

VERDAD RESOURCES

WATTENBERG FIELD

9N-60W-25 PEGGY 2501 PAD

PEGGY 2501-08H

Wellbore #2

Plan: Design #1

Standard Planning Report

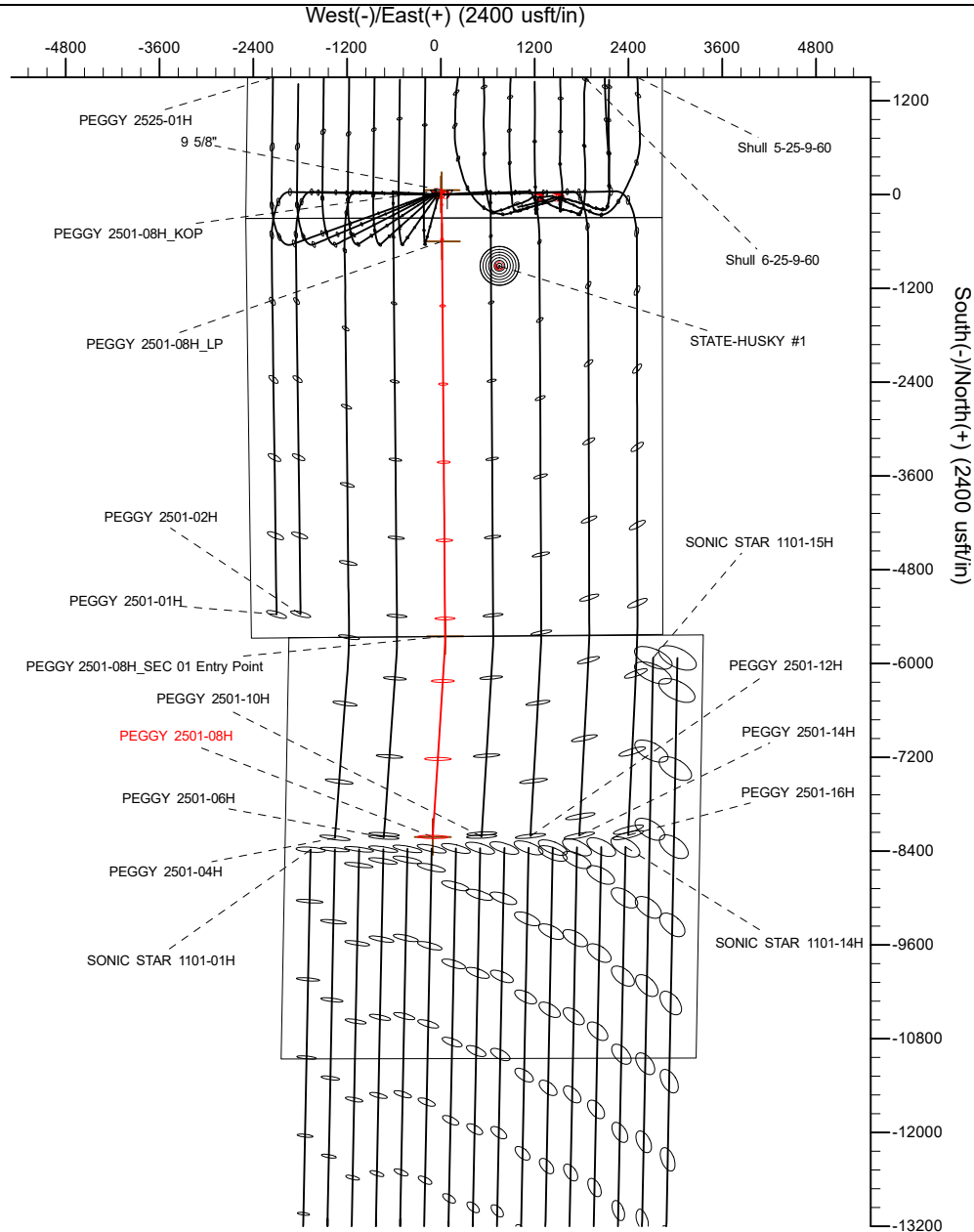
30 October, 2019

Project: WATTENBERG FIELD
Site: 9N-60W-25 PEGGY 2501 PAD
Well: PEGGY 2501-08H
Wellbore: Wellbore #2
Design: Design #1

