

VERDAD RESOURCES

WATTENBERG FIELD

9N-58W-34 SPEED GOAT FED PAD

SPEED GOAT FED 3432-09H

Plan C

Plan: Permit Rev-1

Standard Planning Report

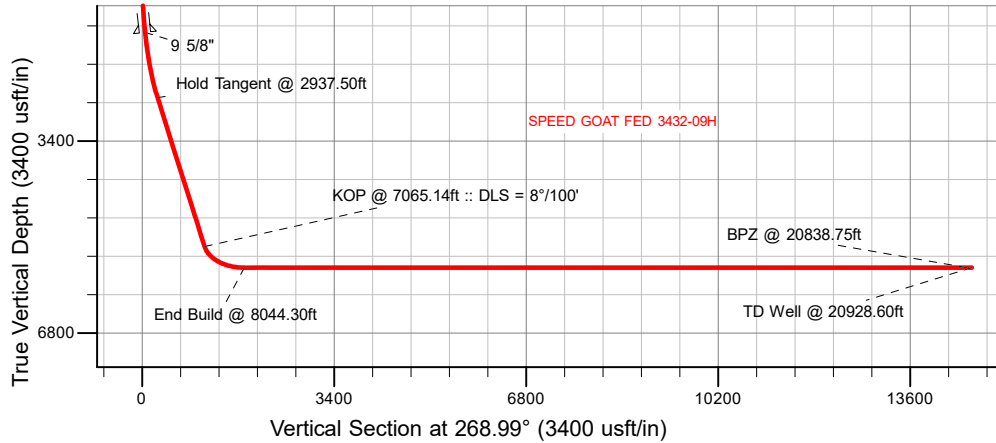
25 January, 2024

Project: WATTENBERG FIELD
Site: 9N-58W-34 SPEED GOAT FED PAD
Well: SPEED GOAT FED 3432-09H
Wellbore: Plan C
Design: Permit Rev-1

VERDAD RESOURCES

CASING DETAILS

TVD	MD	Name	Size
1474.00	1498.98	9 5/8"	9-5/8



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	425.00	0.00	0.00	425.00	0.00	0.00	0.00	0.00	0.00	
3	2937.50	50.25	194.24	2627.57	-1001.19	-254.08	2.00	194.24	271.69	
4	7065.14	50.25	194.24	5266.94	-4077.19	-1034.72	0.00	0.00	1106.42	
5	8044.30	90.00	268.99	5640.00	-4522.24	-1728.38	8.00	80.11	1807.82	
6	20928.60	90.00	268.99	5640.00	-4749.38	-14610.67	0.00	0.00	14692.12	SPEED GOAT FED 3432-09H_BHL

WELLBORE TARGET DETAILS (LAT/LONG)

Name	MD	TVD	Northing	Easting	Latitude	Longitude
SPEED GOAT FED 3432-09H_SHL	0.00	0.00	1507239.52	3459108.69	40.713994	-103.843789
SPEED GOAT FED 3432-09H_KOP	7065.14	5266.94	1503143.71	3458150.30	40.702803	-103.847521
SPEED GOAT FED 3432-09H_LP	8044.30	5640.00	1502685.78	3457465.07	40.701581	-103.850023
SPEED GOAT FED 3432-09H_BPZ	20838.75	5640.00	1502220.44	3444679.08	40.700948	-103.896159
SPEED GOAT FED 3432-09H_BHL	20928.60	5640.00	1502218.09	3444589.27	40.700946	-103.896483

