

# **VERDAD RESOURCES**

**WATTENBERG FIELD**

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

**PEGGY 2501-06H**

**Wellbore #2**

**Plan: Design #1**

## **Standard Planning Report**

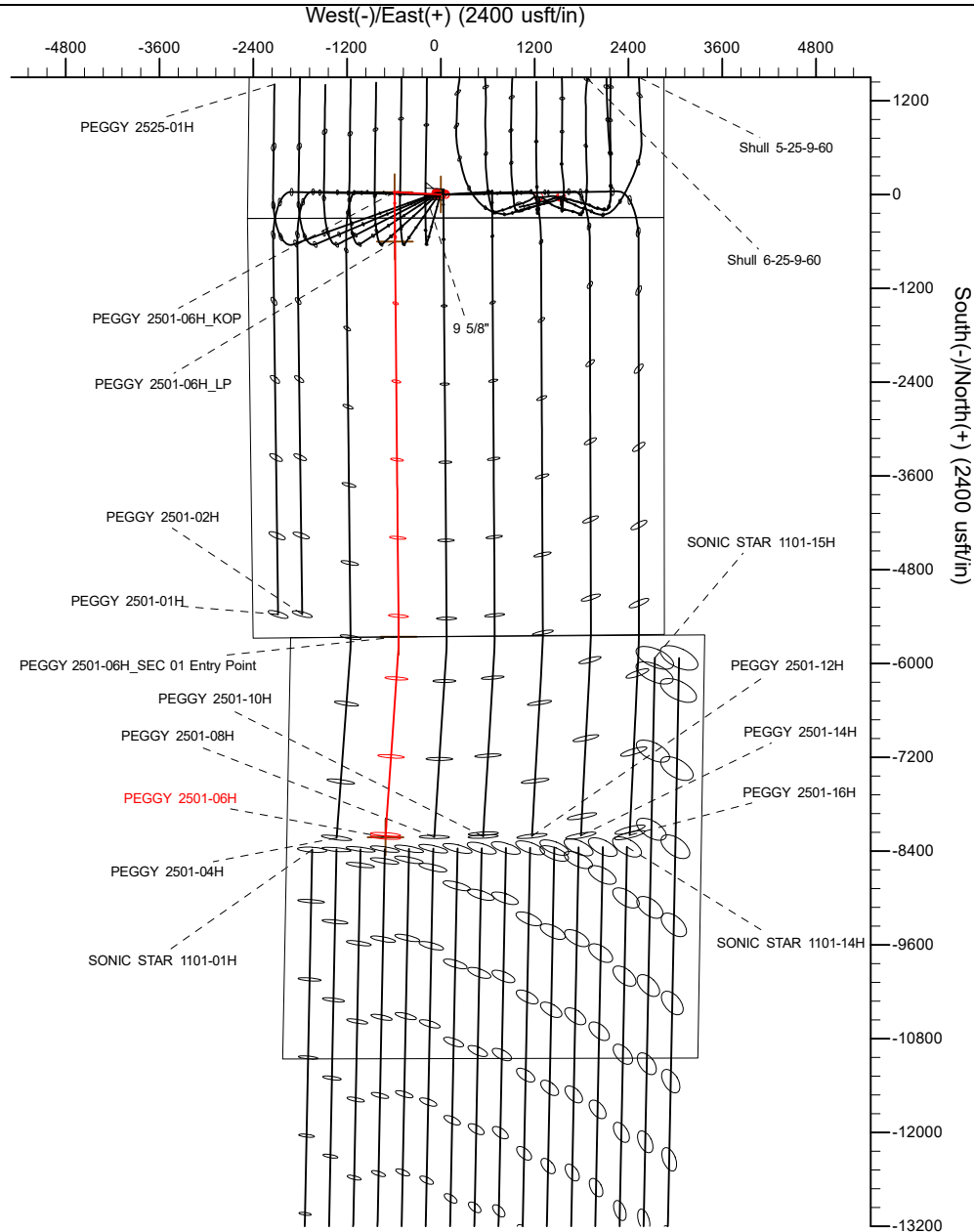
**30 October, 2019**

Project: WATTENBERG FIELD  
Site: 9N-60W-25 PEGGY 2501 PAD  
Well: PEGGY 2501-06H  
Wellbore: Wellbore #2  
Design: Design #1

