

VERDAD RESOURCES

WATTENBERG FIELD

1N-64W-19 GOURD 1930 PAD

GOURD 1930-03H

Wellbore #1

Plan: Design #1

Standard Planning Report

21 May, 2019

Project: WATTENBERG FIELD
 Site: 1N-64W-19 GOURD 1930 PAD
 Well: GOURD 1930-03H
 Wellbore: Wellbore #1
 Design: Design #1

VERDAD RESOURCES

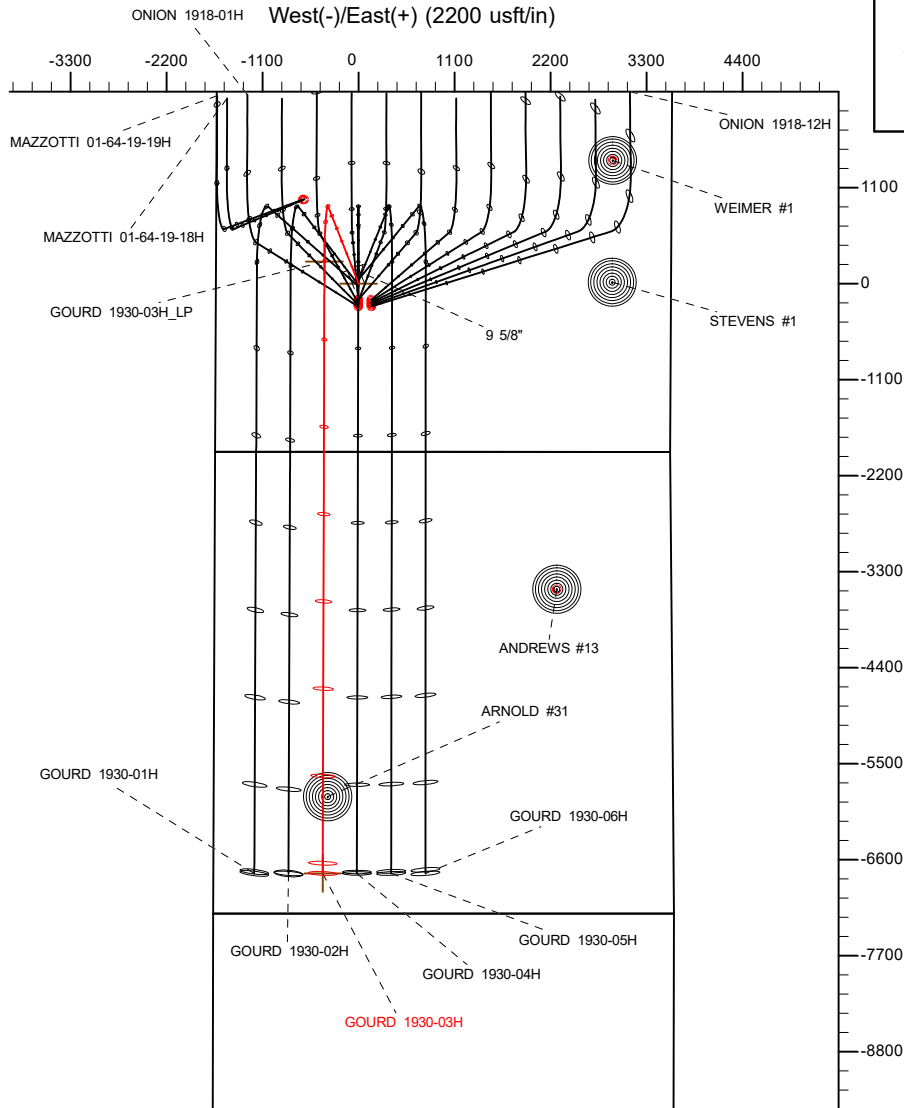
CASING DETAILS

TVD	MD	Name	Size
1700.00	1713.55	9 5/8"	9-5/8

SHL
1927' FSL
1635' FWL

LP
2180' FSL
1244' FWL

BHL
460' FSL
1254' FWL

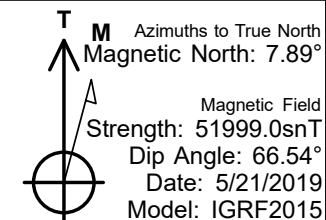
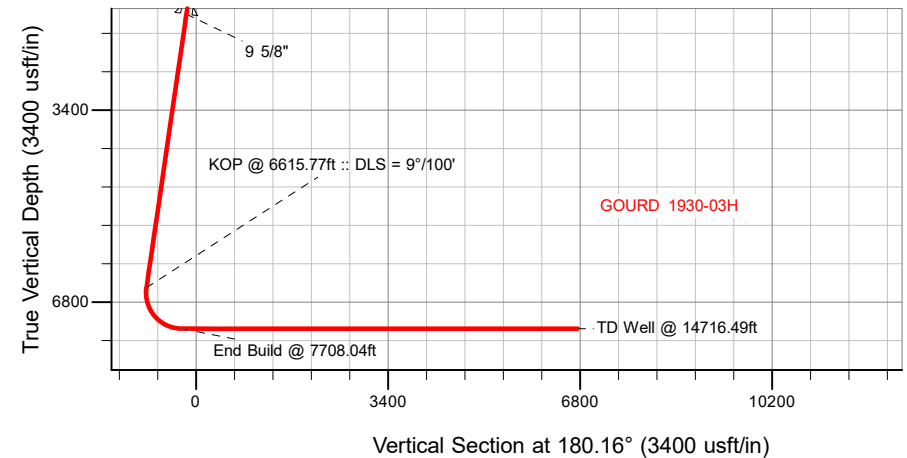


SECTION DETAILS

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	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
747.00	8.94	338.50	745.19	32.38	-12.76	2.00	338.50	-32.35	
6615.77	8.94	338.50	6542.66	880.93	-347.01	0.00	0.00	-879.96	
7708.04	90.00	180.16	7270.00	251.11	-391.03	9.00	-158.10	-250.01	
14716.49	90.00	180.16	7270.00	-6757.32	-410.86	0.00	0.00	6758.44	GOURD 1930-03H_BHL

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
GOURD 1930-03H_SHL	0.00	0.00	0.00	40.034845	-104.596973
GOURD 1930-03H_BHL	7270.00	-6757.32	-410.86	40.016295	-104.598440



WELL DETAILS: GOURD 1930-03H

GL = 5012'

RKB = 24' @ 5036.00usft (RIG)

Plan: Design #1 (GOURD 1930-03H/Wellbore #1)

Date: 5/22/2019

Hewlett-Packard

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well GOURD 1930-03H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 5036.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5036.00usft (RIG)
Site:	1N-64W-19 GOURD 1930 PAD	North Reference:	True
Well:	GOURD 1930-03H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	WATTENBERG FIELD		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	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 1930-03H				
Well Position	+N/-S	31.97 usft	Northing:	1,256,827.49 usft	Latitude:	40.034845
	+E/-W	0.17 usft	Easting:	3,252,852.74 usft	Longitude:	-104.596973
Position Uncertainty		3.28 usft	Wellhead Elevation:		Ground Level:	5,012.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/21/2019	7.89	66.54	51,998.95182596

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	180.16

Plan Survey Tool Program	Date	5/21/2019		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	1,700.00	Design #1 (Wellbore #1)	ISCWSA REV 2 MWD Fixed:v2:standard declination
2	1,700.00	14,716.49	Design #1 (Wellbore #1)	ISCWSA REV 2 MWD Fixed:v2:standard declination

