

# **VERDAD RESOURCES**

**WATTENBERG FIELD**

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

**SCHNEIDER 1414-03H**

**Plan C**

**Plan: Design #2**

## **Standard Planning Report**

**30 March, 2021**

Project: WATTENBERG FIELD  
Site: 8N-60W-14 SCHNEIDER 1414 PAD  
Well: SCHNEIDER 1414-03H  
Wellbore: Plan C  
Design: Design #2

# VERDAD RESOURCES

## CASING DETAILS

TVD	MD	Name	Size
1700.00	1770.28	9 5/8"	9-5/8

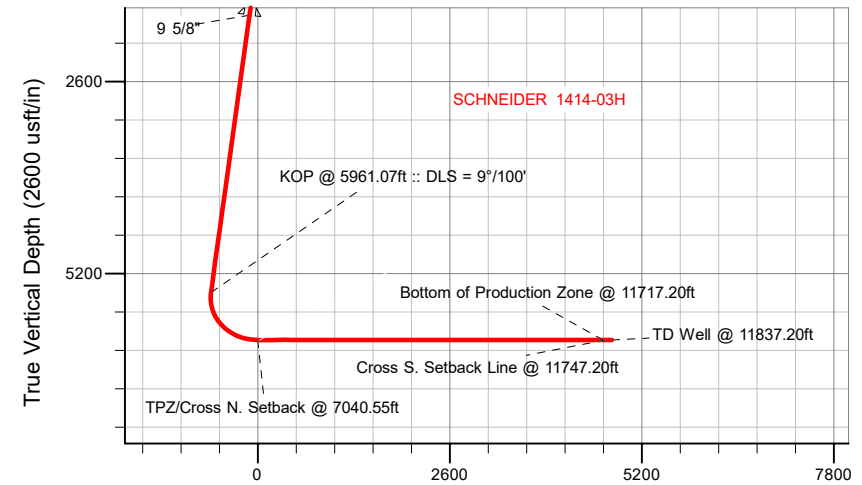
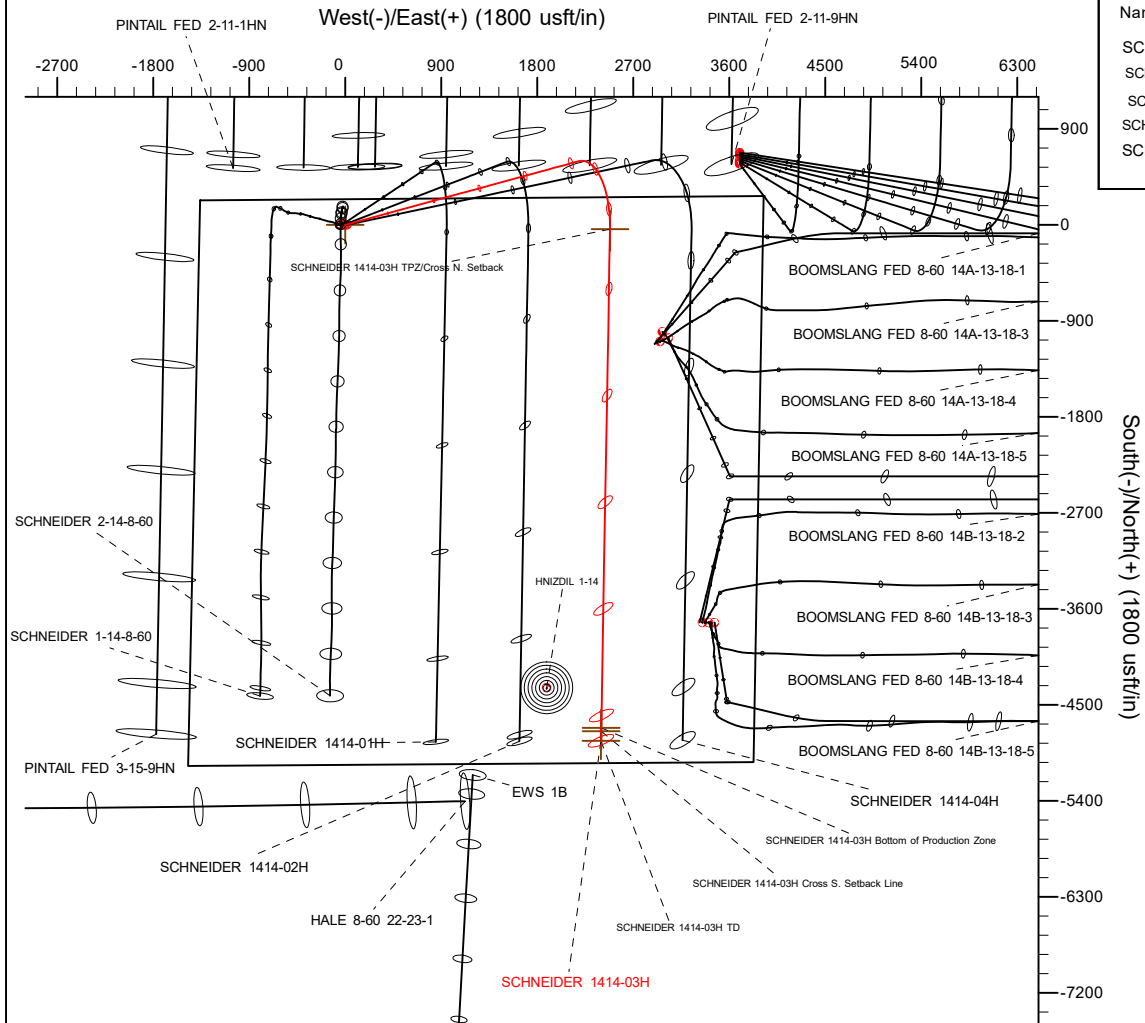
SHL 241' FNL 1365' FWL  
Top of Production Zone/Cross N. Setback 300' FNL 1435' FEL  
BPZ 330' FSL 1435' FEL  
Cross S. Setback 300' FSL 1435' FEL  
TD 210' FSL 1435' FEL

