

VERDAD RESOURCES

WATTENBERG FIELD

9N-60W-25 PEGGY 2501 PAD

PEGGY 2501-06H

Plan B

Plan: Design #1

Standard Planning Report

11 October, 2021

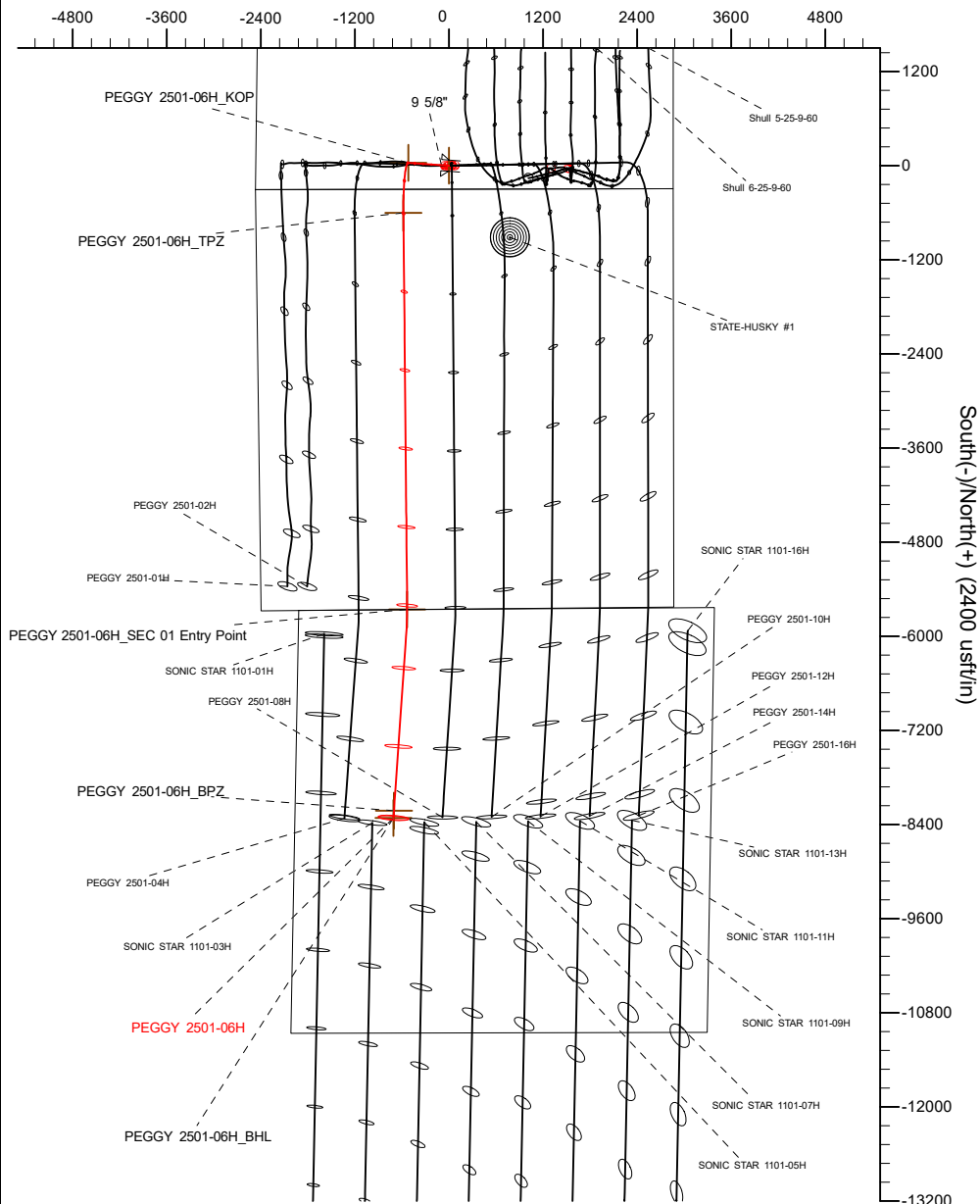
Project: WATTENBERG FIELD
Site: 9N-60W-25 PEGGY 2501 PAD
Well: PEGGY 2501-06H
Wellbore: Plan B
Design: Design #1