# VERDAD RESOURCES

## CASING DETAILS

TVD	MD	Name	Size
1700.00	1716.52	9 5/8"	9-5/8

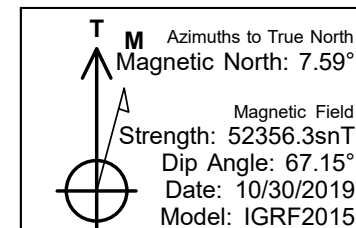
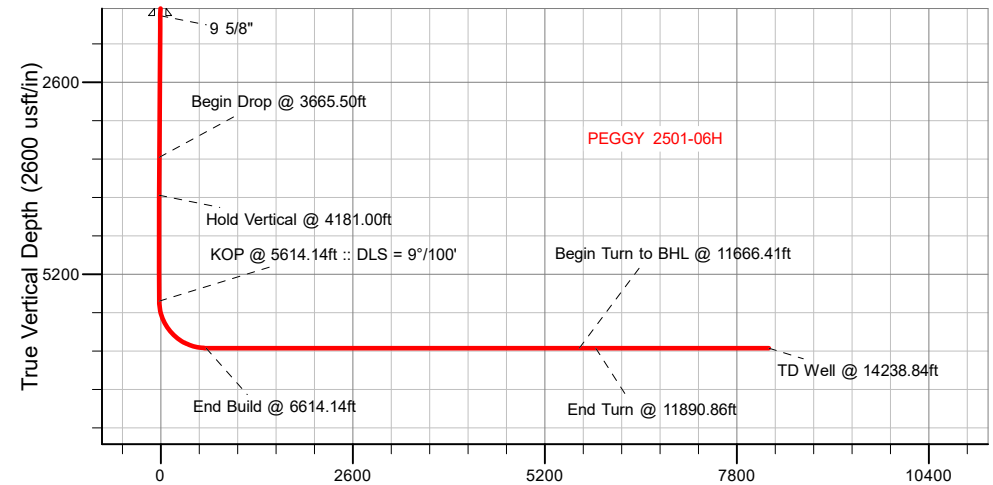


## SECTION DETAILS

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	350.00	0.00	0.00	350.00	0.00	0.00	0.00	0.00	0.00	
3	865.50	10.31	273.00	862.72	2.42	-46.19	2.00	273.00	-1.77	
4	3665.50	10.31	273.00	3617.51	28.65	-546.63	0.00	0.00	-20.92	
5	4181.00	0.00	0.00	4130.24	31.07	-592.82	2.00	180.00	-22.68	
6	5614.14	0.00	0.00	5563.38	31.07	-592.82	0.00	0.00	-22.68	
7	6614.14	90.00	179.47	6200.00	-605.52	-586.97	9.00	179.47	613.76	
8	11666.41	90.00	179.47	6200.00	-5657.58	-540.50	0.00	0.00	5664.65	PEGGY 2501-06H_SEC 01 Entry Point
9	11890.86	90.00	183.96	6200.00	-5881.88	-547.23	2.00	90.00	5889.02	
10	14238.84	90.00	183.96	6200.00	-8224.25	-709.47	0.00	0.00	8233.45	PEGGY 2501-06H_BHL

## WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
PEGGY 2501-06H_SHL	0.00	0.00	0.00	40.714775	-104.040625
PEGGY 2501-06H_KOP	5563.38	31.07	-592.82	40.714860	-104.042764
PEGGY 2501-06H_SEC 01 Entry Point	6200.00	-5657.58	-540.50	40.699246	-104.042575
PEGGY 2501-06H_BHL	6200.00	-8224.25	-709.47	40.692201	-104.043184



