250.00	Design #1 (Plan A)	ISCWSA MWD	
				Fixed:v2:standard declination	
2	2,250.00	17,505.81	Design #1 (Plan A)	ISCWSA MWD	
				Fixed:v2:standard declination	

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well FAWN 2734-12H
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 2734-12H	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	
371.51	0.00	0.00	371.51	0.00	0.00	0.00	0.00	0.00	0.00	
935.01	11.27	93.36	931.38	-3.24	55.15	2.00	2.00	0.00	93.36	
6,748.79	11.27	93.36	6,633.06	-69.83	1,189.40	0.00	0.00	0.00	0.00	
7,741.20	90.00	179.86	7,250.00	-706.11	1,313.63	9.00	7.93	8.72	86.57	
17,505.81	90.00	179.86	7,250.00	-10,470.69	1,336.98	0.00	0.00	0.00	0.00	FAWN 2734-12H_BHI

# Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well FAWN 2734-12H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 20' @ 5127.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 20' @ 5127.00usft (RIG)
<b>Site:</b>	1N-65W-22 FAWN 2734 & 2833 PAD	<b>North Reference:</b>	True
<b>Well:</b>	FAWN 2734-12H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	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
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
371.51	0.00	0.00	371.51	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 371.51ft									
400.00	0.57	93.36	400.00	-0.01	0.14	0.01	2.00	2.00	0.00
500.00	2.57	93.36	499.96	-0.17	2.88	0.18	2.00	2.00	0.00
600.00	4.57	93.36	599.76	-0.53	9.09	0.56	2.00	2.00	0.00
700.00	6.57	93.36	699.28	-1.10	18.78	1.15	2.00	2.00	0.00
800.00	8.57	93.36	798.40	-1.87	31.93	1.95	2.00	2.00	0.00
900.00	10.57	93.36	897.01	-2.85	48.53	2.97	2.00	2.00	0.00
935.01	11.27	93.36	931.38	-3.24	55.15	3.37	2.00	2.00	0.00
Hold Tangent @ 935.01ft									
1,000.00	11.27	93.36	995.12	-3.98	67.83	4.15	0.00	0.00	0.00
1,100.00	11.27	93.36	1,093.19	-5.13	87.34	5.34	0.00	0.00	0.00
1,200.00	11.27	93.36	1,191.26	-6.27	106.85	6.53	0.00	0.00	0.00
1,300.00	11.27	93.36	1,289.34	-7.42	126.35	7.73	0.00	0.00	0.00
1,400.00	11.27	93.36	1,387.41	-8.56	145.86	8.92	0.00	0.00	0.00
1,500.00	11.27	93.36	1,485.48	-9.71	165.37	10.11	0.00	0.00	0.00
1,600.00	11.27	93.36	1,583.55	-10.85	184.88	11.31	0.00	0.00	0.00
1,700.00	11.27	93.36	1,681.62	-12.00	204.39	12.50	0.00	0.00	0.00
1,800.00	11.27	93.36	1,779.69	-13.15	223.90	13.69	0.00	0.00	0.00
1,900.00	11.27	93.36	1,877.77	-14.29	243.41	14.89	0.00	0.00	0.00
2,000.00	11.27	93.36	1,975.84	-15.44	262.92	16.08	0.00	0.00	0.00
2,100.00	11.27	93.36	2,073.91	-16.58	282.43	17.27	0.00	0.00	0.00
2,200.00	11.27	93.36	2,171.98	-17.73	301.94	18.46	0.00	0.00	0.00
2,279.55	11.27	93.36	2,250.00	-18.64	317.46	19.41	0.00	0.00	0.00
9 5/8"									
2,300.00	11.27	93.36	2,270.05	-18.87	321.45	19.66	0.00	0.00	0.00
2,400.00	11.27	93.36	2,368.12	-20.02	340.96	20.85	0.00	0.00	0.00
