

# **VERDAD RESOURCES**

**WATTENBERG FIELD**

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

**SCHNEIDER 1414-05H**

**Plan A**

**Plan: Permit Rev-1**

## **Standard Planning Report**

**22 July, 2021**

Project: WATTENBERG FIELD  
Site: 8N-60W-14 SCHNEIDER 1414 PAD  
Well: SCHNEIDER 1414-05H  
Wellbore: Plan A  
Design: Permit Rev-1

# VERDAD RESOURCES

## CASING DETAILS

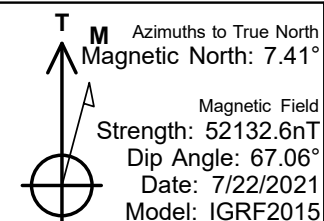
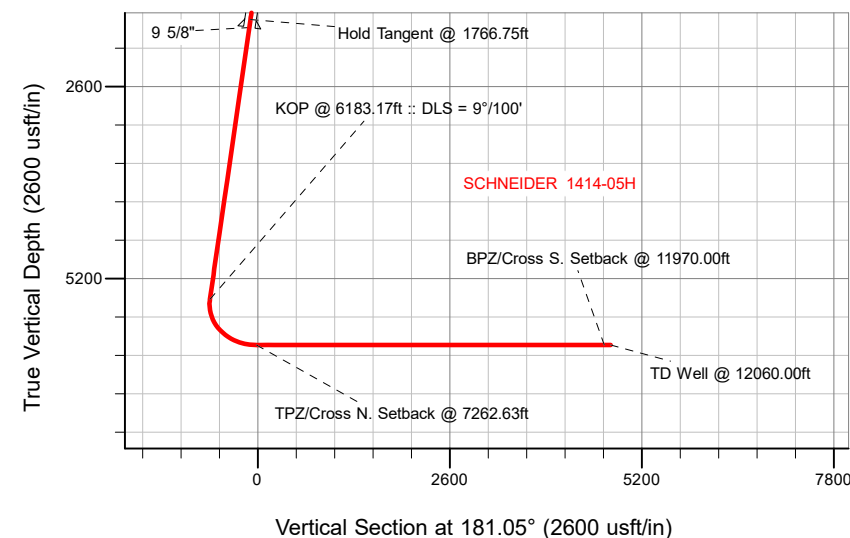
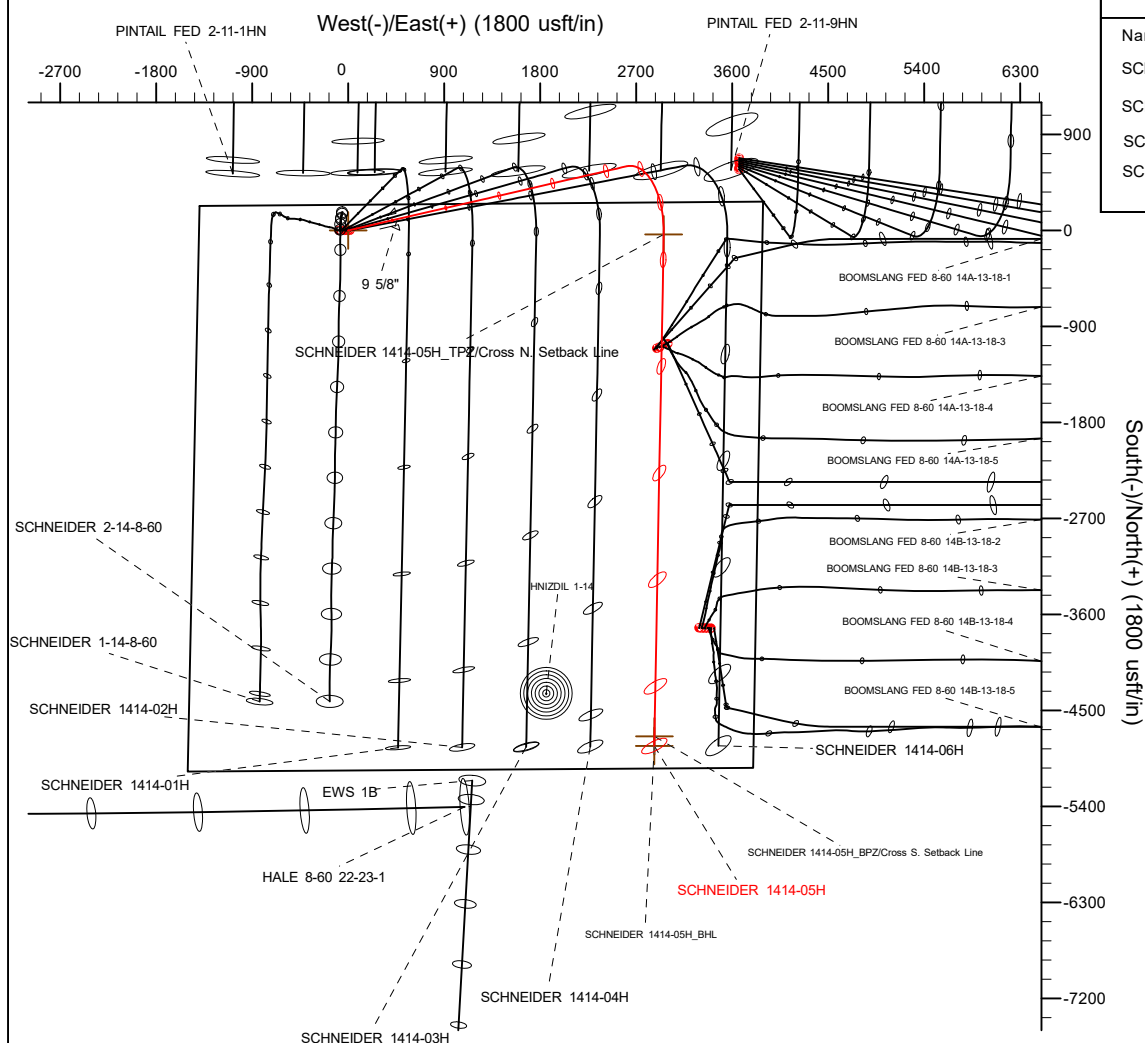
TVD	MD	Name	Size
1800.00	1891.81	9 5/8"	9-5/8

