

Titan Directional Drilling

Survey Report

Company:	Ridgeway Arizona Oil Corp.	Local Co-ordinate Reference:	Well #942H
Project:	Permian NM E'83	TVD Reference:	GL+KB @ 4372.00usft (Strata Scout #1)
Site:	Morrison SAU #942H	MD Reference:	GL+KB @ 4372.00usft (Strata Scout #1)
Well:	#942H	North Reference:	Grid
Wellbore:	#942H OH	Survey Calculation Method:	Minimum Curvature
Design:	#942H OH	Database:	EDM 5k-14

Project	Permian NM E'83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site	Morrison SAU #942H, Centered on prelim stake ~400' south of pipeline		
Site Position:		Northing:	1,019,686.99 usft
From:	Map	Easting:	802,610.07 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	33° 47' 59.803 N
		Longitude:	103° 28' 23.788 W
		Grid Convergence:	0.48 °

Well	#942H		
Well Position	+N-S	0.00 usft	Northing: 1,019,704.00 usft
	+E-W	0.00 usft	Easting: 802,601.60 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	33° 47' 59.972 N
		Longitude:	103° 28' 23.887 W
		Ground Level:	4,354.00 usft

Wellbore	#942H OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	02/25/19	6.84	61.48	48,692.28015804

Design	#942H OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)	
	0.00	0.00	0.00	359.32	

Survey Program	Date 03/14/19			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
115.10	2,243.00	Survey #1 (#942H OH)	GYRO-NS	Gyrocompass Gyro
2,377.00	4,926.00	Survey #2 (#942H OH)	MWD	MWD - Standard
4,998.00	11,301.00	Survey #3 (#942H OH)	MWD	MWD - Standard
11,379.00	11,379.00	Projection (#942H OH)	ZERO-ERROR	Zero Error

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	
Morrison 942H SL										
115.10	0.28	150.84	115.10	-0.25	0.14	-0.25	0.24	0.24	0.00	
208.95	0.20	144.26	208.95	-0.58	0.34	-0.58	0.09	-0.09	-7.01	
302.80	0.35	132.97	302.80	-0.91	0.65	-0.91	0.17	0.16	-12.03	
396.65	0.18	152.46	396.65	-1.23	0.93	-1.24	0.20	-0.18	20.77	
490.50	0.33	163.67	490.50	-1.62	1.07	-1.64	0.17	0.16	11.94	
584.35	0.04	179.89	584.35	-1.92	1.15	-1.93	0.31	-0.31	17.28	

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Site:	Morrison SAU #942H	MD Reference:	GL+KB @ 4372.00usft (Strata Scout #1)
Well:	#942H	North Reference:	Grid
Wellbore:	#942H OH	Survey Calculation Method:	Minimum Curvature
Design:	#942H OH	Database:	EDM 5k-14

