

# **VERDAD RESOURCES**

**WATTENBERG FIELD  
8N-60W-14 SCHNEIDER 1414 PAD  
SCHNEIDER 1414-09H**

**Wellbore #1**

**Plan: Design #2**

## **Standard Planning Report**

**13 June, 2018**

Project: WATTENBERG FIELD  
Site: 8N-60W-14 SCHNEIDER 1414 PAD  
Well: SCHNEIDER 1414-09H  
Wellbore: Wellbore #1  
Design: Design #2

# VERDAD RESOURCES

## CASING DETAILS

TVD	MD	Name	Size
1700.00	1766.68	9 5/8"	9-5/8

SHL  
241' FNL  
1383' FWL

LP  
300' FNL  
1414' FEL

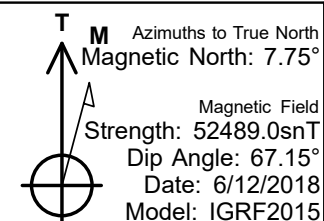
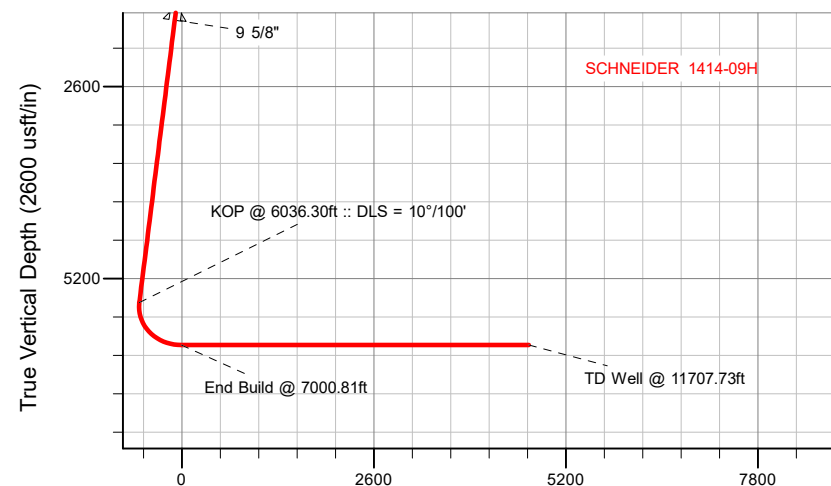
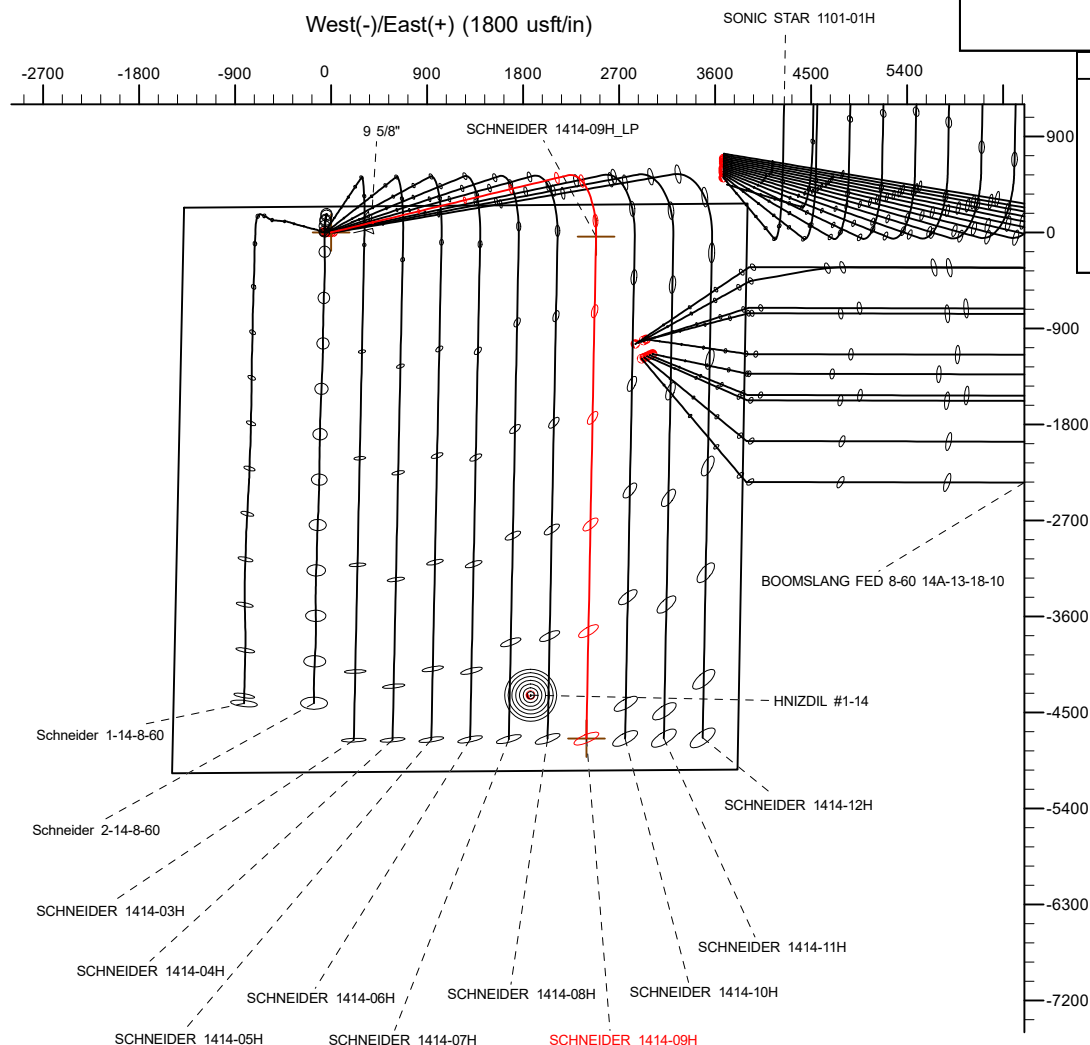
BHL  
300' FSL  
1423' FEL