## WELL DETAILS: PEGGY 2501-06H

GL = 4893'

RKB = 16' @ 4909.00usft (RIG)

Plan: Design #1 (PEGGY 2501-06H/Wellbore #2)

SherryEnergy.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 2501-06H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 16' @ 4909.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 16' @ 4909.00usft (RIG)
<b>Site:</b>	9N-60W-25 PEGGY 2501 PAD	<b>North Reference:</b>	True
<b>Well:</b>	PEGGY 2501-06H	<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		

<b>Site</b>	9N-60W-25 PEGGY 2501 PAD			
<b>Site Position:</b>		<b>Northing:</b>	1,506,564.37 usft	<b>Latitude:</b> 40.714775
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,404,485.26 usft	<b>Longitude:</b> -104.040843
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b> 0.94 °

<b>Well</b>	PEGGY 2501-06H			
<b>Well Position</b>	<b>+N/-S</b>	0.10 usft	<b>Northing:</b>	1,506,565.47 usft
	<b>+E/-W</b>	60.13 usft	<b>Easting:</b>	3,404,545.38 usft
<b>Position Uncertainty</b>		3.28 usft	<b>Wellhead Elevation:</b>	<b>Latitude:</b> 40.714775
				<b>Longitude:</b> -104.040626
				<b>Ground Level:</b> 4,893.00 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	52,356.32165706

<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	180.81

<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	14,238.85	Design #1 (Wellbore #2)	ISCWSA REV 2 MWD Fixed:v2:standard declination

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## Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PEGGY 2501-06H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 16' @ 4909.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 16' @ 4909.00usft (RIG)
<b>Site:</b>	9N-60W-25 PEGGY 2501 PAD	<b>North Reference:</b>	True
<b>Well:</b>	PEGGY 2501-06H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #2		
<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	
350.00	0.00	0.00	350.00	0.00	0.00	0.00	0.00	0.00	0.00	
865.50	10.31	273.00	862.72	2.42	-46.19	2.00	2.00	0.00	273.00	
3,665.50	10.31	273.00	3,617.51	28.65	-546.63	0.00	0.00	0.00	0.00	
4,181.00	0.00	0.00	4,130.24	31.07	-592.82	2.00	-2.00	0.00	180.00	
5,614.14	0.00	0.00	5,563.38	31.07	-592.82	0.00	0.00	0.00	0.00	
6,614.14	90.00	179.47	6,200.00	-605.52	-586.97	9.00	9.00	17.95	179.47	
11,666.41	90.00	179.47	6,200.00	-5,657.58	-540.50	0.00	0.00	0.00	0.00	PEGGY 2501-06H_D
11,890.86	90.00	183.96	6,200.00	-5,881.88	-547.23	2.00	0.00	2.00	90.00	
14,238.85	90.00	183.96	6,200.00	-8,224.25	-709.47	0.00	0.00	0.00	0.00	PEGGY 2501-06H_BI