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
678.20	0.27	232.89	678.19	-2.08	0.97	-2.09	0.26	0.25	56.47
772.05	0.23	281.47	772.04	-2.18	0.61	-2.18	0.22	-0.04	51.76
865.90	0.23	282.95	865.89	-2.10	0.24	-2.10	0.01	0.00	1.58
959.75	0.24	304.84	959.74	-1.94	-0.10	-1.94	0.10	0.01	23.32
1,053.60	0.41	316.17	1,053.59	-1.59	-0.50	-1.58	0.19	0.18	12.07
1,147.45	0.19	307.28	1,147.44	-1.25	-0.85	-1.24	0.24	-0.23	-9.47
1,241.30	0.26	285.32	1,241.29	-1.07	-1.17	-1.05	0.09	0.07	-12.74
1,335.15	0.31	271.39	1,335.14	-0.97	-1.62	-0.95	0.14	0.05	-25.50
1,429.00	0.41	244.82	1,428.99	-1.11	-2.17	-1.08	0.20	0.11	-28.31
1,522.85	0.35	193.74	1,522.83	-1.53	-2.54	-1.50	0.35	-0.06	-54.43
1,616.70	0.09	199.89	1,616.68	-1.88	-2.64	-1.84	0.28	-0.28	6.55
1,710.55	0.12	204.86	1,710.53	-2.03	-2.70	-2.00	0.03	0.03	5.30
1,804.40	0.20	198.71	1,804.38	-2.28	-2.80	-2.25	0.09	0.09	-6.55
1,898.25	0.14	135.66	1,898.23	-2.52	-2.77	-2.48	0.20	-0.06	-67.18
1,992.10	0.32	102.77	1,992.08	-2.66	-2.43	-2.63	0.23	0.19	-35.05
2,085.95	0.43	92.09	2,085.93	-2.73	-1.83	-2.70	0.14	0.12	-11.38
2,179.80	0.61	78.93	2,179.78	-2.64	-0.99	-2.63	0.23	0.19	-14.02
2,243.00	0.56	87.97	2,242.97	-2.57	-0.35	-2.56	0.17	-0.08	14.30
2,290.00	0.96	88.36	2,289.97	-2.55	0.28	-2.55	0.85	0.85	0.83
9 5/8"									
2,377.00	1.70	88.60	2,376.94	-2.50	2.30	-2.52	0.85	0.85	0.27
2,467.00	1.50	101.30	2,466.91	-2.69	4.78	-2.75	0.45	-0.22	14.11
2,558.00	1.90	112.20	2,557.87	-3.50	7.35	-3.58	0.56	0.44	11.98
2,649.00	1.30	80.90	2,648.84	-3.90	9.77	-4.02	1.14	-0.66	-34.40
2,740.00	0.90	64.00	2,739.82	-3.43	11.43	-3.56	0.56	-0.44	-18.57
2,830.00	1.20	65.10	2,829.80	-2.72	12.92	-2.87	0.33	0.33	1.22
2,926.00	1.30	79.30	2,925.78	-2.10	14.90	-2.27	0.34	0.10	14.79
3,021.00	1.30	66.50	3,020.76	-1.47	16.95	-1.67	0.31	0.00	-13.47
3,116.00	0.90	57.00	3,115.74	-0.63	18.56	-0.85	0.46	-0.42	-10.00
3,211.00	0.90	48.00	3,210.73	0.28	19.74	0.04	0.15	0.00	-9.47
3,243.00	2.20	12.90	3,242.72	1.04	20.06	0.80	4.85	4.06	-109.69
3,275.00	4.70	3.70	3,274.65	2.95	20.29	2.71	7.98	7.81	-28.75
3,307.00	7.60	0.90	3,306.47	6.37	20.40	6.13	9.11	9.06	-8.75
3,339.00	10.60	0.60	3,338.06	11.44	20.47	11.19	9.38	9.38	-0.94
3,371.00	13.50	0.90	3,369.35	18.11	20.56	17.87	9.06	9.06	0.94
3,402.00	16.40	0.40	3,399.30	26.11	20.65	25.86	9.36	9.35	-1.61
3,434.00	19.30	359.30	3,429.76	35.92	20.61	35.67	9.12	9.06	-3.44
3,466.00	21.90	358.60	3,459.71	47.17	20.40	46.93	8.16	8.13	-2.19
3,498.00	24.20	358.30	3,489.15	59.70	20.06	59.45	7.20	7.19	-0.94
3,530.00	26.30	358.40	3,518.09	73.34	19.67	73.10	6.56	6.56	0.31
3,562.00	27.80	358.40	3,546.59	87.89	19.26	87.65	4.69	4.69	0.00
3,594.00	29.60	357.90	3,574.66	103.25	18.76	103.02	5.67	5.63	-1.56
3,626.00	31.50	357.60	3,602.22	119.50	18.12	119.27	5.96	5.94	-0.94
3,657.00	33.50	357.60	3,628.36	136.14	17.43	135.92	6.45	6.45	0.00

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Wellbore:	#942H OH	Survey Calculation Method:	Minimum Curvature
Design:	#942H OH	Database:	EDM 5k-14

