

NMUCD Rec'd 12-13-18 AV

DISTRICT I
1825 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT
AS-DRILLED PLAT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-21358	² Pool Code	³ Pool Name NORTH TOCITO DOME-MISSISSIPPIAN
⁴ Property Code 321197	⁵ Property Name NAVAJO TRIBAL "U"	⁶ Well Number 16
⁷ GRID No. 372957	⁸ Operator Name TACITUS LLC	⁹ Elevation 5800'

¹⁰ Surface Location

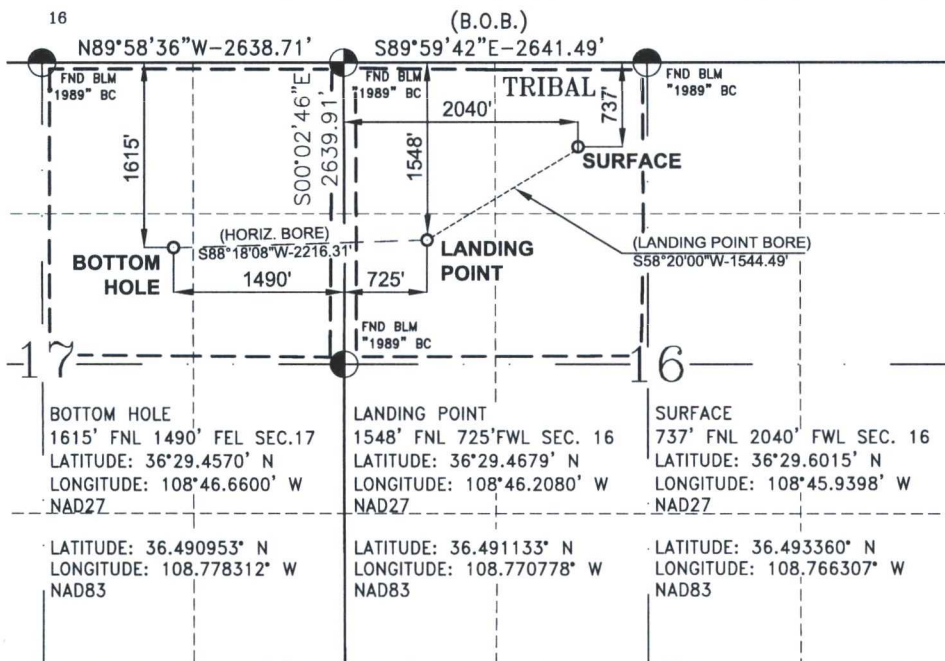
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	16	26-N	18-W		737	NORTH	2040	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	17	26-N	18-W		1615	NORTH	1490	EAST	SAN JUAN

¹² Dedicated Acres 320 ACRES = NW/4 SEC.16, NE/4 SEC.17	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Peter Kondrat 12/13/2018
Signature Date

Printed Name
PETER KONDRAT

E-mail Address
peter.kondrat@tacituscorporation.com

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

NOVEMBER 30, 2018

Date of Survey

Signature and Seal of Professional Surveyor



GLEN W. RUSSELL

Certificate Number

15703

BASIS OF BEARING:

BETWEEN FOUND MONUMENTS AT THE NORTHWEST CORNER AND THE NORTH QUARTER CORNER OF SECTION 16, TOWNSHIP 26 NORTH, RANGE 18 WEST, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO.

LINE BEARS: S 89°59'42" E A DISTANCE OF 2641.49 FEET AS MEASURED BY G.P.S. LOCAL GRID NAD83.

AV

20



Gyro Survey Certification

2948 I-70 Business Loop
Grand Junction, CO 81504
(970)-245-9447 Fax (970)-245-9454

Operator	Tacitus Venture Corp
Well Name & No.	Navajo Tribal U16
County & State	San Juan, NM
SDI Job No.	OP.0012786
Rig	Aztec 777

I, Janie Collins, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 4,658 feet to a measured depth of 7,389 feet is true and correct as determined from all available records.


Signature

11-Dec-18
Date

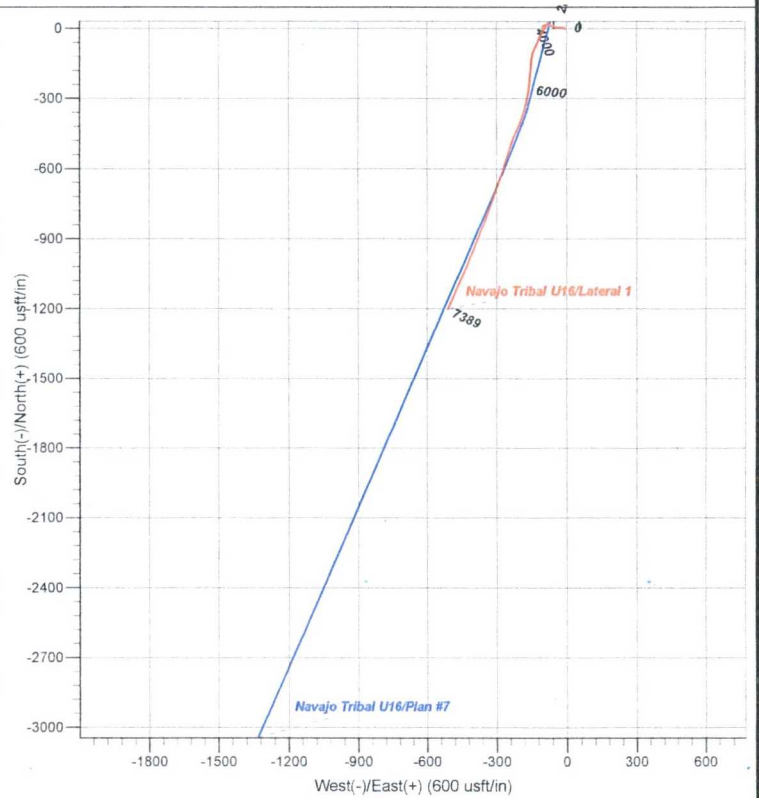
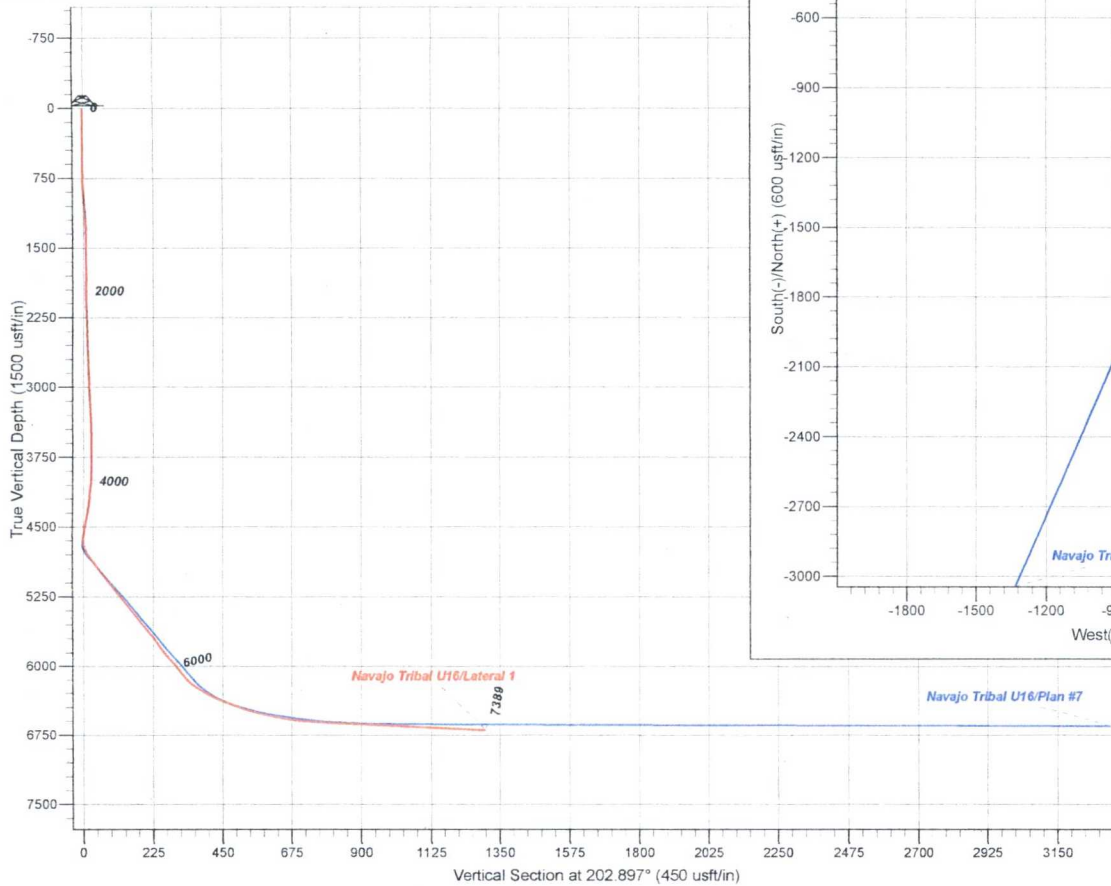
Janie Collins
Colorado District Well Planner
Scientific Drilling International

Company Name: Tacitus Venture Corp.
 Project: San Juan County, NM NAD83
 Site: Navajo Tribal Pad
 Well: Navajo Tribal U16
 Wellbore: Lateral 1



WELL DETAILS: Navajo Tribal U16

GL 5800' & RKB 17' @ 5817.00usft (Aztec 777) 5800.00	
+N/-S	+E/-W
0.00	0.00
Northings	Eastings
2000216.88	2448855.34
Latitude	Longitude
36.4933600	-108.7663070



Design: Lateral 1 (Navajo Tribal U16/Lateral 1)
 Created By: Janie Collins Date: 10:59, December 11 2018

PROJECT DETAILS: San Juan County, NM NAD83

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Western Zone

System Datum: Mean Sea Level
 Local North: True

Scientific Drilling, Intl
Survey Report



Company:	Tacitus Venture Corp.	Local Co-ordinate Reference:	Well Navajo Tribal U16
Project:	San Juan County, NM NAD83	TVD Reference:	GL 5800' & RKB 17' @ 5817.00usft (Aztec 777)
Site:	Navajo Tribal Pad	MD Reference:	GL 5800' & RKB 17' @ 5817.00usft (Aztec 777)
Well:	Navajo Tribal U16	North Reference:	True
Wellbore:	Lateral 1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral 1	Database:	Grand Junction District

