

# **VERDAD RESOURCES**

**WATTENBERG FIELD**

**1N-64W-19 GOURD 1930 PAD**

**GOURD 1930-02H**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**21 May, 2019**

Project: WATTENBERG FIELD  
 Site: 1N-64W-19 GOURD 1930 PAD  
 Well: GOURD 1930-02H  
 Wellbore: Wellbore #1  
 Design: Design #1

# VERDAD RESOURCES

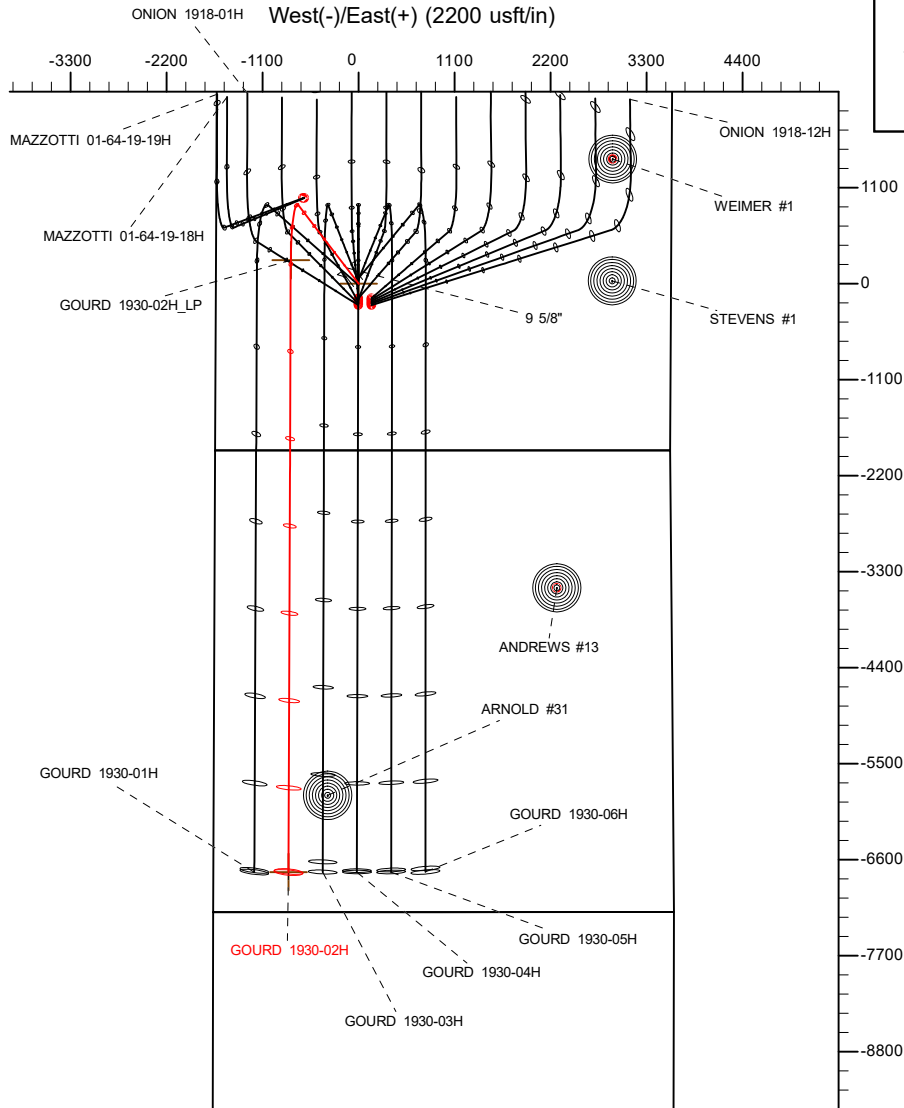
## CASING DETAILS

TVD	MD	Name	Size
1700.00	1720.22	9 5/8"	9-5/8

**SHL**  
**1911' FSL**  
**1635' FWL**

**LP**  
**2180' FSL**  
**857' FWL**

**BHL**  
**460' FSL**  
**862' FWL**

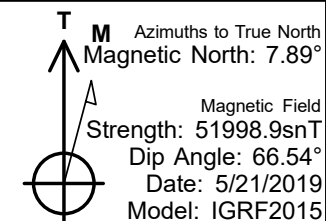
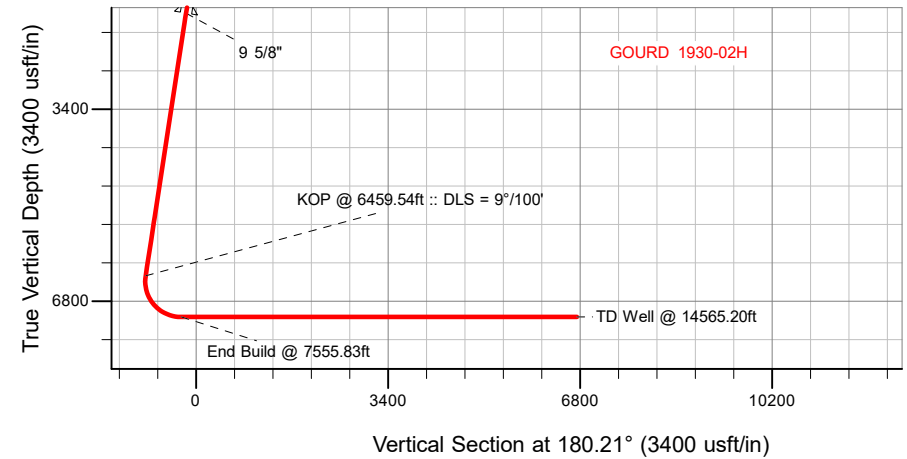


## SECTION DETAILS

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	
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	
799.00	10.98	322.50	795.65	41.61	-31.93	2.00	322.50	-41.49	
6459.54	10.98	322.50	6352.56	896.95	-688.26	0.00	0.00	-894.43	
7555.83	90.00	180.21	7080.00	267.93	-776.93	9.00	-141.77	-265.08	
14565.20	90.00	180.21	7080.00	-6741.39	-802.98	0.00	0.00	6744.29	GOURD 1930-02H_BHL

## WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
GOURD 1930-02H_SHL	0.00	0.00	0.00	40.034801	-104.596973