## SECTION DETAILS

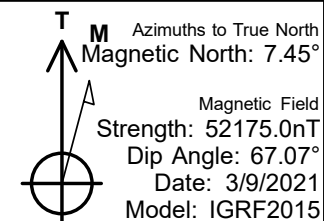
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
219.50	0.00	0.00	219.50	0.00	0.00	0.00	0.00	0.00	
1539.50	26.40	74.74	1493.29	78.63	288.23	2.00	74.74	-83.65	
5961.07	26.40	74.74	5453.74	596.08	2184.90	0.00	0.00	-634.12	
7040.55	90.00	181.00	6100.00	-40.88	2481.75	9.00	104.64	-2.44	
11747.20	90.00	181.00	6100.00	-4746.80	2399.29	0.00	0.00	4704.21	SCHNEIDER 1414-03H Cross S. Setback Line
11837.20	90.00	181.00	6100.00	-4836.79	2397.72	0.00	0.00	4794.21	

## WELLBORE TARGET DETAILS (LAT/LONG)

Name	MD	TVD	+N/-S	+E/-W	Latitude	Longitude
SCHNEIDER 1414-03H SHL	0.00	0.00	0.00	0.00	40.669102	-104.062437
SCHNEIDER 1414-03H TPZ/Cross N. Setback	7040.55	6100.00	-40.74	2481.75	40.668990	-104.053491
SCHNEIDER 1414-03H Bottom of Production Zone	11717.20	6100.00	-4716.81	2399.82	40.656155	-104.053788
SCHNEIDER 1414-03H Cross S. Setback Line	11747.20	6100.00	-4746.80	2399.29	40.656073	-104.053790
SCHNEIDER 1414-03H TD	11837.20	6100.00	-4836.79	2397.72	40.655826	-104.053796



Vertical Section at 181.00° (2600 usft/in)



## WELL DETAILS: SCHNEIDER 1414-03H

GL = 4943'
RKB = 20' @ 4963.00usft (RIG)
Plan: Design #2 (SCHNEIDER 1414-03H/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 1414-03H
<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 1414-03H	<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		

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

Well		SCHNEIDER 1414-03H				
Well Position	+N/-S	0.00 usft	Northing:	1,489,829.22 usft	Latitude:	40.669102
	+E/-W	0.00 usft	Easting:	3,398,769.30 usft	Longitude:	-104.062438
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft	Ground Level:	4,943.00 usft
Grid Convergence:		0.93 °				

