

# **VERDAD RESOURCES**

**WATTENBERG FIELD  
9N-58W-26 FISCUS FED 2627 PAD  
FISCUS FED 2627-01H**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

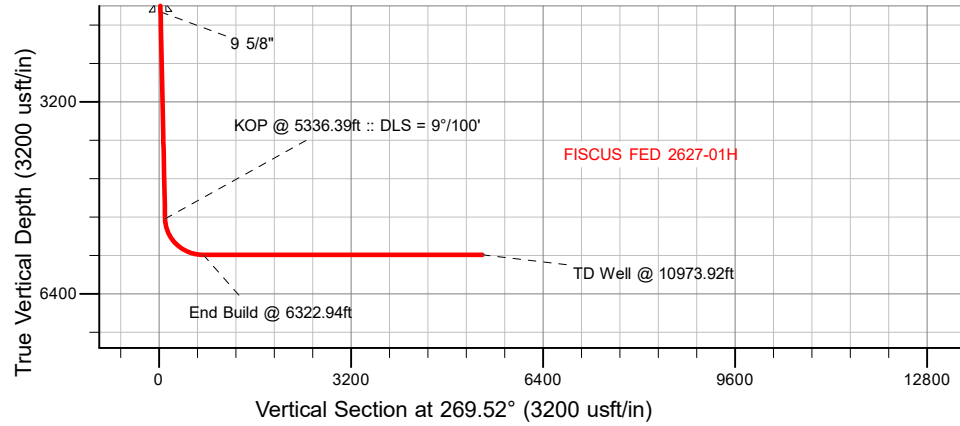
**17 May, 2019**

Project: WATTENBERG FIELD  
Site: 9N-58W-26 FISCUS FED 2627 PAD  
Well: FISCUS FED 2627-01H  
Wellbore: Wellbore #1  
Design: Design #1