2,500.00	11.27	93.36	2,466.20	-21.16	360.47	22.04	0.00	0.00	0.00
2,600.00	11.27	93.36	2,564.27	-22.31	379.98	23.24	0.00	0.00	0.00
2,700.00	11.27	93.36	2,662.34	-23.45	399.49	24.43	0.00	0.00	0.00
2,800.00	11.27	93.36	2,760.41	-24.60	419.00	25.62	0.00	0.00	0.00
2,900.00	11.27	93.36	2,858.48	-25.75	438.51	26.82	0.00	0.00	0.00
3,000.00	11.27	93.36	2,956.55	-26.89	458.02	28.01	0.00	0.00	0.00
3,100.00	11.27	93.36	3,054.63	-28.04	477.53	29.20	0.00	0.00	0.00
3,200.00	11.27	93.36	3,152.70	-29.18	497.04	30.40	0.00	0.00	0.00
3,300.00	11.27	93.36	3,250.77	-30.33	516.55	31.59	0.00	0.00	0.00
3,400.00	11.27	93.36	3,348.84	-31.47	536.06	32.78	0.00	0.00	0.00
3,500.00	11.27	93.36	3,446.91	-32.62	555.57	33.97	0.00	0.00	0.00
3,600.00	11.27	93.36	3,544.98	-33.76	575.08	35.17	0.00	0.00	0.00
3,700.00	11.27	93.36	3,643.06	-34.91	594.59	36.36	0.00	0.00	0.00
3,800.00	11.27	93.36	3,741.13	-36.05	614.10	37.55	0.00	0.00	0.00
3,900.00	11.27	93.36	3,839.20	-37.20	633.61	38.75	0.00	0.00	0.00
4,000.00	11.27	93.36	3,937.27	-38.34	653.12	39.94	0.00	0.00	0.00
4,100.00	11.27	93.36	4,035.34	-39.49	672.63	41.13	0.00	0.00	0.00
4,200.00	11.27	93.36	4,133.42	-40.64	692.14	42.33	0.00	0.00	0.00
4,300.00	11.27	93.36	4,231.49	-41.78	711.64	43.52	0.00	0.00	0.00
4,400.00	11.27	93.36	4,329.56	-42.93	731.15	44.71	0.00	0.00	0.00
4,500.00	11.27	93.36	4,427.63	-44.07	750.66	45.91	0.00	0.00	0.00
4,600.00	11.27	93.36	4,525.70	-45.22	770.17	47.10	0.00	0.00	0.00

## Planning Report

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<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 20' @ 5127.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 20' @ 5127.00usft (RIG)
<b>Site:</b>	1N-65W-22 FAWN 2734 & 2833 PAD	<b>North Reference:</b>	True
<b>Well:</b>	FAWN 2734-12H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	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)
4,700.00	11.27	93.36	4,623.77	-46.36	789.68	48.29	0.00	0.00	0.00
4,800.00	11.27	93.36	4,721.85	-47.51	809.19	49.49	0.00	0.00	0.00
4,900.00	11.27	93.36	4,819.92	-48.65	828.70	50.68	0.00	0.00	0.00
5,000.00	11.27	93.36	4,917.99	-49.80	848.21	51.87	0.00	0.00	0.00
5,100.00	11.27	93.36	5,016.06	-50.94	867.72	53.06	0.00	0.00	0.00
5,200.00	11.27	93.36	5,114.13	-52.09	887.23	54.26	0.00	0.00	0.00
5,300.00	11.27	93.36	5,212.20	-53.24	906.74	55.45	0.00	0.00	0.00
5,400.00	11.27	93.36	5,310.28	-54.38	926.25	56.64	0.00	0.00	0.00
5,500.00	11.27	93.36	5,408.35	-55.53	945.76	57.84	0.00	0.00	0.00
5,600.00	11.27	93.36	5,506.42	-56.67	965.27	59.03	0.00	0.00	0.00
5,700.00	11.27	93.36	5,604.49	-57.82	984.78	60.22	0.00	0.00	0.00
5,800.00	11.27	93.36	5,702.56	-58.96	1,004.29	61.42	0.00	0.00	0.00
5,900.00	11.27	93.36	5,800.63	-60.11	1,023.80	62.61	0.00	0.00	0.00
6,000.00	11.27	93.36	5,898.71	-61.25	1,043.31	63.80	0.00	0.00	0.00