<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	52,174.99252663

<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	181.00	

<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	11,837.20	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 1414-03H
<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 1414-03H	<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	
219.50	0.00	0.00	219.50	0.00	0.00	0.00	0.00	0.00	0.00	
1,539.50	26.40	74.74	1,493.29	78.63	288.23	2.00	2.00	0.00	74.74	
5,961.07	26.40	74.74	5,453.74	596.08	2,184.90	0.00	0.00	0.00	0.00	
7,040.55	90.00	181.00	6,100.00	-40.88	2,481.75	9.00	5.89	9.84	104.64	
11,747.20	90.00	181.00	6,100.00	-4,746.80	2,399.29	0.00	0.00	0.00	0.00	SCHNEIDER 1414-03
11,837.20	90.00	181.00	6,100.00	-4,836.79	2,397.72	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 1414-03H
<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 1414-03H	<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
219.50	0.00	0.00	219.50	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 219.50ft									
300.00	1.61	74.74	299.99	0.30	1.09	-0.32	2.00	2.00	0.00
400.00	3.61	74.74	399.88	1.50	5.48	-1.59	2.00	2.00	0.00
500.00	5.61	74.74	499.55	3.61	13.24	-3.84	2.00	2.00	0.00
600.00	7.61	74.74	598.88	6.64	24.34	-7.06	2.00	2.00	0.00
700.00	9.61	74.74	697.75	10.58	38.78	-11.26	2.00	2.00	0.00
800.00	11.61	74.74	796.04	15.43	56.55	-16.41	2.00	2.00	0.00
900.00	13.61	74.74	893.62	21.17	77.61	-22.52	2.00	2.00	0.00
1,000.00	15.61	74.74	990.38	27.81	101.94	-29.59	2.00	2.00	0.00
1,100.00	17.61	74.74	1,086.20	35.33	129.52	-37.59	2.00	2.00	0.00
1,200.00	19.61	74.74	1,180.97	43.73	160.30	-46.52	2.00	2.00	0.00
1,300.00	21.61	74.74	1,274.56	53.00	194.26	-56.38	2.00	2.00	0.00
1,400.00	23.61	74.74	1,366.87	63.12	231.35	-67.14	2.00	2.00	0.00
1,500.00	25.61	74.74	1,457.79	74.08	271.52	-78.80	2.00	2.00	0.00
1,539.50	26.40	74.74	1,493.29	78.63	288.23	-83.65	2.00	2.00	0.00
Hold Tangent @ 1539.50ft									
1,600.00	26.40	74.74	1,547.48	85.71	314.18	-91.18	0.00	0.00	0.00
1,700.00	26.40	74.74	1,637.05	97.42	357.08	-103.63	0.00	0.00	0.00
1,770.28	26.40	74.74	1,700.00	105.64	387.23	-112.38	0.00	0.00	0.00
9 5/8"									
1,800.00	26.40	74.74	1,726.62	109.12	399.97	-116.08	0.00	0.00	0.00
1,900.00	26.40	74.74	1,816.19	120.82	442.87	-128.53	0.00	0.00	0.00
2,000.00	26.40	74.74	1,905.76	132.53	485.76	-140.98	0.00	0.00	0.00
2,100.00	26.40	74.74	1,995.33	144.23	528.66	-153.43	0.00	0.00	0.00
2,200.00	26.40	74.74	2,084.90	155.93	571.56	-165.88	0.00	0.00	0.00
2,300.00	26.40	74.74	2,174.47	167.63	614.45	-178.33	0.00	0.00	0.00
2,400.00	26.40	74.74	2,264.05	179.34	657.35	-190.78	0.00	0.00	0.00
2,500.00	26.40	74.74	2,353.62	191.04	700.24	-203.23	0.00	0.00	0.00