## 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	
220.25	0.00	0.00	220.25	0.00	0.00	0.00	0.00	0.00	
1766.75	30.93	77.03	1692.72	91.43	396.99	2.00	77.03	-98.69	
6183.17	30.93	77.03	5481.11	600.91	2609.08	0.00	0.00	-648.62	
7262.63	90.00	181.05	6100.00	-37.22	2957.28	9.00	102.09	-16.98	
2060.00	90.00	181.05	6100.00	-4833.79	2869.68	0.00	0.00	4780.40	SCHNEIDER 1414-05H_BHL

## WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
SCHNEIDER 1414-05H_SHL	0.00	0.00	0.00	40.669103	-104.062322
SCHNEIDER 1414-05H_TPZ/Cross N. Setback Line	6100.00	-37.27	2957.33	40.669000	-104.051661
SCHNEIDER 1414-05H_BPZ/Cross S. Setback Line	6100.00	-4743.81	2871.33	40.656082	-104.051973
SCHNEIDER 1414-05H_BHL	6100.00	-4833.79	2869.68	40.655835	-104.051979



## WELL DETAILS: SCHNEIDER 1414-05H

GL = 4943'

RKB = 20' @ 4963.00usft (RIG)

Plan: Permit Rev-1 (SCHNEIDER 1414-05H/Plan A)