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)
3,689.00	35.10	358.10	3,654.79	154.16	16.75	153.95	5.08	5.00	1.56
3,721.00	37.40	358.60	3,680.60	173.07	16.21	172.87	7.25	7.19	1.56
3,752.00	39.40	359.20	3,704.89	192.32	15.84	192.12	6.56	6.45	1.94
3,784.00	41.50	359.70	3,729.24	213.08	15.65	212.88	6.64	6.56	1.56
3,816.00	44.10	0.00	3,752.72	234.82	15.59	234.62	8.15	8.13	0.94
3,847.00	46.90	359.90	3,774.44	256.93	15.57	256.73	9.04	9.03	-0.32
3,879.00	49.60	359.70	3,795.75	280.80	15.49	280.60	8.45	8.44	-0.63
3,911.00	52.10	359.20	3,815.95	305.61	15.25	305.41	7.91	7.81	-1.56
3,943.00	55.00	358.80	3,834.96	331.35	14.79	331.15	9.12	9.06	-1.25
3,975.00	58.10	358.80	3,852.60	358.04	14.24	357.84	9.69	9.69	0.00
3,986.00	58.74	358.87	3,858.36	367.41	14.05	367.21	5.83	5.81	0.65
Tangent 1 Start									
4,006.00	59.90	359.00	3,868.56	384.60	13.73	384.41	5.83	5.81	0.64
4,038.00	60.10	359.00	3,884.56	412.31	13.24	412.13	0.63	0.63	0.00
4,070.00	60.50	359.20	3,900.42	440.10	12.81	439.92	1.36	1.25	0.63
4,101.00	60.80	359.00	3,915.61	467.12	12.38	466.94	1.12	0.97	-0.65
4,133.00	61.40	358.80	3,931.08	495.13	11.84	494.96	1.95	1.88	-0.63
4,165.00	62.00	359.00	3,946.25	523.30	11.30	523.13	1.95	1.88	0.63
4,196.00	62.60	359.00	3,960.66	550.74	10.82	550.58	1.94	1.94	0.00
4,226.00	64.76	358.81	3,973.96	577.63	10.31	577.46	7.21	7.19	-0.63
Tangent 1 End									
4,228.00	64.90	358.80	3,974.81	579.44	10.27	579.27	7.21	7.19	-0.61
4,260.00	68.00	358.40	3,987.60	608.76	9.55	608.60	9.76	9.69	-1.25
4,292.00	71.10	358.60	3,998.77	638.73	8.77	638.58	9.71	9.69	0.63
4,323.00	73.50	359.00	4,008.20	668.25	8.15	668.11	7.84	7.74	1.29
4,355.00	76.20	359.20	4,016.56	699.13	7.67	698.99	8.46	8.44	0.63
4,387.00	79.00	359.50	4,023.43	730.38	7.31	730.24	8.80	8.75	0.94
4,419.00	81.20	359.90	4,028.93	761.90	7.15	761.76	6.98	6.88	1.25
4,450.00	83.20	0.00	4,033.14	792.61	7.12	792.47	6.46	6.45	0.32
4,482.00	85.30	0.20	4,036.35	824.45	7.18	824.31	6.59	6.56	0.63
4,513.00	87.50	0.60	4,038.29	855.39	7.39	855.24	7.21	7.10	1.29
4,534.00	88.72	0.67	4,038.99	876.37	7.63	876.22	5.82	5.81	0.32
Tangent 2 Start									
4,544.00	89.30	0.70	4,039.16	886.37	7.75	886.22	5.82	5.81	0.32
4,576.00	89.80	0.90	4,039.41	918.37	8.19	918.21	1.68	1.56	0.63
4,607.00	90.10	0.90	4,039.44	949.36	8.68	949.19	0.97	0.97	0.00
4,640.00	90.60	0.90	4,039.24	982.36	9.20	982.18	1.52	1.52	0.00
4,671.00	91.10	0.70	4,038.78	1,013.35	9.63	1,013.17	1.74	1.61	-0.65
4,703.00	91.70	0.60	4,037.99	1,045.34	9.99	1,045.15	1.90	1.88	-0.31
4,707.50	91.73	0.54	4,037.86	1,049.84	10.04	1,049.65	1.40	0.63	-1.25
S9 Entry - 942H S9 Entry									
4,735.00	91.90	0.20	4,036.99	1,077.32	10.22	1,077.13	1.40	0.62	-1.25
4,767.00	91.50	0.00	4,036.04	1,109.31	10.27	1,109.11	1.40	-1.25	-0.63
4,768.56	91.46	359.98	4,036.00	1,110.87	10.27	1,110.67	2.86	-2.38	-1.59

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Site:	Morrison SAU #942H	MD Reference:	GL+KB @ 4372.00usft (Strata Scout #1)
Well:	#942H	North Reference:	Grid
Wellbore:	#942H OH	Survey Calculation Method:	Minimum Curvature
Design:	#942H OH	Database:	EDM 5k-14