2,600.00	26.40	74.74	2,443.19	202.74	743.14	-215.68	0.00	0.00	0.00
2,700.00	26.40	74.74	2,532.76	214.45	786.04	-228.13	0.00	0.00	0.00
2,800.00	26.40	74.74	2,622.33	226.15	828.93	-240.58	0.00	0.00	0.00
2,900.00	26.40	74.74	2,711.90	237.85	871.83	-253.03	0.00	0.00	0.00
3,000.00	26.40	74.74	2,801.47	249.55	914.72	-265.48	0.00	0.00	0.00
3,100.00	26.40	74.74	2,891.04	261.26	957.62	-277.93	0.00	0.00	0.00
3,200.00	26.40	74.74	2,980.62	272.96	1,000.51	-290.38	0.00	0.00	0.00
3,300.00	26.40	74.74	3,070.19	284.66	1,043.41	-302.83	0.00	0.00	0.00
3,400.00	26.40	74.74	3,159.76	296.36	1,086.31	-315.28	0.00	0.00	0.00
3,500.00	26.40	74.74	3,249.33	308.07	1,129.20	-327.73	0.00	0.00	0.00
3,600.00	26.40	74.74	3,338.90	319.77	1,172.10	-340.18	0.00	0.00	0.00
3,700.00	26.40	74.74	3,428.47	331.47	1,214.99	-352.63	0.00	0.00	0.00
3,800.00	26.40	74.74	3,518.04	343.18	1,257.89	-365.08	0.00	0.00	0.00
3,900.00	26.40	74.74	3,607.61	354.88	1,300.79	-377.53	0.00	0.00	0.00
4,000.00	26.40	74.74	3,697.18	366.58	1,343.68	-389.98	0.00	0.00	0.00
4,100.00	26.40	74.74	3,786.76	378.28	1,386.58	-402.43	0.00	0.00	0.00
4,200.00	26.40	74.74	3,876.33	389.99	1,429.47	-414.88	0.00	0.00	0.00
4,300.00	26.40	74.74	3,965.90	401.69	1,472.37	-427.32	0.00	0.00	0.00
4,400.00	26.40	74.74	4,055.47	413.39	1,515.26	-439.77	0.00	0.00	0.00
4,500.00	26.40	74.74	4,145.04	425.10	1,558.16	-452.22	0.00	0.00	0.00
4,600.00	26.40	74.74	4,234.61	436.80	1,601.06	-464.67	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 1414-03H
<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 1414-03H	<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	26.40	74.74	4,324.18	448.50	1,643.95	-477.12	0.00	0.00	0.00
4,800.00	26.40	74.74	4,413.75	460.20	1,686.85	-489.57	0.00	0.00	0.00
4,900.00	26.40	74.74	4,503.33	471.91	1,729.74	-502.02	0.00	0.00	0.00
5,000.00	26.40	74.74	4,592.90	483.61	1,772.64	-514.47	0.00	0.00	0.00
5,100.00	26.40	74.74	4,682.47	495.31	1,815.53	-526.92	0.00	0.00	0.00
5,200.00	26.40	74.74	4,772.04	507.01	1,858.43	-539.37	0.00	0.00	0.00
5,300.00	26.40	74.74	4,861.61	518.72	1,901.33	-551.82	0.00	0.00	0.00
5,400.00	26.40	74.74	4,951.18	530.42	1,944.22	-564.27	0.00	0.00	0.00
5,500.00	26.40	74.74	5,040.75	542.12	1,987.12	-576.72	0.00	0.00	0.00
5,600.00	26.40	74.74	5,130.32	553.83	2,030.01	-589.17	0.00	0.00	0.00
5,700.00	26.40	74.74	5,219.89	565.53	2,072.91	-601.62	0.00	0.00	0.00
5,800.00	26.40	74.74	5,309.47	577.23	2,115.81	-614.07	0.00	0.00	0.00
5,900.00	26.40	74.74	5,399.04	588.93	2,158.70	-626.52	0.00	0.00	0.00
5,961.07	26.40	74.74	5,453.74	596.08	2,184.90	-634.12	0.00	0.00	0.00
<b>KOP @ 5961.07ft :: DLS = 9°/100'</b>									
6,000.00	25.72	82.57	5,488.72	599.45	2,201.63	-637.79	9.00	-1.74	20.11
6,100.00	26.00	103.29	5,578.89	597.22	2,244.57	-636.30	9.00	0.28	20.72
