

VERDAD RESOURCES

WATTENBERG FIELD

9N-60W-25 PEGGY 2501 PAD

PEGGY 2501-12H

Wellbore #2

Plan: Design #1

Standard Planning Report

30 October, 2019

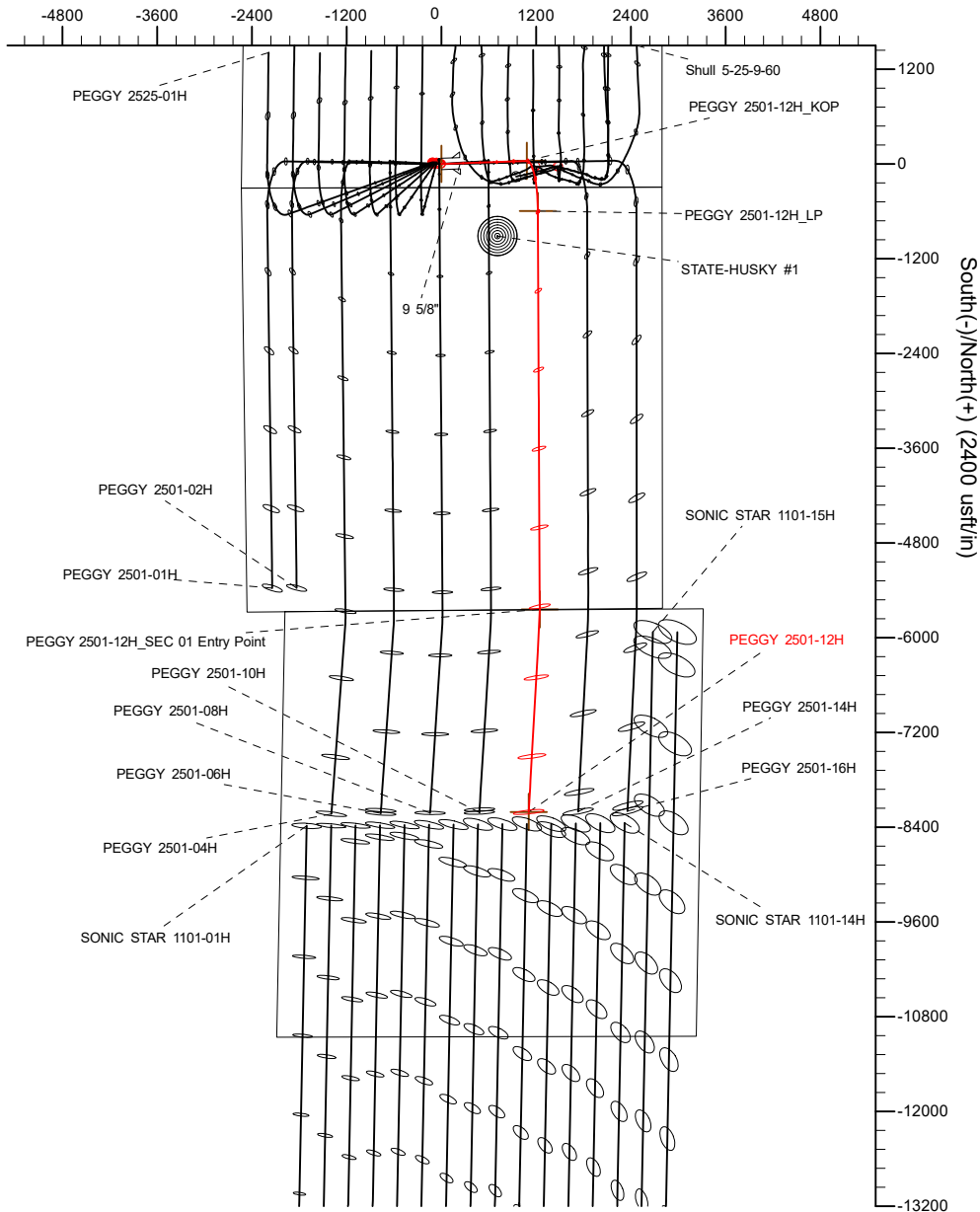
Project: WATTENBERG FIELD
Site: 9N-60W-25 PEGGY 2501 PAD
Well: PEGGY 2501-12H
Wellbore: Wellbore #2
Design: Design #1

