

# **VERDAD RESOURCES**

**WATTENBERG FIELD**

**9N-60W-25 PEGGY 2501 PAD**

**PEGGY 2501-10H**

**Plan B**

**Plan: Design #1**

## **Standard Planning Report**

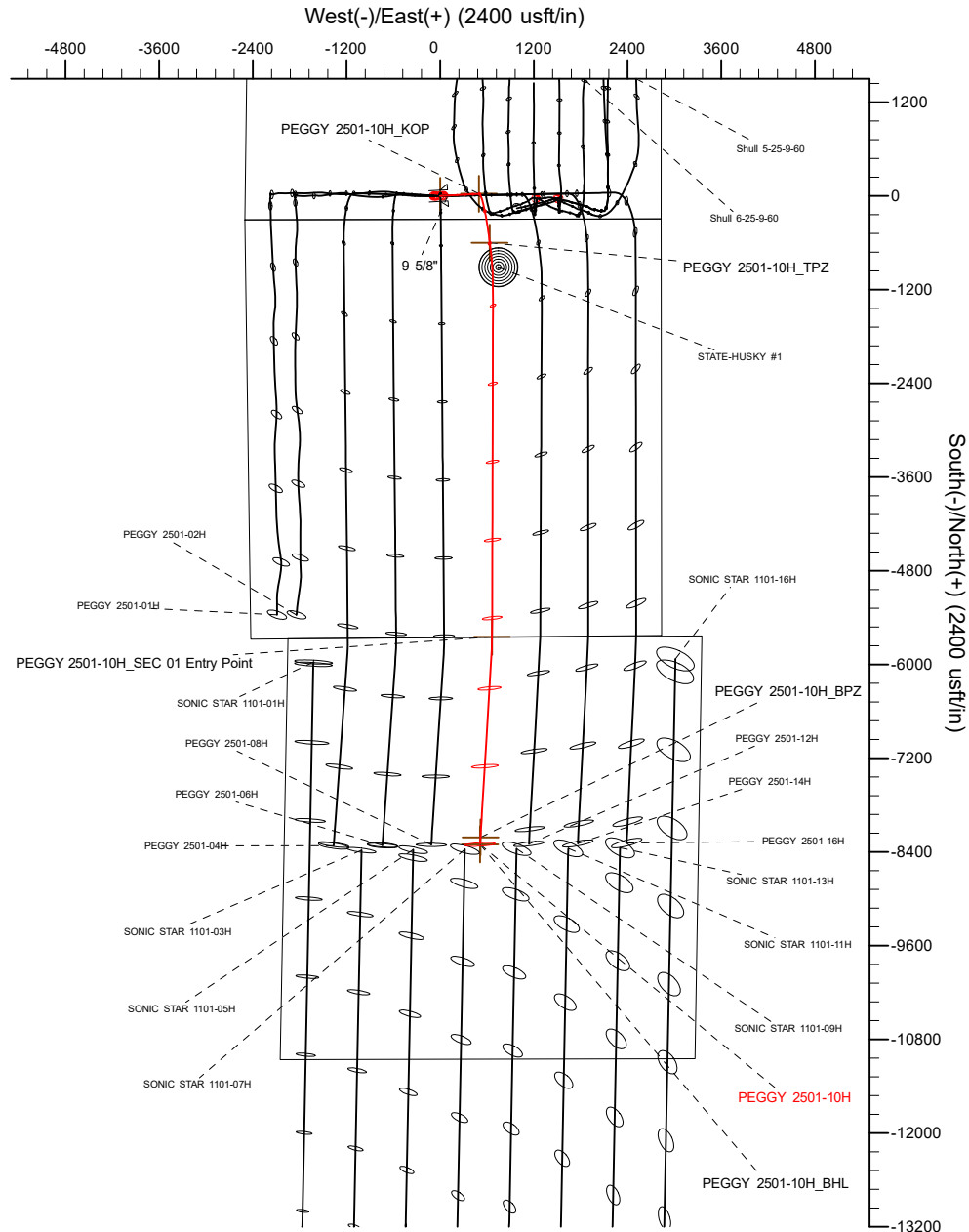
**11 October, 2021**

Project: WATTENBERG FIELD  
Site: 9N-60W-25 PEGGY 2501 PAD  
Well: PEGGY 2501-10H  
Wellbore: Plan B  
Design: Design #1