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	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
747.00	8.94	338.50	745.19	32.38	-12.76	2.00	2.00	0.00	338.50	
6,615.77	8.94	338.50	6,542.66	880.93	-347.01	0.00	0.00	0.00	0.00	
7,708.04	90.00	180.16	7,270.00	251.11	-391.03	9.00	7.42	-14.50	-158.10	
14,716.49	90.00	180.16	7,270.00	-6,757.32	-410.86	0.00	0.00	0.00	0.00	GOURD 1930-03H_B

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Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well GOURD 1930-03H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 5036.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5036.00usft (RIG)
Site:	1N-64W-19 GOURD 1930 PAD	North Reference:	True
Well:	GOURD 1930-03H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 300.00ft									
400.00	2.00	338.50	399.98	1.62	-0.64	-1.62	2.00	2.00	0.00
500.00	4.00	338.50	499.84	6.49	-2.56	-6.49	2.00	2.00	0.00
600.00	6.00	338.50	599.45	14.60	-5.75	-14.59	2.00	2.00	0.00
700.00	8.00	338.50	698.70	25.94	-10.22	-25.91	2.00	2.00	0.00
747.00	8.94	338.50	745.19	32.38	-12.76	-32.35	2.00	2.00	0.00
Hold Tangent @ 747.00ft									
800.00	8.94	338.50	797.54	40.04	-15.77	-40.00	0.00	0.00	0.00
900.00	8.94	338.50	896.33	54.50	-21.47	-54.44	0.00	0.00	0.00
1,000.00	8.94	338.50	995.11	68.96	-27.16	-68.89	0.00	0.00	0.00
1,100.00	8.94	338.50	1,093.90	83.42	-32.86	-83.33	0.00	0.00	0.00
1,200.00	8.94	338.50	1,192.69	97.88	-38.56	-97.77	0.00	0.00	0.00
1,300.00	8.94	338.50	1,291.47	112.34	-44.25	-112.21	0.00	0.00	0.00
1,400.00	8.94	338.50	1,390.26	126.80	-49.95	-126.66	0.00	0.00	0.00
1,500.00	8.94	338.50	1,489.04	141.25	-55.64	-141.10	0.00	0.00	0.00
1,600.00	8.94	338.50	1,587.83	155.71	-61.34	-155.54	0.00	0.00	0.00
1,700.00	8.94	338.50	1,686.61	170.17	-67.03	-169.98	0.00	0.00	0.00
1,713.55	8.94	338.50	1,700.00	172.13	-67.80	-171.94	0.00	0.00	0.00
9 5/8"									
1,800.00	8.94	338.50	1,785.40	184.63	-72.73	-184.43	0.00	0.00	0.00
