

VERDAD RESOURCES

WATTENBERG FIELD

1N-65W-12 SAFI 1224 PAD

SAFI 1224-10H

Wellbore #1

Plan: Design #1

Standard Planning Report

16 May, 2019

Project: WATTENBERG FIELD
Site: 1N-65W-12 SAFI 1224 PAD
Well: SAFI 1224-10H
Wellbore: Wellbore #1
Design: Design #1

VERDAD RESOURCES

CASING DETAILS

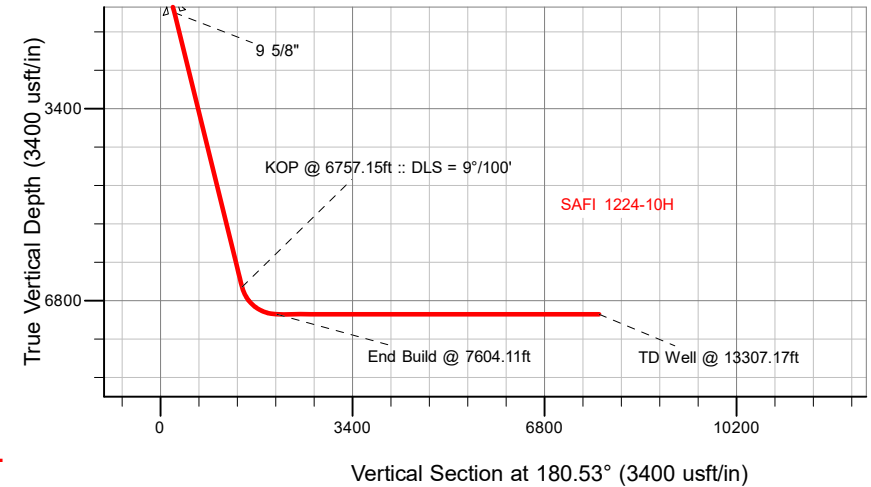
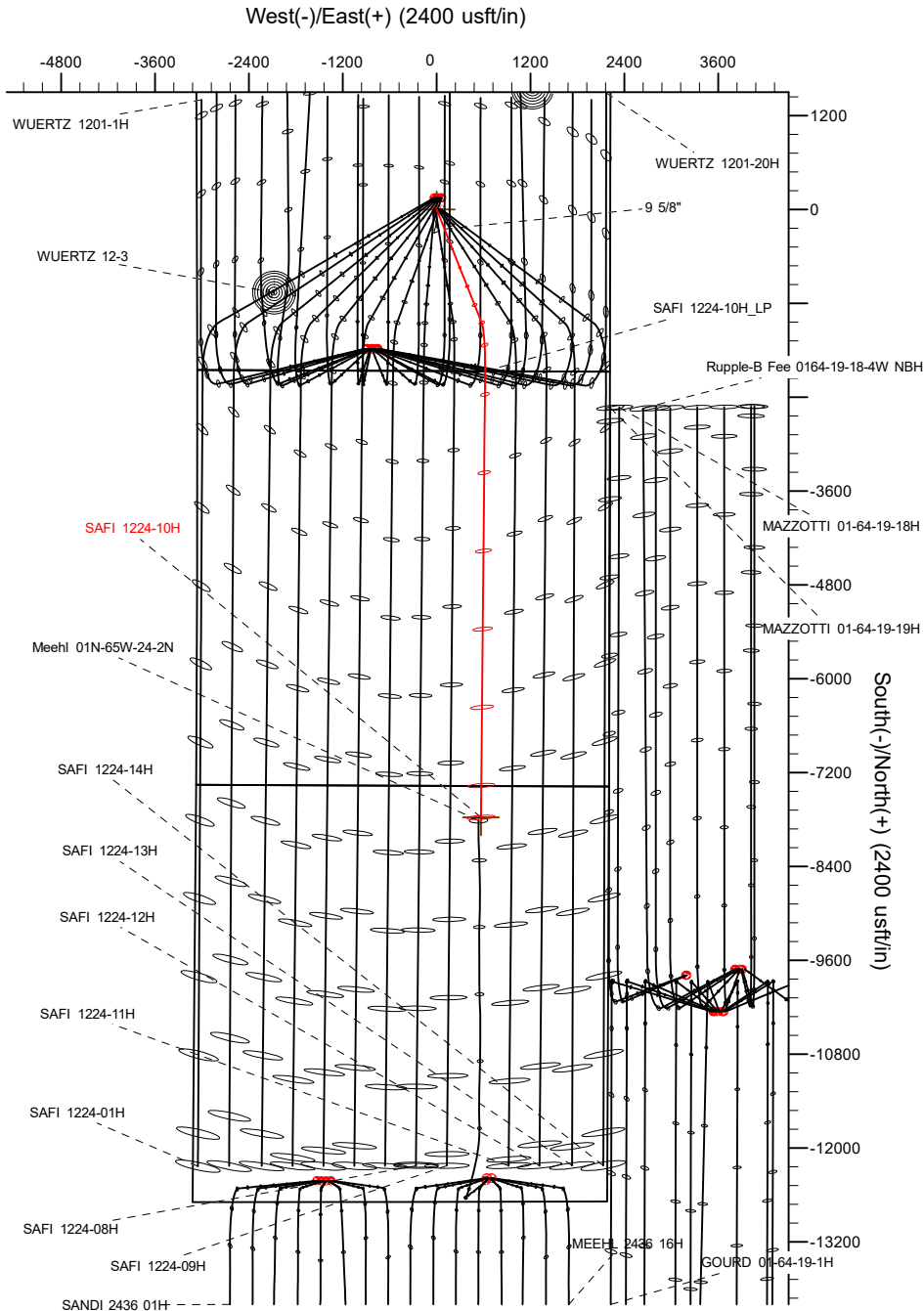
TVD	MD	Name	Size
1700.00	1730.75	9 5/8"	9-5/8

