

# **VERDAD RESOURCES**

**WATTENBERG FIELD**

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

**PEGGY 2501-04H**

**Wellbore #2**

**Plan: Design #1**

## **Standard Planning Report**

**30 October, 2019**

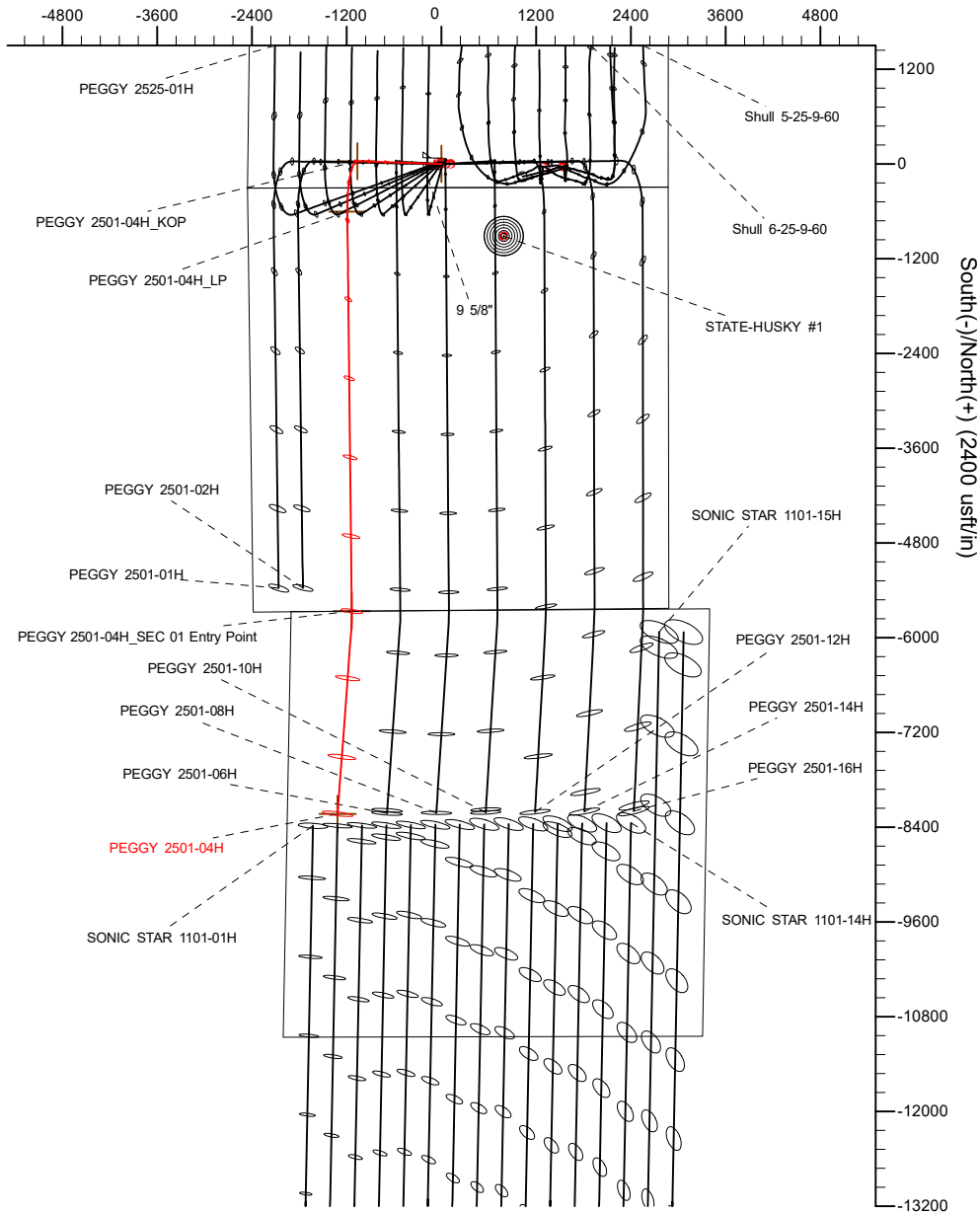
Project: WATTENBERG FIELD  
Site: 9N-60W-25 PEGGY 2501 PAD  
Well: PEGGY 2501-04H  
Wellbore: Wellbore #2  
Design: Design #1