1,900.00	8.94	338.50	1,884.18	199.09	-78.42	-198.87	0.00	0.00	0.00
2,000.00	8.94	338.50	1,982.97	213.55	-84.12	-213.31	0.00	0.00	0.00
2,100.00	8.94	338.50	2,081.75	228.01	-89.81	-227.76	0.00	0.00	0.00
2,200.00	8.94	338.50	2,180.54	242.47	-95.51	-242.20	0.00	0.00	0.00
2,300.00	8.94	338.50	2,279.32	256.92	-101.21	-256.64	0.00	0.00	0.00
2,400.00	8.94	338.50	2,378.11	271.38	-106.90	-271.08	0.00	0.00	0.00
2,500.00	8.94	338.50	2,476.89	285.84	-112.60	-285.53	0.00	0.00	0.00
2,600.00	8.94	338.50	2,575.68	300.30	-118.29	-299.97	0.00	0.00	0.00
2,700.00	8.94	338.50	2,674.46	314.76	-123.99	-314.41	0.00	0.00	0.00
2,800.00	8.94	338.50	2,773.25	329.22	-129.68	-328.85	0.00	0.00	0.00
2,900.00	8.94	338.50	2,872.03	343.68	-135.38	-343.30	0.00	0.00	0.00
3,000.00	8.94	338.50	2,970.82	358.14	-141.07	-357.74	0.00	0.00	0.00
3,100.00	8.94	338.50	3,069.60	372.59	-146.77	-372.18	0.00	0.00	0.00
3,200.00	8.94	338.50	3,168.39	387.05	-152.46	-386.63	0.00	0.00	0.00
3,300.00	8.94	338.50	3,267.17	401.51	-158.16	-401.07	0.00	0.00	0.00
3,400.00	8.94	338.50	3,365.96	415.97	-163.85	-415.51	0.00	0.00	0.00
3,500.00	8.94	338.50	3,464.74	430.43	-169.55	-429.95	0.00	0.00	0.00
3,600.00	8.94	338.50	3,563.53	444.89	-175.25	-444.40	0.00	0.00	0.00
3,700.00	8.94	338.50	3,662.31	459.35	-180.94	-458.84	0.00	0.00	0.00
3,800.00	8.94	338.50	3,761.10	473.80	-186.64	-473.28	0.00	0.00	0.00
3,900.00	8.94	338.50	3,859.88	488.26	-192.33	-487.72	0.00	0.00	0.00
4,000.00	8.94	338.50	3,958.67	502.72	-198.03	-502.17	0.00	0.00	0.00
4,100.00	8.94	338.50	4,057.45	517.18	-203.72	-516.61	0.00	0.00	0.00
4,200.00	8.94	338.50	4,156.24	531.64	-209.42	-531.05	0.00	0.00	0.00
4,300.00	8.94	338.50	4,255.03	546.10	-215.11	-545.50	0.00	0.00	0.00
4,400.00	8.94	338.50	4,353.81	560.56	-220.81	-559.94	0.00	0.00	0.00
4,500.00	8.94	338.50	4,452.60	575.02	-226.50	-574.38	0.00	0.00	0.00
4,600.00	8.94	338.50	4,551.38	589.47	-232.20	-588.82	0.00	0.00	0.00
4,700.00	8.94	338.50	4,650.17	603.93	-237.90	-603.27	0.00	0.00	0.00