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	
320.00	0.00	0.00	320.00	0.00	0.00	0.00	0.00	0.00	
1065.00	14.90	158.34	1056.63	-89.52	35.55	2.00	158.34	89.19	
6757.15	14.90	158.34	6557.39	-1449.82	575.78	0.00	0.00	1444.43	
7604.11	90.00	180.53	7040.00	-2068.55	618.58	9.00	22.88	2062.74	
13307.17	90.00	180.53	7040.00	-7771.37	566.11	0.00	0.00	7765.80	SAFI 1224-10H_BHL

WELLBORE TARGET DETAILS (LAT/LONG)

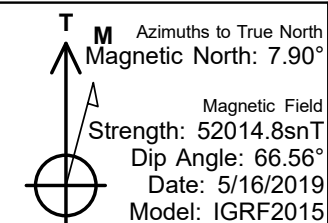
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
SAFI 1224-10H_SHL	0.00	0.00	0.00	40.064374	-104.610621
SAFI 1224-10H_BHL	7040.00	-7771.37	566.11	40.043040	-104.608599



SHL
2065' FSL
2219' FEL

LP
0' FNL
1595' FEL

BHL
400' FNL
1634' FEL



WELL DETAILS: SAFI 1224-10H

GL = 4971'

RKB = 24' @ 4995.00usft (RIG)

Plan: Design #1 (SAFI 1224-10H/Wellbore #1)

Date: 5/16/2019

Hewlett-Packard

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well SAFI 1224-10H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 4995.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 4995.00usft (RIG)
Site:	1N-65W-12 SAFI 1224 PAD	North Reference:	True
Well:	SAFI 1224-10H	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-65W-12 SAFI 1224 PAD			
Site Position:		Northing:	1,267,795.88 usft	Latitude:	40.065068
From:	Lat/Long	Easting:	3,248,744.87 usft	Longitude:	-104.611250
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.57 °

Well	SAFI 1224-10H					
Well Position	+N/-S	-252.71 usft	Northing:	1,267,544.94 usft	Latitude:	40.064374
	+E/-W	175.99 usft	Easting:	3,248,923.38 usft	Longitude:	-104.610621
Position Uncertainty		3.28 usft	Wellhead Elevation:		Ground Level:	4,971.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/16/2019	7.90	66.56	52,014.80505828

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	180.53

Plan Survey Tool Program	Date	5/16/2019		
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	13,307.17	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	
320.00	0.00	0.00	320.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,065.00	14.90	158.34	1,056.63	-89.52	35.55	2.00	2.00	0.00	158.34	
6,757.15	14.90	158.34	6,557.39	-1,449.82	575.78	0.00	0.00	0.00	0.00	
7,604.11	90.00	180.53	7,040.00	-2,068.55	618.58	9.00	8.87	2.62	22.88	
13,307.17	90.00	180.53	7,040.00	-7,771.37	566.11	0.00	0.00	0.00	0.00	SAFI 1224-10H_BHL