VERDAD RESOURCES

CASING DETAILS

TVD	MD	Name	Size
1700.00	1702.65	9 5/8"	9-5/8

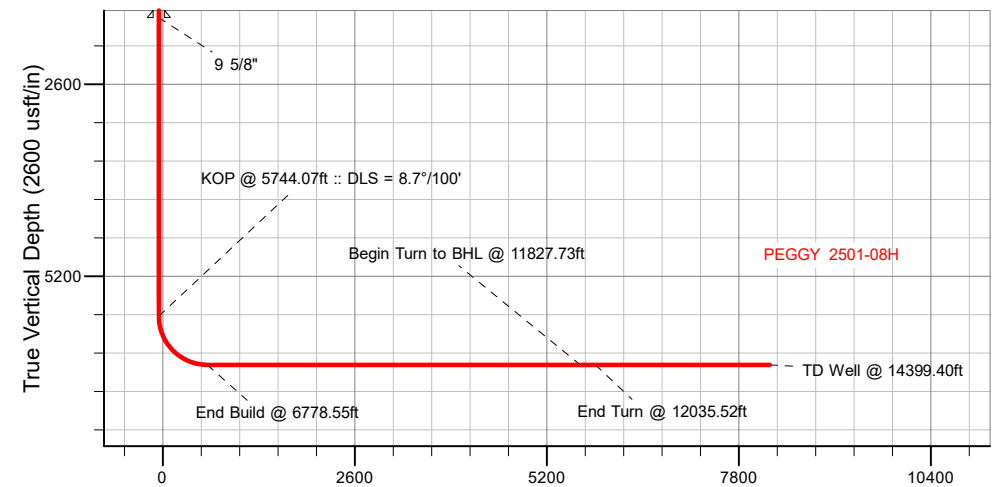


SECTION DETAILS

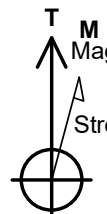
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	
3	800.00	8.00	10.00	798.70	27.46	4.84	2.00	10.00	-27.52	
4	805.00	8.00	10.00	803.65	28.14	4.96	0.00	0.00	-28.21	
5	1205.00	0.00	0.00	1202.35	55.60	9.80	2.00	180.00	-55.73	
6	5744.07	0.00	0.00	5741.42	55.60	9.80	0.00	0.00	-55.73	
7	6778.55	90.00	179.55	6400.00	-602.95	14.96	8.70	179.55	602.69	
8	11827.73	90.00	179.55	6400.00	-5651.97	54.49	0.00	0.00	5650.68	PEGGY 2501-08H_SEC 01 Entry Point
9	12035.52	90.00	183.71	6400.00	-5859.63	48.58	2.00	90.00	5858.41	
10	14399.40	90.00	183.71	6400.00	-8218.57	-104.27	0.00	0.00	8219.23	PEGGY 2501-08H_BHL

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
PEGGY 2501-08H_SHL	0.00	0.00	0.00	40.714775	-104.040553
PEGGY 2501-08H_KOP	5741.42	55.60	9.80	40.714928	-104.040518
PEGGY 2501-08H_SEC 01 Entry Point	6400.00	-5651.97	54.49	40.699262	-104.040357
PEGGY 2501-08H_BHL	6400.00	-8218.57	-104.27	40.692217	-104.040929



SHL 300' FSL 2492' FWL
KOP 355' FSL 2505' FWL
LP 300' FNL 2506' FWL
SEC 01 Entry 0' FSL 2478' FWL
BHL 2565' FNL 1887' FWL

	WELL DETAILS: PEGGY 2501-08H	
	GL = 4893'	
	RKB = 16' @ 4909.00usft (RIG)	
	Plan: Design #1 (PEGGY 2501-08H/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 2501-08H
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 2501-08H	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 2501-08H			
Well Position	+N/-S	0.17 usft	Northing:	1,506,565.87 usft
	+E/-W	80.12 usft	Easting:	3,404,565.36 usft
Position Uncertainty		3.28 usft	Wellhead Elevation:	Latitude: 40.714775
				Longitude: -104.040554
				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	52,356.32885345