# VERDAD RESOURCES

## CASING DETAILS

TVD	MD	Name	Size
1700.00	1740.09	9 5/8"	9-5/8

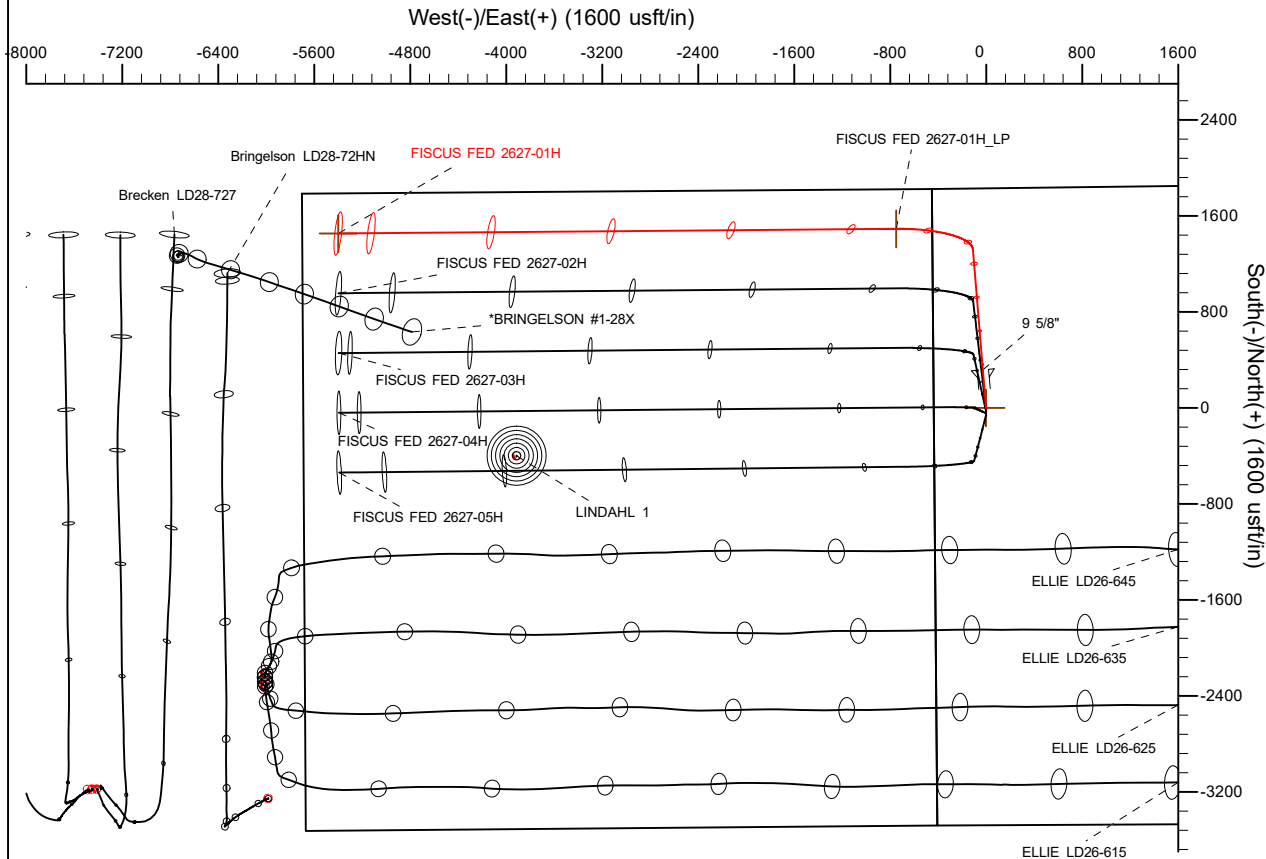


## SECTION DETAILS

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	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
3	1015.00	16.30	355.20	1004.05	114.75	-9.64	2.00	355.20	8.67	
4	5336.39	16.30	355.20	5151.74	1323.36	-111.13	0.00	0.00	100.04	
5	6322.94	90.00	269.52	5750.00	1492.45	-749.05	9.00	-85.85	736.52	
6	10973.92	90.00	269.52	5750.00	1453.32	-5399.86	0.00	0.00	5387.50	FISCUS FED 2627-01H_BHL

## WELLBORE TARGET DETAILS (LAT/LONG)

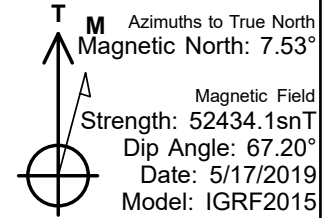
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
FISCUS FED 2627-01H_SHL	0.00	0.00	0.00	40.724553	-103.838864
FISCUS FED 2627-01H_BHL	5750.00	1453.32	-5399.86	40.728541	-103.858347



SHL  
1833' FNL  
439' FWL

LP  
330' FNL  
300' FEL

BHL  
334' FNL  
300' FWL



## WELL DETAILS: FISCUS FED 2627-01H

GL = 4775'

RKB = 24' @ 4799.00usft (RIG)

Plan: Design #1 (FISCUS FED 2627-01H/Wellbore #1)

Date: 5/17/2019

# Hewlett-Packard

## Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well FISCUS FED 2627-01H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 24' @ 4799.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 24' @ 4799.00usft (RIG)
<b>Site:</b>	9N-58W-26 FISCUS FED 2627 PAD	<b>North Reference:</b>	True
<b>Well:</b>	FISCUS FED 2627-01H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #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		

Site		9N-58W-26 FISCUS FED 2627 PAD			
Site Position:		Northing:	1,511,111.48 usft	Latitude:	40.724554
From:	Lat/Long	Easting:	3,460,401.75 usft	Longitude:	-103.838864
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.07 °

Well		FISCUS FED 2627-01H				
Well Position	+N/-S	0.00 usft	Northing:	1,511,111.47 usft	Latitude:	40.724553
	+E/-W	0.00 usft	Easting:	3,460,401.75 usft	Longitude:	-103.838864
Position Uncertainty		3.28 usft	Wellhead Elevation:		Ground Level:	4,775.00 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	5/17/2019	7.53	67.20	52,434.11626687