Hewlett-Packard

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well SAFI 1224-10H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 4995.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 4995.00usft (RIG)
Site:	1N-65W-12 SAFI 1224 PAD	North Reference:	True
Well:	SAFI 1224-10H	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
320.00	0.00	0.00	320.00	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 320.00ft									
400.00	1.60	158.34	399.99	-1.04	0.41	1.03	2.00	2.00	0.00
500.00	3.60	158.34	499.88	-5.25	2.09	5.23	2.00	2.00	0.00
600.00	5.60	158.34	599.55	-12.71	5.05	12.66	2.00	2.00	0.00
700.00	7.60	158.34	698.89	-23.39	9.29	23.30	2.00	2.00	0.00
800.00	9.60	158.34	797.76	-37.29	14.81	37.15	2.00	2.00	0.00
900.00	11.60	158.34	896.05	-54.38	21.60	54.18	2.00	2.00	0.00
1,000.00	13.60	158.34	993.63	-74.65	29.65	74.38	2.00	2.00	0.00
1,065.00	14.90	158.34	1,056.63	-89.52	35.55	89.19	2.00	2.00	0.00
Hold Tangent @ 1065.00ft									
1,100.00	14.90	158.34	1,090.45	-97.89	38.88	97.52	0.00	0.00	0.00
1,200.00	14.90	158.34	1,187.09	-121.79	48.37	121.33	0.00	0.00	0.00
1,300.00	14.90	158.34	1,283.73	-145.68	57.86	145.14	0.00	0.00	0.00
1,400.00	14.90	158.34	1,380.37	-169.58	67.35	168.95	0.00	0.00	0.00
1,500.00	14.90	158.34	1,477.00	-193.48	76.84	192.76	0.00	0.00	0.00
1,600.00	14.90	158.34	1,573.64	-217.38	86.33	216.57	0.00	0.00	0.00
1,700.00	14.90	158.34	1,670.28	-241.27	95.82	240.38	0.00	0.00	0.00
1,730.75	14.90	158.34	1,700.00	-248.62	98.74	247.70	0.00	0.00	0.00
9 5/8"									
1,800.00	14.90	158.34	1,766.92	-265.17	105.31	264.19	0.00	0.00	0.00
1,900.00	14.90	158.34	1,863.56	-289.07	114.80	288.00	0.00	0.00	0.00
2,000.00	14.90	158.34	1,960.19	-312.97	124.29	311.80	0.00	0.00	0.00
2,100.00	14.90	158.34	2,056.83	-336.86	133.78	335.61	0.00	0.00	0.00
2,200.00	14.90	158.34	2,153.47	-360.76	143.27	359.42	0.00	0.00	0.00
2,300.00	14.90	158.34	2,250.11	-384.66	152.76	383.23	0.00	0.00	0.00
2,400.00	14.90	158.34	2,346.74	-408.56	162.25	407.04	0.00	0.00	0.00
2,500.00	14.90	158.34	2,443.38	-432.46	171.75	430.85	0.00	0.00	0.00
2,600.00	14.90	158.34	2,540.02	-456.35	181.24	454.66	0.00	0.00	0.00
2,700.00	14.90	158.34	2,636.66	-480.25	190.73	478.47	0.00	0.00	0.00
2,800.00	14.90	158.34	2,733.29	-504.15	200.22	502.28	0.00	0.00	0.00
2,900.00	14.90	158.34	2,829.93	-528.05	209.71	526.08	0.00	0.00	0.00
3,000.00	14.90	158.34	2,926.57	-551.94	219.20	549.89	0.00	0.00	0.00
3,100.00	14.90	158.34	3,023.21	-575.84	228.69	573.70	0.00	0.00	0.00
3,200.00	14.90	158.34	3,119.84	-599.74	238.18	597.51	0.00	0.00	0.00
3,300.00	14.90	158.34	3,216.48	-623.64	247.67	621.32	0.00	0.00	0.00
3,400.00	14.90	158.34	3,313.12	-647.53	257.16	645.13	0.00	0.00	0.00
3,500.00	14.90	158.34	3,409.76	-671.43	266.65	668.94	0.00	0.00	0.00
3,600.00	14.90	158.34	3,506.39	-695.33	276.14	692.75	0.00	0.00	0.00
3,700.00	14.90	158.34	3,603.03	-719.23	285.63	716.55	0.00	0.00	0.00
3,800.00	14.90	158.34	3,699.67	-743.13	295.12	740.36	0.00	0.00	0.00
3,900.00	14.90	158.34	3,796.31	-767.02	304.62	764.17	0.00	0.00	0.00
4,000.00	14.90	158.34	3,892.95	-790.92	314.11	787.98	0.00	0.00	0.00
4,100.00	14.90	158.34	3,989.58	-814.82	323.60	811.79	0.00	0.00	0.00
4,200.00	14.90	158.34	4,086.22	-838.72	333.09	835.60	0.00	0.00	0.00
4,300.00	14.90	158.34	4,182.86	-862.61	342.58	859.41	0.00	0.00	0.00
4,400.00	14.90	158.34	4,279.50	-886.51	352.07	883.22	0.00	0.00	0.00
4,500.00	14.90	158.34	4,376.13	-910.41	361.56	907.03	0.00	0.00	0.00
4,600.00	14.90	158.34	4,472.77	-934.31	371.05	930.83	0.00	0.00	0.00