Date: 7/22/2021

## Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well SCHNEIDER 1414-05H
<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 1414-05H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-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>	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 1414-05H			
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	1,489,830.00 usft
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	3,398,801.28 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 A				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2015	7/22/2021	7.41	67.06	52,132.63101080

<b>Design</b>	Permit Rev-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	181.05	

<b>Plan Survey Tool Program</b>		<b>Date</b>	7/22/2021		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>	
1	0.00	1,800.00	Permit Rev-1 (Plan A)	ISCWSA MWD	Fixed:v2:standard declination
2	1,800.00	12,060.00	Permit Rev-1 (Plan A)	ISCWSA MWD	Fixed:v2:standard declination

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well SCHNEIDER 1414-05H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 20' @ 4963.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 20' @ 4963.00usft (RIG)
Site:	8N-60W-14 SCHNEIDER 1414 PAD	North Reference:	True
Well:	SCHNEIDER 1414-05H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Permit Rev-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	
220.25	0.00	0.00	220.25	0.00	0.00	0.00	0.00	0.00	0.00	
1,766.75	30.93	77.03	1,692.72	91.43	396.99	2.00	2.00	0.00	77.03	
6,183.17	30.93	77.03	5,481.11	600.91	2,609.08	0.00	0.00	0.00	0.00	
7,262.63	90.00	181.05	6,100.00	-37.22	2,957.28	9.00	5.47	9.64	102.09	
12,060.00	90.00	181.05	6,100.00	-4,833.79	2,869.68	0.00	0.00	0.00	0.00	SCHNEIDER 1414-05H

# Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well SCHNEIDER 1414-05H
<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 1414-05H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-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
220.25	0.00	0.00	220.25	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 220.25ft									
300.00	1.59	77.03	299.99	0.25	1.08	-0.27	2.00	2.00	0.00
400.00	3.59	77.03	399.88	1.27	5.49	-1.37	2.00	2.00	0.00
500.00	5.59	77.03	499.56	3.06	13.30	-3.31	2.00	2.00	0.00
600.00	7.59	77.03	598.89	5.64	24.49	-6.09	2.00	2.00	0.00
700.00	9.59	77.03	697.76	8.99	39.05	-9.71	2.00	2.00	0.00
800.00	11.59	77.03	796.05	13.12	56.97	-14.16	2.00	2.00	0.00
900.00	13.59	77.03	893.64	18.02	78.22	-19.45	2.00	2.00	0.00
1,000.00	15.59	77.03	990.41	23.67	102.77	-25.55	2.00	2.00	0.00
1,100.00	17.59	77.03	1,086.24	30.08	130.60	-32.47	2.00	2.00	0.00
1,200.00	19.59	77.03	1,181.01	37.24	161.68	-40.19	2.00	2.00	0.00
1,300.00	21.59	77.03	1,274.62	45.13	195.95	-48.71	2.00	2.00	0.00
1,400.00	23.59	77.03	1,366.94	53.75	233.39	-58.02	2.00	2.00	0.00
1,500.00	25.59	77.03	1,457.86	63.10	273.95	-68.10	2.00	2.00	0.00
1,600.00	27.59	77.03	1,547.27	73.14	317.57	-78.95	2.00	2.00	0.00
1,700.00	29.59	77.03	1,635.07	83.88	364.21	-90.54	2.00	2.00	0.00
1,766.75	30.93	77.03	1,692.72	91.43	396.99	-98.69	2.00	2.00	0.00
Hold Tangent @ 1766.75ft									
1,800.00	30.93	77.03	1,721.25	95.27	413.65	-102.83	0.00	0.00	0.00
1,891.81	30.93	77.03	1,800.00	105.86	459.63	-114.27	0.00	0.00	0.00
9 5/8"									
1,900.00	30.93	77.03	1,807.03	106.81	463.73	-115.29	0.00	0.00	0.00
2,000.00	30.93	77.03	1,892.81	118.34	513.82	-127.74	0.00	0.00	0.00
2,100.00	30.93	77.03	1,978.58	129.88	563.91	-140.19	0.00	0.00	0.00
2,200.00	30.93	77.03	2,064.36	141.41	614.00	-152.64	0.00	0.00	0.00
2,300.00	30.93	77.03	2,150.14	152.95	664.08	-165.09	0.00	0.00	0.00
2,400.00	30.93	77.03	2,235.92	164.49	714.17	-177.55	0.00	0.00	0.00
2,500.00	30.93	77.03	2,321.70	176.02	764.26	-190.00	0.00	0.00	0.00
2,600.00	30.93	77.03	2,407.48	187.56	814.35	-202.45	0.00	0.00	0.00
2,700.00	30.93	77.03	2,493.26	199.09	864.44	-214.90	0.00	0.00	0.00
2,800.00	30.93	77.03	2,579.04	210.63	914.52	-227.35	0.00	0.00	0.00
2,900.00	30.93	77.03	2,664.82	222.17	964.61	-239.81	0.00	0.00	0.00
3,000.00	30.93	77.03	2,750.60	233.70	1,014.70	-252.26	0.00	0.00	0.00
3,100.00	30.93	77.03	2,836.38	245.24	1,064.79	-264.71	0.00	0.00	0.00
3,200.00	30.93	77.03	2,922.16	256.77	1,114.87	-277.16	0.00	0.00	0.00
3,300.00	30.93	77.03	3,007.94	268.31	1,164.96	-289.61	0.00	0.00	0.00
3,400.00	30.93	77.03	3,093.72	279.85	1,215.05	-302.06	0.00	0.00	0.00
3,500.00	30.93	77.03	3,179.50	291.38	1,265.14	-314.52	0.00	0.00	0.00
3,600.00	30.93	77.03	3,265.28	302.92	1,315.22	-326.97	0.00	0.00	0.00
3,700.00	30.93	77.03	3,351.06	314.45	1,365.31	-339.42	0.00	0.00	0.00
3,800.00	30.93	77.03	3,436.84	325.99	1,415.40	-351.87	0.00	0.00	0.00
3,900.00	30.93	77.03	3,522.62	337.53	1,465.49	-364.32	0.00	0.00	0.00
4,000.00	30.93	77.03	3,608.40	349.06	1,515.58	-376.78	0.00	0.00	0.00
4,100.00	30.93	77.03	3,694.18	360.60	1,565.66	-389.23	0.00	0.00	0.00
4,200.00	30.93	77.03	3,779.96	372.13	1,615.75	-401.68	0.00	0.00	0.00
4,300.00	30.93	77.03	3,865.74	383.67	1,665.84	-414.13	0.00	0.00	0.00
4,400.00	30.93	77.03	3,951.52	395.21	1,715.93	-426.58	0.00	0.00	0.00
4,500.00	30.93	77.03	4,037.29	406.74	1,766.01	-439.04	0.00	0.00	0.00
4,600.00	30.93	77.03	4,123.07	418.28	1,816.10	-451.49	0.00	0.00	0.00