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## Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PEGGY 2501-06H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 16' @ 4909.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 16' @ 4909.00usft (RIG)
<b>Site:</b>	9N-60W-25 PEGGY 2501 PAD	<b>North Reference:</b>	True
<b>Well:</b>	PEGGY 2501-06H	<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
350.00	0.00	0.00	350.00	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 350.00ft									
400.00	1.00	273.00	400.00	0.02	-0.44	-0.02	2.00	2.00	0.00
500.00	3.00	273.00	499.93	0.21	-3.92	-0.15	2.00	2.00	0.00
600.00	5.00	273.00	599.68	0.57	-10.89	-0.42	2.00	2.00	0.00
700.00	7.00	273.00	699.13	1.12	-21.32	-0.82	2.00	2.00	0.00
800.00	9.00	273.00	798.15	1.85	-35.22	-1.35	2.00	2.00	0.00
865.50	10.31	273.00	862.72	2.42	-46.19	-1.77	2.00	2.00	0.00
Hold Tangent @ 865.50ft									
900.00	10.31	273.00	896.67	2.74	-52.36	-2.00	0.00	0.00	0.00
1,000.00	10.31	273.00	995.05	3.68	-70.23	-2.69	0.00	0.00	0.00
1,100.00	10.31	273.00	1,093.44	4.62	-88.10	-3.37	0.00	0.00	0.00
1,200.00	10.31	273.00	1,191.82	5.55	-105.98	-4.06	0.00	0.00	0.00
1,300.00	10.31	273.00	1,290.21	6.49	-123.85	-4.74	0.00	0.00	0.00
1,400.00	10.31	273.00	1,388.59	7.43	-141.72	-5.42	0.00	0.00	0.00
1,500.00	10.31	273.00	1,486.98	8.36	-159.60	-6.11	0.00	0.00	0.00
1,600.00	10.31	273.00	1,585.36	9.30	-177.47	-6.79	0.00	0.00	0.00
1,700.00	10.31	273.00	1,683.75	10.24	-195.34	-7.47	0.00	0.00	0.00
1,716.52	10.31	273.00	1,700.00	10.39	-198.29	-7.59	0.00	0.00	0.00
9 5/8"									
1,800.00	10.31	273.00	1,782.13	11.17	-213.21	-8.16	0.00	0.00	0.00
1,900.00	10.31	273.00	1,880.52	12.11	-231.09	-8.84	0.00	0.00	0.00
2,000.00	10.31	273.00	1,978.90	13.05	-248.96	-9.53	0.00	0.00	0.00
2,100.00	10.31	273.00	2,077.29	13.98	-266.83	-10.21	0.00	0.00	0.00
2,200.00	10.31	273.00	2,175.68	14.92	-284.71	-10.89	0.00	0.00	0.00
2,300.00	10.31	273.00	2,274.06	15.86	-302.58	-11.58	0.00	0.00	0.00
2,400.00	10.31	273.00	2,372.45	16.79	-320.45	-12.26	0.00	0.00	0.00
2,500.00	10.31	273.00	2,470.83	17.73	-338.32	-12.95	0.00	0.00	0.00
2,600.00	10.31	273.00	2,569.22	18.67	-356.20	-13.63	0.00	0.00	0.00
2,700.00	10.31	273.00	2,667.60	19.60	-374.07	-14.31	0.00	0.00	0.00
2,800.00	10.31	273.00	2,765.99	20.54	-391.94	-15.00	0.00	0.00	0.00
2,900.00	10.31	273.00	2,864.37	21.48	-409.82	-15.68	0.00	0.00	0.00
3,000.00	10.31	273.00	2,962.76	22.41	-427.69	-16.37	0.00	0.00	0.00
3,100.00	10.31	273.00	3,061.14	23.35	-445.56	-17.05	0.00	0.00	0.00
3,200.00	10.31	273.00	3,159.53	24.29	-463.43	-17.73	0.00	0.00	0.00
3,300.00	10.31	273.00	3,257.91	25.22	-481.31	-18.42	0.00	0.00	0.00
3,400.00	10.31	273.00	3,356.30	26.16	-499.18	-19.10	0.00	0.00	0.00
3,500.00	10.31	273.00	3,454.69	27.10	-517.05	-19.79	0.00	0.00	0.00
3,600.00	10.31	273.00	3,553.07	28.03	-534.93	-20.47	0.00	0.00	0.00
3,665.50	10.31	273.00	3,617.51	28.65	-546.63	-20.92	0.00	0.00	0.00
Begin Drop @ 3665.50ft									
3,700.00	9.62	273.00	3,651.49	28.96	-552.59	-21.15	2.00	-2.00	0.00
3,800.00	7.62	273.00	3,750.36	29.74	-567.56	-21.72	2.00	-2.00	0.00
3,900.00	5.62	273.00	3,849.69	30.35	-579.07	-22.16	2.00	-2.00	0.00
4,000.00	3.62	273.00	3,949.36	30.77	-587.12	-22.47	2.00	-2.00	0.00
4,100.00	1.62	273.00	4,049.25	31.01	-591.68	-22.64	2.00	-2.00	0.00
4,181.00	0.00	0.00	4,130.24	31.07	-592.82	-22.68	2.00	-2.00	0.00
Hold Vertical @ 4181.00ft									
4,200.00	0.00	0.00	4,149.24	31.07	-592.82	-22.68	0.00	0.00	0.00
4,300.00	0.00	0.00	4,249.24	31.07	-592.82	-22.68	0.00	0.00	0.00