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Planning Report

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Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 4995.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 4995.00usft (RIG)
Site:	1N-65W-12 SAFI 1224 PAD	North Reference:	True
Well:	SAFI 1224-10H	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)
4,700.00	14.90	158.34	4,569.41	-958.20	380.54	954.64	0.00	0.00	0.00
4,800.00	14.90	158.34	4,666.05	-982.10	390.03	978.45	0.00	0.00	0.00
4,900.00	14.90	158.34	4,762.68	-1,006.00	399.52	1,002.26	0.00	0.00	0.00
5,000.00	14.90	158.34	4,859.32	-1,029.90	409.01	1,026.07	0.00	0.00	0.00
5,100.00	14.90	158.34	4,955.96	-1,053.80	418.50	1,049.88	0.00	0.00	0.00
5,200.00	14.90	158.34	5,052.60	-1,077.69	427.99	1,073.69	0.00	0.00	0.00
5,300.00	14.90	158.34	5,149.23	-1,101.59	437.49	1,097.50	0.00	0.00	0.00
5,400.00	14.90	158.34	5,245.87	-1,125.49	446.98	1,121.31	0.00	0.00	0.00
5,500.00	14.90	158.34	5,342.51	-1,149.39	456.47	1,145.11	0.00	0.00	0.00
5,600.00	14.90	158.34	5,439.15	-1,173.28	465.96	1,168.92	0.00	0.00	0.00
5,700.00	14.90	158.34	5,535.78	-1,197.18	475.45	1,192.73	0.00	0.00	0.00
5,800.00	14.90	158.34	5,632.42	-1,221.08	484.94	1,216.54	0.00	0.00	0.00
5,900.00	14.90	158.34	5,729.06	-1,244.98	494.43	1,240.35	0.00	0.00	0.00
6,000.00	14.90	158.34	5,825.70	-1,268.87	503.92	1,264.16	0.00	0.00	0.00
6,100.00	14.90	158.34	5,922.33	-1,292.77	513.41	1,287.97	0.00	0.00	0.00
6,200.00	14.90	158.34	6,018.97	-1,316.67	522.90	1,311.78	0.00	0.00	0.00
6,300.00	14.90	158.34	6,115.61	-1,340.57	532.39	1,335.59	0.00	0.00	0.00
6,400.00	14.90	158.34	6,212.25	-1,364.47	541.88	1,359.39	0.00	0.00	0.00
6,500.00	14.90	158.34	6,308.89	-1,388.36	551.37	1,383.20	0.00	0.00	0.00
6,600.00	14.90	158.34	6,405.52	-1,412.26	560.86	1,407.01	0.00	0.00	0.00
6,700.00	14.90	158.34	6,502.16	-1,436.16	570.36	1,430.82	0.00	0.00	0.00
6,757.15	14.90	158.34	6,557.39	-1,449.82	575.78	1,444.43	0.00	0.00	0.00
KOP @ 6757.15ft :: DLS = 9°/100'									
6,800.00	18.51	163.06	6,598.43	-1,461.45	579.80	1,456.02	9.00	8.43	11.03