VERDAD RESOURCES

CASING DETAILS

TVD	MD	Name	Size
1700.00	1723.27	9 5/8"	9-5/8

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



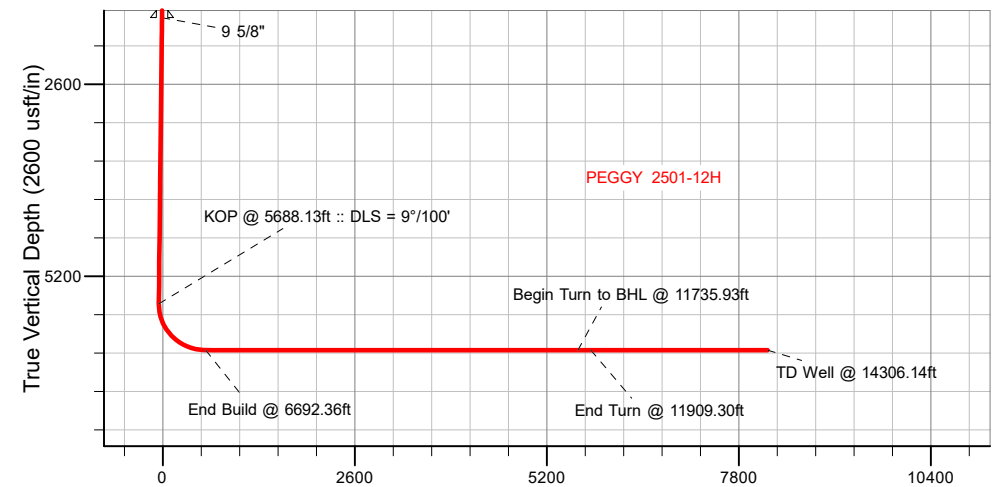
SHL 300' FSL 2532' FWL	KOP 338' FSL 1713' FEL	LP 300' FNL 1572' FEL	SEC 01 Entry 0' FSL 1555' FEL	BHL 2565' FNL 2168' FEL
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SECTION DETAILS

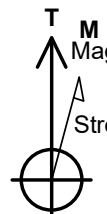
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
3	915.00	12.30	87.95	910.29	2.35	65.72	2.00	87.95	-3.35	
4	5688.13	12.30	87.95	5573.85	38.73	1081.89	0.00	0.00	-55.15	
5	6692.36	90.00	179.74	6200.00	-597.25	1221.27	9.00	91.75	578.63	
6	11735.93	90.00	179.74	6200.00	-5640.76	1244.46	0.00	0.00	5621.21	PEGGY 2501-12H_SEC 01 Entry Point
7	11909.30	90.00	183.20	6200.00	-5814.06	1240.02	2.00	90.00	5794.56	
8	14306.14	90.00	183.20	6200.00	-8207.15	1106.05	0.00	0.00	8189.41	PEGGY 2501-12H_BHL

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
PEGGY 2501-12H_SHL	0.00	0.00	0.00	40.714775	-104.040409
PEGGY 2501-12H_KOP	5573.85	38.73	1081.89	40.714882	-104.036506
PEGGY 2501-12H_SEC 01 Entry Point	6200.00	-5640.76	1244.46	40.699293	-104.035921
PEGGY 2501-12H_BHL	6200.00	-8207.15	1106.05	40.692248	-104.036421



Vertical Section at 180.87° (2600 usft/in)

	WELL DETAILS: PEGGY 2501-12H	
	GL = 4893'	
	RKB = 16' @ 4909.00usft (RIG)	
	Plan: Design #1 (PEGGY 2501-12H/Wellbore #2)	
SherryEnergy.com		Date: 10/30/2019

Hewlett-Packard

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well PEGGY 2501-12H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 16' @ 4909.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 16' @ 4909.00usft (RIG)
Site:	9N-60W-25 PEGGY 2501 PAD	North Reference:	True
Well:	PEGGY 2501-12H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2		
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 "	Grid Convergence: 0.94 °

Well	PEGGY 2501-12H			
Well Position	+N/-S	0.25 usft	Northing:	1,506,566.60 usft
	+E/-W	120.12 usft	Easting:	3,404,605.36 usft
Position Uncertainty		3.28 usft	Wellhead Elevation:	Ground Level: 4,893.00 usft