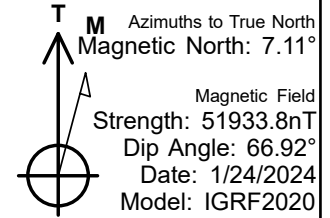
SHL
359' FNL
961' FEL

KOP
882' FSL
2031' FEL

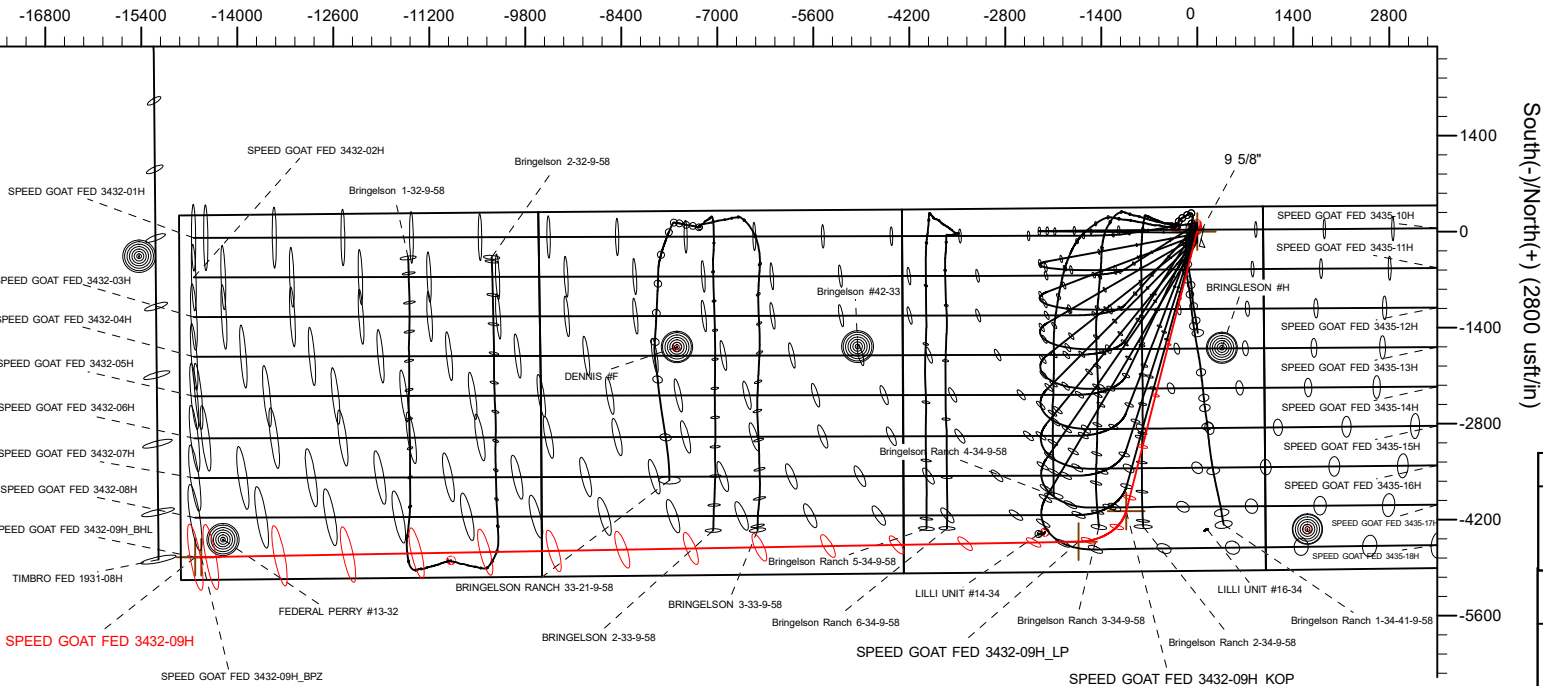
LP
444' FSL
2550' FWL

BPZ
330' FSL
300' FWL

BHL
330' FSL
210' FWL



West(-)/East(+) (2800 usft/in)



WELL DETAILS: SPEED GOAT FED 3432-09H

GL = 4724'
RKB = 20' @ 4744.00usft (RIG)

Plan: Permit Rev-1 (SPEED GOAT FED 3432-09H/Plan C)

Date: 1/25/2024

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well SPEED GOAT FED 3432-09H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 20' @ 4744.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 20' @ 4744.00usft (RIG)
Site:	9N-58W-34 SPEED GOAT FED PAD	North Reference:	True
Well:	SPEED GOAT FED 3432-09H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan C		
Design:	Permit Rev-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		9N-58W-34 SPEED GOAT FED PAD				
Site Position:		Northing:	1,507,367.36	usft	Latitude:	40.714345
From:	Lat/Long	Easting:	3,459,105.19	usft	Longitude:	-103.843793
Position Uncertainty:		0.00	usft	Slot Radius:	13-3/16	"

Well	SPEED GOAT FED 3432-09H					
Well Position	+N/-S	0.00 usft	Northing:	1,507,239.52 usft	Latitude:	40.713994
	+E/-W	0.00 usft	Easting:	3,459,108.69 usft	Longitude:	-103.843789
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft	Ground Level:	4,724.00 usft
Grid Convergence:		1.07 °				

Wellbore	Plan C				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF202013	1/24/2024	7.11	66.92	51,933.80959197

Design	Permit Rev-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	268.99

Plan Survey Tool Program		Date	1/25/2024		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	1,474.00	Permit Rev-1 (Plan C)	ISCWSA MWD	Fixed:v2:standard declination
2	1,474.00	20,928.60	Permit Rev-1 (Plan C)	ISCWSA MWD	Fixed:v2:standard declination

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Project:	WATTENBERG FIELD	MD Reference:	RKB = 20' @ 4744.00usft (RIG)
Site:	9N-58W-34 SPEED GOAT FED PAD	North Reference:	True
Well:	SPEED GOAT FED 3432-09H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan C		
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	
425.00	0.00	0.00	425.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,937.50	50.25	194.24	2,627.57	-1,001.19	-254.08	2.00	2.00	0.00	194.24	
7,065.14	50.25	194.24	5,266.94	-4,077.19	-1,034.72	0.00	0.00	0.00	0.00	
8,044.30	90.00	268.99	5,640.00	-4,522.24	-1,728.38	8.00	4.06	7.63	80.11	
20,928.60	90.00	268.99	5,640.00	-4,749.38	-14,610.67	0.00	0.00	0.00	0.00	SPEED GOAT FED 3