# VERDAD RESOURCES

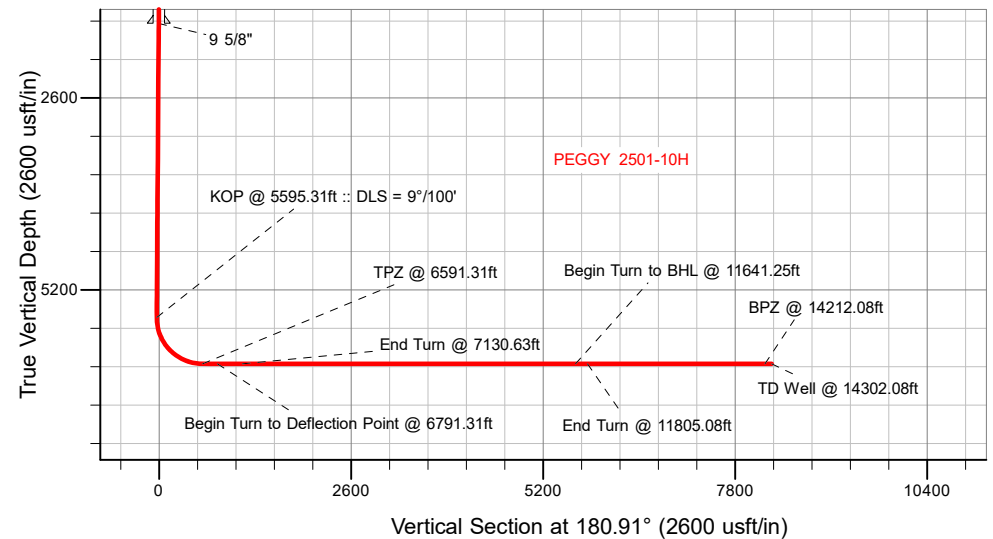
## CASING DETAILS

TVD	MD	Name	Size
1560.00	1564.48	9 5/8"	9-5/8



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	483.00	0.00	0.00	483.00	0.00	0.00	0.00	0.00	0.00	
3	770.50	5.75	86.95	770.02	0.77	14.39	2.00	86.95	-1.00	
4	5595.31	5.75	86.95	5570.55	26.49	497.10	0.00	0.00	-34.38	
5	6591.31	90.00	173.35	6200.00	-598.51	633.65	9.00	86.42	588.37	
6	6791.31	90.00	173.35	6200.00	-797.17	656.81	0.00	0.00	786.63	
7	7130.63	90.00	180.14	6200.00	-1135.74	676.08	2.00	90.00	1124.86	
8	11641.25	90.00	180.14	6200.00	-5646.35	665.34	0.00	0.00	5635.07	PEGGY 2501-10H_SEC 01 Entry Point
9	11805.08	90.00	183.41	6200.00	-5810.08	660.26	2.00	90.00	5798.86	
10	14302.08	90.00	183.41	6200.00	-8302.65	511.61	0.00	0.00	8293.48	PEGGY 2501-10H_BHL

WELLBORE TARGET DETAILS (LAT/LONG)						
Name	MD	TVD	+N/-S	+E/-W	Latitude	Longitude
PEGGY 2501-10H_SHL	0.00	0.00	0.00	0.00	40.714775	-104.040538
PEGGY 2501-10H_KOP	5595.31	5570.55	26.49	497.10	40.714848	-104.038745
PEGGY 2501-10H_TPZ	6591.31	6200.00	-598.51	633.65	40.713132	-104.038253
PEGGY 2501-10H_SEC 01 Entry Point	11641.25	6200.00	-5646.35	665.34	40.699277	-104.038139
PEGGY 2501-10H_BPZ	14212.08	6200.00	-8212.81	516.79	40.692233	-104.038675
PEGGY 2501-10H_BHL	14302.08	6200.00	-8302.65	511.61	40.691986	-104.038693