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Well:	GOURD 1930-03H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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	8.94	338.50	4,748.95	618.39	-243.59	-617.71	0.00	0.00	0.00
4,900.00	8.94	338.50	4,847.74	632.85	-249.29	-632.15	0.00	0.00	0.00
5,000.00	8.94	338.50	4,946.52	647.31	-254.98	-646.59	0.00	0.00	0.00
5,100.00	8.94	338.50	5,045.31	661.77	-260.68	-661.04	0.00	0.00	0.00
5,200.00	8.94	338.50	5,144.09	676.23	-266.37	-675.48	0.00	0.00	0.00
5,300.00	8.94	338.50	5,242.88	690.69	-272.07	-689.92	0.00	0.00	0.00
5,400.00	8.94	338.50	5,341.66	705.14	-277.76	-704.37	0.00	0.00	0.00
5,500.00	8.94	338.50	5,440.45	719.60	-283.46	-718.81	0.00	0.00	0.00
5,600.00	8.94	338.50	5,539.23	734.06	-289.15	-733.25	0.00	0.00	0.00
5,700.00	8.94	338.50	5,638.02	748.52	-294.85	-747.69	0.00	0.00	0.00
5,800.00	8.94	338.50	5,736.80	762.98	-300.55	-762.14	0.00	0.00	0.00
5,900.00	8.94	338.50	5,835.59	777.44	-306.24	-776.58	0.00	0.00	0.00
6,000.00	8.94	338.50	5,934.37	791.90	-311.94	-791.02	0.00	0.00	0.00
6,100.00	8.94	338.50	6,033.16	806.35	-317.63	-805.46	0.00	0.00	0.00
6,200.00	8.94	338.50	6,131.94	820.81	-323.33	-819.91	0.00	0.00	0.00
6,300.00	8.94	338.50	6,230.73	835.27	-329.02	-834.35	0.00	0.00	0.00
6,400.00	8.94	338.50	6,329.51	849.73	-334.72	-848.79	0.00	0.00	0.00
6,500.00	8.94	338.50	6,428.30	864.19	-340.41	-863.24	0.00	0.00	0.00
6,600.00	8.94	338.50	6,527.08	878.65	-346.11	-877.68	0.00	0.00	0.00
6,615.77	8.94	338.50	6,542.66	880.93	-347.01	-879.96	0.00	0.00	0.00
KOP @ 6615.77ft :: DLS = 9°/100'									
6,700.00	3.40	282.45	6,626.43	887.57	-351.85	-886.58	9.00	-6.58	-66.55
6,800.00	8.91	201.89	6,725.94	881.00	-357.65	-880.00	9.00	5.51	-80.56
6,900.00	17.58	190.72	6,823.20	858.93	-363.36	-857.91	9.00	8.67	-11.17
7,000.00	26.47	186.86	6,915.81	821.88	-368.84	-820.85	9.00	8.89	-3.86
7,100.00	35.41	184.85	7,001.50	770.78	-373.96	-769.73	9.00	8.94	-2.01
7,200.00	44.38	183.56	7,078.14	706.88	-378.59	-705.82	9.00	8.96	-1.28
7,300.00	53.35	182.64	7,143.87	631.75	-382.62	-630.68	9.00	8.97	-0.93
7,400.00	62.33	181.91	7,197.04	547.25	-385.95	-546.17	9.00	8.98	-0.73
7,500.00	71.31	181.29	7,236.37	455.45	-388.49	-454.37	9.00	8.98	-0.62
7,600.00	80.29	180.73	7,260.87	358.62	-390.19	-357.53	9.00	8.98	-0.56
7,700.00	89.28	180.20	7,269.95	259.14	-391.00	-258.05	9.00	8.98	-0.53
7,708.04	90.00	180.16	7,270.00	251.11	-391.03	-250.01	9.00	8.98	-0.52
End Build @ 7708.04ft									
7,800.00	90.00	180.16	7,270.00	159.14	-391.29	-158.05	0.00	0.00	0.00
7,900.00	90.00	180.16	7,270.00	59.14	-391.57	-58.05	0.00	0.00	0.00
8,000.00	90.00	180.16	7,270.00	-40.86	-391.85	41.95	0.00	0.00	0.00
8,100.00	90.00	180.16	7,270.00	-140.86	-392.13	141.95	0.00	0.00	0.00
8,200.00	90.00	180.16	7,270.00	-240.86	-392.42	241.95	0.00	0.00	0.00