<b>Design</b>	Design #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	269.52

<b>Plan Survey Tool Program</b>	<b>Date</b>	5/17/2019		
<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 #1 (Wellbore #1)	ISCWSA REV 2 MWD Fixed:v2:standard declination
2	1,700.00	10,973.92	Design #1 (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	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,015.00	16.30	355.20	1,004.05	114.75	-9.64	2.00	2.00	0.00	355.20	
5,336.39	16.30	355.20	5,151.74	1,323.36	-111.13	0.00	0.00	0.00	0.00	
6,322.94	90.00	269.52	5,750.00	1,492.45	-749.05	9.00	7.47	-8.69	-85.85	
10,973.92	90.00	269.52	5,750.00	1,453.32	-5,399.86	0.00	0.00	0.00	0.00	FISCUS FED 2627-0'

# Hewlett-Packard

## Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well FISCUS FED 2627-01H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 24' @ 4799.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 24' @ 4799.00usft (RIG)
<b>Site:</b>	9N-58W-26 FISCUS FED 2627 PAD	<b>North Reference:</b>	True
<b>Well:</b>	FISCUS FED 2627-01H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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
Begin Nudge @ 200.00ft									
300.00	2.00	355.20	299.98	1.74	-0.15	0.13	2.00	2.00	0.00
400.00	4.00	355.20	399.84	6.95	-0.58	0.53	2.00	2.00	0.00
500.00	6.00	355.20	499.45	15.64	-1.31	1.18	2.00	2.00	0.00
600.00	8.00	355.20	598.70	27.78	-2.33	2.10	2.00	2.00	0.00
700.00	10.00	355.20	697.47	43.37	-3.64	3.28	2.00	2.00	0.00
800.00	12.00	355.20	795.62	62.38	-5.24	4.72	2.00	2.00	0.00
900.00	14.00	355.20	893.06	84.80	-7.12	6.41	2.00	2.00	0.00
1,000.00	16.00	355.20	989.64	110.59	-9.29	8.36	2.00	2.00	0.00
1,015.00	16.30	355.20	1,004.05	114.75	-9.64	8.67	2.00	2.00	0.00
Hold Tangent @ 1015.00ft									
1,100.00	16.30	355.20	1,085.63	138.52	-11.63	10.47	0.00	0.00	0.00
1,200.00	16.30	355.20	1,181.61	166.49	-13.98	12.59	0.00	0.00	0.00
1,300.00	16.30	355.20	1,277.60	194.45	-16.33	14.70	0.00	0.00	0.00
1,400.00	16.30	355.20	1,373.58	222.42	-18.68	16.81	0.00	0.00	0.00
1,500.00	16.30	355.20	1,469.56	250.39	-21.03	18.93	0.00	0.00	0.00
1,600.00	16.30	355.20	1,565.54	278.36	-23.37	21.04	0.00	0.00	0.00
