

# **VERDAD RESOURCES**

**WATTENBERG FIELD**

**8N-60W-14 SCHNEIDER 1414 PAD**

**SCHNEIDER 1414-02H**

**Plan C**

**Plan: Design #2**

## **Standard Planning Report**

**30 March, 2021**

Project: WATTENBERG FIELD  
Site: 8N-60W-14 SCHNEIDER 1414 PAD  
Well: SCHNEIDER 1414-02H  
Wellbore: Plan C  
Design: Design #2

# VERDAD RESOURCES

## CASING DETAILS

TVD	MD	Name	Size
1700.00	1748.31	9 5/8"	9-5/8

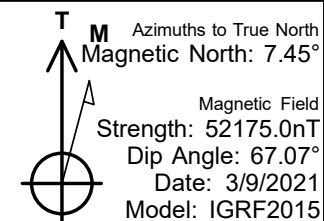
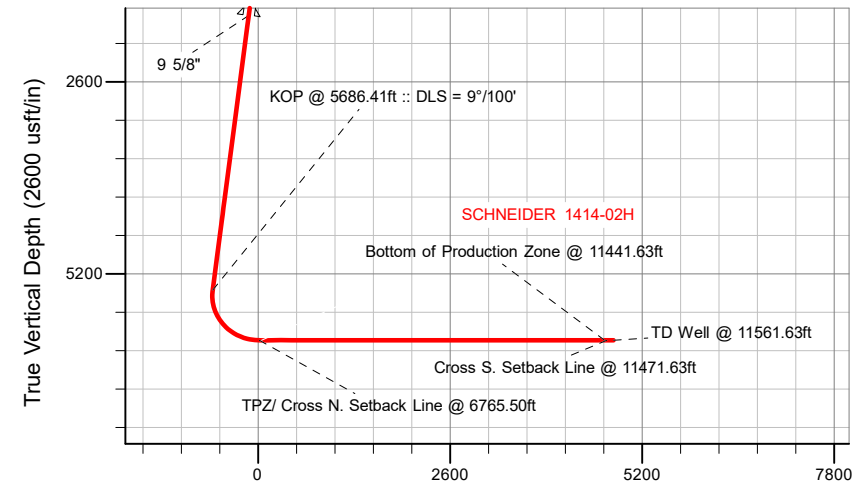
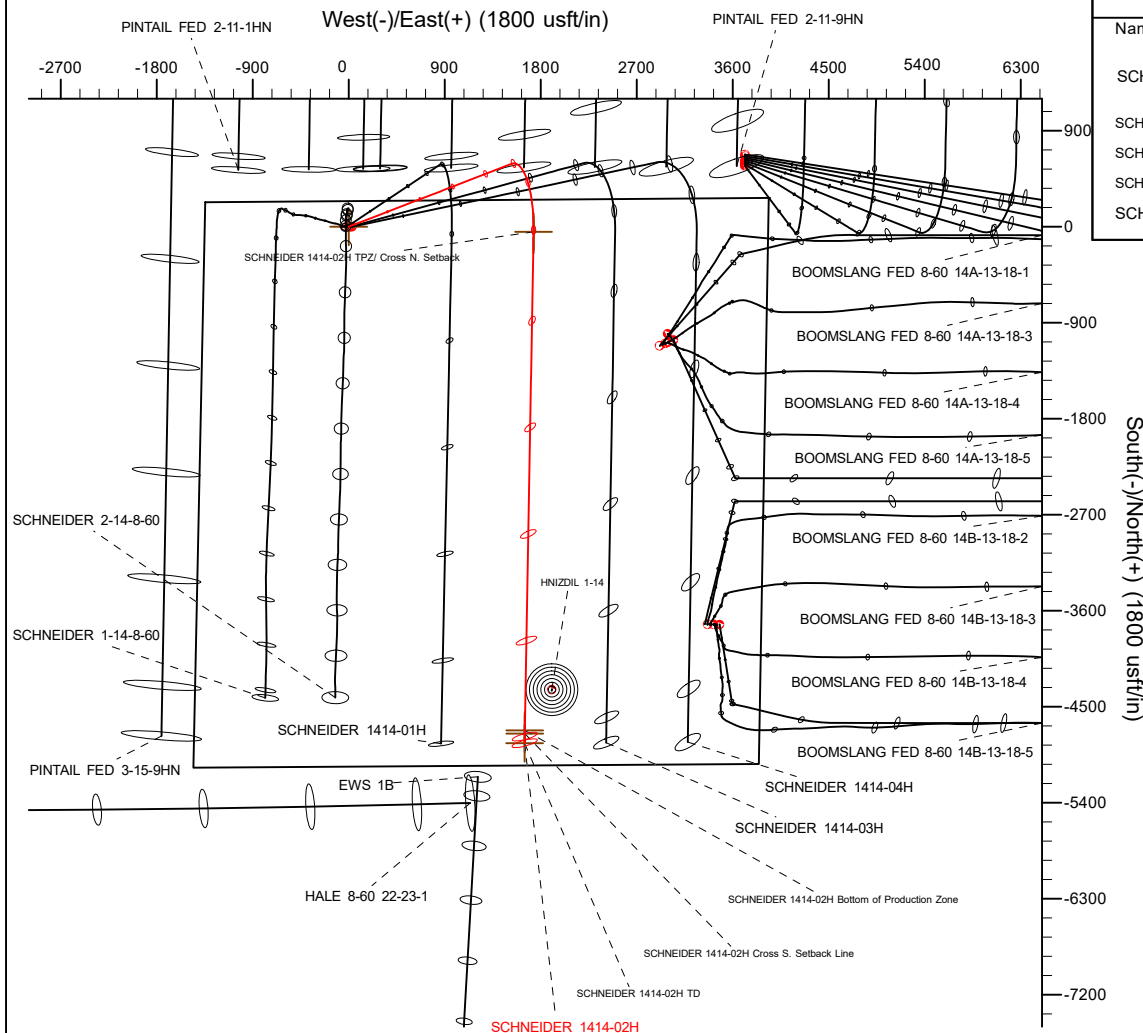
SHL Top of Production Zone/Cross N. Setback BPZ Cross S. Setback TD  
241' FNL 300' FNL 330' FSL 300' FSL 210' FSL  
1349' FWL 2199' FEL 2199' FEL 2199' FEL 2199' FEL

## SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
241.00	0.00	0.00	241.00	0.00	0.00	0.00	0.00	0.00	
1201.00	19.20	68.87	1183.13	57.44	148.64	2.00	68.87	-60.05	
5686.41	19.20	68.87	5419.05	589.20	1524.56	0.00	0.00	-615.98	
6765.50	90.00	181.01	6100.00	-46.27	1733.10	9.00	111.01	15.72	
11471.63	90.00	181.01	6100.00	-4751.67	1650.54	0.00	0.00	4721.84	SCHNEIDER 1414-02H Cross S. Setback Line
11561.63	90.00	181.01	6100.00	-4841.66	1648.97	0.00	0.00	4811.84	

## WELLBORE TARGET DETAILS (LAT/LONG)

Name	MD	TVD	+N/-S	+E/-W	Latitude	Longitude
SCHNEIDER 1414-02H SHL	0.00	0.00	0.00	0.00	40.669102	-104.062495
SCHNEIDER 1414-02H TPZ/ Cross N. Setback	6765.50	6100.00	-46.27	1733.09	40.668975	-104.056248
SCHNEIDER 1414-02H Bottom of Production Zone	11441.63	6100.00	-4721.68	1651.07	40.656142	-104.056544
SCHNEIDER 1414-02H Cross S. Setback Line	11471.63	6100.00	-4751.67	1650.54	40.656059	-104.056546
SCHNEIDER 1414-02H TD	11561.63	6100.00	-4841.66	1648.97	40.655812	-104.056552



## WELL DETAILS: SCHNEIDER 1414-02H

GL = 4943'

RKB = 20' @ 4963.00usft (RIG)

Plan: Design #2 (SCHNEIDER 1414-02H/Plan C)

Date: 3/30/2021

# HP

## Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well SCHNEIDER 1414-02H
<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 1414-02H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan C		
<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>Well</b>	SCHNEIDER 1414-02H			
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	1,489,828.85 usft
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	3,398,753.30 usft
<b>Position Uncertainty</b>		3.28 usft	<b>Wellhead Elevation:</b>	usft
<b>Grid Convergence:</b>		0.93 °	<b>Ground Level:</b>	4,943.00 usft