# VERDAD RESOURCES

## CASING DETAILS

TVD	MD	Name	Size
1700.00	1722.65	9 5/8"	9-5/8

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



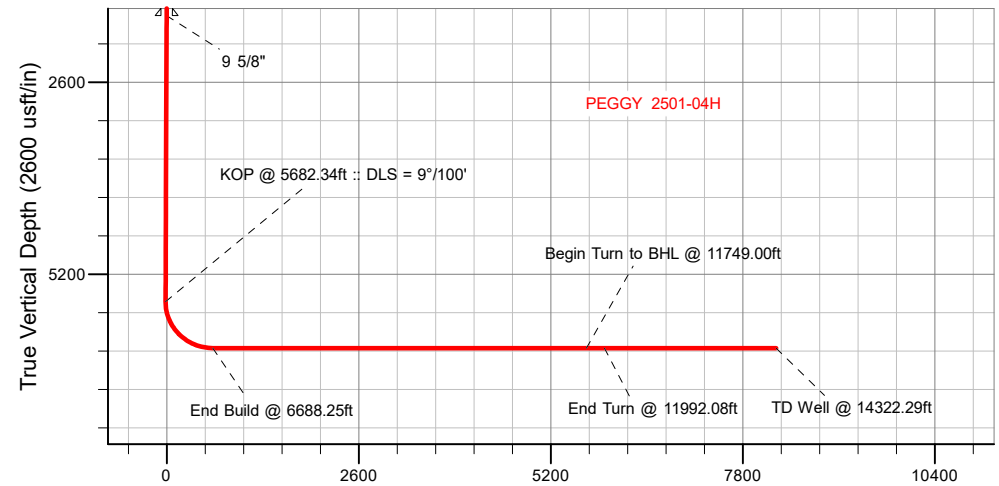
SHL 300' FSL 2452' FWL  
KOP 338' FSL 1388' FWL  
LP 300' FNL 1260' FWL  
SEC 01 Entry 0' FSL 1248' FWL  
BHL 2565' FNL 637' FWL

## SECTION DETAILS

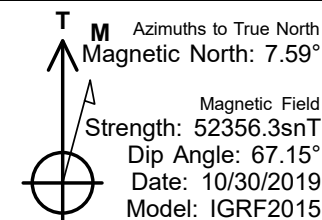
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
3	905.00	12.10	271.90	900.51	2.11	-63.61	2.00	271.90	-1.09	
4	5682.34	12.10	271.90	5571.72	35.31	-1064.48	0.00	0.00	-18.22	
5	6688.25	90.00	179.36	6200.00	-602.74	-1191.93	9.00	-92.48	621.80	
6	11749.00	90.00	179.36	6200.00	-5663.17	-1135.49	0.00	0.00	5680.67	PEGGY 2501-04H_SEC 01 Entry Point
7	11992.08	90.00	184.22	6200.00	-5906.06	-1143.09	2.00	90.00	5923.66	
8	14322.29	90.00	184.22	6200.00	-8229.94	-1314.67	0.00	0.00	8249.99	PEGGY 2501-04H_BHL

## WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
PEGGY 2501-04H_SHL	0.00	0.00	0.00	40.714775	-104.040698
PEGGY 2501-04H_KOP	5571.72	35.31	-1064.48	40.714872	-104.044537
PEGGY 2501-04H_SEC 01 Entry Point	6200.00	-5663.17	-1135.49	40.699231	-104.044793
PEGGY 2501-04H_BHL	6200.00	-8229.94	-1314.67	40.692185	-104.045438



Vertical Section at 180.92° (2600 usft/in)



WELL DETAILS: PEGGY 2501-04H

GL = 4894'

RKB = 16' @ 4910.00usft (RIG)

Plan: Design #1 (PEGGY 2501-04H/Wellbore #2)

SherrylEnergy.com Date: 10/30/2019

# Hewlett-Packard

## Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PEGGY 2501-04H
<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 2501-04H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #2		
<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 "	Grid Convergence:	0.94 °