6,900.00	27.20	169.25	6,690.50	-1,499.16	588.70	1,493.65	9.00	8.68	6.19
7,000.00	36.03	172.59	6,775.58	-1,550.89	596.77	1,545.30	9.00	8.83	3.34
7,100.00	44.92	174.74	6,851.58	-1,615.34	603.82	1,609.69	9.00	8.89	2.16
7,200.00	53.84	176.32	6,916.62	-1,690.94	609.66	1,685.23	9.00	8.92	1.57
7,300.00	62.78	177.56	6,969.10	-1,775.82	614.15	1,770.07	9.00	8.94	1.25
7,400.00	71.73	178.63	7,007.73	-1,867.90	617.18	1,862.11	9.00	8.95	1.06
7,500.00	80.68	179.58	7,031.55	-1,964.90	618.69	1,959.10	9.00	8.95	0.96
7,600.00	89.63	180.49	7,039.99	-2,064.44	618.62	2,058.63	9.00	8.95	0.91
7,604.11	90.00	180.53	7,040.00	-2,068.55	618.58	2,062.74	9.00	8.95	0.90
End Build @ 7604.11ft									
7,700.00	90.00	180.53	7,040.00	-2,164.44	617.70	2,158.63	0.00	0.00	0.00
7,800.00	90.00	180.53	7,040.00	-2,264.43	616.78	2,258.63	0.00	0.00	0.00
7,900.00	90.00	180.53	7,040.00	-2,364.43	615.86	2,358.63	0.00	0.00	0.00
8,000.00	90.00	180.53	7,040.00	-2,464.43	614.94	2,458.63	0.00	0.00	0.00
8,100.00	90.00	180.53	7,040.00	-2,564.42	614.02	2,558.63	0.00	0.00	0.00
8,200.00	90.00	180.53	7,040.00	-2,664.42	613.10	2,658.63	0.00	0.00	0.00
8,300.00	90.00	180.53	7,040.00	-2,764.41	612.18	2,758.63	0.00	0.00	0.00
8,400.00	90.00	180.53	7,040.00	-2,864.41	611.26	2,858.63	0.00	0.00	0.00
8,500.00	90.00	180.53	7,040.00	-2,964.40	610.34	2,958.63	0.00	0.00	0.00
8,600.00	90.00	180.53	7,040.00	-3,064.40	609.42	3,058.63	0.00	0.00	0.00
8,700.00	90.00	180.53	7,040.00	-3,164.40	608.50	3,158.63	0.00	0.00	0.00
8,800.00	90.00	180.53	7,040.00	-3,264.39	607.58	3,258.63	0.00	0.00	0.00
8,900.00	90.00	180.53	7,040.00	-3,364.39	606.66	3,358.63	0.00	0.00	0.00
9,000.00	90.00	180.53	7,040.00	-3,464.38	605.74	3,458.63	0.00	0.00	0.00
9,100.00	90.00	180.53	7,040.00	-3,564.38	604.82	3,558.63	0.00	0.00	0.00
9,200.00	90.00	180.53	7,040.00	-3,664.38	603.90	3,658.63	0.00	0.00	0.00
9,300.00	90.00	180.53	7,040.00	-3,764.37	602.98	3,758.63	0.00	0.00	0.00
9,400.00	90.00	180.53	7,040.00	-3,864.37	602.06	3,858.63	0.00	0.00	0.00
9,500.00	90.00	180.53	7,040.00	-3,964.36	601.14	3,958.63	0.00	0.00	0.00
9,600.00	90.00	180.53	7,040.00	-4,064.36	600.22	4,058.63	0.00	0.00	0.00