## 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	250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	
3	1568.50	26.37	76.45	1522.44	69.84	289.80	2.00	76.45	-75.39	
4	6036.30	26.37	76.45	5525.34	534.79	2219.01	0.00	0.00	-577.29	
5	7000.81	90.00	181.10	6100.00	-39.74	2483.62	10.00	103.18	-7.94	
6	11707.73	90.00	181.10	6100.00	-4745.78	2392.99	0.00	0.00	4698.97	SCHNEIDER 1414-09H_BHL

## WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
SCHNEIDER 1414-09H_SHL	0.00	0.00	0.00	40.669100	-104.062372
SCHNEIDER 1414-09H_BHL	6100.00	-4745.78	2392.99	40.656073	-104.053748



## WELL DETAILS: SCHNEIDER 1414-09H

GL = 4943'

RKB = 20' @ 4963.00usft (RIG)

Plan: Design #2 (SCHNEIDER 1414-09H/Wellbore #1)

Date: 6/13/2018

# Hewlett-Packard

## Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well SCHNEIDER 1414-09H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 20' @ 4963.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 20' @ 4963.00usft (RIG)
<b>Site:</b>	8N-60W-14 SCHNEIDER 1414 PAD	<b>North Reference:</b>	True
<b>Well:</b>	SCHNEIDER 1414-09H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #2		

<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>	8N-60W-14 SCHNEIDER 1414 PAD			
<b>Site Position:</b>		<b>Northing:</b>	1,489,828.18 usft	<b>Latitude:</b> 40.669102
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,398,727.28 usft	<b>Longitude:</b> -104.062589
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b> 0.93 °

<b>Well</b>	SCHNEIDER 1414-09H			
<b>Well Position</b>	<b>+N/-S</b>	-0.59 usft	<b>Northing:</b>	1,489,828.56 usft
	<b>+E/-W</b>	60.00 usft	<b>Easting:</b>	3,398,787.29 usft
<b>Position Uncertainty</b>		3.28 usft	<b>Wellhead Elevation:</b>	<b>Ground Level:</b> 4,943.00 usft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2015	6/12/2018	7.75	67.15	52,489.04988521

<b>Design</b>	Design #2			
<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	181.10