Planning Report

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Company:	VERDAD RESOURCES	TVD Reference:	RKB = 20' @ 4744.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 20' @ 4744.00usft (RIG)
Site:	9N-58W-34 SPEED GOAT FED PAD	North Reference:	True
Well:	SPEED GOAT FED 3432-09H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan C		
Design:	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
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
425.00	0.00	0.00	425.00	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 425.00ft									
500.00	1.50	194.24	499.99	-0.95	-0.24	0.26	2.00	2.00	0.00
600.00	3.50	194.24	599.89	-5.18	-1.31	1.41	2.00	2.00	0.00
700.00	5.50	194.24	699.58	-12.78	-3.24	3.47	2.00	2.00	0.00
800.00	7.50	194.24	798.93	-23.76	-6.03	6.45	2.00	2.00	0.00
900.00	9.50	194.24	897.83	-38.08	-9.66	10.33	2.00	2.00	0.00
1,000.00	11.50	194.24	996.15	-55.74	-14.15	15.13	2.00	2.00	0.00
1,100.00	13.50	194.24	1,093.77	-76.72	-19.47	20.82	2.00	2.00	0.00
1,200.00	15.50	194.24	1,190.58	-100.99	-25.63	27.41	2.00	2.00	0.00
1,300.00	17.50	194.24	1,286.46	-128.52	-32.62	34.88	2.00	2.00	0.00
1,400.00	19.50	194.24	1,381.29	-159.27	-40.42	43.22	2.00	2.00	0.00
1,498.98	21.48	194.24	1,474.00	-192.85	-48.94	52.33	2.00	2.00	0.00
9 5/8"									
1,500.00	21.50	194.24	1,474.95	-193.21	-49.03	52.43	2.00	2.00	0.00
1,600.00	23.50	194.24	1,567.33	-230.30	-58.45	62.50	2.00	2.00	0.00
1,700.00	25.50	194.24	1,658.32	-270.50	-68.65	73.40	2.00	2.00	0.00
1,800.00	27.50	194.24	1,747.81	-313.74	-79.62	85.14	2.00	2.00	0.00
1,900.00	29.50	194.24	1,835.69	-359.99	-91.36	97.69	2.00	2.00	0.00
2,000.00	31.50	194.24	1,921.85	-409.18	-103.84	111.04	2.00	2.00	0.00
2,100.00	33.50	194.24	2,006.18	-461.26	-117.06	125.17	2.00	2.00	0.00
2,200.00	35.50	194.24	2,088.59	-516.16	-130.99	140.07	2.00	2.00	0.00
2,300.00	37.50	194.24	2,168.97	-573.81	-145.62	155.71	2.00	2.00	0.00
2,400.00	39.50	194.24	2,247.23	-634.14	-160.93	172.09	2.00	2.00	0.00
2,500.00	41.50	194.24	2,323.27	-697.09	-176.91	189.17	2.00	2.00	0.00
2,600.00	43.50	194.24	2,396.99	-762.57	-193.53	206.94	2.00	2.00	0.00
2,700.00	45.50	194.24	2,468.31	-830.50	-210.77	225.37	2.00	2.00	0.00
2,800.00	47.50	194.24	2,537.14	-900.81	-228.61	244.45	2.00	2.00	0.00
2,900.00	49.50	194.24	2,603.40	-973.40	-247.03	264.15	2.00	2.00	0.00
2,937.50	50.25	194.24	2,627.57	-1,001.19	-254.08	271.69	2.00	2.00	0.00
Hold Tangent @ 2937.50ft									
3,000.00	50.25	194.24	2,667.53	-1,047.77	-265.90	284.33	0.00	0.00	0.00
3,100.00	50.25	194.24	2,731.48	-1,122.29	-284.82	304.56	0.00	0.00	0.00
3,200.00	50.25	194.24	2,795.42	-1,196.81	-303.73	324.78	0.00	0.00	0.00
3,300.00	50.25	194.24	2,859.37	-1,271.33	-322.64	345.00	0.00	0.00	0.00
3,400.00	50.25	194.24	2,923.31	-1,345.86	-341.55	365.22	0.00	0.00	0.00
3,500.00	50.25	194.24	2,987.25	-1,420.38	-360.47	385.45	0.00	0.00	0.00
3,600.00	50.25	194.24	3,051.20	-1,494.90	-379.38	405.67	0.00	0.00	0.00
3,700.00	50.25	194.24	3,115.14	-1,569.42	-398.29	425.89	0.00	0.00	0.00
3,800.00	50.25	194.24	3,179.09	-1,643.94	-417.20	446.12	0.00	0.00	0.00
3,900.00	50.25	194.24	3,243.03	-1,718.47	-436.12	466.34	0.00	0.00	0.00
4,000.00	50.25	194.24	3,306.97	-1,792.99	-455.03	486.56	0.00	0.00	0.00
4,100.00	50.25	194.24	3,370.92	-1,867.51	-473.94	506.78	0.00	0.00	0.00
4,200.00	50.25	194.24	3,434.86	-1,942.03	-492.85	527.01	0.00	0.00	0.00
4,300.00	50.25	194.24	3,498.81	-2,016.55	-511.76	547.23	0.00	0.00	0.00
4,400.00	50.25	194.24	3,562.75	-2,091.07	-530.68	567.45	0.00	0.00	0.00
4,500.00	50.25	194.24	3,626.69	-2,165.60	-549.59	587.68	0.00	0.00	0.00
4,600.00	50.25	194.24	3,690.64	-2,240.12	-568.50	607.90	0.00	0.00	0.00