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)
7" *									
4,790.00	90.95	359.63	4,035.55	1,132.30	10.20	1,132.10	2.86	-2.38	-1.59
Tangent 2 End									
4,830.00	90.00	359.00	4,035.21	1,172.30	9.72	1,172.10	2.86	-2.38	-1.59
4,926.00	91.30	358.10	4,034.13	1,268.26	7.29	1,268.08	1.65	1.35	-0.94
4,998.00	90.90	358.70	4,032.74	1,340.22	5.28	1,340.06	1.00	-0.56	0.83
5,094.00	89.50	0.40	4,032.41	1,436.21	4.53	1,436.05	2.29	-1.46	1.77
5,189.00	88.90	0.10	4,033.73	1,531.20	4.94	1,531.03	0.71	-0.63	-0.32
5,284.00	88.20	0.10	4,036.14	1,626.17	5.11	1,625.99	0.74	-0.74	0.00
5,379.00	89.70	359.40	4,037.88	1,721.15	4.70	1,720.97	1.74	1.58	-0.74
5,473.00	89.20	359.20	4,038.78	1,815.13	3.55	1,814.96	0.57	-0.53	-0.21
5,569.00	89.10	359.20	4,040.21	1,911.11	2.21	1,910.95	0.10	-0.10	0.00
5,663.00	90.50	358.90	4,040.53	2,005.10	0.65	2,004.95	1.52	1.49	-0.32
5,758.00	90.90	359.20	4,039.37	2,100.08	-0.93	2,099.94	0.53	0.42	0.32
5,853.00	90.50	358.90	4,038.21	2,195.06	-2.50	2,194.93	0.53	-0.42	-0.32
5,948.00	90.10	358.70	4,037.72	2,290.04	-4.49	2,289.93	0.47	-0.42	-0.21
6,043.00	90.00	358.50	4,037.63	2,385.01	-6.81	2,384.92	0.24	-0.11	-0.21
6,138.00	89.80	358.80	4,037.80	2,479.98	-9.05	2,479.91	0.38	-0.21	0.32
6,233.00	89.60	359.70	4,038.30	2,574.97	-10.29	2,574.91	0.97	-0.21	0.95
6,328.00	88.40	359.00	4,039.95	2,669.95	-11.37	2,669.89	1.46	-1.26	-0.74
6,423.00	88.20	358.70	4,042.77	2,764.89	-13.28	2,764.85	0.38	-0.21	-0.32
6,518.00	88.00	359.80	4,045.92	2,859.82	-14.52	2,859.80	1.18	-0.21	1.16
6,612.00	89.10	359.20	4,048.30	2,953.79	-15.34	2,953.76	1.33	1.17	-0.64
6,707.00	89.20	359.10	4,049.71	3,048.77	-16.75	3,048.75	0.15	0.11	-0.11
6,802.00	88.70	358.50	4,051.45	3,143.73	-18.74	3,143.73	0.82	-0.53	-0.63
6,897.00	89.20	359.20	4,053.19	3,238.69	-20.64	3,238.71	0.91	0.53	0.74
6,992.00	89.10	359.60	4,054.60	3,333.68	-21.64	3,333.70	0.43	-0.11	0.42
7,087.00	88.70	359.40	4,056.42	3,428.66	-22.47	3,428.68	0.47	-0.42	-0.21
7,182.00	88.70	359.90	4,058.58	3,523.63	-23.05	3,523.66	0.53	0.00	0.53
7,277.00	89.10	0.30	4,060.40	3,618.61	-22.88	3,618.63	0.60	0.42	0.42
7,371.00	90.10	359.70	4,061.06	3,712.61	-22.88	3,712.62	1.24	1.06	-0.64
7,467.00	89.90	359.30	4,061.06	3,808.60	-23.72	3,808.62	0.47	-0.21	-0.42
7,562.00	90.30	359.20	4,060.89	3,903.60	-24.96	3,903.62	0.43	0.42	-0.11
7,657.00	90.50	359.20	4,060.23	3,998.58	-26.29	3,998.62	0.21	0.21	0.00
7,752.00	90.80	359.30	4,059.15	4,093.57	-27.53	4,093.61	0.33	0.32	0.11
7,847.00	90.90	359.20	4,057.74	4,188.55	-28.78	4,188.60	0.15	0.11	-0.11
7,942.00	90.20	359.20	4,056.83	4,283.54	-30.10	4,283.59	0.74	-0.74	0.00
8,037.00	89.80	359.30	4,056.83	4,378.53	-31.35	4,378.59	0.43	-0.42	0.11
8,133.00	90.20	359.10	4,056.83	4,474.52	-32.69	4,474.59	0.47	0.42	-0.21
8,228.00	89.80	358.60	4,056.83	4,569.50	-34.59	4,569.59	0.67	-0.42	-0.53
8,318.00	90.40	359.10	4,056.67	4,659.48	-36.40	4,659.58	0.87	0.67	0.56
8,408.00	89.70	358.10	4,056.60	4,749.45	-38.60	4,749.58	1.36	-0.78	-1.11
8,499.00	89.90	358.70	4,056.91	4,840.42	-41.14	4,840.56	0.70	0.22	0.66