Project	San Juan County, NM NAD83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	Navajo Tribal Pad		
Site Position:		Northing:	2,000,216.89 usft
From:	Lat/Long	Easting:	2,448,855.35 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Latitude:	36.4933600
		Longitude:	-108.7663070
		Grid Convergence:	-0.55 °

Well	Navajo Tribal U16		
Well Position	+N/-S	0.00 usft	Northing: 2,000,216.89 usft
	+E/-W	0.00 usft	Easting: 2,448,855.35 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	36.4933600
		Longitude:	-108.7663070
		Ground Level:	5,800.00 usft

Wellbore	Lateral 1		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM	12/11/2018	9.43
			Dip Angle (°)
			62.83
			Field Strength (nT)
			49,568

Design	Lateral 1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	4,583.92
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°)
			202.897

Survey Program	Date	12/11/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
87.16	4,583.92	Survey #2 - Gyro Survey (OH)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
4,583.92	4,583.92	Survey #1 (OH)	INCLINOMETER	Inclination Only : < 3 degrees
4,658.00	7,389.00	Survey #1 - MWD Survey (Lateral 1)	MWD+HDGM	OWSG MWD + HDGM

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	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.16	0.36	310.430	87.16	0.18	-0.21	-0.08	0.41	0.41	0.00
112.97	0.33	316.590	112.97	0.28	-0.32	-0.14	0.18	-0.12	23.87
138.69	0.32	322.250	138.69	0.39	-0.42	-0.20	0.13	-0.04	22.01
162.50	0.34	315.580	162.50	0.50	-0.51	-0.26	0.18	0.08	-28.01
190.18	0.38	307.530	190.18	0.61	-0.64	-0.32	0.23	0.14	-29.08
214.53	0.41	300.420	214.53	0.71	-0.78	-0.35	0.24	0.12	-29.20
240.14	0.43	297.590	240.14	0.80	-0.94	-0.37	0.11	0.08	-11.05
262.83	0.60	286.830	262.82	0.87	-1.13	-0.36	0.86	0.75	-47.42

Scientific Drilling, Intl
Survey Report



Company: Tacitus Venture Corp.
Project: San Juan County, NM NAD83
Site: Navajo Tribal Pad
Well: Navajo Tribal U16
Wellbore: Lateral 1
Design: Lateral 1

Local Co-ordinate Reference: Well Navajo Tribal U16
TVD Reference: GL 5800' & RKB 17' @ 5817.00usft (Aztec 777)
MD Reference: GL 5800' & RKB 17' @ 5817.00usft (Aztec 777)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Grand Junction District

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)
289.36	0.75	284.070	289.35	0.95	-1.43	-0.32	0.58	0.57	-10.40
313.03	0.95	283.630	313.02	1.04	-1.77	-0.27	0.85	0.84	-1.86
340.09	1.22	282.570	340.08	1.15	-2.27	-0.18	1.00	1.00	-3.92
363.88	1.40	282.490	363.86	1.27	-2.80	-0.08	0.76	0.76	-0.34
387.38	1.38	282.410	387.35	1.39	-3.36	0.02	0.09	-0.09	-0.34
414.42	1.39	283.420	414.38	1.54	-4.00	0.14	0.10	0.04	3.74
437.47	1.40	282.290	437.43	1.66	-4.54	0.23	0.13	0.04	-4.90
464.63	1.41	282.390	464.58	1.81	-5.19	0.36	0.04	0.04	0.37
488.23	1.46	283.840	488.17	1.94	-5.77	0.46	0.26	0.21	6.14
515.26	1.21	286.800	515.19	2.11	-6.38	0.54	0.96	-0.92	10.95
539.17	0.69	312.570	539.10	2.28	-6.72	0.52	2.76	-2.17	107.78
565.32	0.62	334.080	565.25	2.51	-6.90	0.37	0.97	-0.27	82.26
589.02	0.61	349.530	588.95	2.75	-6.98	0.18	0.70	-0.04	65.19
612.82	0.75	338.630	612.75	3.02	-7.06	-0.03	0.80	0.59	-45.80
639.66	1.18	306.490	639.58	3.35	-7.35	-0.22	2.52	1.60	-119.75
663.45	1.77	293.960	663.36	3.64	-7.88	-0.29	2.81	2.48	-52.67
690.38	2.37	287.850	690.28	3.98	-8.79	-0.25	2.37	2.23	-22.69
713.50	2.67	285.200	713.37	4.27	-9.76	-0.13	1.39	1.30	-11.46
737.34	3.19	282.530	737.18	4.56	-10.95	0.06	2.25	2.18	-11.20
764.76	3.32	280.520	764.56	4.87	-12.47	0.37	0.63	0.47	-7.33
789.27	3.36	280.510	789.03	5.13	-13.88	0.67	0.16	0.16	-0.04
813.72	3.42	279.660	813.43	5.38	-15.30	0.99	0.32	0.25	-3.48
837.56	3.32	277.720	837.23	5.59	-16.69	1.34	0.64	-0.42	-8.14
865.33	3.31	274.790	864.96	5.77	-18.28	1.80	0.61	-0.04	-10.55
889.89	3.22	273.030	889.48	5.87	-19.68	2.25	0.55	-0.37	-7.17
914.20	3.11	270.920	913.75	5.91	-21.02	2.73	0.66	-0.45	-8.68
938.62	3.06	268.890	938.13	5.91	-22.33	3.24	0.49	-0.20	-8.31
962.45	2.97	266.390	961.93	5.86	-23.58	3.78	0.67	-0.38	-10.49
990.20	2.93	263.610	989.64	5.73	-25.01	4.45	0.54	-0.14	-10.02
1,014.74	2.92	263.120	1,014.15	5.59	-26.25	5.06	0.11	-0.04	-2.00
1,039.17	2.95	262.710	1,038.55	5.44	-27.49	5.69	0.15	0.12	-1.68
1,063.66	2.98	263.060	1,063.01	5.28	-28.75	6.32	0.14	0.12	1.43
1,087.30	2.98	264.030	1,086.62	5.14	-29.97	6.92	0.21	0.00	4.10
1,115.21	3.01	267.190	1,114.49	5.03	-31.42	7.59	0.60	0.11	11.32
1,139.61	3.08	274.320	1,138.85	5.05	-32.72	8.08	1.58	0.29	29.22
1,164.07	3.08	277.920	1,163.28	5.19	-34.02	8.46	0.79	0.00	14.72
1,188.49	3.15	280.750	1,187.66	5.40	-35.33	8.77	0.69	0.29	11.59
1,212.27	3.03	281.630	1,211.41	5.65	-36.59	9.03	0.54	-0.50	3.70
1,240.15	3.16	283.180	1,239.25	5.97	-38.06	9.30	0.55	0.47	5.56
1,264.56	3.05	284.350	1,263.62	6.29	-39.34	9.51	0.52	-0.45	4.79
1,288.93	3.02	284.610	1,287.96	6.61	-40.59	9.70	0.14	-0.12	1.07
1,313.33	3.09	285.920	1,312.32	6.95	-41.85	9.88	0.41	0.29	5.37
1,337.17	2.99	286.220	1,336.13	7.30	-43.06	10.03	0.42	-0.42	1.26

Scientific Drilling, Intl
Survey Report



Company: Tacitus Venture Corp.
Project: San Juan County, NM NAD83
Site: Navajo Tribal Pad
Well: Navajo Tribal U16
Wellbore: Lateral 1
Design: Lateral 1

Local Co-ordinate Reference: Well Navajo Tribal U16
TVD Reference: GL 5800' & RKB 17' @ 5817.00usft (Aztec 777)
MD Reference: GL 5800' & RKB 17' @ 5817.00usft (Aztec 777)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Grand Junction District

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)
1,365.08	3.00	286.620	1,364.00	7.72	-44.46	10.19	0.08	0.04	1.43
1,389.49	2.86	287.910	1,388.38	8.09	-45.65	10.31	0.63	-0.57	5.28
1,413.92	2.77	288.580	1,412.78	8.46	-46.79	10.41	0.39	-0.37	2.74
1,438.27	2.61	289.530	1,437.10	8.83	-47.87	10.49	0.68	-0.66	3.90
1,465.87	2.46	289.940	1,464.67	9.25	-49.02	10.55	0.55	-0.54	1.49
1,489.08	2.45	290.770	1,487.86	9.59	-49.95	10.60	0.16	-0.04	3.58
1,513.27	2.27	291.780	1,512.03	9.95	-50.88	10.63	0.76	-0.74	4.18
1,540.42	2.22	293.140	1,539.16	10.36	-51.86	10.64	0.27	-0.18	5.01
1,564.40	2.20	292.340	1,563.12	10.72	-52.72	10.64	0.15	-0.08	-3.34
1,588.37	2.18	293.230	1,587.08	11.07	-53.56	10.64	0.16	-0.08	3.71
1,615.16	2.24	292.230	1,613.85	11.47	-54.51	10.64	0.27	0.22	-3.73
1,639.13	2.18	292.990	1,637.80	11.83	-55.37	10.65	0.28	-0.25	3.17
1,663.10	2.20	291.990	1,661.75	12.18	-56.21	10.65	0.18	0.08	-4.17
1,690.56	2.11	292.150	1,689.19	12.56	-57.17	10.67	0.33	-0.33	0.58
1,714.24	2.11	291.700	1,712.85	12.89	-57.98	10.68	0.07	0.00	-1.90
1,737.93	2.08	292.710	1,736.53	13.22	-58.78	10.69	0.20	-0.13	4.26
1,764.99	2.05	292.120	1,763.57	13.59	-59.68	10.70	0.14	-0.11	-2.18
1,788.98	2.07	291.740	1,787.55	13.91	-60.48	10.72	0.10	0.08	-1.58
1,812.95	2.05	291.190	1,811.50	14.23	-61.28	10.74	0.12	-0.08	-2.29
1,840.29	1.99	291.840	1,838.82	14.58	-62.18	10.76	0.23	-0.22	2.38
1,863.76	1.97	291.340	1,862.28	14.88	-62.93	10.78	0.11	-0.09	-2.13
1,887.63	2.04	290.380	1,886.13	15.18	-63.71	10.81	0.33	0.29	-4.02
1,914.91	2.04	289.340	1,913.40	15.51	-64.63	10.86	0.14	0.00	-3.81
1,938.77	2.04	288.210	1,937.24	15.78	-65.43	10.92	0.17	0.00	-4.74
1,962.83	2.10	288.550	1,961.29	16.05	-66.26	10.99	0.25	0.25	1.41
1,990.07	2.10	288.400	1,988.51	16.37	-67.20	11.07	0.02	0.00	-0.55
2,013.44	1.99	286.840	2,011.86	16.62	-68.00	11.15	0.54	-0.47	-7.53
2,037.41	2.01	286.610	2,035.82	16.86	-68.80	11.24	0.08	0.08	-0.13
2,064.81	1.99	285.200	2,063.20	17.12	-69.72	11.35	0.19	-0.07	-5.15
2,088.78	1.91	283.160	2,087.16	17.32	-70.51	11.48	0.44	-0.33	-8.51
2,112.77	1.75	275.720	2,111.13	17.45	-71.26	11.65	1.19	-0.67	-31.01
2,139.99	1.66	272.860	2,138.34	17.51	-72.07	11.91	0.45	-0.33	-10.51
2,162.87	1.78	273.470	2,161.21	17.55	-72.76	12.14	0.53	0.52	2.67
2,189.76	1.71	272.830	2,188.09	17.59	-73.57	12.42	0.27	-0.26	-2.38
2,213.31	1.79	272.940	2,211.63	17.63	-74.29	12.66	0.34	0.34	0.47
2,240.14	1.57	269.560	2,238.45	17.65	-75.08	12.95	0.90	-0.82	-12.60
2,263.63	1.65	269.790	2,261.93	17.64	-75.74	13.21	0.34	0.34	0.98
2,289.91	1.49	268.580	2,288.20	17.64	-76.46	13.50	0.62	-0.61	-4.60
2,313.39	1.46	268.120	2,311.67	17.62	-77.06	13.75	0.14	-0.13	-1.96
2,340.36	1.51	268.580	2,338.63	17.60	-77.76	14.04	0.19	0.19	1.71
2,363.71	1.33	266.370	2,361.97	17.57	-78.34	14.29	0.81	-0.77	-9.46
2,387.25	1.34	267.580	2,385.51	17.54	-78.89	14.53	0.13	0.04	5.14
2,414.10	1.35	266.880	2,412.35	17.51	-79.52	14.80	0.07	0.04	-2.61