Planning Report

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Project:	WATTENBERG FIELD	MD Reference:	RKB = 20' @ 4744.00usft (RIG)
Site:	9N-58W-34 SPEED GOAT FED PAD	North Reference:	True
Well:	SPEED GOAT FED 3432-09H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan C		
Design:	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	50.25	194.24	3,754.58	-2,314.64	-587.41	628.12	0.00	0.00	0.00
4,800.00	50.25	194.24	3,818.52	-2,389.16	-606.33	648.35	0.00	0.00	0.00
4,900.00	50.25	194.24	3,882.47	-2,463.68	-625.24	668.57	0.00	0.00	0.00
5,000.00	50.25	194.24	3,946.41	-2,538.21	-644.15	688.79	0.00	0.00	0.00
5,100.00	50.25	194.24	4,010.36	-2,612.73	-663.06	709.01	0.00	0.00	0.00
5,200.00	50.25	194.24	4,074.30	-2,687.25	-681.98	729.24	0.00	0.00	0.00
5,300.00	50.25	194.24	4,138.24	-2,761.77	-700.89	749.46	0.00	0.00	0.00
5,400.00	50.25	194.24	4,202.19	-2,836.29	-719.80	769.68	0.00	0.00	0.00
5,500.00	50.25	194.24	4,266.13	-2,910.82	-738.71	789.91	0.00	0.00	0.00
5,600.00	50.25	194.24	4,330.08	-2,985.34	-757.62	810.13	0.00	0.00	0.00
5,700.00	50.25	194.24	4,394.02	-3,059.86	-776.54	830.35	0.00	0.00	0.00
5,800.00	50.25	194.24	4,457.96	-3,134.38	-795.45	850.57	0.00	0.00	0.00
5,900.00	50.25	194.24	4,521.91	-3,208.90	-814.36	870.80	0.00	0.00	0.00
6,000.00	50.25	194.24	4,585.85	-3,283.42	-833.27	891.02	0.00	0.00	0.00
6,100.00	50.25	194.24	4,649.80	-3,357.95	-852.19	911.24	0.00	0.00	0.00
6,200.00	50.25	194.24	4,713.74	-3,432.47	-871.10	931.47	0.00	0.00	0.00
6,300.00	50.25	194.24	4,777.68	-3,506.99	-890.01	951.69	0.00	0.00	0.00
6,400.00	50.25	194.24	4,841.63	-3,581.51	-908.92	971.91	0.00	0.00	0.00
6,500.00	50.25	194.24	4,905.57	-3,656.03	-927.83	992.14	0.00	0.00	0.00
6,600.00	50.25	194.24	4,969.52	-3,730.56	-946.75	1,012.36	0.00	0.00	0.00
6,700.00	50.25	194.24	5,033.46	-3,805.08	-965.66	1,032.58	0.00	0.00	0.00
6,800.00	50.25	194.24	5,097.40	-3,879.60	-984.57	1,052.80	0.00	0.00	0.00
6,900.00	50.25	194.24	5,161.35	-3,954.12	-1,003.48	1,073.03	0.00	0.00	0.00
7,000.00	50.25	194.24	5,225.29	-4,028.64	-1,022.40	1,093.25	0.00	0.00	0.00
7,065.14	50.25	194.24	5,266.94	-4,077.19	-1,034.72	1,106.42	0.00	0.00	0.00
KOP @ 7065.14ft :: DLS = 8°/100'									
7,100.00	50.78	197.79	5,289.11	-4,103.04	-1,042.14	1,114.30	8.00	1.53	10.17
7,150.00	51.73	202.77	5,320.42	-4,139.60	-1,055.66	1,128.46	8.00	1.90	9.97
7,200.00	52.88	207.61	5,351.00	-4,175.37	-1,072.50	1,145.93	8.00	2.31	9.68
7,250.00	54.23	212.30	5,380.71	-4,210.20	-1,092.59	1,166.63	8.00	2.69	9.37
7,300.00	55.75	216.81	5,409.41	-4,243.90	-1,115.81	1,190.45	8.00	3.04	9.04
7,350.00	57.43	221.16	5,436.95	-4,276.32	-1,142.07	1,217.28	8.00	3.36	8.70
7,400.00	59.25	225.35	5,463.20	-4,307.29	-1,171.24	1,246.98	8.00	3.65	8.37
7,450.00	61.20	229.37	5,488.04	-4,336.67	-1,203.16	1,279.42	8.00	3.90	8.05
7,500.00	63.27	233.24	5,511.33	-4,364.31	-1,237.69	1,314.43	8.00	4.13	7.74
7,550.00	65.44	236.97	5,532.98	-4,390.07	-1,274.66	1,351.84	8.00	4.34	7.46
7,600.00	67.69	240.57	5,552.87	-4,413.84	-1,313.88	1,391.48	8.00	4.51	7.20
7,650.00	70.03	244.05	5,570.91	-4,435.50	-1,355.17	1,433.14	8.00	4.67	6.97