GOURD 1930-02H_BHL	7080.00	-6741.39	-802.98	40.016295	-104.599840



## WELL DETAILS: GOURD 1930-02H

GL = 5012'

RKB = 24' @ 5036.00usft (RIG)

Plan: Design #1 (GOURD 1930-02H/Wellbore #1)

Date: 5/22/2019

# Hewlett-Packard

## Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well GOURD 1930-02H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 24' @ 5036.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 24' @ 5036.00usft (RIG)
<b>Site:</b>	1N-64W-19 GOURD 1930 PAD	<b>North Reference:</b>	True
<b>Well:</b>	GOURD 1930-02H	<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		1N-64W-19 GOURD 1930 PAD			
Site Position:		Northing:	1,256,795.51 usft	Latitude:	40.034757
From:	Lat/Long	Easting:	3,252,852.90 usft	Longitude:	-104.596973
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.58 °

Well		GOURD 1930-02H				
Well Position	+N/-S	15.98 usft	Northing:	1,256,811.49 usft	Latitude:	40.034801
	+E/-W	0.08 usft	Easting:	3,252,852.82 usft	Longitude:	-104.596973
Position Uncertainty		3.28 usft	Wellhead Elevation:		Ground Level:	5,012.00 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	5/21/2019	7.89	66.54	51,998.92891271