Scientific Drilling, Intl
Survey Report



Company:	Tacitus Venture Corp.	Local Co-ordinate Reference:	Well Navajo Tribal U16
Project:	San Juan County, NM NAD83	TVD Reference:	GL 5800' & RKB 17' @ 5817.00usft (Aztec 777)
Site:	Navajo Tribal Pad	MD Reference:	GL 5800' & RKB 17' @ 5817.00usft (Aztec 777)
Well:	Navajo Tribal U16	North Reference:	True
Wellbore:	Lateral 1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral 1	Database:	Grand Junction District

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)
2,440.95	1.29	264.970	2,439.19	17.47	-80.13	15.09	0.28	-0.22	-7.11
2,463.92	1.31	266.120	2,462.16	17.43	-80.65	15.32	0.14	0.09	5.01
2,487.36	1.32	266.040	2,485.59	17.39	-81.19	15.57	0.04	0.04	-0.34
2,514.39	1.41	266.730	2,512.61	17.35	-81.83	15.85	0.34	0.33	2.55
2,537.75	1.20	265.940	2,535.98	17.32	-82.36	16.09	0.90	-0.90	-3.38
2,564.61	1.27	268.980	2,562.83	17.29	-82.94	16.34	0.36	0.26	11.32
2,587.58	1.15	266.630	2,585.80	17.28	-83.43	16.55	0.57	-0.52	-10.23
2,614.34	1.06	265.600	2,612.55	17.24	-83.94	16.78	0.34	-0.34	-3.85
2,638.01	1.03	263.890	2,636.22	17.20	-84.37	16.98	0.18	-0.13	-7.22
2,664.68	0.92	257.860	2,662.88	17.13	-84.82	17.22	0.56	-0.41	-22.61
2,688.22	0.97	260.320	2,686.42	17.06	-85.20	17.44	0.27	0.21	10.45
2,715.08	1.02	261.230	2,713.28	16.98	-85.66	17.68	0.20	0.19	3.39
2,737.97	0.94	256.950	2,736.16	16.91	-86.04	17.90	0.47	-0.35	-18.70
2,764.94	0.91	251.070	2,763.13	16.79	-86.46	18.17	0.37	-0.11	-21.80
2,788.40	0.92	246.620	2,786.59	16.65	-86.81	18.43	0.31	0.04	-18.97
2,815.33	0.97	247.840	2,813.51	16.48	-87.22	18.75	0.20	0.19	4.53
2,838.35	0.92	240.080	2,836.53	16.32	-87.56	19.04	0.60	-0.22	-33.71
2,864.71	0.98	239.600	2,862.88	16.10	-87.94	19.39	0.23	0.23	-1.82
2,887.22	0.98	235.680	2,885.39	15.89	-88.26	19.70	0.30	0.00	-17.41
2,913.48	1.00	236.150	2,911.65	15.64	-88.64	20.08	0.08	0.08	1.79
2,939.95	1.00	236.180	2,938.11	15.38	-89.02	20.47	0.00	0.00	0.11
2,962.83	0.93	231.510	2,960.99	15.15	-89.34	20.80	0.46	-0.31	-20.41
2,989.17	0.94	236.020	2,987.33	14.90	-89.68	21.17	0.28	0.04	17.12
3,012.25	0.95	232.930	3,010.40	14.68	-89.99	21.49	0.22	0.04	-13.39
3,038.57	0.93	233.040	3,036.72	14.42	-90.34	21.87	0.08	-0.08	0.42
3,064.35	0.96	232.250	3,062.50	14.16	-90.67	22.23	0.13	0.12	-3.06
3,087.36	0.91	232.570	3,085.50	13.93	-90.97	22.56	0.22	-0.22	1.39
3,113.70	0.85	233.470	3,111.84	13.69	-91.30	22.91	0.23	-0.23	3.42
3,139.98	0.79	236.290	3,138.12	13.47	-91.60	23.23	0.28	-0.23	10.73
3,162.99	0.81	232.940	3,161.12	13.29	-91.86	23.50	0.22	0.09	-14.56
3,189.42	0.82	234.170	3,187.55	13.06	-92.17	23.83	0.08	0.04	4.65
3,215.75	0.81	233.480	3,213.88	12.84	-92.47	24.15	0.05	-0.04	-2.62
3,238.34	0.90	237.730	3,236.47	12.65	-92.75	24.43	0.49	0.40	18.81
3,263.67	0.85	237.820	3,261.79	12.44	-93.07	24.75	0.20	-0.20	0.36
3,288.33	0.74	228.260	3,286.45	12.24	-93.35	25.04	0.70	-0.45	-38.77
3,312.85	0.86	232.790	3,310.97	12.02	-93.61	25.35	0.55	0.49	18.47
3,339.00	0.83	230.740	3,337.12	11.79	-93.92	25.68	0.16	-0.11	-7.84
3,363.82	0.84	233.310	3,361.93	11.56	-94.20	26.00	0.16	0.04	10.35
3,387.53	0.85	227.660	3,385.64	11.34	-94.47	26.31	0.35	0.04	-23.83
3,412.84	0.80	225.260	3,410.95	11.09	-94.73	26.64	0.24	-0.20	-9.48
3,437.71	0.69	224.490	3,435.82	10.86	-94.96	26.94	0.44	-0.44	-3.10
3,464.99	0.62	223.250	3,463.09	10.64	-95.18	27.23	0.26	-0.26	-4.55
3,489.38	0.56	220.190	3,487.48	10.45	-95.35	27.47	0.28	-0.25	-12.55
3,513.64	0.50	211.250	3,511.74	10.27	-95.48	27.69	0.42	-0.25	-36.85

Scientific Drilling, Intl
Survey Report



Company: Tacitus Venture Corp.
Project: San Juan County, NM NAD83
Site: Navajo Tribal Pad
Well: Navajo Tribal U16
Wellbore: Lateral 1
Design: Lateral 1

Local Co-ordinate Reference: Well Navajo Tribal U16
TVD Reference: GL 5800' & RKB 17' @ 5817.00usft (Aztec 777)
MD Reference: GL 5800' & RKB 17' @ 5817.00usft (Aztec 777)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Grand Junction District

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)
3,537.70	0.59	206.910	3,535.80	10.07	-95.59	27.92	0.41	0.37	-18.04
3,564.75	0.45	205.570	3,562.85	9.85	-95.70	28.16	0.52	-0.52	-4.95
3,589.01	0.14	249.580	3,587.11	9.75	-95.77	28.28	1.49	-1.28	181.41
3,613.08	0.24	294.290	3,611.18	9.76	-95.84	28.30	0.71	0.42	185.75
3,637.16	0.22	296.120	3,635.26	9.80	-95.93	28.29	0.09	-0.08	7.60
3,664.36	0.28	291.250	3,662.46	9.85	-96.04	28.29	0.23	0.22	-17.90
3,688.44	0.22	337.860	3,686.54	9.91	-96.11	28.26	0.85	-0.25	193.56
3,715.57	0.27	20.950	3,713.67	10.02	-96.10	28.16	0.69	0.18	158.83
3,739.73	0.37	34.640	3,737.83	10.14	-96.04	28.03	0.52	0.41	56.66
3,763.39	0.44	40.390	3,761.49	10.27	-95.94	27.86	0.34	0.30	24.30
3,787.49	0.46	43.750	3,785.59	10.41	-95.81	27.69	0.14	0.08	13.94
3,814.58	0.50	58.300	3,812.67	10.55	-95.64	27.49	0.47	0.15	53.71
3,838.89	0.55	65.280	3,836.98	10.66	-95.44	27.32	0.33	0.21	28.71
3,863.00	0.57	64.910	3,861.09	10.76	-95.23	27.14	0.08	0.08	-1.53
3,887.20	0.63	63.280	3,885.29	10.87	-95.00	26.95	0.26	0.25	-6.74
3,914.40	0.66	60.450	3,912.49	11.01	-94.73	26.71	0.16	0.11	-10.40
3,938.53	0.62	61.020	3,936.62	11.14	-94.49	26.50	0.17	-0.17	2.36
3,962.66	0.63	66.780	3,960.75	11.26	-94.26	26.30	0.26	0.04	23.87
3,989.96	0.81	67.960	3,988.04	11.39	-93.94	26.06	0.66	0.66	4.32
4,014.08	0.96	68.180	4,012.16	11.53	-93.59	25.79	0.62	0.62	0.91
4,037.82	1.25	65.330	4,035.90	11.71	-93.17	25.46	1.24	1.22	-12.01
4,065.54	1.53	63.800	4,063.61	12.00	-92.57	24.96	1.02	1.01	-5.52
4,088.76	1.66	64.840	4,086.82	12.28	-91.98	24.48	0.57	0.56	4.48
4,113.42	1.83	63.050	4,111.47	12.61	-91.31	23.91	0.72	0.69	-7.26
4,137.59	2.03	63.830	4,135.62	12.98	-90.58	23.29	0.83	0.83	3.23
4,164.42	2.17	63.090	4,162.44	13.42	-89.70	22.54	0.53	0.52	-2.76
4,188.08	2.23	61.790	4,186.08	13.84	-88.90	21.84	0.33	0.25	-5.49
4,214.76	2.32	59.580	4,212.74	14.35	-87.97	21.01	0.47	0.34	-8.28
4,238.53	2.42	60.500	4,236.49	14.85	-87.12	20.22	0.45	0.42	3.87
4,262.22	2.77	58.680	4,260.15	15.39	-86.20	19.36	1.52	1.48	-7.68
4,288.94	3.30	54.870	4,286.84	16.17	-85.02	18.19	2.12	1.98	-14.26
4,312.61	3.73	53.000	4,310.46	17.02	-83.85	16.94	1.88	1.82	-7.90
4,338.53	3.95	52.690	4,336.32	18.07	-82.46	15.44	0.85	0.85	-1.20
4,363.32	4.03	52.880	4,361.05	19.11	-81.09	13.94	0.33	0.32	0.77
4,388.31	3.89	51.790	4,385.98	20.17	-79.72	12.44	0.64	-0.56	-4.36
4,413.08	3.63	52.140	4,410.70	21.17	-78.44	11.02	1.05	-1.05	1.41
4,437.73	3.48	51.890	4,435.30	22.11	-77.24	9.68	0.61	-0.61	-1.01
4,462.28	3.37	51.920	4,459.81	23.02	-76.08	8.40	0.45	-0.45	0.12
4,488.12	3.15	51.070	4,485.61	23.93	-74.93	7.11	0.87	-0.85	-3.29
4,512.64	3.04	55.510	4,510.09	24.72	-73.87	5.97	1.08	-0.45	18.11
4,537.16	2.78	54.440	4,534.58	25.44	-72.85	4.92	1.08	-1.06	-4.36
4,563.24	2.76	54.030	4,560.63	26.17	-71.83	3.84	0.11	-0.08	-1.57
4,583.92	2.71	54.570	4,581.28	26.75	-71.03	3.00	0.27	-0.24	2.61