**SHL**  
300' FSL  
2496' FWL


**KOP**  
326' FSL  
2331' FEL

**TPZ**  
300' FNL  
2195' FEL

**SEC 01 Entry**  
0' FSL  
2170' FEL

**BPZ**  
2565' FNL  
2512' FWL

**BHL**  
2655' FNL  
2508' FWL

	Azimuths to True North		WELL DETAILS: PEGGY 2501-10H	
	Magnetic North: 7.46°		GL = 4894'	
	Magnetic Field		RKB = 16' @ 4910.00usft (RIG)	
	Strength: 52156.9nT		Plan: Design #1 (PEGGY 2501-10H/Plan B)	
	Dip Angle: 66.99°		Date: 10/11/2021	
Date: 10/7/2021		Model: IGRF2020		

## Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PEGGY 2501-10H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 16' @ 4910.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 16' @ 4910.00usft (RIG)
<b>Site:</b>	9N-60W-25 PEGGY 2501 PAD	<b>North Reference:</b>	True
<b>Well:</b>	PEGGY 2501-10H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan B		
<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		9N-60W-25 PEGGY 2501 PAD			
Site Position:		Northing:	1,506,564.37 usft	Latitude:	40.714775
From:	Lat/Long	Easting:	3,404,485.26 usft	Longitude:	-104.040843
Position Uncertainty:		0.00 usft	Slot Radius:	13-3/16 "	

Well		PEGGY 2501-10H				
Well Position	+N-S	0.00 usft	Northing:	1,506,565.94 usft	Latitude:	40.714775
	+E-W	0.00 usft	Easting:	3,404,569.52 usft	Longitude:	-104.040539
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft	Ground Level:	4,894.00 usft
Grid Convergence:		0.94 °				

<b>Wellbore</b>	Plan B				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF202013	10/7/2021	7.46	66.99	52,156.91316967

<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	180.91	

<b>Plan Survey Tool Program</b>	<b>Date</b>	10/11/2021			
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>	
1	0.00	1,560.00	Design #1 (Plan B)	ISCWSA MWD	
				Fixed:v2:standard declination	
2	1,560.00	14,302.08	Design #1 (Plan B)	ISCWSA MWD	
				Fixed:v2:standard declination	

## Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PEGGY 2501-10H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 16' @ 4910.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 16' @ 4910.00usft (RIG)
<b>Site:</b>	9N-60W-25 PEGGY 2501 PAD	<b>North Reference:</b>	True
<b>Well:</b>	PEGGY 2501-10H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan B		
<b>Design:</b>	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	
483.00	0.00	0.00	483.00	0.00	0.00	0.00	0.00	0.00	0.00	
770.50	5.75	86.95	770.02	0.77	14.39	2.00	2.00	0.00	86.95	
5,595.31	5.75	86.95	5,570.55	26.49	497.10	0.00	0.00	0.00	0.00	
6,591.31	90.00	173.35	6,200.00	-598.51	633.65	9.00	8.46	8.67	86.42	
6,791.31	90.00	173.35	6,200.00	-797.17	656.81	0.00	0.00	0.00	0.00	
7,130.63	90.00	180.14	6,200.00	-1,135.74	676.08	2.00	0.00	2.00	90.00	
11,641.25	90.00	180.14	6,200.00	-5,646.35	665.34	0.00	0.00	0.00	0.00	PEGGY 2501-10H_SI
11,805.08	90.00	183.41	6,200.00	-5,810.08	660.26	2.00	0.00	2.00	90.00	
14,302.08	90.00	183.41	6,200.00	-8,302.65	511.61	0.00	0.00	0.00	0.00	PEGGY 2501-10H_BI

## Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PEGGY 2501-10H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 16' @ 4910.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 16' @ 4910.00usft (RIG)
<b>Site:</b>	9N-60W-25 PEGGY 2501 PAD	<b>North Reference:</b>	True
<b>Well:</b>	PEGGY 2501-10H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan B		
<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
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
483.00	0.00	0.00	483.00	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 483.00ft									
500.00	0.34	86.95	500.00	0.00	0.05	0.00	2.00	2.00	0.00
600.00	2.34	86.95	599.97	0.13	2.39	-0.16	2.00	2.00	0.00
700.00	4.34	86.95	699.79	0.44	8.20	-0.57	2.00	2.00	0.00
770.50	5.75	86.95	770.02	0.77	14.39	-1.00	2.00	2.00	0.00
Hold Tangent @ 770.50ft									
800.00	5.75	86.95	799.37	0.92	17.35	-1.20	0.00	0.00	0.00
900.00	5.75	86.95	898.87	1.46	27.35	-1.89	0.00	0.00	0.00
1,000.00	5.75	86.95	998.36	1.99	37.35	-2.58	0.00	0.00	0.00
1,100.00	5.75	86.95	1,097.86	2.52	47.36	-3.28	0.00	0.00	0.00
1,200.00	5.75	86.95	1,197.36	3.06	57.36	-3.97	0.00	0.00	0.00
1,300.00	5.75	86.95	1,296.85	3.59	67.37	-4.66	0.00	0.00	0.00
1,400.00	5.75	86.95	1,396.35	4.12	77.37	-5.35	0.00	0.00	0.00
1,500.00	5.75	86.95	1,495.85	4.66	87.38	-6.04	0.00	0.00	0.00
1,564.48	5.75	86.95	1,560.00	5.00	93.83	-6.49	0.00	0.00	0.00
9 5/8"									
1,600.00	5.75	86.95	1,595.34	5.19	97.38	-6.73	0.00	0.00	0.00
1,700.00	5.75	86.95	1,694.84	5.72	107.39	-7.43	0.00	0.00	0.00
1,800.00	5.75	86.95	1,794.34	6.25	117.39	-8.12	0.00	0.00	0.00
1,900.00	5.75	86.95	1,893.83	6.79	127.40	-8.81	0.00	0.00	0.00
2,000.00	5.75	86.95	1,993.33	7.32	137.40	-9.50	0.00	0.00	0.00
2,100.00	5.75	86.95	2,092.83	7.85	147.41	-10.19	0.00	0.00	0.00
2,200.00	5.75	86.95	2,192.33	8.39	157.41	-10.89	0.00	0.00	0.00
2,300.00	5.75	86.95	2,291.82	8.92	167.41	-11.58	0.00	0.00	0.00
2,400.00	5.75	86.95	2,391.32	9.45	177.42	-12.27	0.00	0.00	0.00
2,500.00	5.75	86.95	2,490.82	9.99	187.42	-12.96	0.00	0.00	0.00
2,600.00	5.75	86.95	2,590.31	10.52	197.43	-13.65	0.00	0.00	0.00
2,700.00	5.75	86.95	2,689.81	11.05	207.43	-14.35	0.00	0.00	0.00
2,800.00	5.75	86.95	2,789.31	11.59	217.44	-15.04	0.00	0.00	0.00
2,900.00	5.75	86.95	2,888.80	12.12	227.44	-15.73	0.00	0.00	0.00
3,000.00	5.75	86.95	2,988.30	12.65	237.45	-16.42	0.00	0.00	0.00
3,100.00	5.75	86.95	3,087.80	13.18	247.45	-17.11	0.00	0.00	0.00
3,200.00	5.75	86.95	3,187.29	13.72	257.46	-17.81	0.00	0.00	0.00
3,300.00	5.75	86.95	3,286.79	14.25	267.46	-18.50	0.00	0.00	0.00
3,400.00	5.75	86.95	3,386.29	14.78	277.47	-19.19	0.00	0.00	0.00
3,500.00	5.75	86.95	3,485.78	15.32	287.47	-19.88	0.00	0.00	0.00
3,600.00	5.75	86.95	3,585.28	15.85	297.47	-20.57	0.00	0.00	0.00
3,700.00	5.75	86.95	3,684.78	16.38	307.48	-21.26	0.00	0.00	0.00
3,800.00	5.75	86.95	3,784.27	16.92	317.48	-21.96	0.00	0.00	0.00
3,900.00	5.75	86.95	3,883.77	17.45	327.49	-22.65	0.00	0.00	0.00
4,000.00	5.75	86.95	3,983.27	17.98	337.49	-23.34	0.00	0.00	0.00
4,100.00	5.75	86.95	4,082.77	18.52	347.50	-24.03	0.00	0.00	0.00
4,200.00	5.75	86.95	4,182.26	19.05	357.50	-24.72	0.00	0.00	0.00
4,300.00	5.75	86.95	4,281.76	19.58	367.51	-25.42	0.00	0.00	0.00
4,400.00	5.75	86.95	4,381.26	20.11	377.51	-26.11	0.00	0.00	0.00
4,500.00	5.75	86.95	4,480.75	20.65	387.52	-26.80	0.00	0.00	0.00
4,600.00	5.75	86.95	4,580.25	21.18	397.52	-27.49	0.00	0.00	0.00

# Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PEGGY 2501-10H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 16' @ 4910.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 16' @ 4910.00usft (RIG)
<b>Site:</b>	9N-60W-25 PEGGY 2501 PAD	<b>North Reference:</b>	True
<b>Well:</b>	PEGGY 2501-10H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan B		
<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	5.75	86.95	4,679.75	21.71	407.53	-28.18	0.00	0.00	0.00
4,800.00	5.75	86.95	4,779.24	22.25	417.53	-28.88	0.00	0.00	0.00
4,900.00	5.75	86.95	4,878.74	22.78	427.53	-29.57	0.00	0.00	0.00
5,000.00	5.75	86.95	4,978.24	23.31	437.54	-30.26	0.00	0.00	0.00
5,100.00	5.75	86.95	5,077.73	23.85	447.54	-30.95	0.00	0.00	0.00
5,200.00	5.75	86.95	5,177.23	24.38	457.55	-31.64	0.00	0.00	0.00
5,300.00	5.75	86.95	5,276.73	24.91	467.55	-32.34	0.00	0.00	0.00
5,400.00	5.75	86.95	5,376.22	25.45	477.56	-33.03	0.00	0.00	0.00
5,500.00	5.75	86.95	5,475.72	25.98	487.56	-33.72	0.00	0.00	0.00
5,595.31	5.75	86.95	5,570.55	26.49	497.10	-34.38	0.00	0.00	0.00
KOP @ 5595.31ft :: DLS = 9°/100'									
5,600.00	5.79	91.13	5,575.22	26.49	497.57	-34.39	9.00	0.89	89.09
5,650.00	7.79	126.11	5,624.89	24.45	502.83	-32.43	9.00	4.00	69.96
5,700.00	11.33	143.24	5,674.19	18.51	508.51	-26.58	9.00	7.07	34.26
5,750.00	15.37	151.91	5,722.84	8.73	514.58	-16.90	9.00	8.09	17.33
5,800.00	19.61	156.97	5,770.52	-4.85	520.98	-3.43	9.00	8.48	10.12
5,850.00	23.94	160.27	5,816.94	-22.13	527.69	13.74	9.00	8.66	6.60
5,900.00	28.32	162.60	5,861.82	-43.00	534.67	34.51	9.00	8.76	4.67
5,950.00	32.73	164.36	5,904.88	-67.35	541.86	58.74	9.00	8.82	3.50
6,000.00	37.16	165.73	5,945.85	-95.02	549.24	86.29	9.00	8.86	2.75
6,050.00	41.61	166.85	5,984.49	-125.84	556.74	116.98	9.00	8.89	2.24
6,100.00	46.06	167.79	6,020.54	-159.62	564.32	150.64	9.00	8.91	1.88
6,150.00	50.52	168.60	6,053.80	-196.15	571.95	187.04	9.00	8.92	1.62
6,200.00	54.98	169.31	6,084.06	-235.20	579.56	225.97	9.00	8.93	1.42
6,250.00	59.45	169.95	6,111.12	-276.55	587.12	267.19	9.00	8.94	1.27
6,300.00	63.92	170.53	6,134.83	-319.92	594.58	310.43	9.00	8.94	1.16
6,350.00	68.40	171.07	6,155.04	-365.05	601.88	355.45	9.00	8.95	1.08
6,400.00	72.87	171.58	6,171.61	-411.67	608.99	401.95	9.00	8.95	1.01
6,450.00	77.35	172.06	6,184.46	-459.49	615.87	449.65	9.00	8.95	0.96
6,500.00	81.82	172.52	6,193.49	-508.21	622.46	498.26	9.00	8.95	0.93
6,550.00	86.30	172.98	6,198.66	-557.53	628.74	547.47	9.00	8.95	0.91
6,591.31	90.00	173.35	6,200.00	-598.51	633.65	588.37	9.00	8.95	0.90
TPZ @ 6591.31ft									
6,600.00	90.00	173.35	6,200.00	-607.15	634.66	596.99	0.00	0.00	0.00
6,700.00	90.00	173.35	6,200.00	-706.48	646.24	696.12	0.00	0.00	0.00
6,791.31	90.00	173.35	6,200.00	-797.17	656.81	786.63	0.00	0.00	0.00
Begin Turn to Deflection Point @ 6791.31ft									
6,800.00	90.00	173.52	6,200.00	-805.80	657.80	795.26	2.00	0.00	2.00
6,900.00	90.00	175.52	6,200.00	-905.34	667.35	894.63	2.00	0.00	2.00
7,000.00	90.00	177.52	6,200.00	-1,005.15	673.41	994.33	2.00	0.00	2.00
7,100.00	90.00	179.52	6,200.00	-1,105.12	675.99	1,094.24	2.00	0.00	2.00
7,130.63	90.00	180.14	6,200.00	-1,135.74	676.08	1,124.86	2.00	0.00	2.00
End Turn @ 7130.63ft									
7,200.00	90.00	180.14	6,200.00	-1,205.12	675.91	1,194.23	0.00	0.00	0.00
7,300.00	90.00	180.14	6,200.00	-1,305.11	675.67	1,294.22	0.00	0.00	0.00
7,400.00	90.00	180.14	6,200.00	-1,405.11	675.44	1,394.21	0.00	0.00	0.00
7,500.00	90.00	180.14	6,200.00	-1,505.11	675.20	1,494.20	0.00	0.00	0.00
7,600.00	90.00	180.14	6,200.00	-1,605.11	674.96	1,594.19	0.00	0.00	0.00
7,700.00	90.00	180.14	6,200.00	-1,705.11	674.72	1,694.18	0.00	0.00	0.00
7,800.00	90.00	180.14	6,200.00	-1,805.11	674.48	1,794.17	0.00	0.00	0.00
7,900.00	90.00	180.14	6,200.00	-1,905.11	674.24	1,894.16	0.00	0.00	0.00
8,000.00	90.00	180.14	6,200.00	-2,005.11	674.01	1,994.16	0.00	0.00	0.00
8,100.00	90.00	180.14	6,200.00	-2,105.11	673.77	2,094.15	0.00	0.00	0.00
8,200.00	90.00	180.14	6,200.00	-2,205.11	673.53	2,194.14	0.00	0.00	0.00

## Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PEGGY 2501-10H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 16' @ 4910.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 16' @ 4910.00usft (RIG)
<b>Site:</b>	9N-60W-25 PEGGY 2501 PAD	<b>North Reference:</b>	True
<b>Well:</b>	PEGGY 2501-10H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan B		
<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)
8,300.00	90.00	180.14	6,200.00	-2,305.11	673.29	2,294.13	0.00	0.00	0.00
8,400.00	90.00	180.14	6,200.00	-2,405.11	673.05	2,394.12	0.00	0.00	0.00
8,500.00	90.00	180.14	6,200.00	-2,505.11	672.82	2,494.11	0.00	0.00	0.00
8,600.00	90.00	180.14	6,200.00	-2,605.11	672.58	2,594.10	0.00	0.00	0.00
8,700.00	90.00	180.14	6,200.00	-2,705.11	672.34	2,694.09	0.00	0.00	0.00
8,800.00	90.00	180.14	6,200.00	-2,805.11	672.10	2,794.08	0.00	0.00	0.00
8,900.00	90.00	180.14	6,200.00	-2,905.11	671.86	2,894.07	0.00	0.00	0.00
9,000.00	90.00	180.14	6,200.00	-3,005.11	671.63	2,994.06	0.00	0.00	0.00
9,100.00	90.00	180.14	6,200.00	-3,105.11	671.39	3,094.06	0.00	0.00	0.00
9,200.00	90.00	180.14	6,200.00	-3,205.11	671.15	3,194.05	0.00	0.00	0.00
9,300.00	90.00	180.14	6,200.00	-3,305.11	670.91	3,294.04	0.00	0.00	0.00
9,400.00	90.00	180.14	6,200.00	-3,405.11	670.67	3,394.03	0.00	0.00	0.00
9,500.00	90.00	180.14	6,200.00	-3,505.11	670.43	3,494.02	0.00	0.00	0.00
9,600.00	90.00	180.14	6,200.00	-3,605.11	670.20	3,594.01	0.00	0.00	0.00
9,700.00	90.00	180.14	6,200.00	-3,705.11	669.96	3,694.00	0.00	0.00	0.00
9,800.00	90.00	180.14	6,200.00	-3,805.11	669.72	3,793.99	0.00	0.00	0.00
9,900.00	90.00	180.14	6,200.00	-3,905.11	669.48	3,893.98	0.00	0.00	0.00
10,000.00	90.00	180.14	6,200.00	-4,005.11	669.24	3,993.97	0.00	0.00	0.00
10,100.00	90.00	180.14	6,200.00	-4,105.11	669.01	4,093.96	0.00	0.00	0.00
10,200.00	90.00	180.14	6,200.00	-4,205.11	668.77	4,193.96	0.00	0.00	0.00
10,300.00	90.00	180.14	6,200.00	-4,305.11	668.53	4,293.95	0.00	0.00	0.00
10,400.00	90.00	180.14	6,200.00	-4,405.11	668.29	4,393.94	0.00	0.00	0.00
10,500.00	90.00	180.14	6,200.00	-4,505.11	668.05	4,493.93	0.00	0.00	0.00