6,100.00	11.27	93.36	5,996.78	-62.40	1,062.82	65.00	0.00	0.00	0.00
6,200.00	11.27	93.36	6,094.85	-63.54	1,082.33	66.19	0.00	0.00	0.00
6,300.00	11.27	93.36	6,192.92	-64.69	1,101.84	67.38	0.00	0.00	0.00
6,400.00	11.27	93.36	6,290.99	-65.83	1,121.35	68.57	0.00	0.00	0.00
6,500.00	11.27	93.36	6,389.06	-66.98	1,140.86	69.77	0.00	0.00	0.00
6,600.00	11.27	93.36	6,487.14	-68.13	1,160.37	70.96	0.00	0.00	0.00
6,700.00	11.27	93.36	6,585.21	-69.27	1,179.88	72.15	0.00	0.00	0.00
6,748.79	11.27	93.36	6,633.06	-69.83	1,189.40	72.74	0.00	0.00	0.00
<b>KOP @ 6748.79ft :: DLS = 9°/100'</b>									
6,750.00	11.28	93.92	6,634.24	-69.84	1,189.63	72.75	9.00	0.58	45.94
6,800.00	12.42	115.26	6,683.20	-72.47	1,199.38	75.40	9.00	2.28	42.69
6,850.00	14.87	131.36	6,731.80	-79.01	1,209.06	81.97	9.00	4.91	32.20
6,900.00	18.12	142.42	6,779.75	-89.42	1,218.62	92.40	9.00	6.49	22.11
6,950.00	21.80	150.04	6,826.75	-103.63	1,228.00	106.63	9.00	7.36	15.24
7,000.00	25.73	155.49	6,872.51	-121.55	1,237.15	124.58	9.00	7.86	10.90
7,050.00	29.81	159.55	6,916.74	-143.09	1,246.00	146.13	9.00	8.17	8.13
7,100.00	33.99	162.71	6,959.18	-168.09	1,254.50	171.16	9.00	8.36	6.31
7,150.00	38.24	165.24	6,999.57	-196.41	1,262.60	199.50	9.00	8.49	5.07
7,200.00	42.53	167.34	7,037.65	-227.88	1,270.25	230.99	9.00	8.58	4.19
7,250.00	46.85	169.12	7,073.18	-262.30	1,277.40	265.42	9.00	8.65	3.56
7,300.00	51.20	170.66	7,105.96	-299.46	1,284.01	302.59	9.00	8.69	3.08
7,350.00	55.57	172.03	7,135.78	-339.12	1,290.03	342.27	9.00	8.73	2.73
7,400.00	59.94	173.25	7,162.45	-381.05	1,295.44	384.22	9.00	8.76	2.46
7,450.00	64.33	174.38	7,185.81	-424.99	1,300.19	428.16	9.00	8.78	2.25
7,500.00	68.73	175.42	7,205.72	-470.66	1,304.26	473.84	9.00	8.79	2.09
7,550.00	73.13	176.41	7,222.05	-517.78	1,307.62	520.98	9.00	8.81	1.97
7,600.00	77.54	177.34	7,234.71	-566.07	1,310.25	569.27	9.00	8.82	1.88
7,650.00	81.95	178.25	7,243.61	-615.22	1,312.14	618.43	9.00	8.82	1.81
7,700.00	86.36	179.14	7,248.70	-664.94	1,313.27	668.14	9.00	8.83	1.78
7,741.20	90.00	179.86	7,250.00	-706.11	1,313.63	709.32	9.00	8.83	1.76
<b>End Build @ 7741.20ft</b>									
7,800.00	90.00	179.86	7,250.00	-764.91	1,313.77	768.12	0.00	0.00	0.00
7,900.00	90.00	179.86	7,250.00	-864.91	1,314.01	868.12	0.00	0.00	0.00
8,000.00	90.00	179.86	7,250.00	-964.91	1,314.25	968.12	0.00	0.00	0.00
8,100.00	90.00	179.86	7,250.00	-1,064.91	1,314.49	1,068.12	0.00	0.00	0.00
8,200.00	90.00	179.86	7,250.00	-1,164.91	1,314.73	1,168.12	0.00	0.00	0.00
8,300.00	90.00	179.86	7,250.00	-1,264.91	1,314.97	1,268.12	0.00	0.00	0.00
8,400.00	90.00	179.86	7,250.00	-1,364.91	1,315.21	1,368.12	0.00	0.00	0.00
8,500.00	90.00	179.86	7,250.00	-1,464.91	1,315.45	1,468.12	0.00	0.00	0.00
8,600.00	90.00	179.86	7,250.00	-1,564.91	1,315.68	1,568.12	0.00	0.00	0.00

## Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well FAWN 2734-12H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 20' @ 5127.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 20' @ 5127.00usft (RIG)
<b>Site:</b>	1N-65W-22 FAWN 2734 & 2833 PAD	<b>North Reference:</b>	True
<b>Well:</b>	FAWN 2734-12H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	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)	
8,700.00	90.00	179.86	7,250.00	-1,664.91	1,315.92	1,668.12	0.00	0.00	0.00	
8,800.00	90.00	179.86	7,250.00	-1,764.91	1,316.16	1,768.12	0.00	0.00	0.00	
8,900.00	90.00	179.86	7,250.00	-1,864.91	1,316.40	1,868.12	0.00	0.00	0.00	
9,000.00	90.00	179.86	7,250.00	-1,964.90	1,316.64	1,968.12	0.00	0.00	0.00	
9,100.00	90.00	179.86	7,250.00	-2,064.90	1,316.88	2,068.12	0.00	0.00	0.00	
9,200.00	90.00	179.86	7,250.00	-2,164.90	1,317.12	2,168.12	0.00	0.00	0.00	
9,300.00	90.00	179.86	7,250.00	-2,264.90	1,317.36	2,268.12	0.00	0.00	0.00	
9,400.00	90.00	179.86	7,250.00	-2,364.90	1,317.60	2,368.12	0.00	0.00	0.00	
9,500.00	90.00	179.86	7,250.00	-2,464.90	1,317.84	2,468.12	0.00	0.00	0.00	
9,600.00	90.00	179.86	7,250.00	-2,564.90	1,318.08	2,568.12	0.00	0.00	0.00	
9,700.00	90.00	179.86	7,250.00	-2,664.90	1,318.31	2,668.12	0.00	0.00	0.00	
9,800.00	90.00	179.86	7,250.00	-2,764.90	1,318.55	2,768.12	0.00	0.00	0.00	
9,900.00	90.00	179.86	7,250.00	-2,864.90	1,318.79	2,868.12	0.00	0.00	0.00	
10,000.00	90.00	179.86	7,250.00	-2,964.90	1,319.03	2,968.12	0.00	0.00	0.00	
10,100.00	90.00	179.86	7,250.00	-3,064.90	1,319.27	3,068.12	0.00	0.00	0.00	
10,200.00	90.00	179.86	7,250.00	-3,164.90	1,319.51	3,168.12	0.00	0.00	0.00	
10,300.00	90.00	179.86	7,250.00	-3,264.90	1,319.75	3,268.12	0.00	0.00	0.00	
10,400.00	90.00	179.86	7,250.00	-3,364.90	1,319.99	3,368.12	0.00	0.00	0.00	
10,500.00	90.00	179.86	7,250.00	-3,464.90	1,320.23	3,468.12	0.00	0.00	0.00	
10,600.00	90.00	179.86	7,250.00	-3,564.90	1,320.47	3,568.12	0.00	0.00	0.00	
10,700.00	90.00	179.86	7,250.00	-3,664.90	1,320.71	3,668.12	0.00	0.00	0.00	
10,800.00	90.00	179.86	7,250.00	-3,764.90	1,320.94	3,768.12	0.00	0.00	0.00	
10,900.00	90.00	179.86	7,250.00	-3,864.90	1,321.18	3,868.12	0.00	0.00	0.00	
11,000.00	90.00	179.86	7,250.00	-3,964.90	1,321.42	3,968.12	0.00	0.00	0.00	
11,100.00	90.00	179.86	7,250.00	-4,064.90	1,321.66	4,068.12	0.00	0.00	0.00	
11,200.00	90.00	179.86	7,250.00	-4,164.90	1,321.90	4,168.12	0.00	0.00	0.00	
11,300.00	90.00	179.86	7,250.00	-4,264.90	1,322.14	4,268.12	0.00	0.00	0.00	
11,400.00	90.00	179.86	7,250.00	-4,364.90	1,322.38	4,368.12	0.00	0.00	0.00	
11,500.00	90.00	179.86	7,250.00	-4,464.90	1,322.62	4,468.12	0.00	0.00	0.00	
11,600.00	90.00	179.86	7,250.00	-4,564.90	1,322.86	4,568.12	0.00	0.00	0.00	
11,700.00	90.00	179.86	7,250.00	-4,664.90	1,323.10	4,668.12	0.00	0.00	0.00	