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	180.79

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	14,399.40	Design #1 (Wellbore #2)	ISCWSA REV 2 MWD
				Fixed:v2:standard declination

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 2501-08H	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	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	8.00	10.00	798.70	27.46	4.84	2.00	2.00	0.00	10.00	
805.00	8.00	10.00	803.65	28.14	4.96	0.00	0.00	0.00	0.00	
1,205.00	0.00	0.00	1,202.35	55.60	9.80	2.00	-2.00	0.00	180.00	
5,744.07	0.00	0.00	5,741.42	55.60	9.80	0.00	0.00	0.00	0.00	
6,778.55	90.00	179.55	6,400.00	-602.95	14.96	8.70	8.70	17.36	179.55	
11,827.73	90.00	179.55	6,400.00	-5,651.97	54.49	0.00	0.00	0.00	0.00	PEGGY 2501-08H_Di
12,035.52	90.00	183.71	6,400.00	-5,859.63	48.58	2.00	0.00	2.00	90.00	
14,399.40	90.00	183.71	6,400.00	-8,218.57	-104.27	0.00	0.00	0.00	0.00	PEGGY 2501-08H_BI

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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 2501-08H	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
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 400.00ft									
500.00	2.00	10.00	499.98	1.72	0.30	-1.72	2.00	2.00	0.00
600.00	4.00	10.00	599.84	6.87	1.21	-6.89	2.00	2.00	0.00
700.00	6.00	10.00	699.45	15.46	2.73	-15.49	2.00	2.00	0.00
800.00	8.00	10.00	798.70	27.46	4.84	-27.52	2.00	2.00	0.00
Hold Tangent @ 800.00ft									
805.00	8.00	10.00	803.65	28.14	4.96	-28.21	0.00	0.00	0.00
Begin Drop @ 805.00ft									
900.00	6.10	10.00	897.93	39.62	6.99	-39.72	2.00	-2.00	0.00
1,000.00	4.10	10.00	997.53	48.38	8.53	-48.49	2.00	-2.00	0.00
1,100.00	2.10	10.00	1,097.38	53.70	9.47	-53.83	2.00	-2.00	0.00
1,200.00	0.10	10.00	1,197.35	55.59	9.80	-55.72	2.00	-2.00	0.00
1,205.00	0.00	0.00	1,202.35	55.60	9.80	-55.73	2.00	-2.00	0.00
Hold Vertical @ 1205.00ft									
1,300.00	0.00	0.00	1,297.35	55.60	9.80	-55.73	0.00	0.00	0.00
1,400.00	0.00	0.00	1,397.35	55.60	9.80	-55.73	0.00	0.00	0.00