Wellbore	Wellbore #2				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/30/2019	7.59	67.15	52,356.34316506

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	180.87

Plan Survey Tool Program	Date	10/30/2019		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	1,700.00	Design #1 (Wellbore #2)	ISCWSA REV 2 MWD Fixed:v2:standard declination
2	1,700.00	14,306.14	Design #1 (Wellbore #2)	ISCWSA REV 2 MWD Fixed:v2:standard declination

Hewlett-Packard
Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well PEGGY 2501-12H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 16' @ 4909.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 16' @ 4909.00usft (RIG)
Site:	9N-60W-25 PEGGY 2501 PAD	North Reference:	True
Well:	PEGGY 2501-12H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2		
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	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
915.00	12.30	87.95	910.29	2.35	65.72	2.00	2.00	0.00	87.95	
5,688.13	12.30	87.95	5,573.85	38.73	1,081.89	0.00	0.00	0.00	0.00	
6,692.36	90.00	179.74	6,200.00	-597.25	1,221.27	9.00	7.74	9.14	91.75	
11,735.93	90.00	179.74	6,200.00	-5,640.76	1,244.46	0.00	0.00	0.00	0.00	PEGGY 2501-12H_D
11,909.30	90.00	183.20	6,200.00	-5,814.06	1,240.02	2.00	0.00	2.00	90.00	
14,306.14	90.00	183.20	6,200.00	-8,207.15	1,106.05	0.00	0.00	0.00	0.00	PEGGY 2501-12H_BI