Well		PEGGY 2501-04H				
Well Position	+N/-S	0.07 usft	Northing:	1,506,565.10 usft	Latitude:	40.714775
	+E/-W	40.11 usft	Easting:	3,404,525.37 usft	Longitude:	-104.040698
Position Uncertainty		3.28 usft	Wellhead Elevation:		Ground Level:	4,894.00 usft

<b>Wellbore</b>	Wellbore #2				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2015	10/30/2019	7.59	67.15	52,356.30643907

<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	180.92	

<b>Plan Survey Tool Program</b>	<b>Date</b>	10/30/2019			
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>	
1	0.00	1,700.00	Design #1 (Wellbore #2)	ISCWSA REV 2 MWD	
				Fixed:v2:standard declination	
2	1,700.00	14,322.29	Design #1 (Wellbore #2)	ISCWSA REV 2 MWD	
				Fixed:v2:standard declination	

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Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well PEGGY 2501-04H
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 2501-04H	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	
905.00	12.10	271.90	900.51	2.11	-63.61	2.00	2.00	0.00	271.90	
5,682.34	12.10	271.90	5,571.72	35.31	-1,064.48	0.00	0.00	0.00	0.00	
6,688.25	90.00	179.36	6,200.00	-602.74	-1,191.93	9.00	7.74	-9.20	-92.48	
11,749.00	90.00	179.36	6,200.00	-5,663.17	-1,135.49	0.00	0.00	0.00	0.00	PEGGY 2501-04H_D
11,992.08	90.00	184.22	6,200.00	-5,906.06	-1,143.09	2.00	0.00	2.00	90.00	
14,322.29	90.00	184.22	6,200.00	-8,229.94	-1,314.67	0.00	0.00	0.00	0.00	PEGGY 2501-04H_BI