VERDAD RESOURCES

CASING DETAILS

TVD	MD	Name	Size
1560.00	1564.72	9 5/8"	9-5/8

West(-)/East(+) (2400 usft/in)



SHL
300' FSL
2464' FWL

KOP
337' FSL
1944' FWL

TPZ
300' FNL
1883' FWL

SEC 01 Entry
0' FSL
1863' FWL

BPZ
2565' FNL
1262' FWL

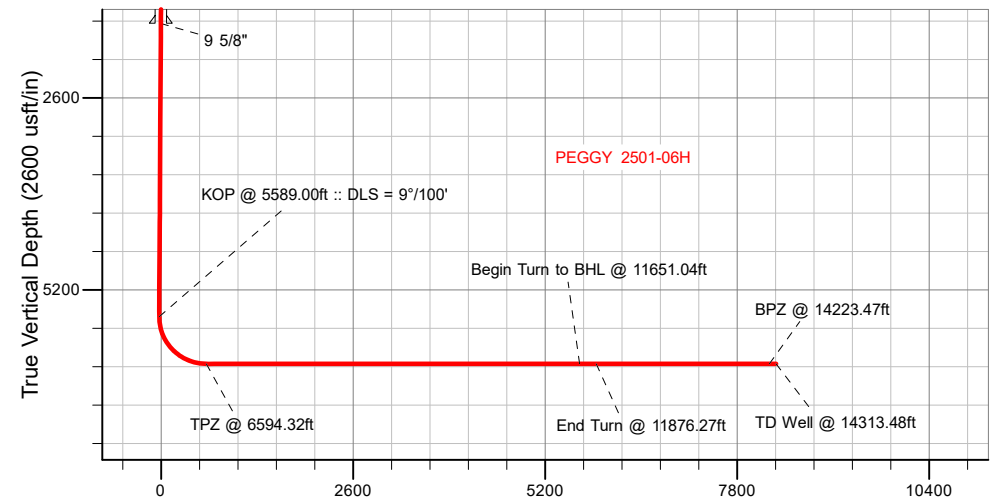
BHL
2655' FNL
1258' FWL

SECTION DETAILS

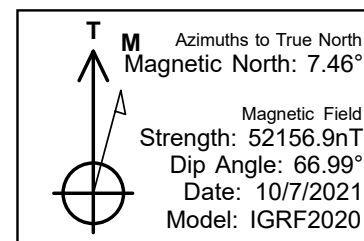
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	522.87	0.00	0.00	522.87	0.00	0.00	0.00	0.00	0.00	
3	826.87	6.08	273.98	826.30	1.12	-16.08	2.00	273.98	-0.85	
4	5589.00	6.08	273.98	5561.64	36.13	-519.25	0.00	0.00	-27.60	
5	6594.32	90.00	179.45	6200.00	-601.09	-580.95	9.00	-94.50	610.54	
6	11651.04	90.00	179.45	6200.00	-5657.58	-532.66	0.00	0.00	5665.55	PEGGY 2501-06H_SEC 01 Entry Point
7	11876.27	90.00	183.96	6200.00	-5882.65	-539.36	2.00	90.00	5890.70	
8	14313.48	90.00	183.96	6200.00	-8314.05	-707.56	0.00	0.00	8324.54	PEGGY 2501-06H_BHL

WELLBORE TARGET DETAILS (LAT/LONG)