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Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well PEGGY 2501-12H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 16' @ 4909.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 16' @ 4909.00usft (RIG)
Site:	9N-60W-25 PEGGY 2501 PAD	North Reference:	True
Well:	PEGGY 2501-12H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2		
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
Begin Nudge @ 300.00ft									
400.00	2.00	87.95	399.98	0.06	1.74	-0.09	2.00	2.00	0.00
500.00	4.00	87.95	499.84	0.25	6.97	-0.36	2.00	2.00	0.00
600.00	6.00	87.95	599.45	0.56	15.68	-0.80	2.00	2.00	0.00
700.00	8.00	87.95	698.70	1.00	27.86	-1.42	2.00	2.00	0.00
800.00	10.00	87.95	797.47	1.56	43.49	-2.22	2.00	2.00	0.00
900.00	12.00	87.95	895.62	2.24	62.56	-3.19	2.00	2.00	0.00
915.00	12.30	87.95	910.29	2.35	65.72	-3.35	2.00	2.00	0.00
Hold Tangent @ 915.00ft									
1,000.00	12.30	87.95	993.34	3.00	83.81	-4.27	0.00	0.00	0.00
1,100.00	12.30	87.95	1,091.04	3.76	105.10	-5.36	0.00	0.00	0.00
1,200.00	12.30	87.95	1,188.75	4.52	126.39	-6.44	0.00	0.00	0.00
1,300.00	12.30	87.95	1,286.45	5.29	147.68	-7.53	0.00	0.00	0.00
1,400.00	12.30	87.95	1,384.15	6.05	168.97	-8.61	0.00	0.00	0.00
1,500.00	12.30	87.95	1,481.86	6.81	190.26	-9.70	0.00	0.00	0.00
1,600.00	12.30	87.95	1,579.56	7.57	211.55	-10.78	0.00	0.00	0.00
1,700.00	12.30	87.95	1,677.27	8.33	232.84	-11.87	0.00	0.00	0.00
1,723.27	12.30	87.95	1,700.00	8.51	237.79	-12.12	0.00	0.00	0.00
9 5/8"									
1,800.00	12.30	87.95	1,774.97	9.10	254.13	-12.95	0.00	0.00	0.00
1,900.00	12.30	87.95	1,872.68	9.86	275.42	-14.04	0.00	0.00	0.00
2,000.00	12.30	87.95	1,970.38	10.62	296.71	-15.12	0.00	0.00	0.00
2,100.00	12.30	87.95	2,068.09	11.38	318.00	-16.21	0.00	0.00	0.00
2,200.00	12.30	87.95	2,165.79	12.14	339.29	-17.29	0.00	0.00	0.00
2,300.00	12.30	87.95	2,263.50	12.91	360.58	-18.38	0.00	0.00	0.00
2,400.00	12.30	87.95	2,361.20	13.67	381.87	-19.47	0.00	0.00	0.00
2,500.00	12.30	87.95	2,458.90	14.43	403.15	-20.55	0.00	0.00	0.00
2,600.00	12.30	87.95	2,556.61	15.19	424.44	-21.64	0.00	0.00	0.00
2,700.00	12.30	87.95	2,654.31	15.95	445.73	-22.72	0.00	0.00	0.00
2,800.00	12.30	87.95	2,752.02	16.72	467.02	-23.81	0.00	0.00	0.00
2,900.00	12.30	87.95	2,849.72	17.48	488.31	-24.89	0.00	0.00	0.00
3,000.00	12.30	87.95	2,947.43	18.24	509.60	-25.98	0.00	0.00	0.00
3,100.00	12.30	87.95	3,045.13	19.00	530.89	-27.06	0.00	0.00	0.00
3,200.00	12.30	87.95	3,142.84	19.77	552.18	-28.15	0.00	0.00	0.00
3,300.00	12.30	87.95	3,240.54	20.53	573.47	-29.23	0.00	0.00	0.00
3,400.00	12.30	87.95	3,338.25	21.29	594.76	-30.32	0.00	0.00	0.00
3,500.00	12.30	87.95	3,435.95	22.05	616.05	-31.40	0.00	0.00	0.00
3,600.00	12.30	87.95	3,533.65	22.81	637.34	-32.49	0.00	0.00	0.00
3,700.00	12.30	87.95	3,631.36	23.58	658.63	-33.57	0.00	0.00	0.00
3,800.00	12.30	87.95	3,729.06	24.34	679.92	-34.66	0.00	0.00	0.00
3,900.00	12.30	87.95	3,826.77	25.10	701.21	-35.74	0.00	0.00	0.00
4,000.00	12.30	87.95	3,924.47	25.86	722.50	-36.83	0.00	0.00	0.00
4,100.00	12.30	87.95	4,022.18	26.62	743.79	-37.91	0.00	0.00	0.00
4,200.00	12.30	87.95	4,119.88	27.39	765.07	-39.00	0.00	0.00	0.00
4,300.00	12.30	87.95	4,217.59	28.15	786.36	-40.08	0.00	0.00	0.00
4,400.00	12.30	87.95	4,315.29	28.91	807.65	-41.17	0.00	0.00	0.00
4,500.00	12.30	87.95	4,413.00	29.67	828.94	-42.25	0.00	0.00	0.00
4,600.00	12.30	87.95	4,510.70	30.43	850.23	-43.34	0.00	0.00	0.00
4,700.00	12.30	87.95	4,608.40	31.20	871.52	-44.43	0.00	0.00	0.00