<b>Wellbore</b>	Plan C				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2015	3/9/2021	7.45	67.07	52,174.98671529

<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	181.01

<b>Plan Survey Tool Program</b>	<b>Date</b>	3/30/2021		
<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 (Plan C)	ISCWSA MWD
				Fixed:v2:standard declination
2	1,700.00	11,561.63	Design #2 (Plan C)	ISCWSA MWD
				Fixed:v2:standard declination

# HP

## Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well SCHNEIDER 1414-02H
<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 1414-02H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan C		
<b>Design:</b>	Design #2		

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	
241.00	0.00	0.00	241.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,201.00	19.20	68.87	1,183.13	57.44	148.64	2.00	2.00	0.00	68.87	
5,686.41	19.20	68.87	5,419.05	589.20	1,524.56	0.00	0.00	0.00	0.00	
6,765.50	90.00	181.01	6,100.00	-46.27	1,733.10	9.00	6.56	10.39	111.01	
11,471.63	90.00	181.01	6,100.00	-4,751.67	1,650.54	0.00	0.00	0.00	0.00	SCHNEIDER 1414-02
11,561.63	90.00	181.01	6,100.00	-4,841.66	1,648.97	0.00	0.00	0.00	0.00	

# HP

## Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well SCHNEIDER 1414-02H
<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 1414-02H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan C		
<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
241.00	0.00	0.00	241.00	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 241.00ft									
300.00	1.18	68.87	300.00	0.22	0.57	-0.23	2.00	2.00	0.00
400.00	3.18	68.87	399.92	1.59	4.11	-1.66	2.00	2.00	0.00
500.00	5.18	68.87	499.65	4.22	10.91	-4.41	2.00	2.00	0.00
600.00	7.18	68.87	599.06	8.10	20.95	-8.47	2.00	2.00	0.00
700.00	9.18	68.87	698.04	13.23	34.23	-13.83	2.00	2.00	0.00
800.00	11.18	68.87	796.46	19.60	50.71	-20.49	2.00	2.00	0.00
900.00	13.18	68.87	894.20	27.20	70.39	-28.44	2.00	2.00	0.00
1,000.00	15.18	68.87	991.15	36.03	93.24	-37.67	2.00	2.00	0.00
1,100.00	17.18	68.87	1,087.19	46.08	119.23	-48.17	2.00	2.00	0.00
1,200.00	19.18	68.87	1,182.19	57.32	148.33	-59.93	2.00	2.00	0.00
1,201.00	19.20	68.87	1,183.13	57.44	148.64	-60.05	2.00	2.00	0.00
Hold Tangent @ 1201.00ft									
1,300.00	19.20	68.87	1,276.63	69.18	179.00	-72.32	0.00	0.00	0.00