# Hewlett-Packard

## Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PEGGY 2501-06H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 16' @ 4909.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 16' @ 4909.00usft (RIG)
<b>Site:</b>	9N-60W-25 PEGGY 2501 PAD	<b>North Reference:</b>	True
<b>Well:</b>	PEGGY 2501-06H	<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)
4,400.00	0.00	0.00	4,349.24	31.07	-592.82	-22.68	0.00	0.00	0.00
4,500.00	0.00	0.00	4,449.24	31.07	-592.82	-22.68	0.00	0.00	0.00
4,600.00	0.00	0.00	4,549.24	31.07	-592.82	-22.68	0.00	0.00	0.00
4,700.00	0.00	0.00	4,649.24	31.07	-592.82	-22.68	0.00	0.00	0.00
4,800.00	0.00	0.00	4,749.24	31.07	-592.82	-22.68	0.00	0.00	0.00
4,900.00	0.00	0.00	4,849.24	31.07	-592.82	-22.68	0.00	0.00	0.00
5,000.00	0.00	0.00	4,949.24	31.07	-592.82	-22.68	0.00	0.00	0.00
5,100.00	0.00	0.00	5,049.24	31.07	-592.82	-22.68	0.00	0.00	0.00
5,200.00	0.00	0.00	5,149.24	31.07	-592.82	-22.68	0.00	0.00	0.00
5,300.00	0.00	0.00	5,249.24	31.07	-592.82	-22.68	0.00	0.00	0.00
5,400.00	0.00	0.00	5,349.24	31.07	-592.82	-22.68	0.00	0.00	0.00
5,500.00	0.00	0.00	5,449.24	31.07	-592.82	-22.68	0.00	0.00	0.00
5,600.00	0.00	0.00	5,549.24	31.07	-592.82	-22.68	0.00	0.00	0.00
5,614.14	0.00	0.00	5,563.38	31.07	-592.82	-22.68	0.00	0.00	0.00
KOP @ 5614.14ft :: DLS = 9°/100'									
5,700.00	7.73	179.47	5,648.98	25.29	-592.77	-16.91	9.00	9.00	0.00
5,800.00	16.73	179.47	5,746.61	4.13	-592.58	4.25	9.00	9.00	0.00
5,900.00	25.73	179.47	5,839.73	-32.04	-592.24	40.41	9.00	9.00	0.00
6,000.00	34.73	179.47	5,926.04	-82.33	-591.78	90.68	9.00	9.00	0.00
6,100.00	43.73	179.47	6,003.43	-145.50	-591.20	153.84	9.00	9.00	0.00
6,200.00	52.73	179.47	6,069.97	-220.00	-590.52	228.32	9.00	9.00	0.00
6,300.00	61.73	179.47	6,124.05	-303.99	-589.74	312.30	9.00	9.00	0.00
6,400.00	70.73	179.47	6,164.32	-395.41	-588.90	403.69	9.00	9.00	0.00
6,500.00	79.73	179.47	6,189.79	-492.00	-588.01	500.26	9.00	9.00	0.00
6,600.00	88.73	179.47	6,199.84	-591.39	-587.10	599.63	9.00	9.00	0.00
6,614.14	90.00	179.47	6,200.00	-605.52	-586.97	613.76	9.00	9.00	0.00
End Build @ 6614.14ft									
6,700.00	90.00	179.47	6,200.00	-691.38	-586.18	699.60	0.00	0.00	0.00
6,800.00	90.00	179.47	6,200.00	-791.38	-585.26	799.57	0.00	0.00	0.00
6,900.00	90.00	179.47	6,200.00	-891.37	-584.34	899.54	0.00	0.00	0.00
7,000.00	90.00	179.47	6,200.00	-991.37	-583.42	999.52	0.00	0.00	0.00
7,100.00	90.00	179.47	6,200.00	-1,091.36	-582.50	1,099.49	0.00	0.00	0.00
7,200.00	90.00	179.47	6,200.00	-1,191.36	-581.58	1,199.46	0.00	0.00	0.00
7,300.00	90.00	179.47	6,200.00	-1,291.36	-580.66	1,299.43	0.00	0.00	0.00
7,400.00	90.00	179.47	6,200.00	-1,391.35	-579.74	1,399.41	0.00	0.00	0.00
7,500.00	90.00	179.47	6,200.00	-1,491.35	-578.82	1,499.38	0.00	0.00	0.00
7,600.00	90.00	179.47	6,200.00	-1,591.34	-577.90	1,599.35	0.00	0.00	0.00
7,700.00	90.00	179.47	6,200.00	-1,691.34	-576.98	1,699.33	0.00	0.00	0.00
7,800.00	90.00	179.47	6,200.00	-1,791.33	-576.06	1,799.30	0.00	0.00	0.00
7,900.00	90.00	179.47	6,200.00	-1,891.33	-575.14	1,899.27	0.00	0.00	0.00
8,000.00	90.00	179.47	6,200.00	-1,991.33	-574.22	1,999.24	0.00	0.00	0.00
8,100.00	90.00	179.47	6,200.00	-2,091.32	-573.30	2,099.22	0.00	0.00	0.00
8,200.00	90.00	179.47	6,200.00	-2,191.32	-572.38	2,199.19	0.00	0.00	0.00
8,300.00	90.00	179.47	6,200.00	-2,291.31	-571.46	2,299.16	0.00	0.00	0.00
8,400.00	90.00	179.47	6,200.00	-2,391.31	-570.54	2,399.14	0.00	0.00	0.00
8,500.00	90.00	179.47	6,200.00	-2,491.30	-569.63	2,499.11	0.00	0.00	0.00
8,600.00	90.00	179.47	6,200.00	-2,591.30	-568.71	2,599.08	0.00	0.00	0.00
8,700.00	90.00	179.47	6,200.00	-2,691.30	-567.79	2,699.05	0.00	0.00	0.00
8,800.00	90.00	179.47	6,200.00	-2,791.29	-566.87	2,799.03	0.00	0.00	0.00
8,900.00	90.00	179.47	6,200.00	-2,891.29	-565.95	2,899.00	0.00	0.00	0.00
9,000.00	90.00	179.47	6,200.00	-2,991.28	-565.03	2,998.97	0.00	0.00	0.00
9,100.00	90.00	179.47	6,200.00	-3,091.28	-564.11	3,098.94	0.00	0.00	0.00
9,200.00	90.00	179.47	6,200.00	-3,191.27	-563.19	3,198.92	0.00	0.00	0.00