Scientific Drilling, Intl
Survey Report



Company:	Tacitus Venture Corp.	Local Co-ordinate Reference:	Well Navajo Tribal U16
Project:	San Juan County, NM NAD83	TVD Reference:	GL 5800' & RKB 17' @ 5817.00usft (Aztec 777)
Site:	Navajo Tribal Pad	MD Reference:	GL 5800' & RKB 17' @ 5817.00usft (Aztec 777)
Well:	Navajo Tribal U16	North Reference:	True
Wellbore:	Lateral 1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral 1	Database:	Grand Junction District

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)
4,658.00	1.23	229.310	4,655.34	27.24	-70.21	2.22	5.31	-2.00	235.88
4,689.00	4.40	214.720	4,686.30	26.05	-71.14	3.68	10.40	10.23	-47.06
4,721.00	6.16	209.880	4,718.16	23.55	-72.69	6.59	5.67	5.50	-15.13
4,753.00	7.74	215.950	4,749.93	20.32	-74.81	10.39	5.44	4.94	18.97
4,815.00	12.40	217.710	4,810.96	11.67	-81.34	20.90	7.53	7.52	2.84
4,860.00	12.56	216.930	4,854.89	3.93	-87.23	30.32	0.52	0.36	-1.73
4,923.00	12.63	211.820	4,916.38	-7.39	-94.98	43.77	1.77	0.11	-8.11
4,981.00	13.01	210.370	4,972.93	-18.41	-101.62	56.50	0.86	0.66	-2.50
5,044.00	14.07	203.860	5,034.19	-31.54	-108.31	71.19	2.94	1.68	-10.33
5,107.00	12.81	203.240	5,095.46	-44.96	-114.16	85.83	2.01	-2.00	-0.98
5,170.00	12.99	203.870	5,156.87	-57.85	-119.78	99.90	0.36	0.29	1.00
5,233.00	13.60	205.840	5,218.18	-70.99	-125.88	114.37	1.21	0.97	3.13
5,296.00	12.60	205.730	5,279.54	-83.85	-132.09	128.64	1.59	-1.59	-0.17
5,359.00	14.42	205.710	5,340.79	-97.11	-138.47	143.33	2.89	2.89	-0.03
5,422.00	14.53	195.700	5,401.80	-111.79	-144.02	159.01	3.97	0.17	-15.89
5,485.00	13.66	184.600	5,462.92	-126.81	-146.75	173.92	4.50	-1.38	-17.62
5,547.00	14.01	185.950	5,523.12	-141.58	-148.12	188.05	0.77	0.56	2.18
5,610.00	14.32	184.560	5,584.20	-156.93	-149.53	202.74	0.73	0.49	-2.21
5,673.00	15.72	185.490	5,645.05	-173.19	-150.96	218.28	2.25	2.22	1.48
5,736.00	13.11	182.110	5,706.06	-188.83	-152.04	233.11	4.35	-4.14	-5.37
5,798.00	13.77	183.580	5,766.36	-203.22	-152.76	246.64	1.20	1.06	2.37
5,861.00	13.93	185.080	5,827.53	-218.26	-153.90	260.94	0.62	0.25	2.38
5,892.00	13.63	185.320	5,857.64	-225.61	-154.57	267.97	0.99	-0.97	0.77
5,924.00	14.40	188.480	5,888.69	-233.30	-155.51	275.42	3.39	2.41	9.88
5,987.00	13.54	185.340	5,949.83	-248.39	-157.35	290.04	1.82	-1.37	-4.98
6,049.00	14.29	189.440	6,010.01	-263.17	-159.28	304.40	2.00	1.21	6.61
6,112.00	14.34	190.460	6,071.05	-278.51	-161.97	319.58	0.41	0.08	1.62
6,175.00	13.90	189.200	6,132.15	-293.65	-164.60	334.55	0.85	-0.70	-2.00
6,206.00	17.30	191.140	6,162.00	-301.85	-166.08	342.69	11.09	10.97	6.26
6,238.00	21.38	193.520	6,192.19	-312.19	-168.37	353.10	12.98	12.75	7.44
6,269.00	23.93	193.080	6,220.80	-323.81	-171.11	364.88	8.24	8.23	-1.42
6,301.00	25.60	194.760	6,249.85	-336.82	-174.34	378.12	5.66	5.22	5.25
6,332.00	27.73	195.220	6,277.55	-350.26	-177.94	391.89	6.90	6.87	1.48
6,363.00	29.60	198.870	6,304.76	-364.47	-182.31	406.68	8.26	6.03	11.77
6,395.00	32.24	199.390	6,332.21	-380.00	-187.70	423.09	8.29	8.25	1.63
6,489.00	40.16	203.620	6,408.01	-431.51	-208.21	478.52	8.83	8.43	4.50
6,521.00	39.33	203.860	6,432.62	-450.24	-216.45	498.98	2.64	-2.59	0.75
6,552.00	40.56	202.710	6,456.38	-468.52	-224.31	518.88	4.63	3.97	-3.71
6,584.00	44.52	199.670	6,479.96	-488.69	-232.11	540.49	13.94	12.38	-9.50
6,615.00	47.83	198.160	6,501.42	-509.85	-239.35	562.80	11.24	10.68	-4.87
6,646.00	52.70	197.930	6,521.23	-532.51	-246.73	586.55	15.72	15.71	-0.74
6,678.00	54.17	197.750	6,540.29	-556.98	-254.60	612.15	4.62	4.59	-0.56
6,709.00	59.27	197.470	6,557.30	-581.67	-262.44	637.95	16.47	16.45	-0.90

Scientific Drilling, Intl
Survey Report



Company: Tacitus Venture Corp.
Project: San Juan County, NM NAD83
Site: Navajo Tribal Pad
Well: Navajo Tribal U16
Wellbore: Lateral 1
Design: Lateral 1

Local Co-ordinate Reference: Well Navajo Tribal U16
TVD Reference: GL 5800' & RKB 17' @ 5817.00usft (Aztec 777)
MD Reference: GL 5800' & RKB 17' @ 5817.00usft (Aztec 777)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Grand Junction District

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)
6,741.00	65.16	198.580	6,572.21	-608.58	-271.20	666.14	18.66	18.41	3.47
6,772.00	70.63	200.410	6,583.87	-635.64	-280.79	694.80	18.47	17.65	5.90
6,803.00	73.49	199.540	6,593.42	-663.35	-290.86	724.25	9.60	9.23	-2.81
6,835.00	76.75	200.080	6,601.64	-692.44	-301.34	755.13	10.32	10.19	1.69
6,866.00	80.04	199.510	6,607.87	-721.01	-311.63	785.45	10.76	10.61	-1.84
6,897.00	82.11	199.720	6,612.68	-749.86	-321.91	816.02	6.71	6.68	0.68
6,928.00	81.78	200.180	6,617.02	-778.71	-332.38	846.67	1.81	-1.06	1.48
6,960.00	81.77	200.780	6,621.60	-808.38	-343.46	878.32	1.86	-0.03	1.88
7,023.00	81.10	200.040	6,630.99	-866.76	-365.18	940.55	1.57	-1.06	-1.17
7,054.00	80.82	199.900	6,635.86	-895.54	-375.64	971.13	1.01	-0.90	-0.45
7,117.00	82.60	203.670	6,644.94	-953.41	-398.78	1,033.44	6.56	2.83	5.98
7,180.00	81.89	203.340	6,653.44	-1,010.66	-423.67	1,095.86	1.24	-1.13	-0.52
7,243.00	81.13	203.720	6,662.74	-1,067.78	-448.55	1,158.17	1.35	-1.21	0.60
7,306.00	80.69	203.810	6,672.70	-1,124.72	-473.62	1,220.37	0.71	-0.70	0.14
7,389.00	80.69	203.810	6,686.13	-1,199.65	-506.68	1,302.27	0.00	0.00	0.00

Checked By: _____ Approved By: _____ Date: _____



Directional Survey Certification

2948 I-70 Business Loop
Grand Junction, CO 81504
(970)-245-9447 Fax (970)-245-9454

Operator	Tacitus Venture Corp
Well Name & No.	Navajo Tribal U16
County & State	San Juan, NM
SDI Job No.	OP.0012786
Rig	Aztec 777

I, Janie Collins, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 5,867.00 feet to a measured depth of 10,000.00 feet is true and correct as determined from all available records.