1,400.00	19.20	68.87	1,371.06	81.04	209.68	-84.72	0.00	0.00	0.00
1,500.00	19.20	68.87	1,465.50	92.89	240.36	-97.11	0.00	0.00	0.00
1,600.00	19.20	68.87	1,559.94	104.75	271.03	-109.51	0.00	0.00	0.00
1,700.00	19.20	68.87	1,654.38	116.60	301.71	-121.90	0.00	0.00	0.00
1,748.31	19.20	68.87	1,700.00	122.33	316.53	-127.89	0.00	0.00	0.00
9 5/8"									
1,800.00	19.20	68.87	1,748.82	128.46	332.38	-134.29	0.00	0.00	0.00
1,900.00	19.20	68.87	1,843.25	140.31	363.06	-146.69	0.00	0.00	0.00
2,000.00	19.20	68.87	1,937.69	152.17	393.73	-159.08	0.00	0.00	0.00
2,100.00	19.20	68.87	2,032.13	164.02	424.41	-171.48	0.00	0.00	0.00
2,200.00	19.20	68.87	2,126.57	175.88	455.08	-183.87	0.00	0.00	0.00
2,300.00	19.20	68.87	2,221.00	187.73	485.76	-196.26	0.00	0.00	0.00
2,400.00	19.20	68.87	2,315.44	199.59	516.44	-208.66	0.00	0.00	0.00
2,500.00	19.20	68.87	2,409.88	211.44	547.11	-221.05	0.00	0.00	0.00
2,600.00	19.20	68.87	2,504.32	223.30	577.79	-233.45	0.00	0.00	0.00
2,700.00	19.20	68.87	2,598.75	235.15	608.46	-245.84	0.00	0.00	0.00
2,800.00	19.20	68.87	2,693.19	247.01	639.14	-258.23	0.00	0.00	0.00
2,900.00	19.20	68.87	2,787.63	258.86	669.81	-270.63	0.00	0.00	0.00
3,000.00	19.20	68.87	2,882.07	270.72	700.49	-283.02	0.00	0.00	0.00
3,100.00	19.20	68.87	2,976.50	282.57	731.16	-295.42	0.00	0.00	0.00
3,200.00	19.20	68.87	3,070.94	294.43	761.84	-307.81	0.00	0.00	0.00
3,300.00	19.20	68.87	3,165.38	306.28	792.52	-320.21	0.00	0.00	0.00
3,400.00	19.20	68.87	3,259.82	318.14	823.19	-332.60	0.00	0.00	0.00
3,500.00	19.20	68.87	3,354.25	329.99	853.87	-344.99	0.00	0.00	0.00
3,600.00	19.20	68.87	3,448.69	341.85	884.54	-357.39	0.00	0.00	0.00
3,700.00	19.20	68.87	3,543.13	353.70	915.22	-369.78	0.00	0.00	0.00
3,800.00	19.20	68.87	3,637.57	365.56	945.89	-382.18	0.00	0.00	0.00
3,900.00	19.20	68.87	3,732.01	377.41	976.57	-394.57	0.00	0.00	0.00
4,000.00	19.20	68.87	3,826.44	389.27	1,007.24	-406.96	0.00	0.00	0.00
4,100.00	19.20	68.87	3,920.88	401.12	1,037.92	-419.36	0.00	0.00	0.00
4,200.00	19.20	68.87	4,015.32	412.98	1,068.60	-431.75	0.00	0.00	0.00
4,300.00	19.20	68.87	4,109.76	424.83	1,099.27	-444.15	0.00	0.00	0.00
4,400.00	19.20	68.87	4,204.19	436.69	1,129.95	-456.54	0.00	0.00	0.00
4,500.00	19.20	68.87	4,298.63	448.54	1,160.62	-468.93	0.00	0.00	0.00
4,600.00	19.20	68.87	4,393.07	460.40	1,191.30	-481.33	0.00	0.00	0.00