7,700.00	72.43	247.43	5,587.00	-4,454.93	-1,398.32	1,476.63	8.00	4.80	6.76
7,750.00	74.88	250.73	5,601.07	-4,472.05	-1,443.13	1,521.74	8.00	4.91	6.58
7,800.00	77.38	253.94	5,613.06	-4,486.77	-1,489.38	1,568.23	8.00	5.00	6.43
7,850.00	79.92	257.09	5,622.90	-4,499.02	-1,536.83	1,615.90	8.00	5.08	6.30
7,900.00	82.49	260.20	5,630.54	-4,508.74	-1,585.27	1,664.50	8.00	5.14	6.21
7,950.00	85.08	263.26	5,635.95	-4,515.89	-1,634.45	1,713.80	8.00	5.18	6.13
8,000.00	87.69	266.30	5,639.11	-4,520.42	-1,684.13	1,763.55	8.00	5.21	6.08
8,044.30	90.00	268.99	5,640.00	-4,522.24	-1,728.38	1,807.82	8.00	5.22	6.06
End Build @ 8044.30ft									
8,100.00	90.00	268.99	5,640.00	-4,523.22	-1,784.07	1,863.52	0.00	0.00	0.00
8,200.00	90.00	268.99	5,640.00	-4,524.99	-1,884.06	1,963.52	0.00	0.00	0.00
8,300.00	90.00	268.99	5,640.00	-4,526.75	-1,984.04	2,063.52	0.00	0.00	0.00
8,400.00	90.00	268.99	5,640.00	-4,528.51	-2,084.02	2,163.52	0.00	0.00	0.00
8,500.00	90.00	268.99	5,640.00	-4,530.28	-2,184.01	2,263.52	0.00	0.00	0.00
8,600.00	90.00	268.99	5,640.00	-4,532.04	-2,283.99	2,363.52	0.00	0.00	0.00
8,700.00	90.00	268.99	5,640.00	-4,533.80	-2,383.98	2,463.52	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well SPEED GOAT FED 3432-09H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 20' @ 4744.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 20' @ 4744.00usft (RIG)
Site:	9N-58W-34 SPEED GOAT FED PAD	North Reference:	True
Well:	SPEED GOAT FED 3432-09H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan C		
Design:	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)
8,800.00	90.00	268.99	5,640.00	-4,535.56	-2,483.96	2,563.52	0.00	0.00	0.00
8,900.00	90.00	268.99	5,640.00	-4,537.33	-2,583.95	2,663.52	0.00	0.00	0.00
9,000.00	90.00	268.99	5,640.00	-4,539.09	-2,683.93	2,763.52	0.00	0.00	0.00
9,100.00	90.00	268.99	5,640.00	-4,540.85	-2,783.92	2,863.52	0.00	0.00	0.00
9,200.00	90.00	268.99	5,640.00	-4,542.62	-2,883.90	2,963.52	0.00	0.00	0.00
9,300.00	90.00	268.99	5,640.00	-4,544.38	-2,983.88	3,063.52	0.00	0.00	0.00
9,400.00	90.00	268.99	5,640.00	-4,546.14	-3,083.87	3,163.52	0.00	0.00	0.00
9,500.00	90.00	268.99	5,640.00	-4,547.91	-3,183.85	3,263.52	0.00	0.00	0.00
9,600.00	90.00	268.99	5,640.00	-4,549.67	-3,283.84	3,363.52	0.00	0.00	0.00
9,700.00	90.00	268.99	5,640.00	-4,551.43	-3,383.82	3,463.52	0.00	0.00	0.00
9,800.00	90.00	268.99	5,640.00	-4,553.19	-3,483.81	3,563.52	0.00	0.00	0.00
9,900.00	90.00	268.99	5,640.00	-4,554.96	-3,583.79	3,663.52	0.00	0.00	0.00
10,000.00	90.00	268.99	5,640.00	-4,556.72	-3,683.78	3,763.52	0.00	0.00	0.00
10,100.00	90.00	268.99	5,640.00	-4,558.48	-3,783.76	3,863.52	0.00	0.00	0.00
10,200.00	90.00	268.99	5,640.00	-4,560.25	-3,883.75	3,963.52	0.00	0.00	0.00
10,300.00	90.00	268.99	5,640.00	-4,562.01	-3,983.73	4,063.52	0.00	0.00	0.00
10,400.00	90.00	268.99	5,640.00	-4,563.77	-4,083.71	4,163.52	0.00	0.00	0.00
10,500.00	90.00	268.99	5,640.00	-4,565.53	-4,183.70	4,263.52	0.00	0.00	0.00
10,600.00	90.00	268.99	5,640.00	-4,567.30	-4,283.68	4,363.52	0.00	0.00	0.00
10,700.00	90.00	268.99	5,640.00	-4,569.06	-4,383.67	4,463.52	0.00	0.00	0.00
10,800.00	90.00	268.99	5,640.00	-4,570.82	-4,483.65	4,563.52	0.00	0.00	0.00