Name	MD	TVD	+N/-S	+E/-W	Latitude	Longitude
PEGGY 2501-06H_SHL	0.00	0.00	0.00	0.00	40.714775	-104.040654
PEGGY 2501-06H_KOP	5589.00	5561.64	36.13	-519.25	40.714874	-104.042527
PEGGY 2501-06H_TPZ	6594.32	6200.00	-601.09	-580.95	40.713125	-104.042749
PEGGY 2501-06H_SEC 01 Entry Point	11651.04	6200.00	-5657.58	-532.66	40.699246	-104.042575
PEGGY 2501-06H_BPZ	14223.47	6200.00	-8224.25	-701.62	40.692201	-104.043184
PEGGY 2501-06H_BHL	14313.48	6200.00	-8314.05	-707.56	40.691955	-104.043205



Vertical Section at 180.94° (2600 usft/in)



WELL DETAILS: PEGGY 2501-06H

GL = 4894'

RKB = 16' @ 4910.00usft (RIG)

Plan: Design #1 (PEGGY 2501-06H/Plan B)

Date: 10/11/2021

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well PEGGY 2501-06H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 16' @ 4910.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 16' @ 4910.00usft (RIG)
Site:	9N-60W-25 PEGGY 2501 PAD	North Reference:	True
Well:	PEGGY 2501-06H	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		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 2501-06H				
Well Position	+N/-S	0.00 usft	Northing:	1,506,565.34 usft	Latitude:	40.714775
	+E/-W	0.00 usft	Easting:	3,404,537.54 usft	Longitude:	-104.040654
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft	Ground Level:	4,894.00 usft
Grid Convergence:		0.94 °				

Wellbore	Plan B				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF202013	10/7/2021	7.46	66.99	52,156.90171898

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	180.94	

Plan Survey Tool Program	Date	10/11/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	1,560.00	Design #1 (Plan B)	ISCWSA MWD	
				Fixed:v2:standard declination	
2	1,560.00	14,313.49	Design #1 (Plan B)	ISCWSA MWD	
				Fixed:v2:standard declination	

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Site:	9N-60W-25 PEGGY 2501 PAD	North Reference:	True
Well:	PEGGY 2501-06H	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	
522.87	0.00	0.00	522.87	0.00	0.00	0.00	0.00	0.00	0.00	
826.87	6.08	273.98	826.30	1.12	-16.08	2.00	2.00	0.00	273.98	
5,589.00	6.08	273.98	5,561.64	36.13	-519.25	0.00	0.00	0.00	0.00	
6,594.32	90.00	179.45	6,200.00	-601.09	-580.95	9.00	8.35	-9.40	-94.50	
11,651.04	90.00	179.45	6,200.00	-5,657.58	-532.66	0.00	0.00	0.00	0.00	PEGGY 2501-06H_SI
11,876.27	90.00	183.96	6,200.00	-5,882.65	-539.36	2.00	0.00	2.00	90.00	
14,313.49	90.00	183.96	6,200.00	-8,314.05	-707.56	0.00	0.00	0.00	0.00	PEGGY 2501-06H_BI