1,500.00	0.00	0.00	1,497.35	55.60	9.80	-55.73	0.00	0.00	0.00
1,600.00	0.00	0.00	1,597.35	55.60	9.80	-55.73	0.00	0.00	0.00
1,700.00	0.00	0.00	1,697.35	55.60	9.80	-55.73	0.00	0.00	0.00
1,702.65	0.00	0.00	1,700.00	55.60	9.80	-55.73	0.00	0.00	0.00
9 5/8"									
1,800.00	0.00	0.00	1,797.35	55.60	9.80	-55.73	0.00	0.00	0.00
1,900.00	0.00	0.00	1,897.35	55.60	9.80	-55.73	0.00	0.00	0.00
2,000.00	0.00	0.00	1,997.35	55.60	9.80	-55.73	0.00	0.00	0.00
2,100.00	0.00	0.00	2,097.35	55.60	9.80	-55.73	0.00	0.00	0.00
2,200.00	0.00	0.00	2,197.35	55.60	9.80	-55.73	0.00	0.00	0.00
2,300.00	0.00	0.00	2,297.35	55.60	9.80	-55.73	0.00	0.00	0.00
2,400.00	0.00	0.00	2,397.35	55.60	9.80	-55.73	0.00	0.00	0.00
2,500.00	0.00	0.00	2,497.35	55.60	9.80	-55.73	0.00	0.00	0.00
2,600.00	0.00	0.00	2,597.35	55.60	9.80	-55.73	0.00	0.00	0.00
2,700.00	0.00	0.00	2,697.35	55.60	9.80	-55.73	0.00	0.00	0.00
2,800.00	0.00	0.00	2,797.35	55.60	9.80	-55.73	0.00	0.00	0.00
2,900.00	0.00	0.00	2,897.35	55.60	9.80	-55.73	0.00	0.00	0.00
3,000.00	0.00	0.00	2,997.35	55.60	9.80	-55.73	0.00	0.00	0.00
3,100.00	0.00	0.00	3,097.35	55.60	9.80	-55.73	0.00	0.00	0.00
3,200.00	0.00	0.00	3,197.35	55.60	9.80	-55.73	0.00	0.00	0.00
3,300.00	0.00	0.00	3,297.35	55.60	9.80	-55.73	0.00	0.00	0.00
3,400.00	0.00	0.00	3,397.35	55.60	9.80	-55.73	0.00	0.00	0.00
3,500.00	0.00	0.00	3,497.35	55.60	9.80	-55.73	0.00	0.00	0.00
3,600.00	0.00	0.00	3,597.35	55.60	9.80	-55.73	0.00	0.00	0.00
3,700.00	0.00	0.00	3,697.35	55.60	9.80	-55.73	0.00	0.00	0.00
3,800.00	0.00	0.00	3,797.35	55.60	9.80	-55.73	0.00	0.00	0.00
3,900.00	0.00	0.00	3,897.35	55.60	9.80	-55.73	0.00	0.00	0.00
4,000.00	0.00	0.00	3,997.35	55.60	9.80	-55.73	0.00	0.00	0.00
4,100.00	0.00	0.00	4,097.35	55.60	9.80	-55.73	0.00	0.00	0.00
4,200.00	0.00	0.00	4,197.35	55.60	9.80	-55.73	0.00	0.00	0.00
4,300.00	0.00	0.00	4,297.35	55.60	9.80	-55.73	0.00	0.00	0.00
4,400.00	0.00	0.00	4,397.35	55.60	9.80	-55.73	0.00	0.00	0.00
4,500.00	0.00	0.00	4,497.35	55.60	9.80	-55.73	0.00	0.00	0.00