10,900.00	90.00	268.99	5,640.00	-4,572.59	-4,583.64	4,663.52	0.00	0.00	0.00
11,000.00	90.00	268.99	5,640.00	-4,574.35	-4,683.62	4,763.52	0.00	0.00	0.00
11,100.00	90.00	268.99	5,640.00	-4,576.11	-4,783.61	4,863.52	0.00	0.00	0.00
11,200.00	90.00	268.99	5,640.00	-4,577.87	-4,883.59	4,963.52	0.00	0.00	0.00
11,300.00	90.00	268.99	5,640.00	-4,579.64	-4,983.57	5,063.52	0.00	0.00	0.00
11,400.00	90.00	268.99	5,640.00	-4,581.40	-5,083.56	5,163.52	0.00	0.00	0.00
11,500.00	90.00	268.99	5,640.00	-4,583.16	-5,183.54	5,263.52	0.00	0.00	0.00
11,600.00	90.00	268.99	5,640.00	-4,584.93	-5,283.53	5,363.52	0.00	0.00	0.00
11,700.00	90.00	268.99	5,640.00	-4,586.69	-5,383.51	5,463.52	0.00	0.00	0.00
11,800.00	90.00	268.99	5,640.00	-4,588.45	-5,483.50	5,563.52	0.00	0.00	0.00
11,900.00	90.00	268.99	5,640.00	-4,590.22	-5,583.48	5,663.52	0.00	0.00	0.00
12,000.00	90.00	268.99	5,640.00	-4,591.98	-5,683.47	5,763.52	0.00	0.00	0.00
12,100.00	90.00	268.99	5,640.00	-4,593.74	-5,783.45	5,863.52	0.00	0.00	0.00
12,200.00	90.00	268.99	5,640.00	-4,595.50	-5,883.43	5,963.52	0.00	0.00	0.00
12,300.00	90.00	268.99	5,640.00	-4,597.27	-5,983.42	6,063.52	0.00	0.00	0.00
12,400.00	90.00	268.99	5,640.00	-4,599.03	-6,083.40	6,163.52	0.00	0.00	0.00
12,500.00	90.00	268.99	5,640.00	-4,600.79	-6,183.39	6,263.52	0.00	0.00	0.00
12,600.00	90.00	268.99	5,640.00	-4,602.56	-6,283.37	6,363.52	0.00	0.00	0.00
12,700.00	90.00	268.99	5,640.00	-4,604.32	-6,383.36	6,463.52	0.00	0.00	0.00
12,800.00	90.00	268.99	5,640.00	-4,606.08	-6,483.34	6,563.52	0.00	0.00	0.00
12,900.00	90.00	268.99	5,640.00	-4,607.84	-6,583.33	6,663.52	0.00	0.00	0.00
13,000.00	90.00	268.99	5,640.00	-4,609.61	-6,683.31	6,763.52	0.00	0.00	0.00
13,100.00	90.00	268.99	5,640.00	-4,611.37	-6,783.29	6,863.52	0.00	0.00	0.00
13,200.00	90.00	268.99	5,640.00	-4,613.13	-6,883.28	6,963.52	0.00	0.00	0.00
13,300.00	90.00	268.99	5,640.00	-4,614.90	-6,983.26	7,063.52	0.00	0.00	0.00
13,400.00	90.00	268.99	5,640.00	-4,616.66	-7,083.25	7,163.52	0.00	0.00	0.00
13,500.00	90.00	268.99	5,640.00	-4,618.42	-7,183.23	7,263.52	0.00	0.00	0.00
13,600.00	90.00	268.99	5,640.00	-4,620.18	-7,283.22	7,363.52	0.00	0.00	0.00
13,700.00	90.00	268.99	5,640.00	-4,621.95	-7,383.20	7,463.52	0.00	0.00	0.00
13,800.00	90.00	268.99	5,640.00	-4,623.71	-7,483.19	7,563.52	0.00	0.00	0.00
13,900.00	90.00	268.99	5,640.00	-4,625.47	-7,583.17	7,663.52	0.00	0.00	0.00
14,000.00	90.00	268.99	5,640.00	-4,627.24	-7,683.15	7,763.52	0.00	0.00	0.00
14,100.00	90.00	268.99	5,640.00	-4,629.00	-7,783.14	7,863.52	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well SPEED GOAT FED 3432-09H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 20' @ 4744.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 20' @ 4744.00usft (RIG)
Site:	9N-58W-34 SPEED GOAT FED PAD	North Reference:	True
Well:	SPEED GOAT FED 3432-09H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan C		
Design:	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)
14,200.00	90.00	268.99	5,640.00	-4,630.76	-7,883.12	7,963.52	0.00	0.00	0.00
14,300.00	90.00	268.99	5,640.00	-4,632.52	-7,983.11	8,063.52	0.00	0.00	0.00