# HP

## Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well SCHNEIDER 1414-02H
<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 1414-02H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan C		
<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	19.20	68.87	4,487.51	472.26	1,221.97	-493.72	0.00	0.00	0.00
4,800.00	19.20	68.87	4,581.94	484.11	1,252.65	-506.12	0.00	0.00	0.00
4,900.00	19.20	68.87	4,676.38	495.97	1,283.32	-518.51	0.00	0.00	0.00
5,000.00	19.20	68.87	4,770.82	507.82	1,314.00	-530.90	0.00	0.00	0.00
5,100.00	19.20	68.87	4,865.26	519.68	1,344.67	-543.30	0.00	0.00	0.00
5,200.00	19.20	68.87	4,959.69	531.53	1,375.35	-555.69	0.00	0.00	0.00
5,300.00	19.20	68.87	5,054.13	543.39	1,406.03	-568.09	0.00	0.00	0.00
5,400.00	19.20	68.87	5,148.57	555.24	1,436.70	-580.48	0.00	0.00	0.00
5,500.00	19.20	68.87	5,243.01	567.10	1,467.38	-592.87	0.00	0.00	0.00
5,600.00	19.20	68.87	5,337.45	578.95	1,498.05	-605.27	0.00	0.00	0.00
5,686.41	19.20	68.87	5,419.05	589.20	1,524.56	-615.98	0.00	0.00	0.00
<b>KOP @ 5686.41ft :: DLS = 9°/100'</b>									
5,700.00	18.79	72.42	5,431.90	590.66	1,528.73	-617.52	9.00	-2.98	26.09
5,800.00	18.14	101.03	5,526.94	592.56	1,559.43	-619.95	9.00	-0.66	28.61
5,900.00	21.48	125.94	5,621.18	578.80	1,589.59	-606.73	9.00	3.34	24.92
6,000.00	27.39	142.51	5,712.29	549.75	1,618.47	-578.19	9.00	5.91	16.56
6,100.00	34.58	153.10	5,798.03	506.09	1,645.37	-535.02	9.00	7.19	10.60
6,200.00	42.39	160.31	5,876.28	448.93	1,669.61	-478.29	9.00	7.81	7.21
6,300.00	50.54	165.61	5,945.12	379.65	1,690.61	-409.39	9.00	8.15	5.29
6,400.00	58.88	169.77	6,002.86	299.97	1,707.84	-330.03	9.00	8.34	4.17
6,500.00	67.33	173.26	6,048.07	211.85	1,720.88	-242.15	9.00	8.45	3.49
6,600.00	75.84	176.34	6,079.65	117.46	1,729.40	-147.92	9.00	8.51	3.08
6,700.00	84.39	179.19	6,096.80	19.12	1,733.21	-49.67	9.00	8.55	2.85
6,765.50	90.00	181.01	6,100.00	-46.27	1,733.10	15.72	9.00	8.56	2.77
<b>TPZ/ Cross N. Setback Line @ 6765.50ft</b>									
6,800.00	90.00	181.01	6,100.00	-80.77	1,732.50	50.22	0.00	0.00	0.00
6,900.00	90.00	181.01	6,100.00	-180.75	1,730.74	150.22	0.00	0.00	0.00
7,000.00	90.00	181.01	6,100.00	-280.74	1,728.99	250.22	0.00	0.00	0.00
7,100.00	90.00	181.01	6,100.00	-380.72	1,727.23	350.22	0.00	0.00	0.00
7,200.00	90.00	181.01	6,100.00	-480.71	1,725.48	450.22	0.00	0.00	0.00
7,300.00	90.00	181.01	6,100.00	-580.69	1,723.72	550.22	0.00	0.00	0.00
7,400.00	90.00	181.01	6,100.00	-680.68	1,721.97	650.22	0.00	0.00	0.00
7,500.00	90.00	181.01	6,100.00	-780.66	1,720.22	750.22	0.00	0.00	0.00
7,600.00	90.00	181.01	6,100.00	-880.65	1,718.46	850.22	0.00	0.00	0.00
7,700.00	90.00	181.01	6,100.00	-980.63	1,716.71	950.22	0.00	0.00	0.00
7,800.00	90.00	181.01	6,100.00	-1,080.61	1,714.95	1,050.22	0.00	0.00	0.00
7,900.00	90.00	181.01	6,100.00	-1,180.60	1,713.20	1,150.22	0.00	0.00	0.00
8,000.00	90.00	181.01	6,100.00	-1,280.58	1,711.44	1,250.22	0.00	0.00	0.00
8,100.00	90.00	181.01	6,100.00	-1,380.57	1,709.69	1,350.22	0.00	0.00	0.00
8,200.00	90.00	181.01	6,100.00	-1,480.55	1,707.94	1,450.22	0.00	0.00	0.00
8,300.00	90.00	181.01	6,100.00	-1,580.54	1,706.18	1,550.22	0.00	0.00	0.00
8,400.00	90.00	181.01	6,100.00	-1,680.52	1,704.43	1,650.22	0.00	0.00	0.00
8,500.00	90.00	181.01	6,100.00	-1,780.51	1,702.67	1,750.22	0.00	0.00	0.00
8,600.00	90.00	181.01	6,100.00	-1,880.49	1,700.92	1,850.22	0.00	0.00	0.00
8,700.00	90.00	181.01	6,100.00	-1,980.48	1,699.16	1,950.22	0.00	0.00	0.00
8,800.00	90.00	181.01	6,100.00	-2,080.46	1,697.41	2,050.22	0.00	0.00	0.00
8,900.00	90.00	181.01	6,100.00	-2,180.45	1,695.66	2,150.22	0.00	0.00	0.00
9,000.00	90.00	181.01	6,100.00	-2,280.43	1,693.90	2,250.22	0.00	0.00	0.00
9,100.00	90.00	181.01	6,100.00	-2,380.41	1,692.15	2,350.22	0.00	0.00	0.00
9,200.00	90.00	181.01	6,100.00	-2,480.40	1,690.39	2,450.22	0.00	0.00	0.00
9,300.00	90.00	181.01	6,100.00	-2,580.38	1,688.64	2,550.22	0.00	0.00	0.00
9,400.00	90.00	181.01	6,100.00	-2,680.37	1,686.89	2,650.22	0.00	0.00	0.00
9,500.00	90.00	181.01	6,100.00	-2,780.35	1,685.13	2,750.22	0.00	0.00	0.00
9,600.00	90.00	181.01	6,100.00	-2,880.34	1,683.38	2,850.22	0.00	0.00	0.00