Hewlett-Packard

Planning Report

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Company:	VERDAD RESOURCES	TVD Reference:	RKB = 16' @ 4909.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 16' @ 4909.00usft (RIG)
Site:	9N-60W-25 PEGGY 2501 PAD	North Reference:	True
Well:	PEGGY 2501-12H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2		
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	12.30	87.95	4,706.11	31.96	892.81	-45.51	0.00	0.00	0.00
4,900.00	12.30	87.95	4,803.81	32.72	914.10	-46.60	0.00	0.00	0.00
5,000.00	12.30	87.95	4,901.52	33.48	935.39	-47.68	0.00	0.00	0.00
5,100.00	12.30	87.95	4,999.22	34.24	956.68	-48.77	0.00	0.00	0.00
5,200.00	12.30	87.95	5,096.93	35.01	977.97	-49.85	0.00	0.00	0.00
5,300.00	12.30	87.95	5,194.63	35.77	999.26	-50.94	0.00	0.00	0.00
5,400.00	12.30	87.95	5,292.34	36.53	1,020.55	-52.02	0.00	0.00	0.00
5,500.00	12.30	87.95	5,390.04	37.29	1,041.84	-53.11	0.00	0.00	0.00
5,600.00	12.30	87.95	5,487.75	38.05	1,063.13	-54.19	0.00	0.00	0.00
5,688.13	12.30	87.95	5,573.85	38.73	1,081.89	-55.15	0.00	0.00	0.00
KOP @ 5688.13ft :: DLS = 9°/100'									
5,700.00	12.31	92.96	5,585.45	38.71	1,084.42	-55.17	9.00	0.11	42.23
5,800.00	15.61	128.46	5,682.66	29.77	1,105.64	-46.55	9.00	3.29	35.49
5,900.00	22.25	147.55	5,777.29	5.38	1,126.38	-22.48	9.00	6.64	19.09
6,000.00	30.10	157.65	5,867.01	-33.86	1,146.11	16.46	9.00	7.85	10.10
6,100.00	38.42	163.79	5,949.61	-86.99	1,164.36	69.31	9.00	8.32	6.14
6,200.00	46.96	167.99	6,023.07	-152.71	1,180.67	134.76	9.00	8.54	4.21
6,300.00	55.61	171.16	6,085.56	-229.38	1,194.64	211.21	9.00	8.66	3.17
6,400.00	64.34	173.73	6,135.56	-315.12	1,205.93	296.78	9.00	8.72	2.57
6,500.00	73.10	175.94	6,171.82	-407.83	1,214.26	389.35	9.00	8.76	2.21
6,600.00	81.88	177.95	6,193.47	-505.22	1,219.42	486.65	9.00	8.78	2.02
6,692.36	90.00	179.74	6,200.00	-597.25	1,221.27	578.63	9.00	8.79	1.93
End Build @ 6692.36ft									
6,700.00	90.00	179.74	6,200.00	-604.89	1,221.31	586.27	0.00	0.00	0.00
6,800.00	90.00	179.74	6,200.00	-704.89	1,221.77	686.25	0.00	0.00	0.00
6,900.00	90.00	179.74	6,200.00	-804.89	1,222.23	786.23	0.00	0.00	0.00
7,000.00	90.00	179.74	6,200.00	-904.88	1,222.69	886.22	0.00	0.00	0.00
7,100.00	90.00	179.74	6,200.00	-1,004.88	1,223.15	986.20	0.00	0.00	0.00
7,200.00	90.00	179.74	6,200.00	-1,104.88	1,223.61	1,086.18	0.00	0.00	0.00
7,300.00	90.00	179.74	6,200.00	-1,204.88	1,224.07	1,186.16	0.00	0.00	0.00
7,400.00	90.00	179.74	6,200.00	-1,304.88	1,224.53	1,286.14	0.00	0.00	0.00
7,500.00	90.00	179.74	6,200.00	-1,404.88	1,224.99	1,386.12	0.00	0.00	0.00
7,600.00	90.00	179.74	6,200.00	-1,504.88	1,225.44	1,486.10	0.00	0.00	0.00
7,700.00	90.00	179.74	6,200.00	-1,604.88	1,225.90	1,586.08	0.00	0.00	0.00
7,800.00	90.00	179.74	6,200.00	-1,704.88	1,226.36	1,686.06	0.00	0.00	0.00
7,900.00	90.00	179.74	6,200.00	-1,804.88	1,226.82	1,786.04	0.00	0.00	0.00
8,000.00	90.00	179.74	6,200.00	-1,904.87	1,227.28	1,886.02	0.00	0.00	0.00
8,100.00	90.00	179.74	6,200.00	-2,004.87	1,227.74	1,986.00	0.00	0.00	0.00
8,200.00	90.00	179.74	6,200.00	-2,104.87	1,228.20	2,085.98	0.00	0.00	0.00
8,300.00	90.00	179.74	6,200.00	-2,204.87	1,228.66	2,185.96	0.00	0.00	0.00
8,400.00	90.00	179.74	6,200.00	-2,304.87	1,229.12	2,285.94	0.00	0.00	0.00
8,500.00	90.00	179.74	6,200.00	-2,404.87	1,229.58	2,385.92	0.00	0.00	0.00
8,600.00	90.00	179.74	6,200.00	-2,504.87	1,230.04	2,485.90	0.00	0.00	0.00
8,700.00	90.00	179.74	6,200.00	-2,604.87	1,230.50	2,585.88	0.00	0.00	0.00
8,800.00	90.00	179.74	6,200.00	-2,704.87	1,230.96	2,685.86	0.00	0.00	0.00
8,900.00	90.00	179.74	6,200.00	-2,804.86	1,231.42	2,785.84	0.00	0.00	0.00
9,000.00	90.00	179.74	6,200.00	-2,904.86	1,231.88	2,885.82	0.00	0.00	0.00
9,100.00	90.00	179.74	6,200.00	-3,004.86	1,232.34	2,985.80	0.00	0.00	0.00
9,200.00	90.00	179.74	6,200.00	-3,104.86	1,232.80	3,085.78	0.00	0.00	0.00
9,300.00	90.00	179.74	6,200.00	-3,204.86	1,233.26	3,185.77	0.00	0.00	0.00
9,400.00	90.00	179.74	6,200.00	-3,304.86	1,233.72	3,285.75	0.00	0.00	0.00
9,500.00	90.00	179.74	6,200.00	-3,404.86	1,234.18	3,385.73	0.00	0.00	0.00
9,600.00	90.00	179.74	6,200.00	-3,504.86	1,234.64	3,485.71	0.00	0.00	0.00
9,700.00	90.00	179.74	6,200.00	-3,604.86	1,235.10	3,585.69	0.00	0.00	0.00