# Hewlett-Packard

## Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PEGGY 2501-06H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 16' @ 4909.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 16' @ 4909.00usft (RIG)
<b>Site:</b>	9N-60W-25 PEGGY 2501 PAD	<b>North Reference:</b>	True
<b>Well:</b>	PEGGY 2501-06H	<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)	
9,300.00	90.00	179.47	6,200.00	-3,291.27	-562.27	3,298.89	0.00	0.00	0.00	
9,400.00	90.00	179.47	6,200.00	-3,391.27	-561.35	3,398.86	0.00	0.00	0.00	
9,500.00	90.00	179.47	6,200.00	-3,491.26	-560.43	3,498.84	0.00	0.00	0.00	
9,600.00	90.00	179.47	6,200.00	-3,591.26	-559.51	3,598.81	0.00	0.00	0.00	
9,700.00	90.00	179.47	6,200.00	-3,691.25	-558.59	3,698.78	0.00	0.00	0.00	
9,800.00	90.00	179.47	6,200.00	-3,791.25	-557.67	3,798.75	0.00	0.00	0.00	
9,900.00	90.00	179.47	6,200.00	-3,891.25	-556.75	3,898.73	0.00	0.00	0.00	
10,000.00	90.00	179.47	6,200.00	-3,991.24	-555.83	3,998.70	0.00	0.00	0.00	
10,100.00	90.00	179.47	6,200.00	-4,091.24	-554.91	4,098.67	0.00	0.00	0.00	
10,200.00	90.00	179.47	6,200.00	-4,191.23	-553.99	4,198.65	0.00	0.00	0.00	
10,300.00	90.00	179.47	6,200.00	-4,291.23	-553.07	4,298.62	0.00	0.00	0.00	
10,400.00	90.00	179.47	6,200.00	-4,391.22	-552.15	4,398.59	0.00	0.00	0.00	
10,500.00	90.00	179.47	6,200.00	-4,491.22	-551.23	4,498.56	0.00	0.00	0.00	
10,600.00	90.00	179.47	6,200.00	-4,591.22	-550.31	4,598.54	0.00	0.00	0.00	
10,700.00	90.00	179.47	6,200.00	-4,691.21	-549.39	4,698.51	0.00	0.00	0.00	
10,800.00	90.00	179.47	6,200.00	-4,791.21	-548.47	4,798.48	0.00	0.00	0.00	
10,900.00	90.00	179.47	6,200.00	-4,891.20	-547.55	4,898.45	0.00	0.00	0.00	
11,000.00	90.00	179.47	6,200.00	-4,991.20	-546.63	4,998.43	0.00	0.00	0.00	
11,100.00	90.00	179.47	6,200.00	-5,091.19	-545.71	5,098.40	0.00	0.00	0.00	
11,200.00	90.00	179.47	6,200.00	-5,191.19	-544.79	5,198.37	0.00	0.00	0.00	
11,300.00	90.00	179.47	6,200.00	-5,291.19	-543.87	5,298.35	0.00	0.00	0.00	
11,400.00	90.00	179.47	6,200.00	-5,391.18	-542.95	5,398.32	0.00	0.00	0.00	
11,500.00	90.00	179.47	6,200.00	-5,491.18	-542.03	5,498.29	0.00	0.00	0.00	
11,600.00	90.00	179.47	6,200.00	-5,591.17	-541.11	5,598.26	0.00	0.00	0.00	