Hewlett-Packard

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well SAFI 1224-10H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 4995.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 4995.00usft (RIG)
Site:	1N-65W-12 SAFI 1224 PAD	North Reference:	True
Well:	SAFI 1224-10H	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)	
9,700.00	90.00	180.53	7,040.00	-4,164.35	599.30	4,158.63	0.00	0.00	0.00	
9,800.00	90.00	180.53	7,040.00	-4,264.35	598.38	4,258.63	0.00	0.00	0.00	
9,900.00	90.00	180.53	7,040.00	-4,364.35	597.46	4,358.63	0.00	0.00	0.00	
10,000.00	90.00	180.53	7,040.00	-4,464.34	596.54	4,458.63	0.00	0.00	0.00	
10,100.00	90.00	180.53	7,040.00	-4,564.34	595.62	4,558.63	0.00	0.00	0.00	
10,200.00	90.00	180.53	7,040.00	-4,664.33	594.70	4,658.63	0.00	0.00	0.00	
10,300.00	90.00	180.53	7,040.00	-4,764.33	593.78	4,758.63	0.00	0.00	0.00	
10,400.00	90.00	180.53	7,040.00	-4,864.32	592.86	4,858.63	0.00	0.00	0.00	
10,500.00	90.00	180.53	7,040.00	-4,964.32	591.94	4,958.63	0.00	0.00	0.00	
10,600.00	90.00	180.53	7,040.00	-5,064.32	591.02	5,058.63	0.00	0.00	0.00	
10,700.00	90.00	180.53	7,040.00	-5,164.31	590.10	5,158.63	0.00	0.00	0.00	
10,800.00	90.00	180.53	7,040.00	-5,264.31	589.18	5,258.63	0.00	0.00	0.00	
10,900.00	90.00	180.53	7,040.00	-5,364.30	588.26	5,358.63	0.00	0.00	0.00	
11,000.00	90.00	180.53	7,040.00	-5,464.30	587.34	5,458.63	0.00	0.00	0.00	
11,100.00	90.00	180.53	7,040.00	-5,564.29	586.42	5,558.63	0.00	0.00	0.00	
11,200.00	90.00	180.53	7,040.00	-5,664.29	585.50	5,658.63	0.00	0.00	0.00	
11,300.00	90.00	180.53	7,040.00	-5,764.29	584.58	5,758.63	0.00	0.00	0.00	
11,400.00	90.00	180.53	7,040.00	-5,864.28	583.66	5,858.63	0.00	0.00	0.00	
11,500.00	90.00	180.53	7,040.00	-5,964.28	582.74	5,958.63	0.00	0.00	0.00	
11,600.00	90.00	180.53	7,040.00	-6,064.27	581.82	6,058.63	0.00	0.00	0.00	
11,700.00	90.00	180.53	7,040.00	-6,164.27	580.90	6,158.63	0.00	0.00	0.00	
11,800.00	90.00	180.53	7,040.00	-6,264.27	579.98	6,258.63	0.00	0.00	0.00	
11,900.00	90.00	180.53	7,040.00	-6,364.26	579.06	6,358.63	0.00	0.00	0.00	
12,000.00	90.00	180.53	7,040.00	-6,464.26	578.14	6,458.63	0.00	0.00	0.00	
12,100.00	90.00	180.53	7,040.00	-6,564.25	577.22	6,558.63	0.00	0.00	0.00	
12,200.00	90.00	180.53	7,040.00	-6,664.25	576.30	6,658.63	0.00	0.00	0.00	
12,300.00	90.00	180.53	7,040.00	-6,764.24	575.38	6,758.63	0.00	0.00	0.00	
12,400.00	90.00	180.53	7,040.00	-6,864.24	574.46	6,858.63	0.00	0.00	0.00	
12,500.00	90.00	180.53	7,040.00	-6,964.24	573.54	6,958.63	0.00	0.00	0.00	
12,600.00	90.00	180.53	7,040.00	-7,064.23	572.62	7,058.63	0.00	0.00	0.00	
12,700.00	90.00	180.53	7,040.00	-7,164.23	571.70	7,158.63	0.00	0.00	0.00	
12,800.00	90.00	180.53	7,040.00	-7,264.22	570.78	7,258.63	0.00	0.00	0.00	
12,900.00	90.00	180.53	7,040.00	-7,364.22	569.86	7,358.63	0.00	0.00	0.00	
13,000.00	90.00	180.53	7,040.00	-7,464.21	568.94	7,458.63	0.00	0.00	0.00	
13,100.00	90.00	180.53	7,040.00	-7,564.21	568.02	7,558.63	0.00	0.00	0.00	
13,200.00	90.00	180.53	7,040.00	-7,664.21	567.10	7,658.63	0.00	0.00	0.00	
13,300.00	90.00	180.53	7,040.00	-7,764.20	566.18	7,758.63	0.00	0.00	0.00	
13,307.17	90.00	180.53	7,040.00	-7,771.37	566.11	7,765.80	0.00	0.00	0.00	
TD Well @ 13307.17ft										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
1,730.75	1,700.00	9 5/8"		9-5/8	13-1/2

Hewlett-Packard
Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well SAFI 1224-10H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 4995.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 4995.00usft (RIG)
Site:	1N-65W-12 SAFI 1224 PAD	North Reference:	True
Well:	SAFI 1224-10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
320.00	320.00	0.00	0.00	Begin Nudge @ 320.00ft
1,065.00	1,056.63	-89.52	35.55	Hold Tangent @ 1065.00ft
6,757.15	6,557.39	-1,449.82	575.78	KOP @ 6757.15ft :: DLS = 9"/100'
7,604.11	7,040.00	-2,068.55	618.58	End Build @ 7604.11ft
13,307.17	7,040.00	-7,771.37	566.11	TD Well @ 13307.17ft