<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	180.21

<b>Plan Survey Tool Program</b>	<b>Date</b>	5/21/2019		
<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	14,565.20	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	
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00	
799.00	10.98	322.50	795.65	41.61	-31.93	2.00	2.00	0.00	322.50	
6,459.54	10.98	322.50	6,352.56	896.95	-688.26	0.00	0.00	0.00	0.00	
7,555.83	90.00	180.21	7,080.00	267.93	-776.93	9.00	7.21	-12.98	-141.77	
14,565.20	90.00	180.21	7,080.00	-6,741.39	-802.98	0.00	0.00	0.00	0.00	GOURD 1930-02H_B

# Hewlett-Packard

## Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well GOURD 1930-02H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 24' @ 5036.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 24' @ 5036.00usft (RIG)
<b>Site:</b>	1N-64W-19 GOURD 1930 PAD	<b>North Reference:</b>	True
<b>Well:</b>	GOURD 1930-02H	<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
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 250.00ft									
300.00	1.00	322.50	300.00	0.35	-0.27	-0.35	2.00	2.00	0.00
400.00	3.00	322.50	399.93	3.11	-2.39	-3.11	2.00	2.00	0.00
500.00	5.00	322.50	499.68	8.65	-6.64	-8.62	2.00	2.00	0.00
600.00	7.00	322.50	599.13	16.94	-13.00	-16.89	2.00	2.00	0.00
700.00	9.00	322.50	698.15	27.98	-21.47	-27.90	2.00	2.00	0.00
799.00	10.98	322.50	795.65	41.61	-31.93	-41.49	2.00	2.00	0.00
Hold Tangent @ 799.00ft									
800.00	10.98	322.50	796.63	41.76	-32.04	-41.64	0.00	0.00	0.00
900.00	10.98	322.50	894.80	56.87	-43.64	-56.71	0.00	0.00	0.00
1,000.00	10.98	322.50	992.97	71.98	-55.23	-71.78	0.00	0.00	0.00
1,100.00	10.98	322.50	1,091.14	87.09	-66.83	-86.84	0.00	0.00	0.00
1,200.00	10.98	322.50	1,189.31	102.20	-78.42	-101.91	0.00	0.00	0.00
1,300.00	10.98	322.50	1,287.47	117.31	-90.02	-116.98	0.00	0.00	0.00
1,400.00	10.98	322.50	1,385.64	132.42	-101.61	-132.05	0.00	0.00	0.00
1,500.00	10.98	322.50	1,483.81	147.53	-113.21	-147.12	0.00	0.00	0.00
1,600.00	10.98	322.50	1,581.98	162.64	-124.80	-162.18	0.00	0.00	0.00
1,700.00	10.98	322.50	1,680.15	177.75	-136.40	-177.25	0.00	0.00	0.00
1,720.22	10.98	322.50	1,700.00	180.81	-138.74	-180.30	0.00	0.00	0.00
9 5/8"									
1,800.00	10.98	322.50	1,778.32	192.86	-147.99	-192.32	0.00	0.00	0.00
1,900.00	10.98	322.50	1,876.49	207.98	-159.59	-207.39	0.00	0.00	0.00
2,000.00	10.98	322.50	1,974.66	223.09	-171.18	-222.46	0.00	0.00	0.00
2,100.00	10.98	322.50	2,072.83	238.20	-182.77	-237.53	0.00	0.00	0.00
2,200.00	10.98	322.50	2,171.00	253.31	-194.37	-252.59	0.00	0.00	0.00
2,300.00	10.98	322.50	2,269.17	268.42	-205.96	-267.66	0.00	0.00	0.00
2,400.00	10.98	322.50	2,367.34	283.53	-217.56	-282.73	0.00	0.00	0.00
2,500.00	10.98	322.50	2,465.51	298.64	-229.15	-297.80	0.00	0.00	0.00
2,600.00	10.98	322.50	2,563.68	313.75	-240.75	-312.87	0.00	0.00	0.00
2,700.00	10.98	322.50	2,661.85	328.86	-252.34	-327.93	0.00	0.00	0.00
2,800.00	10.98	322.50	2,760.02	343.97	-263.94	-343.00	0.00	0.00	0.00
2,900.00	10.98	322.50	2,858.18	359.08	-275.53	-358.07	0.00	0.00	0.00
3,000.00	10.98	322.50	2,956.35	374.19	-287.13	-373.14	0.00	0.00	0.00
3,100.00	10.98	322.50	3,054.52	389.30	-298.72	-388.21	0.00	0.00	0.00
3,200.00	10.98	322.50	3,152.69	404.41	-310.32	-403.27	0.00	0.00	0.00
3,300.00	10.98	322.50	3,250.86	419.53	-321.91	-418.34	0.00	0.00	0.00
3,400.00	10.98	322.50	3,349.03	434.64	-333.51	-433.41	0.00	0.00	0.00
3,500.00	10.98	322.50	3,447.20	449.75	-345.10	-448.48	0.00	0.00	0.00
3,600.00	10.98	322.50	3,545.37	464.86	-356.70	-463.55	0.00	0.00	0.00
3,700.00	10.98	322.50	3,643.54	479.97	-368.29	-478.61	0.00	0.00	0.00
3,800.00	10.98	322.50	3,741.71	495.08	-379.89	-493.68	0.00	0.00	0.00
3,900.00	10.98	322.50	3,839.88	510.19	-391.48	-508.75	0.00	0.00	0.00
4,000.00	10.98	322.50	3,938.05	525.30	-403.08	-523.82	0.00	0.00	0.00
4,100.00	10.98	322.50	4,036.22	540.41	-414.67	-538.89	0.00	0.00	0.00
4,200.00	10.98	322.50	4,134.39	555.52	-426.27	-553.96	0.00	0.00	0.00
4,300.00	10.98	322.50	4,232.56	570.63	-437.86	-569.02	0.00	0.00	0.00
4,400.00	10.98	322.50	4,330.73	585.74	-449.46	-584.09	0.00	0.00	0.00
4,500.00	10.98	322.50	4,428.89	600.85	-461.05	-599.16	0.00	0.00	0.00
4,600.00	10.98	322.50	4,527.06	615.96	-472.65	-614.23	0.00	0.00	0.00