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well PEGGY 2501-06H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 16' @ 4910.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 16' @ 4910.00usft (RIG)
Site:	9N-60W-25 PEGGY 2501 PAD	North Reference:	True
Well:	PEGGY 2501-06H	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
300.00	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
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
522.87	0.00	0.00	522.87	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 522.87ft									
600.00	1.54	273.98	599.99	0.07	-1.04	-0.06	2.00	2.00	0.00
700.00	3.54	273.98	699.89	0.38	-5.46	-0.29	2.00	2.00	0.00
800.00	5.54	273.98	799.57	0.93	-13.36	-0.71	2.00	2.00	0.00
826.87	6.08	273.98	826.30	1.12	-16.08	-0.85	2.00	2.00	0.00
Hold Tangent @ 826.87ft									
900.00	6.08	273.98	899.02	1.66	-23.80	-1.27	0.00	0.00	0.00
1,000.00	6.08	273.98	998.46	2.39	-34.37	-1.83	0.00	0.00	0.00
1,100.00	6.08	273.98	1,097.89	3.13	-44.93	-2.39	0.00	0.00	0.00
1,200.00	6.08	273.98	1,197.33	3.86	-55.50	-2.95	0.00	0.00	0.00
1,300.00	6.08	273.98	1,296.77	4.60	-66.07	-3.51	0.00	0.00	0.00
1,400.00	6.08	273.98	1,396.21	5.33	-76.63	-4.07	0.00	0.00	0.00
1,500.00	6.08	273.98	1,495.64	6.07	-87.20	-4.64	0.00	0.00	0.00
1,564.72	6.08	273.98	1,560.00	6.54	-94.04	-5.00	0.00	0.00	0.00
9 5/8"									
1,600.00	6.08	273.98	1,595.08	6.80	-97.77	-5.20	0.00	0.00	0.00
1,700.00	6.08	273.98	1,694.52	7.54	-108.33	-5.76	0.00	0.00	0.00
1,800.00	6.08	273.98	1,793.96	8.27	-118.90	-6.32	0.00	0.00	0.00
1,900.00	6.08	273.98	1,893.39	9.01	-129.46	-6.88	0.00	0.00	0.00
2,000.00	6.08	273.98	1,992.83	9.74	-140.03	-7.44	0.00	0.00	0.00
2,100.00	6.08	273.98	2,092.27	10.48	-150.60	-8.01	0.00	0.00	0.00
2,200.00	6.08	273.98	2,191.71	11.21	-161.16	-8.57	0.00	0.00	0.00
2,300.00	6.08	273.98	2,291.14	11.95	-171.73	-9.13	0.00	0.00	0.00
2,400.00	6.08	273.98	2,390.58	12.68	-182.29	-9.69	0.00	0.00	0.00
2,500.00	6.08	273.98	2,490.02	13.42	-192.86	-10.25	0.00	0.00	0.00
2,600.00	6.08	273.98	2,589.46	14.15	-203.43	-10.81	0.00	0.00	0.00
2,700.00	6.08	273.98	2,688.89	14.89	-213.99	-11.38	0.00	0.00	0.00
2,800.00	6.08	273.98	2,788.33	15.62	-224.56	-11.94	0.00	0.00	0.00
2,900.00	6.08	273.98	2,887.77	16.36	-235.13	-12.50	0.00	0.00	0.00
3,000.00	6.08	273.98	2,987.21	17.09	-245.69	-13.06	0.00	0.00	0.00
3,100.00	6.08	273.98	3,086.64	17.83	-256.26	-13.62	0.00	0.00	0.00
3,200.00	6.08	273.98	3,186.08	18.56	-266.82	-14.18	0.00	0.00	0.00
3,300.00	6.08	273.98	3,285.52	19.30	-277.39	-14.75	0.00	0.00	0.00
3,400.00	6.08	273.98	3,384.96	20.03	-287.96	-15.31	0.00	0.00	0.00
3,500.00	6.08	273.98	3,484.39	20.77	-298.52	-15.87	0.00	0.00	0.00
3,600.00	6.08	273.98	3,583.83	21.51	-309.09	-16.43	0.00	0.00	0.00
3,700.00	6.08	273.98	3,683.27	22.24	-319.65	-16.99	0.00	0.00	0.00
3,800.00	6.08	273.98	3,782.71	22.98	-330.22	-17.55	0.00	0.00	0.00
3,900.00	6.08	273.98	3,882.14	23.71	-340.79	-18.12	0.00	0.00	0.00
4,000.00	6.08	273.98	3,981.58	24.45	-351.35	-18.68	0.00	0.00	0.00
4,100.00	6.08	273.98	4,081.02	25.18	-361.92	-19.24	0.00	0.00	0.00
4,200.00	6.08	273.98	4,180.46	25.92	-372.49	-19.80	0.00	0.00	0.00
4,300.00	6.08	273.98	4,279.89	26.65	-383.05	-20.36	0.00	0.00	0.00
4,400.00	6.08	273.98	4,379.33	27.39	-393.62	-20.93	0.00	0.00	0.00
4,500.00	6.08	273.98	4,478.77	28.12	-404.18	-21.49	0.00	0.00	0.00
4,600.00	6.08	273.98	4,578.21	28.86	-414.75	-22.05	0.00	0.00	0.00