Signature

11-Dec-18
Date

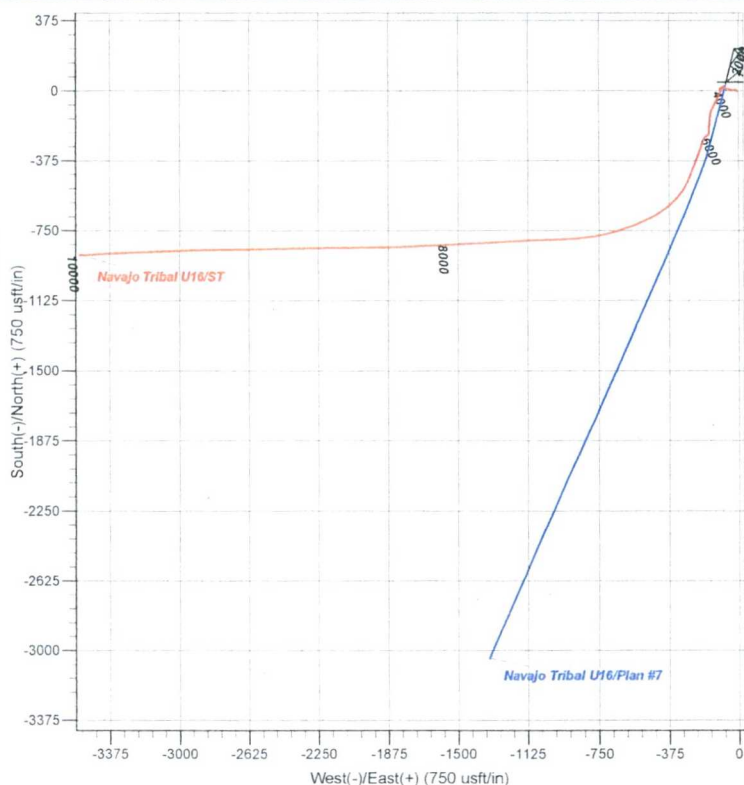
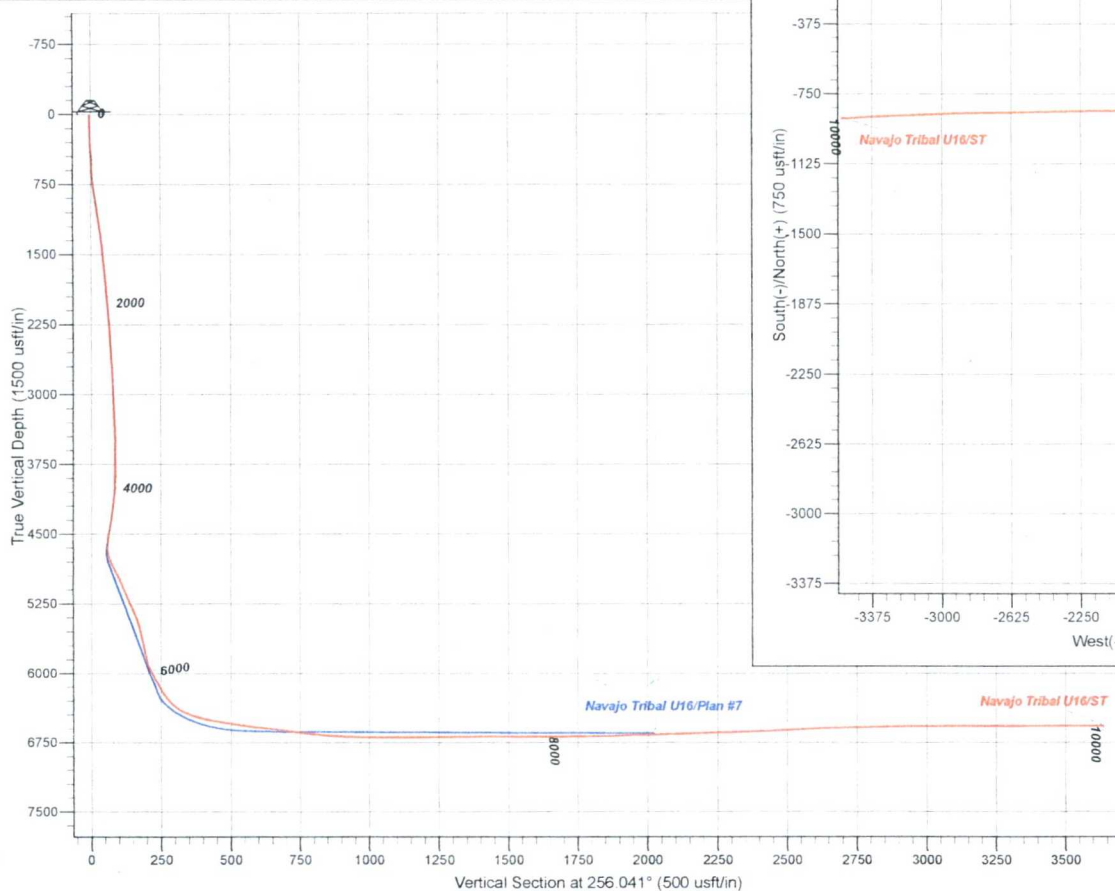
Janie Collins
Colorado District Well Planner
Scientific Drilling International

Company Name: Tacitus Venture Corp.
 Project: San Juan County, NM NAD83
 Site: Navajo Tribal Pad
 Well: Navajo Tribal U16
 Wellbore: ST



WELL DETAILS: Navajo Tribal U16

GL 5800' & RKB 17' @ 5817.00usft (Aztec 777) 5800.00
 +N/-S +E/-W Northing Easting Latitude Longitude
 0.00 0.00 2000216.88 2448855.34 36.4933600 -108.7663070



Design: ST (Navajo Tribal U16/ST)
 Created By: Janie Collins Date: 10:58, December 11 2018
 PROJECT DETAILS: San Juan County, NM NAD83
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Western Zone
 System Datum: Mean Sea Level
 Local North: True

Scientific Drilling, Intl
Survey Report



Company:	Tacitus Venture Corp.	Local Co-ordinate Reference:	Well Navajo Tribal U16
Project:	San Juan County, NM NAD83	TVD Reference:	GL 5800' & RKB 17' @ 5817.00usft (Aztec 777)
Site:	Navajo Tribal Pad	MD Reference:	GL 5800' & RKB 17' @ 5817.00usft (Aztec 777)
Well:	Navajo Tribal U16	North Reference:	True
Wellbore:	ST	Survey Calculation Method:	Minimum Curvature
Design:	ST	Database:	Grand Junction District

Project	San Juan County, NM NAD83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	Navajo Tribal Pad				
Site Position:		Northing:	2,000,216.89 usft	Latitude:	36.4933600
From:	Lat/Long	Easting:	2,448,855.35 usft	Longitude:	-108.7663070
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	-0.55 °

Well	Navajo Tribal U16					
Well Position	+N/-S	0.00 usft	Northing:	2,000,216.89 usft	Latitude:	36.4933600
	+E/-W	0.00 usft	Easting:	2,448,855.35 usft	Longitude:	-108.7663070
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	5,800.00 usft

Wellbore	ST				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	8/16/2018	9.45	62.83	49,605

Design	ST				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	5,837.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	256.041	

Survey Program	Date	12/11/2018			
From (usft)	To (usft)	Survey*(Wellbore)	Tool Name	Description	
87.16	4,583.92	Survey #2 - Gyro Survey (OH)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
4,583.92	4,583.92	Survey #1 (OH)	INCLINOMETER	Inclination Only : < 3 degrees	
4,658.00	5,837.00	Survey #1 - MWD Survey (Lateral 1)	MWD+HDGM	OWSG MWD + HDGM	
5,861.00	10,000.00	Survey #1 - MWD Survey (ST)	MWD+HDGM	OWSG MWD + HDGM	

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	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
87.16	0.36	310.430	87.16	0.18	-0.21	0.16	0.41	0.41	0.00	
112.97	0.33	316.590	112.97	0.28	-0.32	0.24	0.18	-0.12	23.87	
138.69	0.32	322.250	138.69	0.39	-0.42	0.31	0.13	-0.04	22.01	
162.50	0.34	315.580	162.50	0.50	-0.51	0.37	0.18	0.08	-28.01	
190.18	0.38	307.530	190.18	0.61	-0.64	0.47	0.23	0.14	-29.08	
214.53	0.41	300.420	214.53	0.71	-0.78	0.58	0.24	0.12	-29.20	
240.14	0.43	297.590	240.14	0.80	-0.94	0.72	0.11	0.08	-11.05	

Scientific Drilling, Intl
Survey Report



Company: Tacitus Venture Corp.
Project: San Juan County, NM NAD83
Site: Navajo Tribal Pad
Well: Navajo Tribal U16
Wellbore: ST
Design: ST

Local Co-ordinate Reference: Well Navajo Tribal U16
TVD Reference: GL 5800' & RKB 17' @ 5817.00usft (Aztec 777)
MD Reference: GL 5800' & RKB 17' @ 5817.00usft (Aztec 777)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Grand Junction District