# Hewlett-Packard

## Planning Report

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<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 24' @ 5036.00usft (RIG)
<b>Site:</b>	1N-64W-19 GOURD 1930 PAD	<b>North Reference:</b>	True
<b>Well:</b>	GOURD 1930-02H	<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)
4,700.00	10.98	322.50	4,625.23	631.08	-484.24	-629.30	0.00	0.00	0.00
4,800.00	10.98	322.50	4,723.40	646.19	-495.84	-644.36	0.00	0.00	0.00
4,900.00	10.98	322.50	4,821.57	661.30	-507.43	-659.43	0.00	0.00	0.00
5,000.00	10.98	322.50	4,919.74	676.41	-519.03	-674.50	0.00	0.00	0.00
5,100.00	10.98	322.50	5,017.91	691.52	-530.62	-689.57	0.00	0.00	0.00
5,200.00	10.98	322.50	5,116.08	706.63	-542.22	-704.64	0.00	0.00	0.00
5,300.00	10.98	322.50	5,214.25	721.74	-553.81	-719.70	0.00	0.00	0.00
5,400.00	10.98	322.50	5,312.42	736.85	-565.40	-734.77	0.00	0.00	0.00
5,500.00	10.98	322.50	5,410.59	751.96	-577.00	-749.84	0.00	0.00	0.00
5,600.00	10.98	322.50	5,508.76	767.07	-588.59	-764.91	0.00	0.00	0.00
5,700.00	10.98	322.50	5,606.93	782.18	-600.19	-779.98	0.00	0.00	0.00
5,800.00	10.98	322.50	5,705.10	797.29	-611.78	-795.05	0.00	0.00	0.00
5,900.00	10.98	322.50	5,803.27	812.40	-623.38	-810.11	0.00	0.00	0.00
6,000.00	10.98	322.50	5,901.44	827.51	-634.97	-825.18	0.00	0.00	0.00
6,100.00	10.98	322.50	5,999.60	842.63	-646.57	-840.25	0.00	0.00	0.00
6,200.00	10.98	322.50	6,097.77	857.74	-658.16	-855.32	0.00	0.00	0.00
6,300.00	10.98	322.50	6,195.94	872.85	-669.76	-870.39	0.00	0.00	0.00
6,400.00	10.98	322.50	6,294.11	887.96	-681.35	-885.45	0.00	0.00	0.00
6,459.54	10.98	322.50	6,352.56	896.95	-688.26	-894.43	0.00	0.00	0.00
<b>KOP @ 6459.54ft :: DLS = 9°/100'</b>									
6,500.00	8.42	306.94	6,392.45	901.79	-692.97	-899.25	9.00	-6.32	-38.47
6,600.00	7.84	239.69	6,491.64	902.75	-704.74	-900.16	9.00	-0.58	-67.25
6,700.00	14.61	207.30	6,589.76	888.07	-716.44	-885.44	9.00	6.76	-32.38
6,800.00	22.94	196.49	6,684.38	858.12	-727.78	-855.44	9.00	8.34	-10.81
6,900.00	31.63	191.32	6,773.18	813.62	-738.49	-810.91	9.00	8.69	-5.17