Planning Report

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Company:	VERDAD RESOURCES	TVD Reference:	RKB = 16' @ 4910.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 16' @ 4910.00usft (RIG)
Site:	9N-60W-25 PEGGY 2501 PAD	North Reference:	True
Well:	PEGGY 2501-06H	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)
4,700.00	6.08	273.98	4,677.64	29.59	-425.32	-22.61	0.00	0.00	0.00
4,800.00	6.08	273.98	4,777.08	30.33	-435.88	-23.17	0.00	0.00	0.00
4,900.00	6.08	273.98	4,876.52	31.06	-446.45	-23.73	0.00	0.00	0.00
5,000.00	6.08	273.98	4,975.96	31.80	-457.01	-24.30	0.00	0.00	0.00
5,100.00	6.08	273.98	5,075.39	32.53	-467.58	-24.86	0.00	0.00	0.00
5,200.00	6.08	273.98	5,174.83	33.27	-478.15	-25.42	0.00	0.00	0.00
5,300.00	6.08	273.98	5,274.27	34.00	-488.71	-25.98	0.00	0.00	0.00
5,400.00	6.08	273.98	5,373.71	34.74	-499.28	-26.54	0.00	0.00	0.00
5,500.00	6.08	273.98	5,473.14	35.47	-509.85	-27.10	0.00	0.00	0.00
5,589.00	6.08	273.98	5,561.64	36.13	-519.25	-27.60	0.00	0.00	0.00
KOP @ 5589.00ft :: DLS = 9°/100'									
5,600.00	6.08	264.62	5,572.58	36.11	-520.41	-27.57	9.00	0.02	-85.05
5,650.00	7.86	229.75	5,622.23	33.66	-525.66	-25.03	9.00	3.55	-69.76
5,700.00	11.26	211.67	5,671.54	27.29	-530.84	-18.58	9.00	6.81	-36.15
5,750.00	15.24	202.39	5,720.20	17.05	-535.90	-8.26	9.00	7.96	-18.57
5,800.00	19.44	196.96	5,767.92	3.00	-540.84	5.87	9.00	8.41	-10.86
5,850.00	23.75	193.41	5,814.40	-14.76	-545.60	23.71	9.00	8.62	-7.08
5,900.00	28.12	190.91	5,859.36	-36.14	-550.17	45.16	9.00	8.73	-5.00
5,950.00	32.52	189.04	5,902.51	-60.99	-554.52	70.08	9.00	8.80	-3.75
6,000.00	36.94	187.57	5,943.59	-89.17	-558.61	98.33	9.00	8.84	-2.94
6,050.00	41.38	186.38	5,982.35	-120.51	-562.43	129.72	9.00	8.87	-2.39
6,100.00	45.82	185.37	6,018.55	-154.80	-565.94	164.06	9.00	8.89	-2.00
6,150.00	50.28	184.51	6,051.97	-191.84	-569.14	201.15	9.00	8.91	-1.72
6,200.00	54.74	183.76	6,082.39	-231.40	-571.99	240.75	9.00	8.92	-1.51
6,250.00	59.20	183.08	6,109.64	-273.23	-574.49	282.62	9.00	8.93	-1.35
6,300.00	63.67	182.46	6,133.54	-317.08	-576.60	326.50	9.00	8.93	-1.23
6,350.00	68.14	181.89	6,153.94	-362.68	-578.34	372.12	9.00	8.94	-1.14
6,400.00	72.61	181.36	6,170.73	-409.75	-579.67	419.20	9.00	8.94	-1.07
6,450.00	77.08	180.85	6,183.80	-457.99	-580.60	467.45	9.00	8.95	-1.02
6,500.00	81.56	180.36	6,193.06	-507.11	-581.11	516.57	9.00	8.95	-0.98
6,550.00	86.03	179.87	6,198.46	-556.80	-581.21	566.26	9.00	8.95	-0.96
6,594.32	90.00	179.45	6,200.00	-601.09	-580.95	610.54	9.00	8.95	-0.95