6,200.00	29.01	121.74	5,667.74	579.39	2,286.60	-619.21	9.00	3.01	18.46
6,300.00	34.02	136.10	5,753.09	546.40	2,326.70	-586.93	9.00	5.02	14.36
6,400.00	40.30	146.82	5,832.82	499.08	2,363.87	-540.26	9.00	6.28	10.72
6,500.00	47.34	154.95	5,904.99	438.57	2,397.21	-480.34	9.00	7.03	8.13
6,600.00	54.83	161.38	5,967.80	366.38	2,425.88	-408.66	9.00	7.49	6.43
6,700.00	62.60	166.70	6,019.72	284.28	2,449.19	-326.98	9.00	7.77	5.32
6,800.00	70.55	171.31	6,059.46	194.29	2,466.55	-237.31	9.00	7.95	4.61
6,900.00	78.60	175.49	6,086.05	98.63	2,477.55	-141.85	9.00	8.05	4.18
7,000.00	86.71	179.43	6,098.84	-0.35	2,481.91	-42.96	9.00	8.11	3.94
7,040.55	90.00	181.00	6,100.00	-40.88	2,481.75	-2.44	9.00	8.12	3.88
<b>TPZ/Cross N. Setback @ 7040.55ft</b>									
7,100.00	90.00	181.00	6,100.00	-100.32	2,480.71	57.01	0.00	0.00	0.00
7,200.00	90.00	181.00	6,100.00	-200.31	2,478.96	157.01	0.00	0.00	0.00
7,300.00	90.00	181.00	6,100.00	-300.29	2,477.21	257.01	0.00	0.00	0.00
7,400.00	90.00	181.00	6,100.00	-400.28	2,475.46	357.01	0.00	0.00	0.00
7,500.00	90.00	181.00	6,100.00	-500.26	2,473.70	457.01	0.00	0.00	0.00
7,600.00	90.00	181.00	6,100.00	-600.24	2,471.95	557.01	0.00	0.00	0.00
7,700.00	90.00	181.00	6,100.00	-700.23	2,470.20	657.01	0.00	0.00	0.00
7,800.00	90.00	181.00	6,100.00	-800.21	2,468.45	757.01	0.00	0.00	0.00
7,900.00	90.00	181.00	6,100.00	-900.20	2,466.70	857.01	0.00	0.00	0.00
8,000.00	90.00	181.00	6,100.00	-1,000.18	2,464.94	957.01	0.00	0.00	0.00
8,100.00	90.00	181.00	6,100.00	-1,100.17	2,463.19	1,057.01	0.00	0.00	0.00
8,200.00	90.00	181.00	6,100.00	-1,200.15	2,461.44	1,157.01	0.00	0.00	0.00
8,300.00	90.00	181.00	6,100.00	-1,300.14	2,459.69	1,257.01	0.00	0.00	0.00
8,400.00	90.00	181.00	6,100.00	-1,400.12	2,457.94	1,357.01	0.00	0.00	0.00
8,500.00	90.00	181.00	6,100.00	-1,500.11	2,456.18	1,457.01	0.00	0.00	0.00
8,600.00	90.00	181.00	6,100.00	-1,600.09	2,454.43	1,557.01	0.00	0.00	0.00
8,700.00	90.00	181.00	6,100.00	-1,700.08	2,452.68	1,657.01	0.00	0.00	0.00
8,800.00	90.00	181.00	6,100.00	-1,800.06	2,450.93	1,757.01	0.00	0.00	0.00
8,900.00	90.00	181.00	6,100.00	-1,900.05	2,449.18	1,857.01	0.00	0.00	0.00
9,000.00	90.00	181.00	6,100.00	-2,000.03	2,447.42	1,957.01	0.00	0.00	0.00
9,100.00	90.00	181.00	6,100.00	-2,100.01	2,445.67	2,057.01	0.00	0.00	0.00
9,200.00	90.00	181.00	6,100.00	-2,200.00	2,443.92	2,157.01	0.00	0.00	0.00
9,300.00	90.00	181.00	6,100.00	-2,299.98	2,442.17	2,257.01	0.00	0.00	0.00
9,400.00	90.00	181.00	6,100.00	-2,399.97	2,440.42	2,357.01	0.00	0.00	0.00
9,500.00	90.00	181.00	6,100.00	-2,499.95	2,438.66	2,457.01	0.00	0.00	0.00
9,600.00	90.00	181.00	6,100.00	-2,599.94	2,436.91	2,557.01	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 1414-03H