<b>Plan Survey Tool Program</b>	<b>Date</b>	6/13/2018		
<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 #2 (Wellbore #1)	ISCWSA REV 2 MWD Fixed:v2:standard declination
2	1,700.00	11,707.73	Design #2 (Wellbore #1)	ISCWSA REV 2 MWD Fixed:v2:standard declination

<b>Plan Sections</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	<b>TFO (°)</b>	<b>Target</b>
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,568.50	26.37	76.45	1,522.44	69.84	289.80	2.00	2.00	0.00	76.45	
6,036.30	26.37	76.45	5,525.34	534.79	2,219.01	0.00	0.00	0.00	0.00	
7,000.81	90.00	181.10	6,100.00	-39.74	2,483.62	10.00	6.60	10.85	103.18	
11,707.73	90.00	181.10	6,100.00	-4,745.78	2,392.99	0.00	0.00	0.00	0.00	SCHNEIDER 1414-09

# Hewlett-Packard

## Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well SCHNEIDER 1414-09H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 20' @ 4963.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 20' @ 4963.00usft (RIG)
<b>Site:</b>	8N-60W-14 SCHNEIDER 1414 PAD	<b>North Reference:</b>	True
<b>Well:</b>	SCHNEIDER 1414-09H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #2		

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
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00
Begin Tangent @ 250.00ft									
300.00	1.00	76.45	300.00	0.10	0.42	-0.11	2.00	2.00	0.00
400.00	3.00	76.45	399.93	0.92	3.82	-0.99	2.00	2.00	0.00
500.00	5.00	76.45	499.68	2.55	10.60	-2.76	2.00	2.00	0.00
600.00	7.00	76.45	599.13	5.00	20.76	-5.40	2.00	2.00	0.00
700.00	9.00	76.45	698.15	8.26	34.29	-8.92	2.00	2.00	0.00
800.00	11.00	76.45	796.63	12.33	51.17	-13.31	2.00	2.00	0.00
900.00	13.00	76.45	894.44	17.20	71.38	-18.57	2.00	2.00	0.00
1,000.00	15.00	76.45	991.46	22.87	94.90	-24.69	2.00	2.00	0.00
1,100.00	17.00	76.45	1,087.58	29.33	121.69	-31.66	2.00	2.00	0.00
1,200.00	19.00	76.45	1,182.68	36.57	151.73	-39.47	2.00	2.00	0.00
1,300.00	21.00	76.45	1,276.65	44.58	184.98	-48.12	2.00	2.00	0.00
1,400.00	23.00	76.45	1,369.36	53.36	221.40	-57.60	2.00	2.00	0.00
1,500.00	25.00	76.45	1,460.71	62.89	260.94	-67.88	2.00	2.00	0.00
1,568.50	26.37	76.45	1,522.44	69.84	289.80	-75.39	2.00	2.00	0.00
End Tangent @ 1568.50ft									
1,600.00	26.37	76.45	1,550.66	73.12	303.40	-78.93	0.00	0.00	0.00
1,700.00	26.37	76.45	1,640.26	83.53	346.58	-90.17	0.00	0.00	0.00
1,766.68	26.37	76.45	1,700.00	90.47	375.37	-97.66	0.00	0.00	0.00
9 5/8"									
1,800.00	26.37	76.45	1,729.85	93.93	389.76	-101.40	0.00	0.00	0.00
1,900.00	26.37	76.45	1,819.45	104.34	432.94	-112.63	0.00	0.00	0.00
2,000.00	26.37	76.45	1,909.04	114.75	476.12	-123.87	0.00	0.00	0.00
2,100.00	26.37	76.45	1,998.64	125.15	519.30	-135.10	0.00	0.00	0.00
2,200.00	26.37	76.45	2,088.23	135.56	562.48	-146.33	0.00	0.00	0.00
2,300.00	26.37	76.45	2,177.83	145.97	605.66	-157.57	0.00	0.00	0.00
2,400.00	26.37	76.45	2,267.42	156.37	648.84	-168.80	0.00	0.00	0.00
2,500.00	26.37	76.45	2,357.01	166.78	692.02	-180.03	0.00	0.00	0.00
2,600.00	26.37	76.45	2,446.61	177.19	735.20	-191.27	0.00	0.00	0.00
2,700.00	26.37	76.45	2,536.20	187.59	778.39	-202.50	0.00	0.00	0.00
2,800.00	26.37	76.45	2,625.80	198.00	821.57	-213.73	0.00	0.00	0.00
2,900.00	26.37	76.45	2,715.39	208.41	864.75	-224.97	0.00	0.00	0.00
3,000.00	26.37	76.45	2,804.99	218.81	907.93	-236.20	0.00	0.00	0.00
3,100.00	26.37	76.45	2,894.58	229.22	951.11	-247.44	0.00	0.00	0.00
3,200.00	26.37	76.45	2,984.18	239.63	994.29	-258.67	0.00	0.00	0.00
3,300.00	26.37	76.45	3,073.77	250.03	1,037.47	-269.90	0.00	0.00	0.00
3,400.00	26.37	76.45	3,163.36	260.44	1,080.65	-281.14	0.00	0.00	0.00
3,500.00	26.37	76.45	3,252.96	270.84	1,123.83	-292.37	0.00	0.00	0.00
3,600.00	26.37	76.45	3,342.55	281.25	1,167.01	-303.60	0.00	0.00	0.00
3,700.00	26.37	76.45	3,432.15	291.66	1,210.19	-314.84	0.00	0.00	0.00
3,800.00	26.37	76.45	3,521.74	302.06	1,253.37	-326.07	0.00	0.00	0.00
3,900.00	26.37	76.45	3,611.34	312.47	1,296.55	-337.30	0.00	0.00	0.00
4,000.00	26.37	76.45	3,700.93	322.88	1,339.73	-348.54	0.00	0.00	0.00
4,100.00	26.37	76.45	3,790.53	333.28	1,382.91	-359.77	0.00	0.00	0.00
4,200.00	26.37	76.45	3,880.12	343.69	1,426.09	-371.00	0.00	0.00	0.00
4,300.00	26.37	76.45	3,969.71	354.10	1,469.27	-382.24	0.00	0.00	0.00
4,400.00	26.37	76.45	4,059.31	364.50	1,512.45	-393.47	0.00	0.00	0.00
4,500.00	26.37	76.45	4,148.90	374.91	1,555.63	-404.71	0.00	0.00	0.00
4,600.00	26.37	76.45	4,238.50	385.32	1,598.81	-415.94	0.00	0.00	0.00