1,700.00	16.30	355.20	1,661.52	306.33	-25.72	23.16	0.00	0.00	0.00
1,740.09	16.30	355.20	1,700.00	317.54	-26.66	24.00	0.00	0.00	0.00
9 5/8"									
1,800.00	16.30	355.20	1,757.50	334.30	-28.07	25.27	0.00	0.00	0.00
1,900.00	16.30	355.20	1,853.48	362.26	-30.42	27.38	0.00	0.00	0.00
2,000.00	16.30	355.20	1,949.46	390.23	-32.77	29.50	0.00	0.00	0.00
2,100.00	16.30	355.20	2,045.44	418.20	-35.12	31.61	0.00	0.00	0.00
2,200.00	16.30	355.20	2,141.42	446.17	-37.47	33.73	0.00	0.00	0.00
2,300.00	16.30	355.20	2,237.40	474.14	-39.81	35.84	0.00	0.00	0.00
2,400.00	16.30	355.20	2,333.38	502.11	-42.16	37.96	0.00	0.00	0.00
2,500.00	16.30	355.20	2,429.36	530.07	-44.51	40.07	0.00	0.00	0.00
2,600.00	16.30	355.20	2,525.34	558.04	-46.86	42.18	0.00	0.00	0.00
2,700.00	16.30	355.20	2,621.32	586.01	-49.21	44.30	0.00	0.00	0.00
2,800.00	16.30	355.20	2,717.30	613.98	-51.56	46.41	0.00	0.00	0.00
2,900.00	16.30	355.20	2,813.28	641.95	-53.91	48.53	0.00	0.00	0.00
3,000.00	16.30	355.20	2,909.26	669.92	-56.25	50.64	0.00	0.00	0.00
3,100.00	16.30	355.20	3,005.24	697.88	-58.60	52.75	0.00	0.00	0.00
3,200.00	16.30	355.20	3,101.23	725.85	-60.95	54.87	0.00	0.00	0.00
3,300.00	16.30	355.20	3,197.21	753.82	-63.30	56.98	0.00	0.00	0.00
3,400.00	16.30	355.20	3,293.19	781.79	-65.65	59.10	0.00	0.00	0.00
3,500.00	16.30	355.20	3,389.17	809.76	-68.00	61.21	0.00	0.00	0.00
3,600.00	16.30	355.20	3,485.15	837.72	-70.35	63.33	0.00	0.00	0.00
3,700.00	16.30	355.20	3,581.13	865.69	-72.69	65.44	0.00	0.00	0.00
3,800.00	16.30	355.20	3,677.11	893.66	-75.04	67.55	0.00	0.00	0.00
3,900.00	16.30	355.20	3,773.09	921.63	-77.39	69.67	0.00	0.00	0.00
4,000.00	16.30	355.20	3,869.07	949.60	-79.74	71.78	0.00	0.00	0.00
4,100.00	16.30	355.20	3,965.05	977.57	-82.09	73.90	0.00	0.00	0.00
4,200.00	16.30	355.20	4,061.03	1,005.53	-84.44	76.01	0.00	0.00	0.00
4,300.00	16.30	355.20	4,157.01	1,033.50	-86.79	78.12	0.00	0.00	0.00
4,400.00	16.30	355.20	4,252.99	1,061.47	-89.13	80.24	0.00	0.00	0.00
4,500.00	16.30	355.20	4,348.97	1,089.44	-91.48	82.35	0.00	0.00	0.00
4,600.00	16.30	355.20	4,444.95	1,117.41	-93.83	84.47	0.00	0.00	0.00
4,700.00	16.30	355.20	4,540.93	1,145.38	-96.18	86.58	0.00	0.00	0.00