TPZ @ 6594.32ft									
6,600.00	90.00	179.45	6,200.00	-606.77	-580.90	616.21	0.00	0.00	0.00
6,700.00	90.00	179.45	6,200.00	-706.76	-579.94	716.18	0.00	0.00	0.00
6,800.00	90.00	179.45	6,200.00	-806.76	-578.99	816.15	0.00	0.00	0.00
6,900.00	90.00	179.45	6,200.00	-906.75	-578.03	916.11	0.00	0.00	0.00
7,000.00	90.00	179.45	6,200.00	-1,006.75	-577.08	1,016.08	0.00	0.00	0.00
7,100.00	90.00	179.45	6,200.00	-1,106.74	-576.12	1,116.05	0.00	0.00	0.00
7,200.00	90.00	179.45	6,200.00	-1,206.74	-575.17	1,216.01	0.00	0.00	0.00
7,300.00	90.00	179.45	6,200.00	-1,306.73	-574.21	1,315.98	0.00	0.00	0.00
7,400.00	90.00	179.45	6,200.00	-1,406.73	-573.26	1,415.94	0.00	0.00	0.00
7,500.00	90.00	179.45	6,200.00	-1,506.72	-572.30	1,515.91	0.00	0.00	0.00
7,600.00	90.00	179.45	6,200.00	-1,606.72	-571.35	1,615.88	0.00	0.00	0.00
7,700.00	90.00	179.45	6,200.00	-1,706.72	-570.39	1,715.84	0.00	0.00	0.00
7,800.00	90.00	179.45	6,200.00	-1,806.71	-569.44	1,815.81	0.00	0.00	0.00
7,900.00	90.00	179.45	6,200.00	-1,906.71	-568.48	1,915.78	0.00	0.00	0.00
8,000.00	90.00	179.45	6,200.00	-2,006.70	-567.53	2,015.74	0.00	0.00	0.00
8,100.00	90.00	179.45	6,200.00	-2,106.70	-566.57	2,115.71	0.00	0.00	0.00
8,200.00	90.00	179.45	6,200.00	-2,206.69	-565.62	2,215.68	0.00	0.00	0.00
8,300.00	90.00	179.45	6,200.00	-2,306.69	-564.66	2,315.64	0.00	0.00	0.00
8,400.00	90.00	179.45	6,200.00	-2,406.68	-563.70	2,415.61	0.00	0.00	0.00
8,500.00	90.00	179.45	6,200.00	-2,506.68	-562.75	2,515.57	0.00	0.00	0.00
8,600.00	90.00	179.45	6,200.00	-2,606.67	-561.79	2,615.54	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well PEGGY 2501-06H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 16' @ 4910.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 16' @ 4910.00usft (RIG)
Site:	9N-60W-25 PEGGY 2501 PAD	North Reference:	True
Well:	PEGGY 2501-06H	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)	
8,700.00	90.00	179.45	6,200.00	-2,706.67	-560.84	2,715.51	0.00	0.00	0.00	
8,800.00	90.00	179.45	6,200.00	-2,806.67	-559.88	2,815.47	0.00	0.00	0.00	
8,900.00	90.00	179.45	6,200.00	-2,906.66	-558.93	2,915.44	0.00	0.00	0.00	
9,000.00	90.00	179.45	6,200.00	-3,006.66	-557.97	3,015.41	0.00	0.00	0.00	
9,100.00	90.00	179.45	6,200.00	-3,106.65	-557.02	3,115.37	0.00	0.00	0.00	
9,200.00	90.00	179.45	6,200.00	-3,206.65	-556.06	3,215.34	0.00	0.00	0.00	
9,300.00	90.00	179.45	6,200.00	-3,306.64	-555.11	3,315.30	0.00	0.00	0.00	
9,400.00	90.00	179.45	6,200.00	-3,406.64	-554.15	3,415.27	0.00	0.00	0.00	