Planning Report

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)
9,800.00	90.00	179.74	6,200.00	-3,704.85	1,235.56	3,685.67	0.00	0.00	0.00
9,900.00	90.00	179.74	6,200.00	-3,804.85	1,236.02	3,785.65	0.00	0.00	0.00
10,000.00	90.00	179.74	6,200.00	-3,904.85	1,236.48	3,885.63	0.00	0.00	0.00
10,100.00	90.00	179.74	6,200.00	-4,004.85	1,236.94	3,985.61	0.00	0.00	0.00
10,200.00	90.00	179.74	6,200.00	-4,104.85	1,237.40	4,085.59	0.00	0.00	0.00
10,300.00	90.00	179.74	6,200.00	-4,204.85	1,237.86	4,185.57	0.00	0.00	0.00
10,400.00	90.00	179.74	6,200.00	-4,304.85	1,238.32	4,285.55	0.00	0.00	0.00
10,500.00	90.00	179.74	6,200.00	-4,404.85	1,238.78	4,385.53	0.00	0.00	0.00
10,600.00	90.00	179.74	6,200.00	-4,504.85	1,239.24	4,485.51	0.00	0.00	0.00
10,700.00	90.00	179.74	6,200.00	-4,604.85	1,239.70	4,585.49	0.00	0.00	0.00
10,800.00	90.00	179.74	6,200.00	-4,704.84	1,240.16	4,685.47	0.00	0.00	0.00
10,900.00	90.00	179.74	6,200.00	-4,804.84	1,240.62	4,785.45	0.00	0.00	0.00
11,000.00	90.00	179.74	6,200.00	-4,904.84	1,241.08	4,885.43	0.00	0.00	0.00
11,100.00	90.00	179.74	6,200.00	-5,004.84	1,241.54	4,985.41	0.00	0.00	0.00
11,200.00	90.00	179.74	6,200.00	-5,104.84	1,242.00	5,085.39	0.00	0.00	0.00
11,300.00	90.00	179.74	6,200.00	-5,204.84	1,242.46	5,185.37	0.00	0.00	0.00
11,400.00	90.00	179.74	6,200.00	-5,304.84	1,242.92	5,285.35	0.00	0.00	0.00
11,500.00	90.00	179.74	6,200.00	-5,404.84	1,243.38	5,385.33	0.00	0.00	0.00
11,600.00	90.00	179.74	6,200.00	-5,504.84	1,243.84	5,485.32	0.00	0.00	0.00
11,700.00	90.00	179.74	6,200.00	-5,604.83	1,244.30	5,585.30	0.00	0.00	0.00
11,735.93	90.00	179.74	6,200.00	-5,640.76	1,244.46	5,621.21	0.00	0.00	0.00
Begin Turn to BHL @ 11735.93ft									
11,800.00	90.00	181.02	6,200.00	-5,704.83	1,244.04	5,685.28	2.00	0.00	2.00
11,900.00	90.00	183.02	6,200.00	-5,804.76	1,240.52	5,785.26	2.00	0.00	2.00
11,909.30	90.00	183.20	6,200.00	-5,814.06	1,240.02	5,794.56	2.00	0.00	2.00
End Turn @ 11909.30ft									
12,000.00	90.00	183.20	6,200.00	-5,904.61	1,234.95	5,885.18	0.00	0.00	0.00
12,100.00	90.00	183.20	6,200.00	-6,004.45	1,229.36	5,985.09	0.00	0.00	0.00
12,200.00	90.00	183.20	6,200.00	-6,104.30	1,223.77	6,085.01	0.00	0.00	0.00
12,300.00	90.00	183.20	6,200.00	-6,204.14	1,218.18	6,184.93	0.00	0.00	0.00
12,400.00	90.00	183.20	6,200.00	-6,303.98	1,212.59	6,284.85	0.00	0.00	0.00
12,500.00	90.00	183.20	6,200.00	-6,403.83	1,207.00	6,384.76	0.00	0.00	0.00