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## Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well FISCUS FED 2627-01H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 24' @ 4799.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 24' @ 4799.00usft (RIG)
<b>Site:</b>	9N-58W-26 FISCUS FED 2627 PAD	<b>North Reference:</b>	True
<b>Well:</b>	FISCUS FED 2627-01H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)
4,800.00	16.30	355.20	4,636.91	1,173.34	-98.53	88.70	0.00	0.00	0.00
4,900.00	16.30	355.20	4,732.89	1,201.31	-100.88	90.81	0.00	0.00	0.00
5,000.00	16.30	355.20	4,828.88	1,229.28	-103.23	92.92	0.00	0.00	0.00
5,100.00	16.30	355.20	4,924.86	1,257.25	-105.57	95.04	0.00	0.00	0.00
5,200.00	16.30	355.20	5,020.84	1,285.22	-107.92	97.15	0.00	0.00	0.00
5,300.00	16.30	355.20	5,116.82	1,313.18	-110.27	99.27	0.00	0.00	0.00
5,336.39	16.30	355.20	5,151.74	1,323.36	-111.13	100.04	0.00	0.00	0.00
KOP @ 5336.39ft :: DLS = 9°/100'									
5,400.00	17.64	336.03	5,212.63	1,341.08	-115.79	104.55	9.00	2.10	-30.14
5,500.00	22.61	313.95	5,306.63	1,368.32	-135.83	124.36	9.00	4.98	-22.08
5,600.00	29.48	300.57	5,396.50	1,394.23	-170.93	159.24	9.00	6.87	-13.38
5,700.00	37.20	292.11	5,480.02	1,418.17	-220.22	208.34	9.00	7.72	-8.46
5,800.00	45.34	286.26	5,555.14	1,439.55	-282.51	270.44	9.00	8.14	-5.84
5,900.00	53.71	281.88	5,620.01	1,457.85	-356.24	344.01	9.00	8.36	-4.38
6,000.00	62.20	278.36	5,673.04	1,472.61	-439.61	427.25	9.00	8.49	-3.52
6,100.00	70.77	275.36	5,712.90	1,483.47	-530.56	518.11	9.00	8.57	-3.01
6,200.00	79.38	272.65	5,738.64	1,490.16	-626.85	614.35	9.00	8.61	-2.70
6,300.00	88.02	270.10	5,749.60	1,492.52	-726.12	713.59	9.00	8.63	-2.56
6,322.94	90.00	269.52	5,750.00	1,492.45	-749.05	736.52	9.00	8.64	-2.52
End Build @ 6322.94ft									
6,400.00	90.00	269.52	5,750.00	1,491.80	-826.11	813.58	0.00	0.00	0.00
6,500.00	90.00	269.52	5,750.00	1,490.96	-926.11	913.58	0.00	0.00	0.00
6,600.00	90.00	269.52	5,750.00	1,490.12	-1,026.10	1,013.58	0.00	0.00	0.00
6,700.00	90.00	269.52	5,750.00	1,489.27	-1,126.10	1,113.58	0.00	0.00	0.00
6,800.00	90.00	269.52	5,750.00	1,488.43	-1,226.10	1,213.58	0.00	0.00	0.00
6,900.00	90.00	269.52	5,750.00	1,487.59	-1,326.09	1,313.58	0.00	0.00	0.00
7,000.00	90.00	269.52	5,750.00	1,486.75	-1,426.09	1,413.58	0.00	0.00	0.00
7,100.00	90.00	269.52	5,750.00	1,485.91	-1,526.08	1,513.58	0.00	0.00	0.00
7,200.00	90.00	269.52	5,750.00	1,485.07	-1,626.08	1,613.58	0.00	0.00	0.00
7,300.00	90.00	269.52	5,750.00	1,484.23	-1,726.08	1,713.58	0.00	0.00	0.00
7,400.00	90.00	269.52	5,750.00	1,483.39	-1,826.07	1,813.58	0.00	0.00	0.00
7,500.00	90.00	269.52	5,750.00	1,482.54	-1,926.07	1,913.58	0.00	0.00	0.00
7,600.00	90.00	269.52	5,750.00	1,481.70	-2,026.07	2,013.58	0.00	0.00	0.00
7,700.00	90.00	269.52	5,750.00	1,480.86	-2,126.06	2,113.58	0.00	0.00	0.00
7,800.00	90.00	269.52	5,750.00	1,480.02	-2,226.06	2,213.58	0.00	0.00	0.00
7,900.00	90.00	269.52	5,750.00	1,479.18	-2,326.06	2,313.58	0.00	0.00	0.00
8,000.00	90.00	269.52	5,750.00	1,478.34	-2,426.05	2,413.58	0.00	0.00	0.00