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Company:	Ridgeway Arizona Oil Corp.	Local Co-ordinate Reference:	Well #942H
Project:	Permian NM E'83	TVD Reference:	GL+KB @ 4372.00usft (Strata Scout #1)
Site:	Morrison SAU #942H	MD Reference:	GL+KB @ 4372.00usft (Strata Scout #1)
Well:	#942H	North Reference:	Grid
Wellbore:	#942H OH	Survey Calculation Method:	Minimum Curvature
Design:	#942H OH	Database:	EDM 5k-14

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
8,590.00	91.20	359.60	4,056.04	4,931.40	-42.49	4,931.56	1.74	1.43	0.99
8,680.00	91.00	359.80	4,054.31	5,021.38	-42.96	5,021.54	0.31	-0.22	0.22
8,770.00	90.30	359.40	4,053.29	5,111.37	-43.59	5,111.53	0.90	-0.78	-0.44
8,861.00	90.40	359.80	4,052.74	5,202.37	-44.22	5,202.53	0.45	0.11	0.44
8,951.00	89.80	358.70	4,052.58	5,292.36	-45.40	5,292.52	1.39	-0.67	-1.22
9,042.00	90.40	359.70	4,052.42	5,383.35	-46.67	5,383.52	1.28	0.66	1.10
9,132.00	90.90	358.50	4,051.40	5,473.33	-48.09	5,473.51	1.44	0.56	-1.33
9,222.00	90.50	357.60	4,050.30	5,563.27	-51.15	5,563.48	1.09	-0.44	-1.00
9,313.00	90.10	358.20	4,049.82	5,654.21	-54.48	5,654.45	0.79	-0.44	0.66
9,403.00	89.60	359.30	4,050.06	5,744.18	-56.45	5,744.45	1.34	-0.56	1.22
9,494.00	90.20	359.50	4,050.22	5,835.18	-57.40	5,835.45	0.70	0.66	0.22
9,585.00	89.80	358.60	4,050.22	5,926.16	-58.91	5,926.45	1.08	-0.44	-0.99
9,679.00	90.80	359.20	4,049.72	6,020.14	-60.71	6,020.44	1.24	1.06	0.64
9,775.00	90.50	358.40	4,048.64	6,116.12	-62.72	6,116.43	0.89	-0.31	-0.83
9,871.00	89.70	357.20	4,048.47	6,212.04	-66.41	6,212.39	1.50	-0.83	-1.25
9,966.00	90.10	357.90	4,048.63	6,306.95	-70.47	6,307.35	0.85	0.42	0.74
9,983.80	89.86	357.88	4,048.64	6,324.74	-71.12	6,325.14	1.36	-1.35	-0.10
S4 Entry - 942H S4 Entry									
10,062.00	88.80	357.80	4,049.56	6,402.88	-74.07	6,403.31	1.36	-1.35	-0.10
10,157.00	90.30	357.80	4,050.30	6,497.80	-77.72	6,498.27	1.58	1.58	0.00
10,252.00	91.40	358.90	4,048.89	6,592.75	-80.45	6,593.24	1.64	1.16	1.16
10,348.00	91.50	359.40	4,046.46	6,688.71	-81.88	6,689.21	0.53	0.10	0.52
10,444.00	90.30	359.90	4,044.96	6,784.69	-82.46	6,785.19	1.35	-1.25	0.52
10,541.00	90.40	359.40	4,044.36	6,881.69	-83.05	6,882.19	0.53	0.10	-0.52
10,636.00	90.30	0.40	4,043.78	6,976.69	-83.22	6,977.18	1.06	-0.11	1.05
10,731.00	91.00	0.30	4,042.70	7,071.68	-82.64	7,072.16	0.74	0.74	-0.11
10,826.00	90.10	0.40	4,041.79	7,166.67	-82.06	7,167.14	0.95	-0.95	0.11
10,921.00	90.20	0.50	4,041.54	7,261.67	-81.31	7,262.12	0.15	0.11	0.11
11,015.00	90.00	0.20	4,041.38	7,355.67	-80.74	7,356.11	0.38	-0.21	-0.32
11,111.00	90.00	359.50	4,041.38	7,451.67	-80.99	7,452.10	0.73	0.00	-0.73
11,206.00	90.20	359.30	4,041.21	7,546.66	-81.99	7,547.10	0.30	0.21	-0.21
11,273.30	89.99	358.80	4,041.10	7,613.95	-83.10	7,614.40	0.80	-0.32	-0.74
100'FNL Exit - 942H 100'FNL Exit									
11,301.00	89.90	358.60	4,041.13	7,641.64	-83.73	7,642.10	0.80	-0.32	-0.74
11,369.00	89.90	358.60	4,041.25	7,709.62	-85.39	7,710.09	0.00	0.00	0.00
5 1/2"									
11,373.30	89.90	358.60	4,041.26	7,713.92	-85.49	7,714.39	0.00	0.00	0.00
S4 Exit - 942H S4 Exit									
11,379.00	89.90	358.60	4,041.27	7,719.62	-85.63	7,720.09	0.00	0.00	0.00
Morrison 942H BHL									