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## Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PEGGY 2501-04H
<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 2501-04H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #2		
<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
Begin Nudge @ 300.00ft									
400.00	2.00	271.90	399.98	0.06	-1.74	-0.03	2.00	2.00	0.00
500.00	4.00	271.90	499.84	0.23	-6.97	-0.12	2.00	2.00	0.00
600.00	6.00	271.90	599.45	0.52	-15.68	-0.27	2.00	2.00	0.00
700.00	8.00	271.90	698.70	0.92	-27.86	-0.48	2.00	2.00	0.00
800.00	10.00	271.90	797.47	1.44	-43.50	-0.74	2.00	2.00	0.00
900.00	12.00	271.90	895.62	2.08	-62.57	-1.07	2.00	2.00	0.00
905.00	12.10	271.90	900.51	2.11	-63.61	-1.09	2.00	2.00	0.00
Hold Tangent @ 905.00ft									
1,000.00	12.10	271.90	993.40	2.77	-83.51	-1.43	0.00	0.00	0.00
1,100.00	12.10	271.90	1,091.18	3.47	-104.46	-1.79	0.00	0.00	0.00
1,200.00	12.10	271.90	1,188.96	4.16	-125.41	-2.15	0.00	0.00	0.00
1,300.00	12.10	271.90	1,286.74	4.86	-146.37	-2.50	0.00	0.00	0.00
1,400.00	12.10	271.90	1,384.52	5.55	-167.32	-2.86	0.00	0.00	0.00
1,500.00	12.10	271.90	1,482.29	6.25	-188.27	-3.22	0.00	0.00	0.00
1,600.00	12.10	271.90	1,580.07	6.94	-209.22	-3.58	0.00	0.00	0.00
1,700.00	12.10	271.90	1,677.85	7.64	-230.17	-3.94	0.00	0.00	0.00
1,722.65	12.10	271.90	1,700.00	7.79	-234.91	-4.02	0.00	0.00	0.00
9 5/8"									
1,800.00	12.10	271.90	1,775.63	8.33	-251.12	-4.30	0.00	0.00	0.00
1,900.00	12.10	271.90	1,873.41	9.03	-272.07	-4.66	0.00	0.00	0.00
2,000.00	12.10	271.90	1,971.19	9.72	-293.02	-5.01	0.00	0.00	0.00
2,100.00	12.10	271.90	2,068.96	10.42	-313.97	-5.37	0.00	0.00	0.00
2,200.00	12.10	271.90	2,166.74	11.11	-334.92	-5.73	0.00	0.00	0.00
2,300.00	12.10	271.90	2,264.52	11.81	-355.87	-6.09	0.00	0.00	0.00
2,400.00	12.10	271.90	2,362.30	12.50	-376.82	-6.45	0.00	0.00	0.00
2,500.00	12.10	271.90	2,460.08	13.20	-397.77	-6.81	0.00	0.00	0.00
2,600.00	12.10	271.90	2,557.86	13.89	-418.72	-7.17	0.00	0.00	0.00
2,700.00	12.10	271.90	2,655.63	14.59	-439.67	-7.52	0.00	0.00	0.00
2,800.00	12.10	271.90	2,753.41	15.28	-460.62	-7.88	0.00	0.00	0.00
2,900.00	12.10	271.90	2,851.19	15.98	-481.57	-8.24	0.00	0.00	0.00
3,000.00	12.10	271.90	2,948.97	16.67	-502.52	-8.60	0.00	0.00	0.00
3,100.00	12.10	271.90	3,046.75	17.37	-523.47	-8.96	0.00	0.00	0.00
3,200.00	12.10	271.90	3,144.53	18.06	-544.42	-9.32	0.00	0.00	0.00
3,300.00	12.10	271.90	3,242.30	18.76	-565.37	-9.68	0.00	0.00	0.00
3,400.00	12.10	271.90	3,340.08	19.45	-586.32	-10.03	0.00	0.00	0.00
3,500.00	12.10	271.90	3,437.86	20.15	-607.27	-10.39	0.00	0.00	0.00
3,600.00	12.10	271.90	3,535.64	20.84	-628.22	-10.75	0.00	0.00	0.00
3,700.00	12.10	271.90	3,633.42	21.54	-649.17	-11.11	0.00	0.00	0.00
3,800.00	12.10	271.90	3,731.20	22.23	-670.12	-11.47	0.00	0.00	0.00
3,900.00	12.10	271.90	3,828.97	22.93	-691.07	-11.83	0.00	0.00	0.00
4,000.00	12.10	271.90	3,926.75	23.62	-712.02	-12.18	0.00	0.00	0.00
4,100.00	12.10	271.90	4,024.53	24.32	-732.97	-12.54	0.00	0.00	0.00
4,200.00	12.10	271.90	4,122.31	25.01	-753.92	-12.90	0.00	0.00	0.00
4,300.00	12.10	271.90	4,220.09	25.71	-774.88	-13.26	0.00	0.00	0.00
4,400.00	12.10	271.90	4,317.87	26.40	-795.83	-13.62	0.00	0.00	0.00
4,500.00	12.10	271.90	4,415.64	27.10	-816.78	-13.98	0.00	0.00	0.00
4,600.00	12.10	271.90	4,513.42	27.79	-837.73	-14.34	0.00	0.00	0.00
4,700.00	12.10	271.90	4,611.20	28.49	-858.68	-14.69	0.00	0.00	0.00