8,100.00	90.00	269.52	5,750.00	1,477.50	-2,526.05	2,513.58	0.00	0.00	0.00
8,200.00	90.00	269.52	5,750.00	1,476.66	-2,626.05	2,613.58	0.00	0.00	0.00
8,300.00	90.00	269.52	5,750.00	1,475.82	-2,726.04	2,713.58	0.00	0.00	0.00
8,400.00	90.00	269.52	5,750.00	1,474.97	-2,826.04	2,813.58	0.00	0.00	0.00
8,500.00	90.00	269.52	5,750.00	1,474.13	-2,926.04	2,913.58	0.00	0.00	0.00
8,600.00	90.00	269.52	5,750.00	1,473.29	-3,026.03	3,013.58	0.00	0.00	0.00
8,700.00	90.00	269.52	5,750.00	1,472.45	-3,126.03	3,113.58	0.00	0.00	0.00
8,800.00	90.00	269.52	5,750.00	1,471.61	-3,226.02	3,213.58	0.00	0.00	0.00
8,900.00	90.00	269.52	5,750.00	1,470.77	-3,326.02	3,313.58	0.00	0.00	0.00
9,000.00	90.00	269.52	5,750.00	1,469.93	-3,426.02	3,413.58	0.00	0.00	0.00
9,100.00	90.00	269.52	5,750.00	1,469.09	-3,526.01	3,513.58	0.00	0.00	0.00
9,200.00	90.00	269.52	5,750.00	1,468.24	-3,626.01	3,613.58	0.00	0.00	0.00
9,300.00	90.00	269.52	5,750.00	1,467.40	-3,726.01	3,713.58	0.00	0.00	0.00
9,400.00	90.00	269.52	5,750.00	1,466.56	-3,826.00	3,813.58	0.00	0.00	0.00
9,500.00	90.00	269.52	5,750.00	1,465.72	-3,926.00	3,913.58	0.00	0.00	0.00
9,600.00	90.00	269.52	5,750.00	1,464.88	-4,026.00	4,013.58	0.00	0.00	0.00
9,700.00	90.00	269.52	5,750.00	1,464.04	-4,125.99	4,113.58	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 FISCUS FED 2627-01H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 24' @ 4799.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 24' @ 4799.00usft (RIG)
<b>Site:</b>	9N-58W-26 FISCUS FED 2627 PAD	<b>North Reference:</b>	True
<b>Well:</b>	FISCUS FED 2627-01H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)	
9,800.00	90.00	269.52	5,750.00	1,463.20	-4,225.99	4,213.58	0.00	0.00	0.00	
9,900.00	90.00	269.52	5,750.00	1,462.36	-4,325.99	4,313.58	0.00	0.00	0.00	
10,000.00	90.00	269.52	5,750.00	1,461.51	-4,425.98	4,413.58	0.00	0.00	0.00	
10,100.00	90.00	269.52	5,750.00	1,460.67	-4,525.98	4,513.58	0.00	0.00	0.00	
10,200.00	90.00	269.52	5,750.00	1,459.83	-4,625.98	4,613.58	0.00	0.00	0.00	
10,300.00	90.00	269.52	5,750.00	1,458.99	-4,725.97	4,713.58	0.00	0.00	0.00	
10,400.00	90.00	269.52	5,750.00	1,458.15	-4,825.97	4,813.58	0.00	0.00	0.00	
10,500.00	90.00	269.52	5,750.00	1,457.31	-4,925.96	4,913.58	0.00	0.00	0.00	
10,600.00	90.00	269.52	5,750.00	1,456.47	-5,025.96	5,013.58	0.00	0.00	0.00	
10,700.00	90.00	269.52	5,750.00	1,455.63	-5,125.96	5,113.58	0.00	0.00	0.00	
10,800.00	90.00	269.52	5,750.00	1,454.79	-5,225.95	5,213.58	0.00	0.00	0.00	
10,900.00	90.00	269.52	5,750.00	1,453.94	-5,325.95	5,313.58	0.00	0.00	0.00	
10,973.92	90.00	269.52	5,750.00	1,453.32	-5,399.86	5,387.50	0.00	0.00	0.00	
TD Well @ 10973.92ft										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,740.09	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	
200.00	200.00	0.00	0.00	Begin Nudge @ 200.00ft	
1,015.00	1,004.05	114.75	-9.64	Hold Tangent @ 1015.00ft	
5,336.39	5,151.74	1,323.36	-111.13	KOP @ 5336.39ft :: DLS = 9°/100'	
6,322.94	5,750.00	1,492.45	-749.05	End Build @ 6322.94ft	
10,973.92	5,750.00	1,453.32	-5,399.86	TD Well @ 10973.92ft	