8,300.00	90.00	180.16	7,270.00	-340.86	-392.70	341.95	0.00	0.00	0.00
8,400.00	90.00	180.16	7,270.00	-440.86	-392.98	441.95	0.00	0.00	0.00
8,500.00	90.00	180.16	7,270.00	-540.85	-393.27	541.95	0.00	0.00	0.00
8,600.00	90.00	180.16	7,270.00	-640.85	-393.55	641.95	0.00	0.00	0.00
8,700.00	90.00	180.16	7,270.00	-740.85	-393.83	741.95	0.00	0.00	0.00
8,800.00	90.00	180.16	7,270.00	-840.85	-394.12	841.95	0.00	0.00	0.00
8,900.00	90.00	180.16	7,270.00	-940.85	-394.40	941.95	0.00	0.00	0.00
9,000.00	90.00	180.16	7,270.00	-1,040.85	-394.68	1,041.95	0.00	0.00	0.00
9,100.00	90.00	180.16	7,270.00	-1,140.85	-394.96	1,141.95	0.00	0.00	0.00
9,200.00	90.00	180.16	7,270.00	-1,240.85	-395.25	1,241.95	0.00	0.00	0.00
9,300.00	90.00	180.16	7,270.00	-1,340.85	-395.53	1,341.95	0.00	0.00	0.00
9,400.00	90.00	180.16	7,270.00	-1,440.85	-395.81	1,441.95	0.00	0.00	0.00
9,500.00	90.00	180.16	7,270.00	-1,540.85	-396.10	1,541.95	0.00	0.00	0.00
9,600.00	90.00	180.16	7,270.00	-1,640.85	-396.38	1,641.95	0.00	0.00	0.00
9,700.00	90.00	180.16	7,270.00	-1,740.85	-396.66	1,741.95	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)	
9,800.00	90.00	180.16	7,270.00	-1,840.85	-396.95	1,841.95	0.00	0.00	0.00	
9,900.00	90.00	180.16	7,270.00	-1,940.85	-397.23	1,941.95	0.00	0.00	0.00	
10,000.00	90.00	180.16	7,270.00	-2,040.85	-397.51	2,041.95	0.00	0.00	0.00	
10,100.00	90.00	180.16	7,270.00	-2,140.85	-397.79	2,141.95	0.00	0.00	0.00	
10,200.00	90.00	180.16	7,270.00	-2,240.85	-398.08	2,241.95	0.00	0.00	0.00	
10,300.00	90.00	180.16	7,270.00	-2,340.85	-398.36	2,341.95	0.00	0.00	0.00	
10,400.00	90.00	180.16	7,270.00	-2,440.85	-398.64	2,441.95	0.00	0.00	0.00	
10,500.00	90.00	180.16	7,270.00	-2,540.85	-398.93	2,541.95	0.00	0.00	0.00	
10,600.00	90.00	180.16	7,270.00	-2,640.85	-399.21	2,641.95	0.00	0.00	0.00	
10,700.00	90.00	180.16	7,270.00	-2,740.85	-399.49	2,741.95	0.00	0.00	0.00	
10,800.00	90.00	180.16	7,270.00	-2,840.85	-399.78	2,841.95	0.00	0.00	0.00	
10,900.00	90.00	180.16	7,270.00	-2,940.85	-400.06	2,941.95	0.00	0.00	0.00	
11,000.00	90.00	180.16	7,270.00	-3,040.84	-400.34	3,041.95	0.00	0.00	0.00	
11,100.00	90.00	180.16	7,270.00	-3,140.84	-400.62	3,141.95	0.00	0.00	0.00	
11,200.00	90.00	180.16	7,270.00	-3,240.84	-400.91	3,241.95	0.00	0.00	0.00	
11,300.00	90.00	180.16	7,270.00	-3,340.84	-401.19	3,341.95	0.00	0.00	0.00	
11,400.00	90.00	180.16	7,270.00	-3,440.84	-401.47	3,441.95	0.00	0.00	0.00	
11,500.00	90.00	180.16	7,270.00	-3,540.84	-401.76	3,541.95	0.00	0.00	0.00	
11,600.00	90.00	180.16	7,270.00	-3,640.84	-402.04	3,641.95	0.00	0.00	0.00	
11,700.00	90.00	180.16	7,270.00	-3,740.84	-402.32	3,741.95	0.00	0.00	0.00	
11,800.00	90.00	180.16	7,270.00	-3,840.84	-402.61	3,841.95	0.00	0.00	0.00	
11,900.00	90.00	180.16	7,270.00	-3,940.84	-402.89	3,941.95	0.00	0.00	0.00	
12,000.00	90.00	180.16	7,270.00	-4,040.84	-403.17	4,041.95	0.00	0.00	0.00	