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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 2501-08H	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)
4,600.00	0.00	0.00	4,597.35	55.60	9.80	-55.73	0.00	0.00	0.00
4,700.00	0.00	0.00	4,697.35	55.60	9.80	-55.73	0.00	0.00	0.00
4,800.00	0.00	0.00	4,797.35	55.60	9.80	-55.73	0.00	0.00	0.00
4,900.00	0.00	0.00	4,897.35	55.60	9.80	-55.73	0.00	0.00	0.00
5,000.00	0.00	0.00	4,997.35	55.60	9.80	-55.73	0.00	0.00	0.00
5,100.00	0.00	0.00	5,097.35	55.60	9.80	-55.73	0.00	0.00	0.00
5,200.00	0.00	0.00	5,197.35	55.60	9.80	-55.73	0.00	0.00	0.00
5,300.00	0.00	0.00	5,297.35	55.60	9.80	-55.73	0.00	0.00	0.00
5,400.00	0.00	0.00	5,397.35	55.60	9.80	-55.73	0.00	0.00	0.00
5,500.00	0.00	0.00	5,497.35	55.60	9.80	-55.73	0.00	0.00	0.00
5,600.00	0.00	0.00	5,597.35	55.60	9.80	-55.73	0.00	0.00	0.00
5,700.00	0.00	0.00	5,697.35	55.60	9.80	-55.73	0.00	0.00	0.00
5,744.07	0.00	0.00	5,741.42	55.60	9.80	-55.73	0.00	0.00	0.00
KOP @ 5744.07ft :: DLS = 8.7°/100'									
5,800.00	4.87	179.55	5,797.29	53.22	9.82	-53.35	8.70	8.70	0.00
5,900.00	13.57	179.55	5,895.90	37.22	9.95	-37.36	8.70	8.70	0.00
6,000.00	22.27	179.55	5,990.96	6.49	10.19	-6.63	8.70	8.70	0.00
6,100.00	30.97	179.55	6,080.28	-38.26	10.54	38.11	8.70	8.70	0.00
6,200.00	39.67	179.55	6,161.80	-96.01	10.99	95.85	8.70	8.70	0.00
6,300.00	48.37	179.55	6,233.64	-165.43	11.53	165.26	8.70	8.70	0.00
6,400.00	57.07	179.55	6,294.16	-244.92	12.16	244.73	8.70	8.70	0.00
6,500.00	65.77	179.55	6,341.96	-332.64	12.84	332.43	8.70	8.70	0.00
6,600.00	74.47	179.55	6,375.94	-426.59	13.58	426.36	8.70	8.70	0.00
6,700.00	83.17	179.55	6,395.32	-524.59	14.35	524.34	8.70	8.70	0.00
6,778.55	90.00	179.55	6,400.00	-602.95	14.96	602.69	8.70	8.70	0.00
End Build @ 6778.55ft									
6,800.00	90.00	179.55	6,400.00	-624.40	15.13	624.13	0.00	0.00	0.00
6,900.00	90.00	179.55	6,400.00	-724.40	15.91	724.11	0.00	0.00	0.00
7,000.00	90.00	179.55	6,400.00	-824.39	16.69	824.09	0.00	0.00	0.00
7,100.00	90.00	179.55	6,400.00	-924.39	17.48	924.06	0.00	0.00	0.00
7,200.00	90.00	179.55	6,400.00	-1,024.39	18.26	1,024.04	0.00	0.00	0.00
7,300.00	90.00	179.55	6,400.00	-1,124.39	19.04	1,124.02	0.00	0.00	0.00
7,400.00	90.00	179.55	6,400.00	-1,224.38	19.82	1,223.99	0.00	0.00	0.00
7,500.00	90.00	179.55	6,400.00	-1,324.38	20.61	1,323.97	0.00	0.00	0.00
7,600.00	90.00	179.55	6,400.00	-1,424.38	21.39	1,423.95	0.00	0.00	0.00
7,700.00	90.00	179.55	6,400.00	-1,524.37	22.17	1,523.92	0.00	0.00	0.00
7,800.00	90.00	179.55	6,400.00	-1,624.37	22.96	1,623.90	0.00	0.00	0.00
7,900.00	90.00	179.55	6,400.00	-1,724.37	23.74	1,723.88	0.00	0.00	0.00
8,000.00	90.00	179.55	6,400.00	-1,824.36	24.52	1,823.85	0.00	0.00	0.00
8,100.00	90.00	179.55	6,400.00	-1,924.36	25.30	1,923.83	0.00	0.00	0.00
8,200.00	90.00	179.55	6,400.00	-2,024.36	26.09	2,023.81	0.00	0.00	0.00
8,300.00	90.00	179.55	6,400.00	-2,124.35	26.87	2,123.78	0.00	0.00	0.00
8,400.00	90.00	179.55	6,400.00	-2,224.35	27.65	2,223.76	0.00	0.00	0.00
8,500.00	90.00	179.55	6,400.00	-2,324.35	28.44	2,323.74	0.00	0.00	0.00
8,600.00	90.00	179.55	6,400.00	-2,424.35	29.22	2,423.71	0.00	0.00	0.00
8,700.00	90.00	179.55	6,400.00	-2,524.34	30.00	2,523.69	0.00	0.00	0.00
8,800.00	90.00	179.55	6,400.00	-2,624.34	30.78	2,623.67	0.00	0.00	0.00
8,900.00	90.00	179.55	6,400.00	-2,724.34	31.57	2,723.64	0.00	0.00	0.00
9,000.00	90.00	179.55	6,400.00	-2,824.33	32.35	2,823.62	0.00	0.00	0.00
9,100.00	90.00	179.55	6,400.00	-2,924.33	33.13	2,923.60	0.00	0.00	0.00
9,200.00	90.00	179.55	6,400.00	-3,024.33	33.91	3,023.57	0.00	0.00	0.00
9,300.00	90.00	179.55	6,400.00	-3,124.32	34.70	3,123.55	0.00	0.00	0.00
9,400.00	90.00	179.55	6,400.00	-3,224.32	35.48	3,223.53	0.00	0.00	0.00