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## Planning Report

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<b>Well:</b>	SCHNEIDER 1414-09H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #2		

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	26.37	76.45	4,328.09	395.72	1,641.99	-427.17	0.00	0.00	0.00
4,800.00	26.37	76.45	4,417.69	406.13	1,685.17	-438.41	0.00	0.00	0.00
4,900.00	26.37	76.45	4,507.28	416.54	1,728.35	-449.64	0.00	0.00	0.00
5,000.00	26.37	76.45	4,596.88	426.94	1,771.53	-460.87	0.00	0.00	0.00
5,100.00	26.37	76.45	4,686.47	437.35	1,814.71	-472.11	0.00	0.00	0.00
5,200.00	26.37	76.45	4,776.06	447.76	1,857.89	-483.34	0.00	0.00	0.00
5,300.00	26.37	76.45	4,865.66	458.16	1,901.07	-494.57	0.00	0.00	0.00
5,400.00	26.37	76.45	4,955.25	468.57	1,944.25	-505.81	0.00	0.00	0.00
5,500.00	26.37	76.45	5,044.85	478.98	1,987.43	-517.04	0.00	0.00	0.00
5,600.00	26.37	76.45	5,134.44	489.38	2,030.61	-528.27	0.00	0.00	0.00
5,700.00	26.37	76.45	5,224.04	499.79	2,073.79	-539.51	0.00	0.00	0.00
5,800.00	26.37	76.45	5,313.63	510.20	2,116.97	-550.74	0.00	0.00	0.00
5,900.00	26.37	76.45	5,403.23	520.60	2,160.16	-561.98	0.00	0.00	0.00
6,000.00	26.37	76.45	5,492.82	531.01	2,203.34	-573.21	0.00	0.00	0.00
6,036.30	26.37	76.45	5,525.34	534.79	2,219.01	-577.29	0.00	0.00	0.00
KOP @ 6036.30ft :: DLS = 10°/100'									
6,100.00	25.62	90.92	5,582.66	537.88	2,246.56	-580.91	10.00	-1.17	22.71
6,200.00	27.35	113.12	5,672.37	528.49	2,289.42	-572.35	10.00	1.73	22.20
6,300.00	32.04	131.06	5,759.39	501.98	2,330.65	-546.63	10.00	4.68	17.94
6,400.00	38.60	144.18	5,841.06	459.16	2,369.01	-504.55	10.00	6.57	13.11
6,500.00	46.25	153.77	5,914.90	401.32	2,403.32	-447.38	10.00	7.65	9.59
6,600.00	54.51	161.11	5,978.66	330.22	2,432.54	-376.86	10.00	8.26	7.34
6,700.00	63.13	167.04	6,030.42	248.03	2,455.78	-295.13	10.00	8.62	5.93
6,800.00	71.97	172.12	6,068.59	157.24	2,472.34	-204.67	10.00	8.83	5.08
6,900.00	80.92	176.71	6,092.02	60.60	2,481.72	-108.24	10.00	8.95	4.59
7,000.00	89.93	181.07	6,100.00	-38.93	2,483.63	-8.76	10.00	9.01	4.36
7,000.81	90.00	181.10	6,100.00	-39.74	2,483.62	-7.94	10.00	9.02	4.32
End Build @ 7000.81ft									
7,100.00	90.00	181.10	6,100.00	-138.91	2,481.71	91.24	0.00	0.00	0.00