14,400.00	90.00	268.99	5,640.00	-4,634.29	-8,083.09	8,163.52	0.00	0.00	0.00
14,500.00	90.00	268.99	5,640.00	-4,636.05	-8,183.08	8,263.52	0.00	0.00	0.00
14,600.00	90.00	268.99	5,640.00	-4,637.81	-8,283.06	8,363.52	0.00	0.00	0.00
14,700.00	90.00	268.99	5,640.00	-4,639.58	-8,383.05	8,463.52	0.00	0.00	0.00
14,800.00	90.00	268.99	5,640.00	-4,641.34	-8,483.03	8,563.52	0.00	0.00	0.00
14,900.00	90.00	268.99	5,640.00	-4,643.10	-8,583.01	8,663.52	0.00	0.00	0.00
15,000.00	90.00	268.99	5,640.00	-4,644.87	-8,683.00	8,763.52	0.00	0.00	0.00
15,100.00	90.00	268.99	5,640.00	-4,646.63	-8,782.98	8,863.52	0.00	0.00	0.00
15,200.00	90.00	268.99	5,640.00	-4,648.39	-8,882.97	8,963.52	0.00	0.00	0.00
15,300.00	90.00	268.99	5,640.00	-4,650.15	-8,982.95	9,063.52	0.00	0.00	0.00
15,400.00	90.00	268.99	5,640.00	-4,651.92	-9,082.94	9,163.52	0.00	0.00	0.00
15,500.00	90.00	268.99	5,640.00	-4,653.68	-9,182.92	9,263.52	0.00	0.00	0.00
15,600.00	90.00	268.99	5,640.00	-4,655.44	-9,282.91	9,363.52	0.00	0.00	0.00
15,700.00	90.00	268.99	5,640.00	-4,657.21	-9,382.89	9,463.52	0.00	0.00	0.00
15,800.00	90.00	268.99	5,640.00	-4,658.97	-9,482.87	9,563.52	0.00	0.00	0.00
15,900.00	90.00	268.99	5,640.00	-4,660.73	-9,582.86	9,663.52	0.00	0.00	0.00
16,000.00	90.00	268.99	5,640.00	-4,662.49	-9,682.84	9,763.52	0.00	0.00	0.00
16,100.00	90.00	268.99	5,640.00	-4,664.26	-9,782.83	9,863.52	0.00	0.00	0.00
16,200.00	90.00	268.99	5,640.00	-4,666.02	-9,882.81	9,963.52	0.00	0.00	0.00
16,300.00	90.00	268.99	5,640.00	-4,667.78	-9,982.80	10,063.52	0.00	0.00	0.00
16,400.00	90.00	268.99	5,640.00	-4,669.55	-10,082.78	10,163.52	0.00	0.00	0.00
16,500.00	90.00	268.99	5,640.00	-4,671.31	-10,182.77	10,263.52	0.00	0.00	0.00
16,600.00	90.00	268.99	5,640.00	-4,673.07	-10,282.75	10,363.52	0.00	0.00	0.00
16,700.00	90.00	268.99	5,640.00	-4,674.83	-10,382.74	10,463.52	0.00	0.00	0.00
16,800.00	90.00	268.99	5,640.00	-4,676.60	-10,482.72	10,563.52	0.00	0.00	0.00
16,900.00	90.00	268.99	5,640.00	-4,678.36	-10,582.70	10,663.52	0.00	0.00	0.00
17,000.00	90.00	268.99	5,640.00	-4,680.12	-10,682.69	10,763.52	0.00	0.00	0.00
17,100.00	90.00	268.99	5,640.00	-4,681.89	-10,782.67	10,863.52	0.00	0.00	0.00
17,200.00	90.00	268.99	5,640.00	-4,683.65	-10,882.66	10,963.52	0.00	0.00	0.00
17,300.00	90.00	268.99	5,640.00	-4,685.41	-10,982.64	11,063.52	0.00	0.00	0.00
17,400.00	90.00	268.99	5,640.00	-4,687.18	-11,082.63	11,163.52	0.00	0.00	0.00
17,500.00	90.00	268.99	5,640.00	-4,688.94	-11,182.61	11,263.52	0.00	0.00	0.00
17,600.00	90.00	268.99	5,640.00	-4,690.70	-11,282.60	11,363.52	0.00	0.00	0.00
17,700.00	90.00	268.99	5,640.00	-4,692.46	-11,382.58	11,463.52	0.00	0.00	0.00
17,800.00	90.00	268.99	5,640.00	-4,694.23	-11,482.56	11,563.52	0.00	0.00	0.00
17,900.00	90.00	268.99	5,640.00	-4,695.99	-11,582.55	11,663.52	0.00	0.00	0.00
18,000.00	90.00	268.99	5,640.00	-4,697.75	-11,682.53	11,763.52	0.00	0.00	0.00
18,100.00	90.00	268.99	5,640.00	-4,699.52	-11,782.52	11,863.52	0.00	0.00	0.00
18,200.00	90.00	268.99	5,640.00	-4,701.28	-11,882.50	11,963.52	0.00	0.00	0.00
18,300.00	90.00	268.99	5,640.00	-4,703.04	-11,982.49	12,063.52	0.00	0.00	0.00