7,000.00	40.45	188.21	6,853.97	755.68	-748.29	-752.93	9.00	8.82	-3.11
7,100.00	49.32	186.07	6,924.75	685.72	-756.95	-682.94	9.00	8.87	-2.15
7,200.00	58.22	184.43	6,983.79	605.47	-764.26	-602.67	9.00	8.90	-1.64
7,300.00	67.14	183.08	7,029.64	516.90	-770.03	-514.08	9.00	8.92	-1.35
7,400.00	76.08	181.90	7,061.16	422.20	-774.12	-419.36	9.00	8.93	-1.18
7,500.00	85.01	180.81	7,077.57	323.68	-776.43	-320.84	9.00	8.94	-1.09
7,555.83	90.00	180.21	7,080.00	267.93	-776.93	-265.08	9.00	8.94	-1.06
<b>End Build @ 7555.83ft</b>									
7,600.00	90.00	180.21	7,080.00	223.76	-777.09	-220.91	0.00	0.00	0.00
7,700.00	90.00	180.21	7,080.00	123.76	-777.47	-120.91	0.00	0.00	0.00
7,800.00	90.00	180.21	7,080.00	23.76	-777.84	-20.91	0.00	0.00	0.00
7,900.00	90.00	180.21	7,080.00	-76.24	-778.21	79.09	0.00	0.00	0.00
8,000.00	90.00	180.21	7,080.00	-176.24	-778.58	179.09	0.00	0.00	0.00
8,100.00	90.00	180.21	7,080.00	-276.24	-778.95	279.09	0.00	0.00	0.00
8,200.00	90.00	180.21	7,080.00	-376.24	-779.32	379.09	0.00	0.00	0.00
8,300.00	90.00	180.21	7,080.00	-476.24	-779.70	479.09	0.00	0.00	0.00
8,400.00	90.00	180.21	7,080.00	-576.24	-780.07	579.09	0.00	0.00	0.00
8,500.00	90.00	180.21	7,080.00	-676.24	-780.44	679.09	0.00	0.00	0.00
8,600.00	90.00	180.21	7,080.00	-776.24	-780.81	779.09	0.00	0.00	0.00
8,700.00	90.00	180.21	7,080.00	-876.24	-781.18	879.09	0.00	0.00	0.00
8,800.00	90.00	180.21	7,080.00	-976.23	-781.55	979.09	0.00	0.00	0.00
8,900.00	90.00	180.21	7,080.00	-1,076.23	-781.93	1,079.09	0.00	0.00	0.00
9,000.00	90.00	180.21	7,080.00	-1,176.23	-782.30	1,179.09	0.00	0.00	0.00
9,100.00	90.00	180.21	7,080.00	-1,276.23	-782.67	1,279.09	0.00	0.00	0.00
9,200.00	90.00	180.21	7,080.00	-1,376.23	-783.04	1,379.09	0.00	0.00	0.00
9,300.00	90.00	180.21	7,080.00	-1,476.23	-783.41	1,479.09	0.00	0.00	0.00
9,400.00	90.00	180.21	7,080.00	-1,576.23	-783.78	1,579.09	0.00	0.00	0.00
9,500.00	90.00	180.21	7,080.00	-1,676.23	-784.16	1,679.09	0.00	0.00	0.00
9,600.00	90.00	180.21	7,080.00	-1,776.23	-784.53	1,779.09	0.00	0.00	0.00