7,200.00	90.00	181.10	6,100.00	-238.89	2,479.78	191.24	0.00	0.00	0.00
7,300.00	90.00	181.10	6,100.00	-338.88	2,477.86	291.24	0.00	0.00	0.00
7,400.00	90.00	181.10	6,100.00	-438.86	2,475.93	391.24	0.00	0.00	0.00
7,500.00	90.00	181.10	6,100.00	-538.84	2,474.01	491.24	0.00	0.00	0.00
7,600.00	90.00	181.10	6,100.00	-638.82	2,472.08	591.24	0.00	0.00	0.00
7,700.00	90.00	181.10	6,100.00	-738.80	2,470.16	691.24	0.00	0.00	0.00
7,800.00	90.00	181.10	6,100.00	-838.78	2,468.23	791.24	0.00	0.00	0.00
7,900.00	90.00	181.10	6,100.00	-938.76	2,466.31	891.24	0.00	0.00	0.00
8,000.00	90.00	181.10	6,100.00	-1,038.75	2,464.38	991.24	0.00	0.00	0.00
8,100.00	90.00	181.10	6,100.00	-1,138.73	2,462.46	1,091.24	0.00	0.00	0.00
8,200.00	90.00	181.10	6,100.00	-1,238.71	2,460.53	1,191.24	0.00	0.00	0.00
8,300.00	90.00	181.10	6,100.00	-1,338.69	2,458.60	1,291.25	0.00	0.00	0.00
8,400.00	90.00	181.10	6,100.00	-1,438.67	2,456.68	1,391.25	0.00	0.00	0.00
8,500.00	90.00	181.10	6,100.00	-1,538.65	2,454.75	1,491.25	0.00	0.00	0.00
8,600.00	90.00	181.10	6,100.00	-1,638.64	2,452.83	1,591.25	0.00	0.00	0.00
8,700.00	90.00	181.10	6,100.00	-1,738.62	2,450.90	1,691.25	0.00	0.00	0.00
8,800.00	90.00	181.10	6,100.00	-1,838.60	2,448.98	1,791.25	0.00	0.00	0.00
8,900.00	90.00	181.10	6,100.00	-1,938.58	2,447.05	1,891.25	0.00	0.00	0.00
9,000.00	90.00	181.10	6,100.00	-2,038.56	2,445.13	1,991.25	0.00	0.00	0.00
9,100.00	90.00	181.10	6,100.00	-2,138.54	2,443.20	2,091.25	0.00	0.00	0.00
9,200.00	90.00	181.10	6,100.00	-2,238.52	2,441.28	2,191.25	0.00	0.00	0.00
9,300.00	90.00	181.10	6,100.00	-2,338.51	2,439.35	2,291.25	0.00	0.00	0.00
9,400.00	90.00	181.10	6,100.00	-2,438.49	2,437.43	2,391.25	0.00	0.00	0.00
9,500.00	90.00	181.10	6,100.00	-2,538.47	2,435.50	2,491.25	0.00	0.00	0.00
9,600.00	90.00	181.10	6,100.00	-2,638.45	2,433.58	2,591.25	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 SCHNEIDER 1414-09H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 20' @ 4963.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 20' @ 4963.00usft (RIG)
<b>Site:</b>	8N-60W-14 SCHNEIDER 1414 PAD	<b>North Reference:</b>	True
<b>Well:</b>	SCHNEIDER 1414-09H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #2		