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## Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PEGGY 2501-04H
<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 2501-04H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #2		
<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)
4,800.00	12.10	271.90	4,708.98	29.18	-879.63	-15.05	0.00	0.00	0.00
4,900.00	12.10	271.90	4,806.76	29.88	-900.58	-15.41	0.00	0.00	0.00
5,000.00	12.10	271.90	4,904.54	30.57	-921.53	-15.77	0.00	0.00	0.00
5,100.00	12.10	271.90	5,002.31	31.27	-942.48	-16.13	0.00	0.00	0.00
5,200.00	12.10	271.90	5,100.09	31.96	-963.43	-16.49	0.00	0.00	0.00
5,300.00	12.10	271.90	5,197.87	32.66	-984.38	-16.85	0.00	0.00	0.00
5,400.00	12.10	271.90	5,295.65	33.35	-1,005.33	-17.20	0.00	0.00	0.00
5,500.00	12.10	271.90	5,393.43	34.05	-1,026.28	-17.56	0.00	0.00	0.00
5,600.00	12.10	271.90	5,491.21	34.74	-1,047.23	-17.92	0.00	0.00	0.00
5,682.34	12.10	271.90	5,571.72	35.31	-1,064.48	-18.22	0.00	0.00	0.00
KOP @ 5682.34ft :: DLS = 9°/100'									
5,700.00	12.13	264.32	5,588.98	35.19	-1,068.18	-18.03	9.00	0.19	-42.90
5,800.00	15.68	229.10	5,686.21	25.28	-1,088.89	-7.80	9.00	3.54	-35.22
5,900.00	22.45	210.59	5,780.75	-0.05	-1,108.86	17.85	9.00	6.77	-18.51
6,000.00	30.36	200.81	5,870.29	-40.19	-1,127.59	58.29	9.00	7.91	-9.77
6,100.00	38.71	194.86	5,952.63	-94.14	-1,144.62	112.50	9.00	8.35	-5.95
6,200.00	47.27	190.77	6,025.72	-160.58	-1,159.54	179.17	9.00	8.56	-4.09
6,300.00	55.94	187.69	6,087.78	-237.87	-1,171.97	256.65	9.00	8.67	-3.09
6,400.00	64.67	185.18	6,137.27	-324.11	-1,181.60	343.04	9.00	8.73	-2.51
6,500.00	73.44	183.01	6,172.98	-417.17	-1,188.21	436.19	9.00	8.77	-2.17
6,600.00	82.23	181.03	6,194.03	-514.76	-1,191.63	533.83	9.00	8.79	-1.98
6,688.25	90.00	179.36	6,200.00	-602.74	-1,191.93	621.80	9.00	8.80	-1.90
End Build @ 6688.25ft									
6,700.00	90.00	179.36	6,200.00	-614.49	-1,191.80	633.55	0.00	0.00	0.00
6,800.00	90.00	179.36	6,200.00	-714.48	-1,190.69	733.51	0.00	0.00	0.00
6,900.00	90.00	179.36	6,200.00	-814.48	-1,189.57	833.47	0.00	0.00	0.00
7,000.00	90.00	179.36	6,200.00	-914.47	-1,188.46	933.43	0.00	0.00	0.00
7,100.00	90.00	179.36	6,200.00	-1,014.46	-1,187.34	1,033.40	0.00	0.00	0.00
7,200.00	90.00	179.36	6,200.00	-1,114.46	-1,186.23	1,133.36	0.00	0.00	0.00
7,300.00	90.00	179.36	6,200.00	-1,214.45	-1,185.11	1,233.32	0.00	0.00	0.00
7,400.00	90.00	179.36	6,200.00	-1,314.45	-1,183.99	1,333.29	0.00	0.00	0.00
7,500.00	90.00	179.36	6,200.00	-1,414.44	-1,182.88	1,433.25	0.00	0.00	0.00
7,600.00	90.00	179.36	6,200.00	-1,514.43	-1,181.76	1,533.21	0.00	0.00	0.00
7,700.00	90.00	179.36	6,200.00	-1,614.43	-1,180.65	1,633.18	0.00	0.00	0.00
7,800.00	90.00	179.36	6,200.00	-1,714.42	-1,179.53	1,733.14	0.00	0.00	0.00
7,900.00	90.00	179.36	6,200.00	-1,814.41	-1,178.42	1,833.10	0.00	0.00	0.00
8,000.00	90.00	179.36	6,200.00	-1,914.41	-1,177.30	1,933.06	0.00	0.00	0.00