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)
262.83	0.60	286.830	262.82	0.87	-1.13	0.89	0.86	0.75	-47.42
289.36	0.75	284.070	289.35	0.95	-1.43	1.16	0.58	0.57	-10.40
313.03	0.95	283.630	313.02	1.04	-1.77	1.47	0.85	0.84	-1.86
340.09	1.22	282.570	340.08	1.15	-2.27	1.93	1.00	1.00	-3.92
363.88	1.40	282.490	363.86	1.27	-2.80	2.41	0.76	0.76	-0.34
387.38	1.38	282.410	387.35	1.39	-3.36	2.92	0.09	-0.09	-0.34
414.42	1.39	283.420	414.38	1.54	-4.00	3.51	0.10	0.04	3.74
437.47	1.40	282.290	437.43	1.66	-4.54	4.01	0.13	0.04	-4.90
464.63	1.41	282.390	464.58	1.81	-5.19	4.60	0.04	0.04	0.37
488.23	1.46	283.840	488.17	1.94	-5.77	5.13	0.26	0.21	6.14
515.26	1.21	286.800	515.19	2.11	-6.38	5.68	0.96	-0.92	10.95
539.17	0.69	312.570	539.10	2.28	-6.72	5.98	2.76	-2.17	107.78
565.32	0.62	334.080	565.25	2.51	-6.90	6.09	0.97	-0.27	82.26
589.02	0.61	349.530	588.95	2.75	-6.98	6.11	0.70	-0.04	65.19
612.82	0.75	338.630	612.75	3.02	-7.06	6.12	0.80	0.59	-45.80
639.66	1.18	306.490	639.58	3.35	-7.35	6.32	2.52	1.60	-119.75
663.45	1.77	293.960	663.36	3.64	-7.88	6.77	2.81	2.48	-52.67
690.38	2.37	287.850	690.28	3.98	-8.79	7.57	2.37	2.23	-22.69
713.50	2.67	285.200	713.37	4.27	-9.76	8.45	1.39	1.30	-11.46
737.34	3.19	282.530	737.18	4.56	-10.95	9.52	2.25	2.18	-11.20
764.76	3.32	280.520	764.56	4.87	-12.47	10.93	0.63	0.47	-7.33
789.27	3.36	280.510	789.03	5.13	-13.88	12.23	0.16	0.16	-0.04
813.72	3.42	279.660	813.43	5.38	-15.30	13.55	0.32	0.25	-3.48
837.56	3.32	277.720	837.23	5.59	-16.69	14.84	0.64	-0.42	-8.14
865.33	3.31	274.790	864.96	5.77	-18.28	16.35	0.61	-0.04	-10.55
889.89	3.22	273.030	889.48	5.87	-19.68	17.68	0.55	-0.37	-7.17
914.20	3.11	270.920	913.75	5.91	-21.02	18.97	0.66	-0.45	-8.68
938.62	3.06	268.890	938.13	5.91	-22.33	20.25	0.49	-0.20	-8.31
962.45	2.97	266.390	961.93	5.86	-23.58	21.47	0.67	-0.38	-10.49
990.20	2.93	263.610	989.64	5.73	-25.01	22.88	0.54	-0.14	-10.02
1,014.74	2.92	263.120	1,014.15	5.59	-26.25	24.13	0.11	-0.04	-2.00
1,039.17	2.95	262.710	1,038.55	5.44	-27.49	25.37	0.15	0.12	-1.68
1,063.66	2.98	263.060	1,063.01	5.28	-28.75	26.63	0.14	0.12	1.43
1,087.30	2.98	264.030	1,086.62	5.14	-29.97	27.84	0.21	0.00	4.10
1,115.21	3.01	267.190	1,114.49	5.03	-31.42	29.28	0.60	0.11	11.32
1,139.61	3.08	274.320	1,138.85	5.05	-32.72	30.53	1.58	0.29	29.22
1,164.07	3.08	277.920	1,163.28	5.19	-34.02	31.77	0.79	0.00	14.72
1,188.49	3.15	280.750	1,187.66	5.40	-35.33	32.98	0.69	0.29	11.59
1,212.27	3.03	281.630	1,211.41	5.65	-36.59	34.14	0.54	-0.50	3.70
1,240.15	3.16	283.180	1,239.25	5.97	-38.06	35.49	0.55	0.47	5.56
1,264.56	3.05	284.350	1,263.62	6.29	-39.34	36.66	0.52	-0.45	4.79
1,288.93	3.02	284.610	1,287.96	6.61	-40.59	37.80	0.14	-0.12	1.07
1,313.33	3.09	285.920	1,312.32	6.95	-41.85	38.93	0.41	0.29	5.37

Scientific Drilling, Intl
Survey Report



Company: Tacitus Venture Corp.
Project: San Juan County, NM NAD83
Site: Navajo Tribal Pad
Well: Navajo Tribal U16
Wellbore: ST
Design: ST

Local Co-ordinate Reference: Well Navajo Tribal U16
TVD Reference: GL 5800' & RKB 17' @ 5817.00usft (Aztec 777)
MD Reference: GL 5800' & RKB 17' @ 5817.00usft (Aztec 777)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Grand Junction District

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)
1,337.17	2.99	286.220	1,336.13	7.30	-43.06	40.03	0.42	-0.42	1.26
1,365.08	3.00	286.620	1,364.00	7.72	-44.46	41.29	0.08	0.04	1.43
1,389.49	2.86	287.910	1,388.38	8.09	-45.65	42.35	0.63	-0.57	5.28
1,413.92	2.77	288.580	1,412.78	8.46	-46.79	43.37	0.39	-0.37	2.74
1,438.27	2.61	289.530	1,437.10	8.83	-47.87	44.33	0.68	-0.66	3.90
1,465.87	2.46	289.940	1,464.67	9.25	-49.02	45.34	0.55	-0.54	1.49
1,489.08	2.45	290.770	1,487.86	9.59	-49.95	46.16	0.16	-0.04	3.58
1,513.27	2.27	291.780	1,512.03	9.95	-50.88	46.98	0.76	-0.74	4.18
1,540.42	2.22	293.140	1,539.16	10.36	-51.86	47.83	0.27	-0.18	5.01
1,564.40	2.20	292.340	1,563.12	10.72	-52.72	48.57	0.15	-0.08	-3.34
1,588.37	2.18	293.230	1,587.08	11.07	-53.56	49.31	0.16	-0.08	3.71
1,615.16	2.24	292.230	1,613.85	11.47	-54.51	50.14	0.27	0.22	-3.73
1,639.13	2.18	292.990	1,637.80	11.83	-55.37	50.88	0.28	-0.25	3.17
1,663.10	2.20	291.990	1,661.75	12.18	-56.21	51.62	0.18	0.08	-4.17
1,690.56	2.11	292.150	1,689.19	12.56	-57.17	52.45	0.33	-0.33	0.58
1,714.24	2.11	291.700	1,712.85	12.89	-57.98	53.16	0.07	0.00	-1.90
1,737.93	2.08	292.710	1,736.53	13.22	-58.78	53.86	0.20	-0.13	4.26
1,764.99	2.05	292.120	1,763.57	13.59	-59.68	54.64	0.14	-0.11	-2.18
1,788.98	2.07	291.740	1,787.55	13.91	-60.48	55.34	0.10	0.08	-1.58
1,812.95	2.05	291.190	1,811.50	14.23	-61.28	56.04	0.12	-0.08	-2.29
1,840.29	1.99	291.840	1,838.82	14.58	-62.18	56.83	0.23	-0.22	2.38
1,863.76	1.97	291.340	1,862.28	14.88	-62.93	57.49	0.11	-0.09	-2.13
1,887.63	2.04	290.380	1,886.13	15.18	-63.71	58.17	0.33	0.29	-4.02
1,914.91	2.04	289.340	1,913.40	15.51	-64.63	58.98	0.14	0.00	-3.81
1,938.77	2.04	288.210	1,937.24	15.78	-65.43	59.69	0.17	0.00	-4.74
1,962.83	2.10	288.550	1,961.29	16.05	-66.26	60.43	0.25	0.25	1.41
1,990.07	2.10	288.400	1,988.51	16.37	-67.20	61.27	0.02	0.00	-0.55
2,013.44	1.99	286.640	2,011.86	16.62	-68.00	61.98	0.54	-0.47	-7.53
2,037.41	2.01	286.610	2,035.82	16.86	-68.80	62.70	0.08	0.08	-0.13
2,064.81	1.99	285.200	2,063.20	17.12	-69.72	63.53	0.19	-0.07	-5.15
2,088.78	1.91	283.160	2,087.16	17.32	-70.51	64.25	0.44	-0.33	-8.51
2,112.77	1.75	275.720	2,111.13	17.45	-71.26	64.95	1.19	-0.67	-31.01
2,139.99	1.66	272.860	2,138.34	17.51	-72.07	65.72	0.45	-0.33	-10.51
2,162.87	1.78	273.470	2,161.21	17.55	-72.76	66.38	0.53	0.52	2.67
2,189.76	1.71	272.830	2,188.09	17.59	-73.57	67.16	0.27	-0.26	-2.38
2,213.31	1.79	272.940	2,211.63	17.63	-74.29	67.85	0.34	0.34	0.47
2,240.14	1.57	269.560	2,238.45	17.65	-75.08	68.60	0.90	-0.82	-12.60
2,263.63	1.65	269.790	2,261.93	17.64	-75.74	69.25	0.34	0.34	0.98
2,289.91	1.49	268.580	2,288.20	17.64	-76.46	69.95	0.62	-0.61	-4.60
2,313.39	1.46	268.120	2,311.67	17.62	-77.06	70.54	0.14	-0.13	-1.96
2,340.36	1.51	268.580	2,338.63	17.60	-77.76	71.22	0.19	0.19	1.71
2,363.71	1.33	266.370	2,361.97	17.57	-78.34	71.79	0.81	-0.77	-9.46
2,387.25	1.34	267.580	2,385.51	17.54	-78.89	72.33	0.13	0.04	5.14
2,414.10	1.35	266.880	2,412.35	17.51	-79.52	72.94	0.07	0.04	-2.61

Company: Tacitus Venture Corp.
Project: San Juan County, NM NAD83
Site: Navajo Tribal Pad
Well: Navajo Tribal U16
Wellbore: ST
Design: ST

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TVD Reference: GL 5800' & RKB 17' @ 5817.00usft (Aztec 777)
MD Reference: GL 5800' & RKB 17' @ 5817.00usft (Aztec 777)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Grand Junction District