11,666.41	90.00	179.47	6,200.00	-5,657.58	-540.50	5,664.65	0.00	0.00	0.00	
Begin Turn to BHL @ 11666.41ft										
11,700.00	90.00	180.14	6,200.00	-5,691.17	-540.39	5,698.24	2.00	0.00	2.00	
11,800.00	90.00	182.14	6,200.00	-5,791.15	-542.39	5,798.23	2.00	0.00	2.00	
11,890.86	90.00	183.96	6,200.00	-5,881.88	-547.23	5,889.02	2.00	0.00	2.00	
End Turn @ 11890.86ft										
11,900.00	90.00	183.96	6,200.00	-5,890.99	-547.86	5,898.15	0.00	0.00	0.00	
12,000.00	90.00	183.96	6,200.00	-5,990.75	-554.77	5,998.00	0.00	0.00	0.00	
12,100.00	90.00	183.96	6,200.00	-6,090.51	-561.68	6,097.84	0.00	0.00	0.00	
12,200.00	90.00	183.96	6,200.00	-6,190.27	-568.59	6,197.69	0.00	0.00	0.00	
12,300.00	90.00	183.96	6,200.00	-6,290.03	-575.50	6,297.54	0.00	0.00	0.00	
12,400.00	90.00	183.96	6,200.00	-6,389.80	-582.41	6,397.39	0.00	0.00	0.00	
12,500.00	90.00	183.96	6,200.00	-6,489.56	-589.32	6,497.24	0.00	0.00	0.00	
12,600.00	90.00	183.96	6,200.00	-6,589.32	-596.23	6,597.09	0.00	0.00	0.00	
12,700.00	90.00	183.96	6,200.00	-6,689.08	-603.14	6,696.94	0.00	0.00	0.00	
12,800.00	90.00	183.96	6,200.00	-6,788.84	-610.05	6,796.79	0.00	0.00	0.00	
12,900.00	90.00	183.96	6,200.00	-6,888.60	-616.96	6,896.63	0.00	0.00	0.00	
13,000.00	90.00	183.96	6,200.00	-6,988.36	-623.87	6,996.48	0.00	0.00	0.00	
13,100.00	90.00	183.96	6,200.00	-7,088.12	-630.78	7,096.33	0.00	0.00	0.00	
13,200.00	90.00	183.96	6,200.00	-7,187.88	-637.69	7,196.18	0.00	0.00	0.00	
13,300.00	90.00	183.96	6,200.00	-7,287.64	-644.60	7,296.03	0.00	0.00	0.00	
13,400.00	90.00	183.96	6,200.00	-7,387.41	-651.51	7,395.88	0.00	0.00	0.00	
13,500.00	90.00	183.96	6,200.00	-7,487.17	-658.42	7,495.73	0.00	0.00	0.00	
13,600.00	90.00	183.96	6,200.00	-7,586.93	-665.33	7,595.57	0.00	0.00	0.00	
13,700.00	90.00	183.96	6,200.00	-7,686.69	-672.24	7,695.42	0.00	0.00	0.00	
13,800.00	90.00	183.96	6,200.00	-7,786.45	-679.15	7,795.27	0.00	0.00	0.00	
13,900.00	90.00	183.96	6,200.00	-7,886.21	-686.06	7,895.12	0.00	0.00	0.00	
14,000.00	90.00	183.96	6,200.00	-7,985.97	-692.97	7,994.97	0.00	0.00	0.00	
14,100.00	90.00	183.96	6,200.00	-8,085.73	-699.88	8,094.82	0.00	0.00	0.00	
14,200.00	90.00	183.96	6,200.00	-8,185.49	-706.79	8,194.67	0.00	0.00	0.00	