## Planning Report

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	180.21	7,080.00	-1,876.23	-784.90	1,879.09	0.00	0.00	0.00
9,800.00	90.00	180.21	7,080.00	-1,976.23	-785.27	1,979.09	0.00	0.00	0.00
9,900.00	90.00	180.21	7,080.00	-2,076.23	-785.64	2,079.09	0.00	0.00	0.00
10,000.00	90.00	180.21	7,080.00	-2,176.23	-786.01	2,179.09	0.00	0.00	0.00
10,100.00	90.00	180.21	7,080.00	-2,276.23	-786.38	2,279.09	0.00	0.00	0.00
10,200.00	90.00	180.21	7,080.00	-2,376.22	-786.76	2,379.09	0.00	0.00	0.00
10,300.00	90.00	180.21	7,080.00	-2,476.22	-787.13	2,479.09	0.00	0.00	0.00
10,400.00	90.00	180.21	7,080.00	-2,576.22	-787.50	2,579.09	0.00	0.00	0.00
10,500.00	90.00	180.21	7,080.00	-2,676.22	-787.87	2,679.09	0.00	0.00	0.00
10,600.00	90.00	180.21	7,080.00	-2,776.22	-788.24	2,779.09	0.00	0.00	0.00
10,700.00	90.00	180.21	7,080.00	-2,876.22	-788.61	2,879.09	0.00	0.00	0.00
10,800.00	90.00	180.21	7,080.00	-2,976.22	-788.99	2,979.09	0.00	0.00	0.00
10,900.00	90.00	180.21	7,080.00	-3,076.22	-789.36	3,079.09	0.00	0.00	0.00
11,000.00	90.00	180.21	7,080.00	-3,176.22	-789.73	3,179.09	0.00	0.00	0.00
11,100.00	90.00	180.21	7,080.00	-3,276.22	-790.10	3,279.09	0.00	0.00	0.00
11,200.00	90.00	180.21	7,080.00	-3,376.22	-790.47	3,379.09	0.00	0.00	0.00
11,300.00	90.00	180.21	7,080.00	-3,476.22	-790.84	3,479.09	0.00	0.00	0.00
11,400.00	90.00	180.21	7,080.00	-3,576.22	-791.22	3,579.09	0.00	0.00	0.00
11,500.00	90.00	180.21	7,080.00	-3,676.22	-791.59	3,679.09	0.00	0.00	0.00
11,600.00	90.00	180.21	7,080.00	-3,776.22	-791.96	3,779.09	0.00	0.00	0.00
11,700.00	90.00	180.21	7,080.00	-3,876.21	-792.33	3,879.09	0.00	0.00	0.00
11,800.00	90.00	180.21	7,080.00	-3,976.21	-792.70	3,979.09	0.00	0.00	0.00
11,900.00	90.00	180.21	7,080.00	-4,076.21	-793.07	4,079.09	0.00	0.00	0.00
12,000.00	90.00	180.21	7,080.00	-4,176.21	-793.45	4,179.09	0.00	0.00	0.00
12,100.00	90.00	180.21	7,080.00	-4,276.21	-793.82	4,279.09	0.00	0.00	0.00
12,200.00	90.00	180.21	7,080.00	-4,376.21	-794.19	4,379.09	0.00	0.00	0.00
12,300.00	90.00	180.21	7,080.00	-4,476.21	-794.56	4,479.09	0.00	0.00	0.00
12,400.00	90.00	180.21	7,080.00	-4,576.21	-794.93	4,579.09	0.00	0.00	0.00
12,500.00	90.00	180.21	7,080.00	-4,676.21	-795.30	4,679.09	0.00	0.00	0.00
12,600.00	90.00	180.21	7,080.00	-4,776.21	-795.68	4,779.09	0.00	0.00	0.00