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)
2,440.95	1.29	264.970	2,439.19	17.47	-80.13	73.55	0.28	-0.22	-7.11
2,463.92	1.31	266.120	2,462.16	17.43	-80.65	74.07	0.14	0.09	5.01
2,487.36	1.32	266.040	2,485.59	17.39	-81.19	74.60	0.04	0.04	-0.34
2,514.39	1.41	266.730	2,512.61	17.35	-81.83	75.23	0.34	0.33	2.55
2,537.75	1.20	265.940	2,535.98	17.32	-82.36	75.75	0.90	-0.90	-3.38
2,564.61	1.27	268.980	2,562.83	17.29	-82.94	76.32	0.36	0.26	11.32
2,587.58	1.15	266.630	2,585.80	17.28	-83.43	76.80	0.57	-0.52	-10.23
2,614.34	1.06	265.600	2,612.55	17.24	-83.94	77.30	0.34	-0.34	-3.85
2,638.01	1.03	263.890	2,636.22	17.20	-84.37	77.73	0.18	-0.13	-7.22
2,664.68	0.92	257.860	2,662.88	17.13	-84.82	78.18	0.56	-0.41	-22.61
2,688.22	0.97	260.320	2,686.42	17.06	-85.20	78.57	0.27	0.21	10.45
2,715.08	1.02	261.230	2,713.28	16.98	-85.66	79.03	0.20	0.19	3.39
2,737.97	0.94	256.950	2,736.16	16.91	-86.04	79.42	0.47	-0.35	-18.70
2,764.94	0.91	251.070	2,763.13	16.79	-86.46	79.86	0.37	-0.11	-21.80
2,788.40	0.92	246.620	2,786.59	16.65	-86.81	80.23	0.31	0.04	-18.97
2,815.33	0.97	247.840	2,813.51	16.48	-87.22	80.67	0.20	0.19	4.53
2,838.35	0.92	240.080	2,836.53	16.32	-87.56	81.04	0.60	-0.22	-33.71
2,864.71	0.98	239.600	2,862.88	16.10	-87.94	81.46	0.23	0.23	-1.82
2,887.22	0.98	235.680	2,885.39	15.89	-88.26	81.82	0.30	0.00	-17.41
2,913.48	1.00	236.150	2,911.65	15.64	-88.64	82.25	0.08	0.08	1.79
2,939.95	1.00	236.180	2,938.11	15.38	-89.02	82.69	0.00	0.00	0.11
2,962.83	0.93	231.510	2,960.99	15.15	-89.34	83.04	0.46	-0.31	-20.41
2,989.17	0.94	236.020	2,987.33	14.90	-89.68	83.44	0.28	0.04	17.12
3,012.25	0.95	232.930	3,010.40	14.68	-89.99	83.79	0.22	0.04	-13.39
3,038.57	0.93	233.040	3,036.72	14.42	-90.34	84.19	0.08	-0.08	0.42
3,064.35	0.96	232.250	3,062.50	14.16	-90.67	84.58	0.13	0.12	-3.06
3,087.36	0.91	232.570	3,085.50	13.93	-90.97	84.92	0.22	-0.22	1.39
3,113.70	0.85	233.470	3,111.84	13.69	-91.30	85.30	0.23	-0.23	3.42
3,139.98	0.79	236.290	3,138.12	13.47	-91.60	85.65	0.28	-0.23	10.73
3,162.99	0.81	232.940	3,161.12	13.29	-91.86	85.95	0.22	0.09	-14.56
3,189.42	0.82	234.170	3,187.55	13.06	-92.17	86.29	0.08	0.04	4.65
3,215.75	0.81	233.480	3,213.88	12.84	-92.47	86.64	0.05	-0.04	-2.62
3,238.34	0.90	237.730	3,236.47	12.65	-92.75	86.96	0.49	0.40	18.81
3,263.67	0.85	237.820	3,261.79	12.44	-93.07	87.32	0.20	-0.20	0.36
3,288.33	0.74	228.260	3,286.45	12.24	-93.35	87.64	0.70	-0.45	-38.77
3,312.85	0.86	232.790	3,310.97	12.02	-93.61	87.95	0.55	0.49	18.47
3,339.00	0.83	230.740	3,337.12	11.79	-93.92	88.30	0.16	-0.11	-7.84
3,363.82	0.84	233.310	3,361.93	11.56	-94.20	88.63	0.16	0.04	10.35
3,387.53	0.85	227.660	3,385.64	11.34	-94.47	88.94	0.35	0.04	-23.83
3,412.84	0.80	225.260	3,410.95	11.09	-94.73	89.26	0.24	-0.20	-9.48
3,437.71	0.69	224.490	3,435.82	10.86	-94.96	89.54	0.44	-0.44	-3.10
3,464.99	0.62	223.250	3,463.09	10.64	-95.18	89.80	0.26	-0.26	-4.55
3,489.38	0.56	220.190	3,487.48	10.45	-95.35	90.01	0.28	-0.25	-12.55

Scientific Drilling, Intl
Survey Report



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Local Co-ordinate Reference: Well Navajo Tribal U16
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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)
3,513.64	0.50	211.250	3,511.74	10.27	-95.48	90.18	0.42	-0.25	-36.85
3,537.70	0.59	206.910	3,535.80	10.07	-95.59	90.34	0.41	0.37	-18.04
3,564.75	0.45	205.570	3,562.85	9.85	-95.70	90.50	0.52	-0.52	-4.95
3,589.01	0.14	249.580	3,587.11	9.75	-95.77	90.59	1.49	-1.28	181.41
3,613.08	0.24	294.290	3,611.18	9.76	-95.84	90.65	0.71	0.42	185.75
3,637.16	0.22	296.120	3,635.26	9.80	-95.93	90.73	0.09	-0.08	7.60
3,664.36	0.28	291.250	3,662.46	9.85	-96.04	90.82	0.23	0.22	-17.90
3,688.44	0.22	337.860	3,686.54	9.91	-96.11	90.88	0.85	-0.25	193.56
3,715.57	0.27	20.950	3,713.67	10.02	-96.10	90.85	0.69	0.18	158.83
3,739.73	0.37	34.640	3,737.83	10.14	-96.04	90.76	0.52	0.41	56.66
3,763.39	0.44	40.390	3,761.49	10.27	-95.94	90.63	0.34	0.30	24.30
3,787.49	0.46	43.750	3,785.59	10.41	-95.81	90.47	0.14	0.08	13.94
3,814.58	0.50	58.300	3,812.67	10.55	-95.64	90.27	0.47	0.15	53.71
3,838.89	0.55	65.280	3,836.98	10.66	-95.44	90.05	0.33	0.21	28.71
3,863.00	0.57	64.910	3,861.09	10.76	-95.23	89.82	0.08	0.08	-1.53
3,887.20	0.63	63.280	3,885.29	10.87	-95.00	89.57	0.26	0.25	-6.74
3,914.40	0.66	60.450	3,912.49	11.01	-94.73	89.27	0.16	0.11	-10.40
3,938.53	0.62	61.020	3,936.62	11.14	-94.49	89.01	0.17	-0.17	2.36
3,962.66	0.63	66.780	3,960.75	11.26	-94.26	88.76	0.26	0.04	23.87
3,989.96	0.81	67.960	3,988.04	11.39	-93.94	88.42	0.66	0.66	4.32
4,014.08	0.96	68.180	4,012.16	11.53	-93.59	88.05	0.62	0.62	0.91
4,037.82	1.25	65.330	4,035.90	11.71	-93.17	87.60	1.24	1.22	-12.01
4,065.54	1.53	63.800	4,063.61	12.00	-92.57	86.94	1.02	1.01	-5.52
4,088.76	1.66	64.840	4,086.82	12.28	-91.98	86.31	0.57	0.56	4.48
4,113.42	1.83	63.050	4,111.47	12.61	-91.31	85.57	0.72	0.69	-7.26
4,137.59	2.03	63.830	4,135.62	12.98	-90.58	84.78	0.83	0.83	3.23
4,164.42	2.17	63.090	4,162.44	13.42	-89.70	83.82	0.53	0.52	-2.76
4,188.08	2.23	61.790	4,186.08	13.84	-88.90	82.93	0.33	0.25	-5.49
4,214.76	2.32	59.580	4,212.74	14.35	-87.97	81.91	0.47	0.34	-8.28
4,238.53	2.42	60.500	4,236.49	14.85	-87.12	80.97	0.45	0.42	3.87
4,262.22	2.77	58.680	4,260.15	15.39	-86.20	79.94	1.52	1.48	-7.68
4,288.94	3.30	54.870	4,286.84	16.17	-85.02	78.61	2.12	1.98	-14.26
4,312.61	3.73	53.000	4,310.46	17.02	-83.85	77.26	1.88	1.82	-7.90
4,338.53	3.95	52.690	4,336.32	18.07	-82.46	75.67	0.85	0.85	-1.20
4,363.32	4.03	52.880	4,361.05	19.11	-81.09	74.08	0.33	0.32	0.77
4,388.31	3.89	51.790	4,385.98	20.17	-79.72	72.50	0.64	-0.56	-4.36
4,413.08	3.63	52.140	4,410.70	21.17	-78.44	71.02	1.05	-1.05	1.41
4,437.73	3.48	51.890	4,435.30	22.11	-77.24	69.62	0.61	-0.61	-1.01
4,462.28	3.37	51.920	4,459.81	23.02	-76.08	68.29	0.45	-0.45	0.12
4,488.12	3.15	51.070	4,485.61	23.93	-74.93	66.95	0.87	-0.85	-3.29
4,512.64	3.04	55.510	4,510.09	24.72	-73.87	65.73	1.08	-0.45	18.11
4,537.16	2.78	54.440	4,534.58	25.44	-72.85	64.57	1.08	-1.06	-4.36
4,563.24	2.76	54.030	4,560.63	26.17	-71.83	63.40	0.11	-0.08	-1.57

Scientific Drilling, Intl
Survey Report



Company: Tacitus Venture Corp.
Project: San Juan County, NM NAD83
Site: Navajo Tribal Pad
Well: Navajo Tribal U16
Wellbore: ST
Design: ST

Local Co-ordinate Reference: Well Navajo Tribal U16
TVD Reference: GL 5800' & RKB 17' @ 5817.00usft (Aztec 777)
MD Reference: GL 5800' & RKB 17' @ 5817.00usft (Aztec 777)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Grand Junction District