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)	
9,700.00	90.00	181.10	6,100.00	-2,738.43	2,431.65	2,691.25	0.00	0.00	0.00	
9,800.00	90.00	181.10	6,100.00	-2,838.41	2,429.72	2,791.25	0.00	0.00	0.00	
9,900.00	90.00	181.10	6,100.00	-2,938.39	2,427.80	2,891.25	0.00	0.00	0.00	
10,000.00	90.00	181.10	6,100.00	-3,038.38	2,425.87	2,991.25	0.00	0.00	0.00	
10,100.00	90.00	181.10	6,100.00	-3,138.36	2,423.95	3,091.25	0.00	0.00	0.00	
10,200.00	90.00	181.10	6,100.00	-3,238.34	2,422.02	3,191.25	0.00	0.00	0.00	
10,300.00	90.00	181.10	6,100.00	-3,338.32	2,420.10	3,291.25	0.00	0.00	0.00	
10,400.00	90.00	181.10	6,100.00	-3,438.30	2,418.17	3,391.25	0.00	0.00	0.00	
10,500.00	90.00	181.10	6,100.00	-3,538.28	2,416.25	3,491.25	0.00	0.00	0.00	
10,600.00	90.00	181.10	6,100.00	-3,638.26	2,414.32	3,591.25	0.00	0.00	0.00	
10,700.00	90.00	181.10	6,100.00	-3,738.25	2,412.40	3,691.25	0.00	0.00	0.00	
10,800.00	90.00	181.10	6,100.00	-3,838.23	2,410.47	3,791.25	0.00	0.00	0.00	
10,900.00	90.00	181.10	6,100.00	-3,938.21	2,408.55	3,891.25	0.00	0.00	0.00	
11,000.00	90.00	181.10	6,100.00	-4,038.19	2,406.62	3,991.25	0.00	0.00	0.00	
11,100.00	90.00	181.10	6,100.00	-4,138.17	2,404.70	4,091.25	0.00	0.00	0.00	
11,200.00	90.00	181.10	6,100.00	-4,238.15	2,402.77	4,191.25	0.00	0.00	0.00	
11,300.00	90.00	181.10	6,100.00	-4,338.13	2,400.84	4,291.25	0.00	0.00	0.00	
11,400.00	90.00	181.10	6,100.00	-4,438.12	2,398.92	4,391.25	0.00	0.00	0.00	
11,500.00	90.00	181.10	6,100.00	-4,538.10	2,396.99	4,491.25	0.00	0.00	0.00	
11,600.00	90.00	181.10	6,100.00	-4,638.08	2,395.07	4,591.25	0.00	0.00	0.00	
11,700.00	90.00	181.10	6,100.00	-4,738.06	2,393.14	4,691.25	0.00	0.00	0.00	
11,707.73	90.00	181.10	6,100.00	-4,745.78	2,392.99	4,698.97	0.00	0.00	0.00	
TD Well @ 11707.73ft										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
1,766.68	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)		
250.00	250.00	0.00	0.00	Begin Tangent @ 250.00ft	
1,568.50	1,522.44	69.84	289.80	End Tangent @ 1568.50ft	
6,036.30	5,525.34	534.79	2,219.01	KOP @ 6036.30ft :: DLS = 10°/100'	
7,000.81	6,100.00	-39.74	2,483.62	End Build @ 7000.81ft	
11,707.73	6,100.00	-4,745.78	2,392.99	TD Well @ 11707.73ft	