12,100.00	90.00	180.16	7,270.00	-4,140.84	-403.45	4,141.95	0.00	0.00	0.00	
12,200.00	90.00	180.16	7,270.00	-4,240.84	-403.74	4,241.95	0.00	0.00	0.00	
12,300.00	90.00	180.16	7,270.00	-4,340.84	-404.02	4,341.95	0.00	0.00	0.00	
12,400.00	90.00	180.16	7,270.00	-4,440.84	-404.30	4,441.95	0.00	0.00	0.00	
12,500.00	90.00	180.16	7,270.00	-4,540.84	-404.59	4,541.95	0.00	0.00	0.00	
12,600.00	90.00	180.16	7,270.00	-4,640.84	-404.87	4,641.95	0.00	0.00	0.00	
12,700.00	90.00	180.16	7,270.00	-4,740.84	-405.15	4,741.95	0.00	0.00	0.00	
12,800.00	90.00	180.16	7,270.00	-4,840.84	-405.44	4,841.95	0.00	0.00	0.00	
12,900.00	90.00	180.16	7,270.00	-4,940.84	-405.72	4,941.95	0.00	0.00	0.00	
13,000.00	90.00	180.16	7,270.00	-5,040.84	-406.00	5,041.95	0.00	0.00	0.00	
13,100.00	90.00	180.16	7,270.00	-5,140.84	-406.28	5,141.95	0.00	0.00	0.00	
13,200.00	90.00	180.16	7,270.00	-5,240.84	-406.57	5,241.95	0.00	0.00	0.00	
13,300.00	90.00	180.16	7,270.00	-5,340.84	-406.85	5,341.95	0.00	0.00	0.00	
13,400.00	90.00	180.16	7,270.00	-5,440.84	-407.13	5,441.95	0.00	0.00	0.00	
13,500.00	90.00	180.16	7,270.00	-5,540.84	-407.42	5,541.95	0.00	0.00	0.00	
13,600.00	90.00	180.16	7,270.00	-5,640.83	-407.70	5,641.95	0.00	0.00	0.00	
13,700.00	90.00	180.16	7,270.00	-5,740.83	-407.98	5,741.95	0.00	0.00	0.00	
13,800.00	90.00	180.16	7,270.00	-5,840.83	-408.27	5,841.95	0.00	0.00	0.00	
13,900.00	90.00	180.16	7,270.00	-5,940.83	-408.55	5,941.95	0.00	0.00	0.00	
14,000.00	90.00	180.16	7,270.00	-6,040.83	-408.83	6,041.95	0.00	0.00	0.00	
14,100.00	90.00	180.16	7,270.00	-6,140.83	-409.11	6,141.95	0.00	0.00	0.00	
14,200.00	90.00	180.16	7,270.00	-6,240.83	-409.40	6,241.95	0.00	0.00	0.00	
14,300.00	90.00	180.16	7,270.00	-6,340.83	-409.68	6,341.95	0.00	0.00	0.00	
14,400.00	90.00	180.16	7,270.00	-6,440.83	-409.96	6,441.95	0.00	0.00	0.00	
14,500.00	90.00	180.16	7,270.00	-6,540.83	-410.25	6,541.95	0.00	0.00	0.00	
14,600.00	90.00	180.16	7,270.00	-6,640.83	-410.53	6,641.95	0.00	0.00	0.00	
14,700.00	90.00	180.16	7,270.00	-6,740.83	-410.81	6,741.95	0.00	0.00	0.00	
14,716.49	90.00	180.16	7,270.00	-6,757.32	-410.86	6,758.44	0.00	0.00	0.00	
TD Well @ 14716.49ft										

Hewlett-Packard

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well GOURD 1930-03H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 5036.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5036.00usft (RIG)
Site:	1N-64W-19 GOURD 1930 PAD	North Reference:	True
Well:	GOURD 1930-03H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
1,713.55	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)		
300.00	300.00	0.00	0.00	Begin Nudge @ 300.00ft	
747.00	745.19	32.38	-12.76	Hold Tangent @ 747.00ft	
6,615.77	6,542.66	880.93	-347.01	KOP @ 6615.77ft :: DLS = 9°/100'	
7,708.04	7,270.00	251.11	-391.03	End Build @ 7708.04ft	
14,716.49	7,270.00	-6,757.32	-410.86	TD Well @ 14716.49ft	