9,500.00	90.00	179.45	6,200.00	-3,506.63	-553.20	3,515.24	0.00	0.00	0.00	
9,600.00	90.00	179.45	6,200.00	-3,606.63	-552.24	3,615.20	0.00	0.00	0.00	
9,700.00	90.00	179.45	6,200.00	-3,706.62	-551.29	3,715.17	0.00	0.00	0.00	
9,800.00	90.00	179.45	6,200.00	-3,806.62	-550.33	3,815.14	0.00	0.00	0.00	
9,900.00	90.00	179.45	6,200.00	-3,906.62	-549.38	3,915.10	0.00	0.00	0.00	
10,000.00	90.00	179.45	6,200.00	-4,006.61	-548.42	4,015.07	0.00	0.00	0.00	
10,100.00	90.00	179.45	6,200.00	-4,106.61	-547.47	4,115.04	0.00	0.00	0.00	
10,200.00	90.00	179.45	6,200.00	-4,206.60	-546.51	4,215.00	0.00	0.00	0.00	
10,300.00	90.00	179.45	6,200.00	-4,306.60	-545.56	4,314.97	0.00	0.00	0.00	
10,400.00	90.00	179.45	6,200.00	-4,406.59	-544.60	4,414.93	0.00	0.00	0.00	
10,500.00	90.00	179.45	6,200.00	-4,506.59	-543.65	4,514.90	0.00	0.00	0.00	
10,600.00	90.00	179.45	6,200.00	-4,606.58	-542.69	4,614.87	0.00	0.00	0.00	
10,700.00	90.00	179.45	6,200.00	-4,706.58	-541.74	4,714.83	0.00	0.00	0.00	
10,800.00	90.00	179.45	6,200.00	-4,806.57	-540.78	4,814.80	0.00	0.00	0.00	
10,900.00	90.00	179.45	6,200.00	-4,906.57	-539.83	4,914.77	0.00	0.00	0.00	
11,000.00	90.00	179.45	6,200.00	-5,006.57	-538.87	5,014.73	0.00	0.00	0.00	
11,100.00	90.00	179.45	6,200.00	-5,106.56	-537.92	5,114.70	0.00	0.00	0.00	
11,200.00	90.00	179.45	6,200.00	-5,206.56	-536.96	5,214.66	0.00	0.00	0.00	
11,300.00	90.00	179.45	6,200.00	-5,306.55	-536.01	5,314.63	0.00	0.00	0.00	
11,400.00	90.00	179.45	6,200.00	-5,406.55	-535.05	5,414.60	0.00	0.00	0.00	
11,500.00	90.00	179.45	6,200.00	-5,506.54	-534.10	5,514.56	0.00	0.00	0.00	
11,600.00	90.00	179.45	6,200.00	-5,606.54	-533.14	5,614.53	0.00	0.00	0.00	
11,651.04	90.00	179.45	6,200.00	-5,657.58	-532.66	5,665.55	0.00	0.00	0.00	
Begin Turn to BHL @ 11651.04ft										
11,700.00	90.00	180.43	6,200.00	-5,706.54	-532.61	5,714.50	2.00	0.00	2.00	
11,800.00	90.00	182.43	6,200.00	-5,806.50	-535.11	5,814.50	2.00	0.00	2.00	
11,876.27	90.00	183.96	6,200.00	-5,882.65	-539.36	5,890.70	2.00	0.00	2.00	
End Turn @ 11876.27ft										
11,900.00	90.00	183.96	6,200.00	-5,906.32	-540.99	5,914.40	0.00	0.00	0.00	
12,000.00	90.00	183.96	6,200.00	-6,006.08	-547.90	6,014.26	0.00	0.00	0.00	
12,100.00	90.00	183.96	6,200.00	-6,105.84	-554.80	6,114.12	0.00	0.00	0.00	
12,200.00	90.00	183.96	6,200.00	-6,205.61	-561.70	6,213.99	0.00	0.00	0.00	
12,300.00	90.00	183.96	6,200.00	-6,305.37	-568.60	6,313.85	0.00	0.00	0.00	
12,400.00	90.00	183.96	6,200.00	-6,405.13	-575.50	6,413.71	0.00	0.00	0.00	
12,500.00	90.00	183.96	6,200.00	-6,504.89	-582.40	6,513.57	0.00	0.00	0.00	