8,100.00	90.00	179.36	6,200.00	-2,014.40	-1,176.19	2,033.03	0.00	0.00	0.00
8,200.00	90.00	179.36	6,200.00	-2,114.40	-1,175.07	2,132.99	0.00	0.00	0.00
8,300.00	90.00	179.36	6,200.00	-2,214.39	-1,173.96	2,232.95	0.00	0.00	0.00
8,400.00	90.00	179.36	6,200.00	-2,314.38	-1,172.84	2,332.92	0.00	0.00	0.00
8,500.00	90.00	179.36	6,200.00	-2,414.38	-1,171.73	2,432.88	0.00	0.00	0.00
8,600.00	90.00	179.36	6,200.00	-2,514.37	-1,170.61	2,532.84	0.00	0.00	0.00
8,700.00	90.00	179.36	6,200.00	-2,614.36	-1,169.50	2,632.81	0.00	0.00	0.00
8,800.00	90.00	179.36	6,200.00	-2,714.36	-1,168.38	2,732.77	0.00	0.00	0.00
8,900.00	90.00	179.36	6,200.00	-2,814.35	-1,167.27	2,832.73	0.00	0.00	0.00
9,000.00	90.00	179.36	6,200.00	-2,914.35	-1,166.15	2,932.69	0.00	0.00	0.00
9,100.00	90.00	179.36	6,200.00	-3,014.34	-1,165.04	3,032.66	0.00	0.00	0.00
9,200.00	90.00	179.36	6,200.00	-3,114.33	-1,163.92	3,132.62	0.00	0.00	0.00
9,300.00	90.00	179.36	6,200.00	-3,214.33	-1,162.81	3,232.58	0.00	0.00	0.00
9,400.00	90.00	179.36	6,200.00	-3,314.32	-1,161.69	3,332.55	0.00	0.00	0.00
9,500.00	90.00	179.36	6,200.00	-3,414.31	-1,160.57	3,432.51	0.00	0.00	0.00
9,600.00	90.00	179.36	6,200.00	-3,514.31	-1,159.46	3,532.47	0.00	0.00	0.00
9,700.00	90.00	179.36	6,200.00	-3,614.30	-1,158.34	3,632.43	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	179.36	6,200.00	-3,714.30	-1,157.23	3,732.40	0.00	0.00	0.00
9,900.00	90.00	179.36	6,200.00	-3,814.29	-1,156.11	3,832.36	0.00	0.00	0.00
10,000.00	90.00	179.36	6,200.00	-3,914.28	-1,155.00	3,932.32	0.00	0.00	0.00
10,100.00	90.00	179.36	6,200.00	-4,014.28	-1,153.88	4,032.29	0.00	0.00	0.00
10,200.00	90.00	179.36	6,200.00	-4,114.27	-1,152.77	4,132.25	0.00	0.00	0.00
10,300.00	90.00	179.36	6,200.00	-4,214.26	-1,151.65	4,232.21	0.00	0.00	0.00
10,400.00	90.00	179.36	6,200.00	-4,314.26	-1,150.54	4,332.18	0.00	0.00	0.00
10,500.00	90.00	179.36	6,200.00	-4,414.25	-1,149.42	4,432.14	0.00	0.00	0.00
10,600.00	90.00	179.36	6,200.00	-4,514.25	-1,148.31	4,532.10	0.00	0.00	0.00
10,700.00	90.00	179.36	6,200.00	-4,614.24	-1,147.19	4,632.06	0.00	0.00	0.00
10,800.00	90.00	179.36	6,200.00	-4,714.23	-1,146.08	4,732.03	0.00	0.00	0.00
10,900.00	90.00	179.36	6,200.00	-4,814.23	-1,144.96	4,831.99	0.00	0.00	0.00
11,000.00	90.00	179.36	6,200.00	-4,914.22	-1,143.85	4,931.95	0.00	0.00	0.00
11,100.00	90.00	179.36	6,200.00	-5,014.22	-1,142.73	5,031.92	0.00	0.00	0.00
11,200.00	90.00	179.36	6,200.00	-5,114.21	-1,141.62	5,131.88	0.00	0.00	0.00
11,300.00	90.00	179.36	6,200.00	-5,214.20	-1,140.50	5,231.84	0.00	0.00	0.00
11,400.00	90.00	179.36	6,200.00	-5,314.20	-1,139.39	5,331.81	0.00	0.00	0.00
11,500.00	90.00	179.36	6,200.00	-5,414.19	-1,138.27	5,431.77	0.00	0.00	0.00
11,600.00	90.00	179.36	6,200.00	-5,514.18	-1,137.16	5,531.73	0.00	0.00	0.00
11,700.00	90.00	179.36	6,200.00	-5,614.18	-1,136.04	5,631.69	0.00	0.00	0.00
11,749.00	90.00	179.36	6,200.00	-5,663.17	-1,135.49	5,680.67	0.00	0.00	0.00
Begin Turn to BHL @ 11749.00ft									