# Planning Report

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<b>Site:</b>	8N-60W-14 SCHNEIDER 1414 PAD	<b>North Reference:</b>	True
<b>Well:</b>	SCHNEIDER 1414-05H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-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)	
4,700.00	30.93	77.03	4,208.85	429.81	1,866.19	-463.94	0.00	0.00	0.00	
4,800.00	30.93	77.03	4,294.63	441.35	1,916.28	-476.39	0.00	0.00	0.00	
4,900.00	30.93	77.03	4,380.41	452.89	1,966.37	-488.84	0.00	0.00	0.00	
5,000.00	30.93	77.03	4,466.19	464.42	2,016.45	-501.30	0.00	0.00	0.00	
5,100.00	30.93	77.03	4,551.97	475.96	2,066.54	-513.75	0.00	0.00	0.00	
5,200.00	30.93	77.03	4,637.75	487.50	2,116.63	-526.20	0.00	0.00	0.00	
5,300.00	30.93	77.03	4,723.53	499.03	2,166.72	-538.65	0.00	0.00	0.00	
5,400.00	30.93	77.03	4,809.31	510.57	2,216.80	-551.10	0.00	0.00	0.00	
5,500.00	30.93	77.03	4,895.09	522.10	2,266.89	-563.56	0.00	0.00	0.00	
5,600.00	30.93	77.03	4,980.87	533.64	2,316.98	-576.01	0.00	0.00	0.00	
5,700.00	30.93	77.03	5,066.65	545.18	2,367.07	-588.46	0.00	0.00	0.00	
5,800.00	30.93	77.03	5,152.43	556.71	2,417.16	-600.91	0.00	0.00	0.00	
5,900.00	30.93	77.03	5,238.21	568.25	2,467.24	-613.36	0.00	0.00	0.00	
6,000.00	30.93	77.03	5,323.99	579.78	2,517.33	-625.82	0.00	0.00	0.00	
6,100.00	30.93	77.03	5,409.77	591.32	2,567.42	-638.27	0.00	0.00	0.00	
6,183.17	30.93	77.03	5,481.11	600.91	2,609.08	-648.62	0.00	0.00	0.00	
KOP @ 6183.17ft :: DLS = 9°/100'										
6,200.00	30.65	79.94	5,495.57	602.63	2,617.52	-650.50	9.00	-1.69	17.27	
6,250.00	30.19	88.79	5,538.71	605.13	2,642.64	-653.45	9.00	-0.91	17.70	
6,300.00	30.34	97.72	5,581.92	603.70	2,667.74	-652.48	9.00	0.30	17.86	
6,350.00	31.09	106.41	5,624.92	598.35	2,692.65	-647.60	9.00	1.49	17.39	
6,400.00	32.38	114.61	5,667.47	589.13	2,717.22	-638.82	9.00	2.60	16.40	
6,450.00	34.17	122.14	5,709.28	576.07	2,741.30	-626.21	9.00	3.58	15.06	
6,500.00	36.38	128.94	5,750.12	559.27	2,764.73	-609.84	9.00	4.41	13.60	
6,550.00	38.93	135.01	5,789.71	538.83	2,787.38	-589.82	9.00	5.10	12.15	