10,600.00	90.00	180.14	6,200.00	-4,605.11	667.81	4,593.92	0.00	0.00	0.00
10,700.00	90.00	180.14	6,200.00	-4,705.11	667.58	4,693.91	0.00	0.00	0.00
10,800.00	90.00	180.14	6,200.00	-4,805.10	667.34	4,793.90	0.00	0.00	0.00
10,900.00	90.00	180.14	6,200.00	-4,905.10	667.10	4,893.89	0.00	0.00	0.00
11,000.00	90.00	180.14	6,200.00	-5,005.10	666.86	4,993.88	0.00	0.00	0.00
11,100.00	90.00	180.14	6,200.00	-5,105.10	666.62	5,093.87	0.00	0.00	0.00
11,200.00	90.00	180.14	6,200.00	-5,205.10	666.39	5,193.86	0.00	0.00	0.00
11,300.00	90.00	180.14	6,200.00	-5,305.10	666.15	5,293.85	0.00	0.00	0.00
11,400.00	90.00	180.14	6,200.00	-5,405.10	665.91	5,393.85	0.00	0.00	0.00
11,500.00	90.00	180.14	6,200.00	-5,505.10	665.67	5,493.84	0.00	0.00	0.00
11,600.00	90.00	180.14	6,200.00	-5,605.10	665.43	5,593.83	0.00	0.00	0.00
11,641.25	90.00	180.14	6,200.00	-5,646.35	665.34	5,635.07	0.00	0.00	0.00
Begin Turn to BHL @ 11641.25ft									
11,700.00	90.00	181.31	6,200.00	-5,705.10	664.59	5,693.82	2.00	0.00	2.00
11,805.08	90.00	183.41	6,200.00	-5,810.08	660.26	5,798.86	2.00	0.00	2.00
End Turn @ 11805.08ft									
11,900.00	90.00	183.41	6,200.00	-5,904.83	654.61	5,893.69	0.00	0.00	0.00
12,000.00	90.00	183.41	6,200.00	-6,004.66	648.66	5,993.60	0.00	0.00	0.00
12,100.00	90.00	183.41	6,200.00	-6,104.48	642.71	6,093.50	0.00	0.00	0.00
12,200.00	90.00	183.41	6,200.00	-6,204.30	636.75	6,193.41	0.00	0.00	0.00
12,300.00	90.00	183.41	6,200.00	-6,304.12	630.80	6,293.31	0.00	0.00	0.00
12,400.00	90.00	183.41	6,200.00	-6,403.95	624.85	6,393.22	0.00	0.00	0.00
12,500.00	90.00	183.41	6,200.00	-6,503.77	618.89	6,493.12	0.00	0.00	0.00
12,600.00	90.00	183.41	6,200.00	-6,603.59	612.94	6,593.02	0.00	0.00	0.00
12,700.00	90.00	183.41	6,200.00	-6,703.41	606.99	6,692.93	0.00	0.00	0.00
12,800.00	90.00	183.41	6,200.00	-6,803.24	601.03	6,792.83	0.00	0.00	0.00
12,900.00	90.00	183.41	6,200.00	-6,903.06	595.08	6,892.74	0.00	0.00	0.00
13,000.00	90.00	183.41	6,200.00	-7,002.88	589.13	6,992.64	0.00	0.00	0.00
13,100.00	90.00	183.41	6,200.00	-7,102.71	583.17	7,092.55	0.00	0.00	0.00
13,200.00	90.00	183.41	6,200.00	-7,202.53	577.22	7,192.45	0.00	0.00	0.00

## Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PEGGY 2501-10H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 16' @ 4910.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 16' @ 4910.00usft (RIG)
<b>Site:</b>	9N-60W-25 PEGGY 2501 PAD	<b>North Reference:</b>	True
<b>Well:</b>	PEGGY 2501-10H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan B		
<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)	
13,300.00	90.00	183.41	6,200.00	-7,302.35	571.27	7,292.36	0.00	0.00	0.00	
13,400.00	90.00	183.41	6,200.00	-7,402.17	565.31	7,392.26	0.00	0.00	0.00	
13,500.00	90.00	183.41	6,200.00	-7,502.00	559.36	7,492.17	0.00	0.00	0.00	
13,600.00	90.00	183.41	6,200.00	-7,601.82	553.41	7,592.07	0.00	0.00	0.00	
13,700.00	90.00	183.41	6,200.00	-7,701.64	547.45	7,691.98	0.00	0.00	0.00	
13,800.00	90.00	183.41	6,200.00	-7,801.46	541.50	7,791.88	0.00	0.00	0.00	
13,900.00	90.00	183.41	6,200.00	-7,901.29	535.55	7,891.78	0.00	0.00	0.00	
14,000.00	90.00	183.41	6,200.00	-8,001.11	529.59	7,991.69	0.00	0.00	0.00	
14,100.00	90.00	183.41	6,200.00	-8,100.93	523.64	8,091.59	0.00	0.00	0.00	
14,200.00	90.00	183.41	6,200.00	-8,200.75	517.69	8,191.50	0.00	0.00	0.00	
14,212.08	90.00	183.41	6,200.00	-8,212.81	516.97	8,203.57	0.00	0.00	0.00	
BPZ @ 14212.08ft										
14,302.08	90.00	183.41	6,200.00	-8,302.65	511.61	8,293.48	0.00	0.00	0.00	
TD Well @ 14302.08ft										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
1,564.48	1,560.00	9 5/8"		9-5/8	13-1/2

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
483.00	483.00	0.00	0.00	Begin Nudge @ 483.00ft	
770.50	770.02	0.77	14.39	Hold Tangent @ 770.50ft	
5,595.31	5,570.55	26.49	497.10	KOP @ 5595.31ft :: DLS = 9°/100'	
6,591.31	6,200.00	-598.51	633.65	TPZ @ 6591.31ft	
6,791.31	6,200.00	-797.17	656.81	Begin Turn to Deflection Point @ 6791.31ft	
7,130.63	6,200.00	-1,135.74	676.08	End Turn @ 7130.63ft	
11,641.25	6,200.00	-5,646.35	665.34	Begin Turn to BHL @ 11641.25ft	
11,805.08	6,200.00	-5,810.08	660.26	End Turn @ 11805.08ft	
14,212.08	6,200.00	-8,212.81	516.97	BPZ @ 14212.08ft	
14,302.08	6,200.00	-8,302.65	511.61	TD Well @ 14302.08ft	