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Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well PEGGY 2501-08H
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 2501-08H	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)	
9,500.00	90.00	179.55	6,400.00	-3,324.32	36.26	3,323.50	0.00	0.00	0.00	
9,600.00	90.00	179.55	6,400.00	-3,424.31	37.05	3,423.48	0.00	0.00	0.00	
9,700.00	90.00	179.55	6,400.00	-3,524.31	37.83	3,523.46	0.00	0.00	0.00	
9,800.00	90.00	179.55	6,400.00	-3,624.31	38.61	3,623.43	0.00	0.00	0.00	
9,900.00	90.00	179.55	6,400.00	-3,724.31	39.39	3,723.41	0.00	0.00	0.00	
10,000.00	90.00	179.55	6,400.00	-3,824.30	40.18	3,823.39	0.00	0.00	0.00	
10,100.00	90.00	179.55	6,400.00	-3,924.30	40.96	3,923.36	0.00	0.00	0.00	
10,200.00	90.00	179.55	6,400.00	-4,024.30	41.74	4,023.34	0.00	0.00	0.00	
10,300.00	90.00	179.55	6,400.00	-4,124.29	42.53	4,123.32	0.00	0.00	0.00	
10,400.00	90.00	179.55	6,400.00	-4,224.29	43.31	4,223.29	0.00	0.00	0.00	
10,500.00	90.00	179.55	6,400.00	-4,324.29	44.09	4,323.27	0.00	0.00	0.00	
10,600.00	90.00	179.55	6,400.00	-4,424.28	44.87	4,423.24	0.00	0.00	0.00	
10,700.00	90.00	179.55	6,400.00	-4,524.28	45.66	4,523.22	0.00	0.00	0.00	
10,800.00	90.00	179.55	6,400.00	-4,624.28	46.44	4,623.20	0.00	0.00	0.00	
10,900.00	90.00	179.55	6,400.00	-4,724.28	47.22	4,723.17	0.00	0.00	0.00	
11,000.00	90.00	179.55	6,400.00	-4,824.27	48.01	4,823.15	0.00	0.00	0.00	
11,100.00	90.00	179.55	6,400.00	-4,924.27	48.79	4,923.13	0.00	0.00	0.00	
11,200.00	90.00	179.55	6,400.00	-5,024.27	49.57	5,023.10	0.00	0.00	0.00	
11,300.00	90.00	179.55	6,400.00	-5,124.26	50.35	5,123.08	0.00	0.00	0.00	
11,400.00	90.00	179.55	6,400.00	-5,224.26	51.14	5,223.06	0.00	0.00	0.00	
11,500.00	90.00	179.55	6,400.00	-5,324.26	51.92	5,323.03	0.00	0.00	0.00	
11,600.00	90.00	179.55	6,400.00	-5,424.25	52.70	5,423.01	0.00	0.00	0.00	
11,700.00	90.00	179.55	6,400.00	-5,524.25	53.49	5,522.99	0.00	0.00	0.00	
11,800.00	90.00	179.55	6,400.00	-5,624.25	54.27	5,622.96	0.00	0.00	0.00	
11,827.73	90.00	179.55	6,400.00	-5,651.97	54.49	5,650.68	0.00	0.00	0.00	
Begin Turn to BHL @ 11827.73ft										
11,900.00	90.00	181.00	6,400.00	-5,724.24	54.14	5,722.95	2.00	0.00	2.00	
12,000.00	90.00	183.00	6,400.00	-5,824.18	50.66	5,822.93	2.00	0.00	2.00	
12,035.52	90.00	183.71	6,400.00	-5,859.63	48.58	5,858.41	2.00	0.00	2.00	
End Turn @ 12035.52ft										
12,100.00	90.00	183.71	6,400.00	-5,923.98	44.41	5,922.81	0.00	0.00	0.00	
12,200.00	90.00	183.71	6,400.00	-6,023.77	37.94	6,022.68	0.00	0.00	0.00	