# HP

## Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well SCHNEIDER 1414-02H
<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 1414-02H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan C		
<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	181.01	6,100.00	-2,980.32	1,681.62	2,950.22	0.00	0.00	0.00	
9,800.00	90.00	181.01	6,100.00	-3,080.31	1,679.87	3,050.22	0.00	0.00	0.00	
9,900.00	90.00	181.01	6,100.00	-3,180.29	1,678.11	3,150.22	0.00	0.00	0.00	
10,000.00	90.00	181.01	6,100.00	-3,280.28	1,676.36	3,250.22	0.00	0.00	0.00	
10,100.00	90.00	181.01	6,100.00	-3,380.26	1,674.61	3,350.22	0.00	0.00	0.00	
10,200.00	90.00	181.01	6,100.00	-3,480.25	1,672.85	3,450.22	0.00	0.00	0.00	
10,300.00	90.00	181.01	6,100.00	-3,580.23	1,671.10	3,550.22	0.00	0.00	0.00	
10,400.00	90.00	181.01	6,100.00	-3,680.21	1,669.34	3,650.22	0.00	0.00	0.00	
10,500.00	90.00	181.01	6,100.00	-3,780.20	1,667.59	3,750.22	0.00	0.00	0.00	
10,600.00	90.00	181.01	6,100.00	-3,880.18	1,665.83	3,850.22	0.00	0.00	0.00	
10,700.00	90.00	181.01	6,100.00	-3,980.17	1,664.08	3,950.22	0.00	0.00	0.00	
10,800.00	90.00	181.01	6,100.00	-4,080.15	1,662.33	4,050.22	0.00	0.00	0.00	
10,900.00	90.00	181.01	6,100.00	-4,180.14	1,660.57	4,150.22	0.00	0.00	0.00	
11,000.00	90.00	181.01	6,100.00	-4,280.12	1,658.82	4,250.22	0.00	0.00	0.00	
11,100.00	90.00	181.01	6,100.00	-4,380.11	1,657.06	4,350.22	0.00	0.00	0.00	
11,200.00	90.00	181.01	6,100.00	-4,480.09	1,655.31	4,450.22	0.00	0.00	0.00	
11,300.00	90.00	181.01	6,100.00	-4,580.08	1,653.56	4,550.22	0.00	0.00	0.00	
11,400.00	90.00	181.01	6,100.00	-4,680.06	1,651.80	4,650.22	0.00	0.00	0.00	
11,441.63	90.00	181.01	6,100.00	-4,721.68	1,651.07	4,691.85	0.00	0.00	0.00	
Bottom of Production Zone @ 11441.63ft										
11,471.63	90.00	181.01	6,100.00	-4,751.68	1,650.54	4,721.85	0.00	0.00	0.00	
Cross S. Setback Line @ 11471.63ft										
11,500.00	90.00	181.01	6,100.00	-4,780.05	1,650.05	4,750.22	0.00	0.00	0.00	
11,561.63	90.00	181.01	6,100.00	-4,841.66	1,648.97	4,811.84	0.00	0.00	0.00	
TD Well @ 11561.63ft										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
1,748.31	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)		
241.00	241.00	0.00	0.00	Begin Nudge @ 241.00ft	
1,201.00	1,183.13	57.44	148.64	Hold Tangent @ 1201.00ft	
5,686.41	5,419.05	589.20	1,524.56	KOP @ 5686.41ft :: DLS = 9°/100'	
6,765.50	6,100.00	-46.27	1,733.10	TPZ/ Cross N. Setback Line @ 6765.50ft	
11,441.63	6,100.00	-4,721.68	1,651.07	Bottom of Production Zone @ 11441.63ft	
11,471.63	6,100.00	-4,751.68	1,650.54	Cross S. Setback Line @ 11471.63ft	
11,561.63	6,100.00	-4,841.66	1,648.97	TD Well @ 11561.63ft	