12,700.00	90.00	180.21	7,080.00	-4,876.21	-796.05	4,879.09	0.00	0.00	0.00
12,800.00	90.00	180.21	7,080.00	-4,976.21	-796.42	4,979.09	0.00	0.00	0.00
12,900.00	90.00	180.21	7,080.00	-5,076.21	-796.79	5,079.09	0.00	0.00	0.00
13,000.00	90.00	180.21	7,080.00	-5,176.21	-797.16	5,179.09	0.00	0.00	0.00
13,100.00	90.00	180.21	7,080.00	-5,276.20	-797.53	5,279.09	0.00	0.00	0.00
13,200.00	90.00	180.21	7,080.00	-5,376.20	-797.91	5,379.09	0.00	0.00	0.00
13,300.00	90.00	180.21	7,080.00	-5,476.20	-798.28	5,479.09	0.00	0.00	0.00
13,400.00	90.00	180.21	7,080.00	-5,576.20	-798.65	5,579.09	0.00	0.00	0.00
13,500.00	90.00	180.21	7,080.00	-5,676.20	-799.02	5,679.09	0.00	0.00	0.00
13,600.00	90.00	180.21	7,080.00	-5,776.20	-799.39	5,779.09	0.00	0.00	0.00
13,700.00	90.00	180.21	7,080.00	-5,876.20	-799.76	5,879.09	0.00	0.00	0.00
13,800.00	90.00	180.21	7,080.00	-5,976.20	-800.14	5,979.09	0.00	0.00	0.00
13,900.00	90.00	180.21	7,080.00	-6,076.20	-800.51	6,079.09	0.00	0.00	0.00
14,000.00	90.00	180.21	7,080.00	-6,176.20	-800.88	6,179.09	0.00	0.00	0.00
14,100.00	90.00	180.21	7,080.00	-6,276.20	-801.25	6,279.09	0.00	0.00	0.00
14,200.00	90.00	180.21	7,080.00	-6,376.20	-801.62	6,379.09	0.00	0.00	0.00
14,300.00	90.00	180.21	7,080.00	-6,476.20	-801.99	6,479.09	0.00	0.00	0.00
14,400.00	90.00	180.21	7,080.00	-6,576.20	-802.37	6,579.09	0.00	0.00	0.00
14,500.00	90.00	180.21	7,080.00	-6,676.20	-802.74	6,679.09	0.00	0.00	0.00
14,565.20	90.00	180.21	7,080.00	-6,741.39	-802.98	6,744.29	0.00	0.00	0.00
TD Well @ 14565.20ft									

# Hewlett-Packard

## Planning Report

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well GOURD 1930-02H
<b>Company:</b>	VERDAD RESOURCES	<b>TVD Reference:</b>	RKB = 24' @ 5036.00usft (RIG)
<b>Project:</b>	WATTENBERG FIELD	<b>MD Reference:</b>	RKB = 24' @ 5036.00usft (RIG)
<b>Site:</b>	1N-64W-19 GOURD 1930 PAD	<b>North Reference:</b>	True
<b>Well:</b>	GOURD 1930-02H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
1,720.22	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 Nudge @ 250.00ft	
799.00	795.65	41.61	-31.93	Hold Tangent @ 799.00ft	
6,459.54	6,352.56	896.95	-688.26	KOP @ 6459.54ft :: DLS = 9°/100'	
7,555.83	7,080.00	267.93	-776.93	End Build @ 7555.83ft	
14,565.20	7,080.00	-6,741.39	-802.98	TD Well @ 14565.20ft	