# Hewlett-Packard

## Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PEGGY 2501-06H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 16' @ 4909.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 16' @ 4909.00usft (RIG)
<b>Site:</b>	9N-60W-25 PEGGY 2501 PAD	<b>North Reference:</b>	True
<b>Well:</b>	PEGGY 2501-06H	<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)
14,238.85	90.00	183.96	6,200.00	-8,224.25	-709.47	8,233.45	0.00	0.00	0.00
TD Well @ 14238.84ft									

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,716.52	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)	
350.00	350.00	0.00	0.00	Begin Nudge @ 350.00ft
865.50	862.72	2.42	-46.19	Hold Tangent @ 865.50ft
3,665.50	3,617.51	28.65	-546.63	Begin Drop @ 3665.50ft
4,181.00	4,130.24	31.07	-592.82	Hold Vertical @ 4181.00ft
5,614.14	5,563.38	31.07	-592.82	KOP @ 5614.14ft :: DLS = 9°/100'
6,614.14	6,200.00	-605.52	-586.97	End Build @ 6614.14ft
11,666.41	6,200.00	-5,657.58	-540.50	Begin Turn to BHL @ 11666.41ft
11,890.86	6,200.00	-5,881.88	-547.23	End Turn @ 11890.86ft
14,238.85	6,200.00	-8,224.25	-709.47	TD Well @ 14238.84ft