Titan Directional Drilling Survey Report

Company:	Ridgeway Arizona Oil Corp.	Local Co-ordinate Reference:	Well #942H
Project:	Permian NM E'83	TVD Reference:	GL+KB @ 4372.00usft (Strata Scout #1)
Site:	Morrison SAU #942H	MD Reference:	GL+KB @ 4372.00usft (Strata Scout #1)
Well:	#942H	North Reference:	Grid
Wellbore:	#942H OH	Survey Calculation Method:	Minimum Curvature
Design:	#942H OH	Database:	EDM 5k-14

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Morrison 942H SL - actual wellpath hits target center - Point	0.00	0.00	0.00	0.00	0.00	1,019,704.00	802,601.60	33° 47' 59.972 N	103° 28' 23.887 W
942H S9 Entry - actual wellpath hits target center - Point	0.00	0.00	4,037.86	1,049.84	10.04	1,020,753.83	802,611.64	33° 48' 10.356 N	103° 28' 23.664 W
942H 100'FNL Exit - actual wellpath hits target center - Point	0.00	0.00	4,041.10	7,613.95	-83.10	1,027,317.86	802,518.50	33° 49' 15.298 N	103° 28' 24.118 W
942H S4 Exit - actual wellpath hits target center - Point	0.00	0.00	4,041.26	7,713.92	-85.49	1,027,417.82	802,516.11	33° 49' 16.287 N	103° 28' 24.137 W
Morrison 942H BHL - actual wellpath hits target center - Point	0.00	0.00	4,041.27	7,719.62	-85.63	1,027,423.52	802,515.97	33° 49' 16.344 N	103° 28' 24.138 W
942H S4 Entry - actual wellpath hits target center - Point	0.00	0.00	4,048.64	6,324.74	-71.12	1,026,028.66	802,530.47	33° 49' 2.544 N	103° 28' 24.104 W

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
2,290.00	2,289.97	9 5/8"	9-5/8	13-1/2
4,768.56	4,036.00	7" *	7	8-3/4
11,369.00	4,041.25	5 1/2"	5-1/2	8-3/4

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,534.00	4,038.99	876.37	7.63	Tangent 2 Start
4,707.50	4,037.86	1,049.84	10.04	S9 Entry
4,790.00	4,035.55	1,132.30	10.20	Tangent 2 End
9,983.80	4,048.64	6,324.74	-71.12	S4 Entry
11,273.30	4,041.10	7,613.95	-83.10	100'FNL Exit
11,373.30	4,041.26	7,713.92	-85.49	S4 Exit