12,300.00	90.00	183.71	6,400.00	-6,123.56	31.48	6,122.55	0.00	0.00	0.00	
12,400.00	90.00	183.71	6,400.00	-6,223.35	25.01	6,222.42	0.00	0.00	0.00	
12,500.00	90.00	183.71	6,400.00	-6,323.15	18.55	6,322.29	0.00	0.00	0.00	
12,600.00	90.00	183.71	6,400.00	-6,422.94	12.08	6,422.16	0.00	0.00	0.00	
12,700.00	90.00	183.71	6,400.00	-6,522.73	5.61	6,522.03	0.00	0.00	0.00	
12,800.00	90.00	183.71	6,400.00	-6,622.52	-0.85	6,621.90	0.00	0.00	0.00	
12,900.00	90.00	183.71	6,400.00	-6,722.31	-7.32	6,721.77	0.00	0.00	0.00	
13,000.00	90.00	183.71	6,400.00	-6,822.10	-13.78	6,821.64	0.00	0.00	0.00	
13,100.00	90.00	183.71	6,400.00	-6,921.89	-20.25	6,921.51	0.00	0.00	0.00	
13,200.00	90.00	183.71	6,400.00	-7,021.68	-26.72	7,021.38	0.00	0.00	0.00	
13,300.00	90.00	183.71	6,400.00	-7,121.47	-33.18	7,121.25	0.00	0.00	0.00	
13,400.00	90.00	183.71	6,400.00	-7,221.26	-39.65	7,221.12	0.00	0.00	0.00	
13,500.00	90.00	183.71	6,400.00	-7,321.05	-46.11	7,320.99	0.00	0.00	0.00	
13,600.00	90.00	183.71	6,400.00	-7,420.84	-52.58	7,420.86	0.00	0.00	0.00	
13,700.00	90.00	183.71	6,400.00	-7,520.63	-59.05	7,520.73	0.00	0.00	0.00	
13,800.00	90.00	183.71	6,400.00	-7,620.42	-65.51	7,620.60	0.00	0.00	0.00	
13,900.00	90.00	183.71	6,400.00	-7,720.22	-71.98	7,720.47	0.00	0.00	0.00	
14,000.00	90.00	183.71	6,400.00	-7,820.01	-78.44	7,820.34	0.00	0.00	0.00	
14,100.00	90.00	183.71	6,400.00	-7,919.80	-84.91	7,920.21	0.00	0.00	0.00	
14,200.00	90.00	183.71	6,400.00	-8,019.59	-91.38	8,020.09	0.00	0.00	0.00	
14,300.00	90.00	183.71	6,400.00	-8,119.38	-97.84	8,119.96	0.00	0.00	0.00	
14,399.40	90.00	183.71	6,400.00	-8,218.57	-104.27	8,219.23	0.00	0.00	0.00	

Hewlett-Packard

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well PEGGY 2501-08H
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 2501-08H	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)
TD Well @ 14399.40ft									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
1,702.65	1,700.00	9 5/8"		9-5/8	13-1/2

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
400.00	400.00	0.00	0.00	Begin Nudge @ 400.00ft	
800.00	798.70	27.46	4.84	Hold Tangent @ 800.00ft	
805.00	803.65	28.14	4.96	Begin Drop @ 805.00ft	
1,205.00	1,202.35	55.60	9.80	Hold Vertical @ 1205.00ft	
5,744.07	5,741.42	55.60	9.80	KOP @ 5744.07ft :: DLS = 8.7°/100'	
6,778.55	6,400.00	-602.95	14.96	End Build @ 6778.55ft	
11,827.73	6,400.00	-5,651.97	54.49	Begin Turn to BHL @ 11827.73ft	
12,035.52	6,400.00	-5,859.63	48.58	End Turn @ 12035.52ft	
14,399.40	6,400.00	-8,218.57	-104.27	TD Well @ 14399.40ft	