12,600.00	90.00	183.20	6,200.00	-6,503.67	1,201.41	6,484.68	0.00	0.00	0.00
12,700.00	90.00	183.20	6,200.00	-6,603.51	1,195.82	6,584.60	0.00	0.00	0.00
12,800.00	90.00	183.20	6,200.00	-6,703.36	1,190.23	6,684.51	0.00	0.00	0.00
12,900.00	90.00	183.20	6,200.00	-6,803.20	1,184.64	6,784.43	0.00	0.00	0.00
13,000.00	90.00	183.20	6,200.00	-6,903.05	1,179.05	6,884.35	0.00	0.00	0.00
13,100.00	90.00	183.20	6,200.00	-7,002.89	1,173.46	6,984.26	0.00	0.00	0.00
13,200.00	90.00	183.20	6,200.00	-7,102.73	1,167.88	7,084.18	0.00	0.00	0.00
13,300.00	90.00	183.20	6,200.00	-7,202.58	1,162.29	7,184.10	0.00	0.00	0.00
13,400.00	90.00	183.20	6,200.00	-7,302.42	1,156.70	7,284.02	0.00	0.00	0.00
13,500.00	90.00	183.20	6,200.00	-7,402.26	1,151.11	7,383.93	0.00	0.00	0.00
13,600.00	90.00	183.20	6,200.00	-7,502.11	1,145.52	7,483.85	0.00	0.00	0.00
13,700.00	90.00	183.20	6,200.00	-7,601.95	1,139.93	7,583.77	0.00	0.00	0.00
13,800.00	90.00	183.20	6,200.00	-7,701.80	1,134.34	7,683.68	0.00	0.00	0.00
13,900.00	90.00	183.20	6,200.00	-7,801.64	1,128.75	7,783.60	0.00	0.00	0.00
14,000.00	90.00	183.20	6,200.00	-7,901.48	1,123.16	7,883.52	0.00	0.00	0.00
14,100.00	90.00	183.20	6,200.00	-8,001.33	1,117.57	7,983.44	0.00	0.00	0.00
14,200.00	90.00	183.20	6,200.00	-8,101.17	1,111.98	8,083.35	0.00	0.00	0.00
14,300.00	90.00	183.20	6,200.00	-8,201.01	1,106.39	8,183.27	0.00	0.00	0.00
14,306.14	90.00	183.20	6,200.00	-8,207.15	1,106.05	8,189.41	0.00	0.00	0.00
TD Well @ 14306.14ft									

Hewlett-Packard

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well PEGGY 2501-12H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 16' @ 4909.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 16' @ 4909.00usft (RIG)
Site:	9N-60W-25 PEGGY 2501 PAD	North Reference:	True
Well:	PEGGY 2501-12H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #2		
Design:	Design #1		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
1,723.27	1,700.00	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)		
300.00	300.00	0.00	0.00	Begin Nudge @ 300.00ft	
915.00	910.29	2.35	65.72	Hold Tangent @ 915.00ft	
5,688.13	5,573.85	38.73	1,081.89	KOP @ 5688.13ft :: DLS = 9°/100'	
6,692.36	6,200.00	-597.25	1,221.27	End Build @ 6692.36ft	
11,735.93	6,200.00	-5,640.76	1,244.46	Begin Turn to BHL @ 11735.93ft	
11,909.30	6,200.00	-5,814.06	1,240.02	End Turn @ 11909.30ft	
14,306.14	6,200.00	-8,207.15	1,106.05	TD Well @ 14306.14ft	