12,600.00	90.00	183.96	6,200.00	-6,604.65	-589.30	6,613.43	0.00	0.00	0.00	
12,700.00	90.00	183.96	6,200.00	-6,704.41	-596.21	6,713.29	0.00	0.00	0.00	
12,800.00	90.00	183.96	6,200.00	-6,804.18	-603.11	6,813.15	0.00	0.00	0.00	
12,900.00	90.00	183.96	6,200.00	-6,903.94	-610.01	6,913.02	0.00	0.00	0.00	
13,000.00	90.00	183.96	6,200.00	-7,003.70	-616.91	7,012.88	0.00	0.00	0.00	
13,100.00	90.00	183.96	6,200.00	-7,103.46	-623.81	7,112.74	0.00	0.00	0.00	
13,200.00	90.00	183.96	6,200.00	-7,203.22	-630.71	7,212.60	0.00	0.00	0.00	
13,300.00	90.00	183.96	6,200.00	-7,302.98	-637.61	7,312.46	0.00	0.00	0.00	
13,400.00	90.00	183.96	6,200.00	-7,402.74	-644.52	7,412.32	0.00	0.00	0.00	
13,500.00	90.00	183.96	6,200.00	-7,502.51	-651.42	7,512.18	0.00	0.00	0.00	
13,600.00	90.00	183.96	6,200.00	-7,602.27	-658.32	7,612.04	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well PEGGY 2501-06H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 16' @ 4910.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 16' @ 4910.00usft (RIG)
Site:	9N-60W-25 PEGGY 2501 PAD	North Reference:	True
Well:	PEGGY 2501-06H	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)	
13,700.00	90.00	183.96	6,200.00	-7,702.03	-665.22	7,711.91	0.00	0.00	0.00	
13,800.00	90.00	183.96	6,200.00	-7,801.79	-672.12	7,811.77	0.00	0.00	0.00	
13,900.00	90.00	183.96	6,200.00	-7,901.55	-679.02	7,911.63	0.00	0.00	0.00	
14,000.00	90.00	183.96	6,200.00	-8,001.31	-685.92	8,011.49	0.00	0.00	0.00	
14,100.00	90.00	183.96	6,200.00	-8,101.08	-692.83	8,111.35	0.00	0.00	0.00	
14,200.00	90.00	183.96	6,200.00	-8,200.84	-699.73	8,211.21	0.00	0.00	0.00	
14,223.47	90.00	183.96	6,200.00	-8,224.25	-701.35	8,234.65	0.00	0.00	0.00	
BPZ @ 14223.47ft										
14,300.00	90.00	183.96	6,200.00	-8,300.60	-706.63	8,311.07	0.00	0.00	0.00	
14,313.49	90.00	183.96	6,200.00	-8,314.05	-707.56	8,324.54	0.00	0.00	0.00	
TD Well @ 14313.48ft										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
1,564.72	1,560.00	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)		
522.87	522.87	0.00	0.00	Begin Nudge @ 522.87ft	
826.87	826.30	1.12	-16.08	Hold Tangent @ 826.87ft	
5,589.00	5,561.64	36.13	-519.25	KOP @ 5589.00ft :: DLS = 9°/100'	
6,594.32	6,200.00	-601.09	-580.95	TPZ @ 6594.32ft	
11,651.04	6,200.00	-5,657.58	-532.66	Begin Turn to BHL @ 11651.04ft	
11,876.27	6,200.00	-5,882.65	-539.36	End Turn @ 11876.27ft	
14,223.47	6,200.00	-8,224.25	-701.35	BPZ @ 14223.47ft	
14,313.49	6,200.00	-8,314.05	-707.56	TD Well @ 14313.48ft	