6,600.00	41.76	140.42	5,827.83	514.88	2,809.11	-566.27	9.00	5.66	10.81	
6,650.00	44.82	145.24	5,864.23	487.55	2,829.77	-539.33	9.00	6.12	9.64	
6,700.00	48.06	149.55	5,898.69	457.03	2,849.25	-509.17	9.00	6.48	8.63	
6,750.00	51.44	153.44	5,931.00	423.50	2,867.43	-475.97	9.00	6.77	7.77	
6,800.00	54.94	156.97	5,960.96	387.16	2,884.18	-439.95	9.00	7.00	7.06	
6,850.00	58.54	160.21	5,988.38	348.24	2,899.42	-401.31	9.00	7.19	6.47	
6,900.00	62.21	163.20	6,013.10	306.98	2,913.04	-360.31	9.00	7.34	5.99	
6,950.00	65.94	166.00	6,034.96	263.63	2,924.95	-317.19	9.00	7.46	5.60	
7,000.00	69.72	168.64	6,053.82	218.47	2,935.10	-272.22	9.00	7.56	5.28	
7,050.00	73.54	171.15	6,069.58	171.77	2,943.41	-225.67	9.00	7.63	5.02	
7,100.00	77.38	173.57	6,082.14	123.81	2,949.83	-177.84	9.00	7.69	4.83	
7,150.00	81.25	175.91	6,091.41	74.89	2,954.33	-129.02	9.00	7.73	4.69	
7,200.00	85.13	178.21	6,097.34	25.33	2,956.87	-79.51	9.00	7.76	4.59	
7,250.00	89.02	180.48	6,099.89	-24.59	2,957.44	-29.61	9.00	7.78	4.54	
7,262.63	90.00	181.05	6,100.00	-37.22	2,957.28	-16.98	9.00	7.78	4.52	
TPZ/Cross N. Setback @ 7262.63ft										
7,300.00	90.00	181.05	6,100.00	-74.58	2,956.59	20.39	0.00	0.00	0.00	
7,400.00	90.00	181.05	6,100.00	-174.57	2,954.77	120.39	0.00	0.00	0.00	
7,500.00	90.00	181.05	6,100.00	-274.55	2,952.94	220.39	0.00	0.00	0.00	
7,600.00	90.00	181.05	6,100.00	-374.53	2,951.12	320.39	0.00	0.00	0.00	
7,700.00	90.00	181.05	6,100.00	-474.52	2,949.29	420.39	0.00	0.00	0.00	
7,800.00	90.00	181.05	6,100.00	-574.50	2,947.46	520.39	0.00	0.00	0.00	
7,900.00	90.00	181.05	6,100.00	-674.48	2,945.64	620.39	0.00	0.00	0.00	
8,000.00	90.00	181.05	6,100.00	-774.47	2,943.81	720.39	0.00	0.00	0.00	
8,100.00	90.00	181.05	6,100.00	-874.45	2,941.99	820.39	0.00	0.00	0.00	
8,200.00	90.00	181.05	6,100.00	-974.43	2,940.16	920.39	0.00	0.00	0.00	
8,300.00	90.00	181.05	6,100.00	-1,074.42	2,938.33	1,020.39	0.00	0.00	0.00	
8,400.00	90.00	181.05	6,100.00	-1,174.40	2,936.51	1,120.39	0.00	0.00	0.00	
8,500.00	90.00	181.05	6,100.00	-1,274.38	2,934.68	1,220.39	0.00	0.00	0.00	

## Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well SCHNEIDER 1414-05H
<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 1414-05H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-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)	
8,600.00	90.00	181.05	6,100.00	-1,374.37	2,932.86	1,320.39	0.00	0.00	0.00	
8,700.00	90.00	181.05	6,100.00	-1,474.35	2,931.03	1,420.39	0.00	0.00	0.00	
8,800.00	90.00	181.05	6,100.00	-1,574.33	2,929.20	1,520.39	0.00	0.00	0.00	
8,900.00	90.00	181.05	6,100.00	-1,674.32	2,927.38	1,620.39	0.00	0.00	0.00	
9,000.00	90.00	181.05	6,100.00	-1,774.30	2,925.55	1,720.39	0.00	0.00	0.00	
9,100.00	90.00	181.05	6,100.00	-1,874.28	2,923.73	1,820.39	0.00	0.00	0.00	
9,200.00	90.00	181.05	6,100.00	-1,974.27	2,921.90	1,920.39	0.00	0.00	0.00	
9,300.00	90.00	181.05	6,100.00	-2,074.25	2,920.07	2,020.39	0.00	0.00	0.00	
9,400.00	90.00	181.05	6,100.00	-2,174.23	2,918.25	2,120.39	0.00	0.00	0.00	
9,500.00	90.00	181.05	6,100.00	-2,274.22	2,916.42	2,220.39	0.00	0.00	0.00	
9,600.00	90.00	181.05	6,100.00	-2,374.20	2,914.60	2,320.39	0.00	0.00	0.00	
9,700.00	90.00	181.05	6,100.00	-2,474.18	2,912.77	2,420.39	0.00	0.00	0.00	
9,800.00	90.00	181.05	6,100.00	-2,574.17	2,910.95	2,520.39	0.00	0.00	0.00	
9,900.00	90.00	181.05	6,100.00	-2,674.15	2,909.12	2,620.39	0.00	0.00	0.00	
10,000.00	90.00	181.05	6,100.00	-2,774.13	2,907.29	2,720.39	0.00	0.00	0.00	
10,100.00	90.00	181.05	6,100.00	-2,874.12	2,905.47	2,820.39	0.00	0.00	0.00	
10,200.00	90.00	181.05	6,100.00	-2,974.10	2,903.64	2,920.39	0.00	0.00	0.00	
10,300.00	90.00	181.05	6,100.00	-3,074.08	2,901.82	3,020.39	0.00	0.00	0.00	
10,400.00	90.00	181.05	6,100.00	-3,174.07	2,899.99	3,120.39	0.00	0.00	0.00	
10,500.00	90.00	181.05	6,100.00	-3,274.05	2,898.16	3,220.39	0.00	0.00	0.00	
10,600.00	90.00	181.05	6,100.00	-3,374.03	2,896.34	3,320.39	0.00	0.00	0.00	
10,700.00	90.00	181.05	6,100.00	-3,474.02	2,894.51	3,420.39	0.00	0.00	0.00	
10,800.00	90.00	181.05	6,100.00	-3,574.00	2,892.69	3,520.39	0.00	0.00	0.00	
10,900.00	90.00	181.05	6,100.00	-3,673.98	2,890.86	3,620.39	0.00	0.00	0.00	
11,000.00	90.00	181.05	6,100.00	-3,773.97	2,889.03	3,720.39	0.00	0.00	0.00	
11,100.00	90.00	181.05	6,100.00	-3,873.95	2,887.21	3,820.39	0.00	0.00	0.00	
11,200.00	90.00	181.05	6,100.00	-3,973.93	2,885.38	3,920.39	0.00	0.00	0.00	
11,300.00	90.00	181.05	6,100.00	-4,073.92	2,883.56	4,020.39	0.00	0.00	0.00	
11,400.00	90.00	181.05	6,100.00	-4,173.90	2,881.73	4,120.39	0.00	0.00	0.00	
11,500.00	90.00	181.05	6,100.00	-4,273.88	2,879.90	4,220.39	0.00	0.00	0.00	
11,600.00	90.00	181.05	6,100.00	-4,373.87	2,878.08	4,320.39	0.00	0.00	0.00	
11,700.00	90.00	181.05	6,100.00	-4,473.85	2,876.25	4,420.39	0.00	0.00	0.00	
11,800.00	90.00	181.05	6,100.00	-4,573.83	2,874.43	4,520.39	0.00	0.00	0.00	
11,900.00	90.00	181.05	6,100.00	-4,673.82	2,872.60	4,620.39	0.00	0.00	0.00	
11,970.00	90.00	181.05	6,100.00	-4,743.81	2,871.32	4,690.39	0.00	0.00	0.00	
BPZ/Cross S. Setback @ 11970.00ft										
12,000.00	90.00	181.05	6,100.00	-4,773.80	2,870.77	4,720.39	0.00	0.00	0.00	
12,060.00	90.00	181.05	6,100.00	-4,833.79	2,869.68	4,780.40	0.00	0.00	0.00	
TD Well @ 12060.00ft										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
1,891.81	1,800.00	9 5/8"		9-5/8	13-1/2

## Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well SCHNEIDER 1414-05H
<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 1414-05H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
220.25	220.25	0.00	0.00	Begin Nudge @ 220.25ft
1,766.75	1,692.72	91.43	396.99	Hold Tangent @ 1766.75ft
6,183.17	5,481.11	600.91	2,609.08	KOP @ 6183.17ft :: DLS = 9"/100'
7,262.63	6,100.00	-37.22	2,957.28	TPZ/Cross N. Setback @ 7262.63ft
11,970.00	6,100.00	-4,743.81	2,871.32	BPZ/Cross S. Setback @ 11970.00ft
12,060.00	6,100.00	-4,833.79	2,869.68	TD Well @ 12060.00ft