11,800.00	90.00	179.86	7,250.00	-4,764.90	1,323.34	4,768.12	0.00	0.00	0.00	
11,900.00	90.00	179.86	7,250.00	-4,864.90	1,323.58	4,868.12	0.00	0.00	0.00	
12,000.00	90.00	179.86	7,250.00	-4,964.90	1,323.81	4,968.12	0.00	0.00	0.00	
12,100.00	90.00	179.86	7,250.00	-5,064.90	1,324.05	5,068.12	0.00	0.00	0.00	
12,200.00	90.00	179.86	7,250.00	-5,164.90	1,324.29	5,168.12	0.00	0.00	0.00	
12,300.00	90.00	179.86	7,250.00	-5,264.90	1,324.53	5,268.12	0.00	0.00	0.00	
12,400.00	90.00	179.86	7,250.00	-5,364.90	1,324.77	5,368.12	0.00	0.00	0.00	
12,500.00	90.00	179.86	7,250.00	-5,464.89	1,325.01	5,468.12	0.00	0.00	0.00	
12,600.00	90.00	179.86	7,250.00	-5,564.89	1,325.25	5,568.12	0.00	0.00	0.00	
12,700.00	90.00	179.86	7,250.00	-5,664.89	1,325.49	5,668.12	0.00	0.00	0.00	
12,800.00	90.00	179.86	7,250.00	-5,764.89	1,325.73	5,768.12	0.00	0.00	0.00	
12,900.00	90.00	179.86	7,250.00	-5,864.89	1,325.97	5,868.12	0.00	0.00	0.00	
13,000.00	90.00	179.86	7,250.00	-5,964.89	1,326.21	5,968.12	0.00	0.00	0.00	
13,100.00	90.00	179.86	7,250.00	-6,064.89	1,326.44	6,068.12	0.00	0.00	0.00	
13,200.00	90.00	179.86	7,250.00	-6,164.89	1,326.68	6,168.12	0.00	0.00	0.00	
13,300.00	90.00	179.86	7,250.00	-6,264.89	1,326.92	6,268.12	0.00	0.00	0.00	
13,400.00	90.00	179.86	7,250.00	-6,364.89	1,327.16	6,368.12	0.00	0.00	0.00	
13,500.00	90.00	179.86	7,250.00	-6,464.89	1,327.40	6,468.12	0.00	0.00	0.00	
13,600.00	90.00	179.86	7,250.00	-6,564.89	1,327.64	6,568.12	0.00	0.00	0.00	
13,700.00	90.00	179.86	7,250.00	-6,664.89	1,327.88	6,668.12	0.00	0.00	0.00	
13,800.00	90.00	179.86	7,250.00	-6,764.89	1,328.12	6,768.12	0.00	0.00	0.00	
13,900.00	90.00	179.86	7,250.00	-6,864.89	1,328.36	6,868.12	0.00	0.00	0.00	
14,000.00	90.00	179.86	7,250.00	-6,964.89	1,328.60	6,968.12	0.00	0.00	0.00	

## Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well FAWN 2734-12H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 20' @ 5127.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 20' @ 5127.00usft (RIG)
<b>Site:</b>	1N-65W-22 FAWN 2734 & 2833 PAD	<b>North Reference:</b>	True
<b>Well:</b>	FAWN 2734-12H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	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)	
14,100.00	90.00	179.86	7,250.00	-7,064.89	1,328.84	7,068.12	0.00	0.00	0.00	
14,200.00	90.00	179.86	7,250.00	-7,164.89	1,329.07	7,168.12	0.00	0.00	0.00	
14,300.00	90.00	179.86	7,250.00	-7,264.89	1,329.31	7,268.12	0.00	0.00	0.00	
14,400.00	90.00	179.86	7,250.00	-7,364.89	1,329.55	7,368.12	0.00	0.00	0.00	
14,500.00	90.00	179.86	7,250.00	-7,464.89	1,329.79	7,468.12	0.00	0.00	0.00	
14,600.00	90.00	179.86	7,250.00	-7,564.89	1,330.03	7,568.12	0.00	0.00	0.00	
14,700.00	90.00	179.86	7,250.00	-7,664.89	1,330.27	7,668.12	0.00	0.00	0.00	
14,800.00	90.00	179.86	7,250.00	-7,764.89	1,330.51	7,768.12	0.00	0.00	0.00	