18,400.00	90.00	268.99	5,640.00	-4,704.80	-12,082.47	12,163.52	0.00	0.00	0.00
18,500.00	90.00	268.99	5,640.00	-4,706.57	-12,182.46	12,263.52	0.00	0.00	0.00
18,600.00	90.00	268.99	5,640.00	-4,708.33	-12,282.44	12,363.52	0.00	0.00	0.00
18,700.00	90.00	268.99	5,640.00	-4,710.09	-12,382.42	12,463.52	0.00	0.00	0.00
18,800.00	90.00	268.99	5,640.00	-4,711.86	-12,482.41	12,563.52	0.00	0.00	0.00
18,900.00	90.00	268.99	5,640.00	-4,713.62	-12,582.39	12,663.52	0.00	0.00	0.00
19,000.00	90.00	268.99	5,640.00	-4,715.38	-12,682.38	12,763.52	0.00	0.00	0.00
19,100.00	90.00	268.99	5,640.00	-4,717.14	-12,782.36	12,863.52	0.00	0.00	0.00
19,200.00	90.00	268.99	5,640.00	-4,718.91	-12,882.35	12,963.52	0.00	0.00	0.00
19,300.00	90.00	268.99	5,640.00	-4,720.67	-12,982.33	13,063.52	0.00	0.00	0.00
19,400.00	90.00	268.99	5,640.00	-4,722.43	-13,082.32	13,163.52	0.00	0.00	0.00
19,500.00	90.00	268.99	5,640.00	-4,724.20	-13,182.30	13,263.52	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well SPEED GOAT FED 3432-09H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 20' @ 4744.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 20' @ 4744.00usft (RIG)
Site:	9N-58W-34 SPEED GOAT FED PAD	North Reference:	True
Well:	SPEED GOAT FED 3432-09H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan C		
Design:	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)
19,600.00	90.00	268.99	5,640.00	-4,725.96	-13,282.28	13,363.52	0.00	0.00	0.00
19,700.00	90.00	268.99	5,640.00	-4,727.72	-13,382.27	13,463.52	0.00	0.00	0.00
19,800.00	90.00	268.99	5,640.00	-4,729.49	-13,482.25	13,563.52	0.00	0.00	0.00
19,900.00	90.00	268.99	5,640.00	-4,731.25	-13,582.24	13,663.52	0.00	0.00	0.00
20,000.00	90.00	268.99	5,640.00	-4,733.01	-13,682.22	13,763.52	0.00	0.00	0.00
20,100.00	90.00	268.99	5,640.00	-4,734.77	-13,782.21	13,863.52	0.00	0.00	0.00
20,200.00	90.00	268.99	5,640.00	-4,736.54	-13,882.19	13,963.52	0.00	0.00	0.00
20,300.00	90.00	268.99	5,640.00	-4,738.30	-13,982.18	14,063.52	0.00	0.00	0.00
20,400.00	90.00	268.99	5,640.00	-4,740.06	-14,082.16	14,163.52	0.00	0.00	0.00
20,500.00	90.00	268.99	5,640.00	-4,741.83	-14,182.14	14,263.52	0.00	0.00	0.00
20,600.00	90.00	268.99	5,640.00	-4,743.59	-14,282.13	14,363.52	0.00	0.00	0.00
20,700.00	90.00	268.99	5,640.00	-4,745.35	-14,382.11	14,463.52	0.00	0.00	0.00
20,800.00	90.00	268.99	5,640.00	-4,747.11	-14,482.10	14,563.52	0.00	0.00	0.00
20,838.75	90.00	268.99	5,640.00	-4,747.80	-14,520.84	14,602.27	0.00	0.00	0.00
BPZ @ 20838.75ft									
20,900.00	90.00	268.99	5,640.00	-4,748.88	-14,582.08	14,663.52	0.00	0.00	0.00
20,928.60	90.00	268.99	5,640.00	-4,749.38	-14,610.67	14,692.12	0.00	0.00	0.00
TD Well @ 20928.60ft									

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,498.98	1,474.00	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)	
425.00	425.00	0.00	0.00	Begin Nudge @ 425.00ft
2,937.50	2,627.57	-1,001.19	-254.08	Hold Tangent @ 2937.50ft
7,065.14	5,266.94	-4,077.19	-1,034.72	KOP @ 7065.14ft :: DLS = 8°/100'
8,044.30	5,640.00	-4,522.24	-1,728.38	End Build @ 8044.30ft
20,838.75	5,640.00	-4,747.80	-14,520.84	BPZ @ 20838.75ft
20,928.60	5,640.00	-4,749.38	-14,610.67	TD Well @ 20928.60ft