11,800.00	90.00	180.38	6,200.00	-5,714.17	-1,135.38	5,731.67	2.00	0.00	2.00
11,900.00	90.00	182.38	6,200.00	-5,814.14	-1,137.79	5,831.66	2.00	0.00	2.00
11,992.08	90.00	184.22	6,200.00	-5,906.06	-1,143.09	5,923.66	2.00	0.00	2.00
End Turn @ 11992.08ft									
12,000.00	90.00	184.22	6,200.00	-5,913.96	-1,143.68	5,931.56	0.00	0.00	0.00
12,100.00	90.00	184.22	6,200.00	-6,013.69	-1,151.04	6,031.40	0.00	0.00	0.00
12,200.00	90.00	184.22	6,200.00	-6,113.42	-1,158.40	6,131.23	0.00	0.00	0.00
12,300.00	90.00	184.22	6,200.00	-6,213.15	-1,165.76	6,231.06	0.00	0.00	0.00
12,400.00	90.00	184.22	6,200.00	-6,312.88	-1,173.13	6,330.90	0.00	0.00	0.00
12,500.00	90.00	184.22	6,200.00	-6,412.60	-1,180.49	6,430.73	0.00	0.00	0.00
12,600.00	90.00	184.22	6,200.00	-6,512.33	-1,187.85	6,530.57	0.00	0.00	0.00
12,700.00	90.00	184.22	6,200.00	-6,612.06	-1,195.22	6,630.40	0.00	0.00	0.00
12,800.00	90.00	184.22	6,200.00	-6,711.79	-1,202.58	6,730.23	0.00	0.00	0.00
12,900.00	90.00	184.22	6,200.00	-6,811.52	-1,209.94	6,830.07	0.00	0.00	0.00
13,000.00	90.00	184.22	6,200.00	-6,911.25	-1,217.31	6,929.90	0.00	0.00	0.00
13,100.00	90.00	184.22	6,200.00	-7,010.98	-1,224.67	7,029.74	0.00	0.00	0.00
13,200.00	90.00	184.22	6,200.00	-7,110.70	-1,232.03	7,129.57	0.00	0.00	0.00
13,300.00	90.00	184.22	6,200.00	-7,210.43	-1,239.40	7,229.40	0.00	0.00	0.00
13,400.00	90.00	184.22	6,200.00	-7,310.16	-1,246.76	7,329.24	0.00	0.00	0.00
13,500.00	90.00	184.22	6,200.00	-7,409.89	-1,254.12	7,429.07	0.00	0.00	0.00
13,600.00	90.00	184.22	6,200.00	-7,509.62	-1,261.49	7,528.90	0.00	0.00	0.00
13,700.00	90.00	184.22	6,200.00	-7,609.35	-1,268.85	7,628.74	0.00	0.00	0.00
13,800.00	90.00	184.22	6,200.00	-7,709.08	-1,276.21	7,728.57	0.00	0.00	0.00
13,900.00	90.00	184.22	6,200.00	-7,808.80	-1,283.58	7,828.41	0.00	0.00	0.00
14,000.00	90.00	184.22	6,200.00	-7,908.53	-1,290.94	7,928.24	0.00	0.00	0.00
14,100.00	90.00	184.22	6,200.00	-8,008.26	-1,298.30	8,028.07	0.00	0.00	0.00
14,200.00	90.00	184.22	6,200.00	-8,107.99	-1,305.67	8,127.91	0.00	0.00	0.00
14,300.00	90.00	184.22	6,200.00	-8,207.72	-1,313.03	8,227.74	0.00	0.00	0.00
14,322.29	90.00	184.22	6,200.00	-8,229.94	-1,314.67	8,249.99	0.00	0.00	0.00
TD Well @ 14322.29ft									

# Hewlett-Packard

## Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PEGGY 2501-04H
<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 2501-04H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #2		
<b>Design:</b>	Design #1		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
1,722.65	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	
905.00	900.51	2.11	-63.61	Hold Tangent @ 905.00ft	
5,682.34	5,571.72	35.31	-1,064.48	KOP @ 5682.34ft :: DLS = 9°/100'	
6,688.25	6,200.00	-602.74	-1,191.93	End Build @ 6688.25ft	
11,749.00	6,200.00	-5,663.17	-1,135.49	Begin Turn to BHL @ 11749.00ft	
11,992.08	6,200.00	-5,906.06	-1,143.09	End Turn @ 11992.08ft	
14,322.29	6,200.00	-8,229.94	-1,314.67	TD Well @ 14322.29ft	