14,900.00	90.00	179.86	7,250.00	-7,864.89	1,330.75	7,868.12	0.00	0.00	0.00	
15,000.00	90.00	179.86	7,250.00	-7,964.89	1,330.99	7,968.12	0.00	0.00	0.00	
15,100.00	90.00	179.86	7,250.00	-8,064.89	1,331.23	8,068.12	0.00	0.00	0.00	
15,200.00	90.00	179.86	7,250.00	-8,164.89	1,331.47	8,168.12	0.00	0.00	0.00	
15,300.00	90.00	179.86	7,250.00	-8,264.89	1,331.71	8,268.12	0.00	0.00	0.00	
15,400.00	90.00	179.86	7,250.00	-8,364.89	1,331.94	8,368.12	0.00	0.00	0.00	
15,500.00	90.00	179.86	7,250.00	-8,464.89	1,332.18	8,468.12	0.00	0.00	0.00	
15,600.00	90.00	179.86	7,250.00	-8,564.89	1,332.42	8,568.12	0.00	0.00	0.00	
15,700.00	90.00	179.86	7,250.00	-8,664.89	1,332.66	8,668.12	0.00	0.00	0.00	
15,800.00	90.00	179.86	7,250.00	-8,764.89	1,332.90	8,768.12	0.00	0.00	0.00	
15,900.00	90.00	179.86	7,250.00	-8,864.89	1,333.14	8,868.12	0.00	0.00	0.00	
16,000.00	90.00	179.86	7,250.00	-8,964.88	1,333.38	8,968.12	0.00	0.00	0.00	
16,100.00	90.00	179.86	7,250.00	-9,064.88	1,333.62	9,068.12	0.00	0.00	0.00	
16,200.00	90.00	179.86	7,250.00	-9,164.88	1,333.86	9,168.12	0.00	0.00	0.00	
16,300.00	90.00	179.86	7,250.00	-9,264.88	1,334.10	9,268.12	0.00	0.00	0.00	
16,400.00	90.00	179.86	7,250.00	-9,364.88	1,334.34	9,368.12	0.00	0.00	0.00	
16,500.00	90.00	179.86	7,250.00	-9,464.88	1,334.57	9,468.12	0.00	0.00	0.00	
16,600.00	90.00	179.86	7,250.00	-9,564.88	1,334.81	9,568.12	0.00	0.00	0.00	
16,700.00	90.00	179.86	7,250.00	-9,664.88	1,335.05	9,668.12	0.00	0.00	0.00	
16,800.00	90.00	179.86	7,250.00	-9,764.88	1,335.29	9,768.12	0.00	0.00	0.00	
16,900.00	90.00	179.86	7,250.00	-9,864.88	1,335.53	9,868.12	0.00	0.00	0.00	
17,000.00	90.00	179.86	7,250.00	-9,964.88	1,335.77	9,968.12	0.00	0.00	0.00	
17,100.00	90.00	179.86	7,250.00	-10,064.88	1,336.01	10,068.12	0.00	0.00	0.00	
17,200.00	90.00	179.86	7,250.00	-10,164.88	1,336.25	10,168.12	0.00	0.00	0.00	
17,300.00	90.00	179.86	7,250.00	-10,264.88	1,336.49	10,268.12	0.00	0.00	0.00	
17,400.00	90.00	179.86	7,250.00	-10,364.88	1,336.73	10,368.12	0.00	0.00	0.00	
17,415.80	90.00	179.86	7,250.00	-10,380.68	1,336.76	10,383.92	0.00	0.00	0.00	
BPZ @ 17415.80ft										
17,505.81	90.00	179.86	7,250.00	-10,470.69	1,336.98	10,473.93	0.00	0.00	0.00	
TD Well @ 17505.81ft										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
2,279.55	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 2734-12H
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 2734-12H	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)	
371.51	371.51	0.00	0.00	Begin Nudge @ 371.51ft
935.01	931.38	-3.24	55.15	Hold Tangent @ 935.01ft
6,748.79	6,633.06	-69.83	1,189.40	KOP @ 6748.79ft :: DLS = 9°/100'
7,741.20	7,250.00	-706.11	1,313.63	End Build @ 7741.20ft
17,415.80	7,250.00	-10,380.68	1,336.76	BPZ @ 17415.80ft
17,505.81	7,250.00	-10,470.69	1,336.98	TD Well @ 17505.81ft