<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 1414-03H	<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	181.00	6,100.00	-2,699.92	2,435.16	2,657.01	0.00	0.00	0.00	
9,800.00	90.00	181.00	6,100.00	-2,799.91	2,433.41	2,757.01	0.00	0.00	0.00	
9,900.00	90.00	181.00	6,100.00	-2,899.89	2,431.66	2,857.01	0.00	0.00	0.00	
10,000.00	90.00	181.00	6,100.00	-2,999.88	2,429.90	2,957.01	0.00	0.00	0.00	
10,100.00	90.00	181.00	6,100.00	-3,099.86	2,428.15	3,057.01	0.00	0.00	0.00	
10,200.00	90.00	181.00	6,100.00	-3,199.85	2,426.40	3,157.01	0.00	0.00	0.00	
10,300.00	90.00	181.00	6,100.00	-3,299.83	2,424.65	3,257.01	0.00	0.00	0.00	
10,400.00	90.00	181.00	6,100.00	-3,399.82	2,422.90	3,357.01	0.00	0.00	0.00	
10,500.00	90.00	181.00	6,100.00	-3,499.80	2,421.14	3,457.01	0.00	0.00	0.00	
10,600.00	90.00	181.00	6,100.00	-3,599.78	2,419.39	3,557.01	0.00	0.00	0.00	
10,700.00	90.00	181.00	6,100.00	-3,699.77	2,417.64	3,657.01	0.00	0.00	0.00	
10,800.00	90.00	181.00	6,100.00	-3,799.75	2,415.89	3,757.01	0.00	0.00	0.00	
10,900.00	90.00	181.00	6,100.00	-3,899.74	2,414.14	3,857.01	0.00	0.00	0.00	
11,000.00	90.00	181.00	6,100.00	-3,999.72	2,412.38	3,957.01	0.00	0.00	0.00	
11,100.00	90.00	181.00	6,100.00	-4,099.71	2,410.63	4,057.01	0.00	0.00	0.00	
11,200.00	90.00	181.00	6,100.00	-4,199.69	2,408.88	4,157.01	0.00	0.00	0.00	
11,300.00	90.00	181.00	6,100.00	-4,299.68	2,407.13	4,257.01	0.00	0.00	0.00	
11,400.00	90.00	181.00	6,100.00	-4,399.66	2,405.38	4,357.01	0.00	0.00	0.00	
11,500.00	90.00	181.00	6,100.00	-4,499.65	2,403.62	4,457.01	0.00	0.00	0.00	
11,600.00	90.00	181.00	6,100.00	-4,599.63	2,401.87	4,557.01	0.00	0.00	0.00	
11,700.00	90.00	181.00	6,100.00	-4,699.62	2,400.12	4,657.01	0.00	0.00	0.00	
11,717.20	90.00	181.00	6,100.00	-4,716.81	2,399.82	4,674.21	0.00	0.00	0.00	
<b>Bottom of Production Zone @ 11717.20ft</b>										
11,747.20	90.00	181.00	6,100.00	-4,746.81	2,399.29	4,704.21	0.00	0.00	0.00	
<b>Cross S. Setback Line @ 11747.20ft</b>										
11,800.00	90.00	181.00	6,100.00	-4,799.60	2,398.37	4,757.01	0.00	0.00	0.00	
11,837.20	90.00	181.00	6,100.00	-4,836.79	2,397.72	4,794.21	0.00	0.00	0.00	
<b>TD Well @ 11837.20ft</b>										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
1,770.28	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)		
219.50	219.50	0.00	0.00	Begin Nudge @ 219.50ft	
1,539.50	1,493.29	78.63	288.23	Hold Tangent @ 1539.50ft	
5,961.07	5,453.74	596.08	2,184.90	KOP @ 5961.07ft :: DLS = 9°/100'	
7,040.55	6,100.00	-40.88	2,481.75	TPZ/Cross N. Setback @ 7040.55ft	
11,717.20	6,100.00	-4,716.81	2,399.82	Bottom of Production Zone @ 11717.20ft	
11,747.20	6,100.00	-4,746.81	2,399.29	Cross S. Setback Line @ 11747.20ft	
11,837.20	6,100.00	-4,836.79	2,397.72	TD Well @ 11837.20ft	