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)
4,583.92	2.71	54.570	4,581.28	26.75	-71.03	62.48	0.27	-0.24	2.61
4,658.00	1.23	229.310	4,655.34	27.24	-70.21	61.56	5.31	-2.00	235.88
4,689.00	4.40	214.720	4,686.30	26.05	-71.14	62.75	10.40	10.23	-47.06
4,721.00	6.16	209.880	4,718.16	23.55	-72.69	64.86	5.67	5.50	-15.13
4,753.00	7.74	215.950	4,749.93	20.32	-74.81	67.70	5.44	4.94	18.97
4,815.00	12.40	217.710	4,810.96	11.67	-81.34	76.12	7.53	7.52	2.84
4,860.00	12.56	216.930	4,854.89	3.93	-87.23	83.71	0.52	0.36	-1.73
4,923.00	12.63	211.820	4,916.38	-7.39	-94.98	93.96	1.77	0.11	-8.11
4,981.00	13.01	210.370	4,972.93	-18.41	-101.62	103.07	0.86	0.66	-2.50
5,044.00	14.07	203.860	5,034.19	-31.54	-108.31	112.72	2.94	1.68	-10.33
5,107.00	12.81	203.240	5,095.46	-44.96	-114.16	121.64	2.01	-2.00	-0.98
5,170.00	12.99	203.870	5,156.87	-57.85	-119.78	130.20	0.36	0.29	1.00
5,233.00	13.60	205.840	5,218.18	-70.99	-125.88	139.28	1.21	0.97	3.13
5,296.00	12.60	205.730	5,279.54	-83.85	-132.09	148.41	1.59	-1.59	-0.17
5,359.00	14.42	205.710	5,340.79	-97.11	-138.47	157.81	2.89	2.89	-0.03
5,422.00	14.53	195.700	5,401.80	-111.79	-144.02	166.73	3.97	0.17	-15.89
5,485.00	13.66	184.600	5,462.92	-126.81	-146.75	173.01	4.50	-1.38	-17.62
5,547.00	14.01	185.950	5,523.12	-141.58	-148.12	177.90	0.77	0.56	2.18
5,610.00	14.32	184.560	5,584.20	-156.93	-149.53	182.97	0.73	0.49	-2.21
5,673.00	15.72	185.490	5,645.05	-173.19	-150.96	188.28	2.25	2.22	1.48
5,736.00	13.11	182.110	5,706.06	-188.83	-152.04	193.10	4.35	-4.14	-5.37
5,798.00	13.77	183.580	5,766.36	-203.22	-152.76	197.27	1.20	1.06	2.37
5,837.00	13.87	184.513	5,804.24	-212.51	-153.42	200.15	0.62	0.25	2.39
5,861.00	13.93	185.080	5,827.53	-218.26	-153.90	202.01	0.62	0.26	2.36
5,892.00	13.63	185.320	5,857.64	-225.61	-154.57	204.43	0.99	-0.97	0.77
5,923.00	10.26	191.120	5,887.97	-231.96	-155.44	206.81	11.53	-10.87	18.71
5,955.00	8.22	238.700	5,919.59	-235.95	-157.95	210.20	23.93	-6.38	148.69
5,987.00	9.45	250.710	5,951.22	-238.00	-162.39	215.00	6.91	3.84	37.53
6,018.00	10.60	233.410	5,981.75	-240.55	-167.08	220.17	10.35	3.71	-55.81
6,050.00	11.44	223.410	6,013.16	-244.61	-171.62	225.56	6.51	2.63	-31.25
6,081.00	12.84	218.230	6,043.47	-249.55	-175.87	230.87	5.72	4.52	-16.71
6,112.00	14.17	213.010	6,073.61	-255.43	-180.07	236.37	5.82	4.29	-16.84
6,144.00	15.65	208.340	6,104.53	-262.52	-184.25	242.14	5.95	4.63	-14.59
6,175.00	17.25	200.750	6,134.27	-270.50	-187.86	247.57	8.63	5.16	-24.48
6,206.00	19.38	196.840	6,163.70	-279.72	-190.98	252.82	7.93	6.87	-12.61
6,238.00	21.90	198.690	6,193.64	-290.46	-194.43	258.76	8.13	7.88	5.78
6,269.00	23.52	198.780	6,222.24	-301.79	-198.28	265.22	5.23	5.23	0.29
6,300.00	25.66	198.610	6,250.42	-314.01	-202.41	272.18	6.91	6.90	-0.55
6,332.00	26.77	201.970	6,279.13	-327.26	-207.32	280.14	5.79	3.47	10.50
6,363.00	27.86	202.880	6,306.68	-340.41	-212.75	288.58	3.77	3.52	2.94
6,396.00	29.24	200.680	6,335.66	-355.05	-218.59	297.79	5.26	4.18	-6.67
6,427.00	34.29	200.860	6,362.01	-370.31	-224.38	307.08	16.29	16.29	0.58
6,458.00	41.42	201.930	6,386.47	-388.00	-231.33	318.09	23.10	23.00	3.45
6,489.00	48.72	201.230	6,408.35	-408.40	-239.39	330.83	23.60	23.55	-2.26

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North Reference: True
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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)
6,521.00	53.62	201.090	6,428.41	-431.64	-248.38	345.17	15.32	15.31	-0.44
6,551.00	56.75	201.950	6,445.54	-454.55	-257.42	359.47	10.70	10.43	2.87
6,583.00	59.58	204.390	6,462.42	-479.53	-268.12	375.88	10.96	8.84	7.63
6,615.00	63.52	208.960	6,477.66	-504.65	-280.76	394.21	17.58	12.31	14.28
6,646.00	64.75	212.750	6,491.19	-528.59	-295.07	413.87	11.69	3.97	12.23
6,679.00	65.26	217.820	6,505.14	-552.99	-312.34	436.51	14.01	1.55	15.36
6,709.00	67.28	222.780	6,517.22	-573.92	-330.10	458.80	16.56	6.73	16.53
6,741.00	67.10	226.260	6,529.63	-594.95	-350.78	483.94	10.04	-0.56	10.88
6,772.00	66.93	229.390	6,541.74	-614.11	-371.93	509.08	9.31	-0.55	10.10
6,804.00	68.15	234.450	6,553.97	-632.33	-395.20	536.06	15.10	3.81	15.81
6,867.00	70.59	240.660	6,576.18	-663.92	-444.93	591.95	10.00	3.87	9.86
6,929.00	69.60	243.850	6,597.30	-691.06	-496.52	648.56	5.09	-1.60	5.15
6,992.00	70.41	247.310	6,618.84	-715.53	-550.41	706.76	5.32	1.29	5.49
7,055.00	71.30	250.540	6,639.51	-736.92	-605.94	765.81	5.05	1.41	5.13
7,118.00	74.01	254.530	6,658.30	-754.95	-663.29	825.82	7.42	4.30	6.33
7,149.00	76.03	256.090	6,666.31	-762.54	-692.26	855.76	8.13	6.52	5.03
7,181.00	78.71	257.280	6,673.31	-769.73	-722.64	886.98	9.13	8.38	3.72
7,212.00	81.45	259.200	6,678.65	-775.95	-752.53	917.49	10.74	8.84	6.19
7,243.00	83.74	260.420	6,682.64	-781.39	-782.78	948.16	8.35	7.39	3.94
7,274.00	85.67	262.560	6,685.50	-785.95	-813.31	978.88	9.27	6.23	6.90
7,306.00	88.05	264.530	6,687.26	-789.54	-845.06	1,010.56	9.65	7.44	6.16
7,338.00	89.80	266.200	6,687.86	-792.13	-876.94	1,042.13	7.56	5.47	5.22
7,369.00	91.31	267.530	6,687.56	-793.82	-907.89	1,072.57	6.49	4.87	4.29
7,401.00	91.48	268.100	6,686.78	-795.04	-939.86	1,103.89	1.86	0.53	1.78
7,432.00	91.81	268.080	6,685.89	-796.08	-970.83	1,134.20	1.07	1.06	-0.06
7,495.00	91.51	267.900	6,684.06	-798.28	-1,033.76	1,195.80	0.56	-0.48	-0.29
7,558.00	91.48	267.410	6,682.42	-800.86	-1,096.69	1,257.49	0.78	-0.05	-0.78
7,620.00	91.04	267.270	6,681.06	-803.74	-1,158.61	1,318.28	0.74	-0.71	-0.23
7,683.00	90.91	266.950	6,679.98	-806.91	-1,221.52	1,380.10	0.55	-0.21	-0.51
7,707.00	90.97	266.650	6,679.59	-808.25	-1,245.48	1,403.67	1.27	0.25	-1.25
7,819.00	89.83	266.970	6,678.81	-814.49	-1,357.30	1,513.69	1.06	-1.02	0.29
7,880.00	89.16	267.460	6,679.35	-817.45	-1,418.23	1,573.53	1.36	-1.10	0.80
7,914.00	89.26	267.390	6,679.81	-818.98	-1,452.19	1,606.86	0.36	0.29	-0.21
7,946.00	89.93	267.310	6,680.04	-820.46	-1,484.15	1,638.24	2.11	2.09	-0.25
7,977.00	92.25	267.340	6,679.45	-821.90	-1,515.11	1,668.63	7.48	7.48	0.10
8,007.00	93.06	267.110	6,678.06	-823.35	-1,545.04	1,698.03	2.81	2.70	-0.77
8,039.00	93.40	267.730	6,676.26	-824.79	-1,576.96	1,729.35	2.21	1.06	1.94
8,070.00	93.02	267.220	6,674.52	-826.16	-1,607.88	1,759.69	2.05	-1.23	-1.65
8,133.00	93.84	267.690	6,670.75	-828.95	-1,670.71	1,821.33	1.50	1.30	0.75
8,197.00	93.90	267.450	6,666.43	-831.66	-1,734.50	1,883.90	0.39	0.09	-0.38
8,261.00	93.73	267.620	6,662.18	-834.40	-1,798.30	1,946.48	0.38	-0.27	0.27
8,326.00	95.18	269.000	6,657.13	-836.31	-1,863.07	2,009.80	3.08	2.23	2.12
8,389.00	95.55	269.510	6,651.24	-837.13	-1,925.79	2,070.86	1.00	0.59	0.81

Scientific Drilling, Intl
Survey Report



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Site: Navajo Tribal Pad
Well: Navajo Tribal U16
Wellbore: ST
Design: ST

Local Co-ordinate Reference: Well Navajo Tribal U16
TVD Reference: GL 5800' & RKB 17' @ 5817.00usft (Aztec 777)
MD Reference: GL 5800' & RKB 17' @ 5817.00usft (Aztec 777)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Grand Junction District

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)
8,451.00	95.31	269.250	6,645.37	-837.80	-1,987.51	2,130.92	0.57	-0.39	-0.42
8,514.00	95.22	269.830	6,639.59	-838.30	-2,050.24	2,191.92	0.93	-0.14	0.92
8,576.00	94.88	269.730	6,634.13	-838.54	-2,112.00	2,251.91	0.57	-0.55	-0.16
8,637.00	94.27	269.450	6,629.26	-838.97	-2,172.80	2,311.02	1.10	-1.00	-0.46
8,701.00	95.48	268.870	6,623.83	-839.91	-2,236.56	2,373.12	2.10	1.89	-0.91
8,764.00	98.28	269.310	6,616.28	-840.90	-2,299.10	2,434.05	4.50	4.44	0.70
8,827.00	98.22	268.680	6,607.24	-842.00	-2,361.43	2,494.81	0.99	-0.10	-1.00
8,890.00	98.15	268.210	6,598.27	-843.69	-2,423.77	2,555.71	0.75	-0.11	-0.75
8,956.00	95.92	269.340	6,590.19	-845.09	-2,489.25	2,619.60	3.78	-3.38	1.71
9,019.00	95.01	268.700	6,584.19	-846.16	-2,551.96	2,680.71	1.76	-1.44	-1.02
9,082.00	94.90	268.850	6,578.75	-847.50	-2,614.71	2,741.93	0.29	-0.17	0.24
9,146.00	93.02	269.670	6,574.33	-848.32	-2,678.54	2,804.08	3.20	-2.94	1.28
9,209.00	93.06	269.700	6,570.98	-848.67	-2,741.46	2,865.22	0.08	0.06	0.05
9,273.00	92.76	269.080	6,567.74	-849.35	-2,805.37	2,927.41	1.08	-0.47	-0.97
9,336.00	90.17	268.990	6,566.12	-850.41	-2,868.33	2,988.77	4.11	-4.11	-0.14
9,397.00	89.66	268.180	6,566.22	-851.92	-2,929.31	3,048.31	1.57	-0.84	-1.33
9,461.00	89.23	267.970	6,566.84	-854.07	-2,993.28	3,110.90	0.75	-0.67	-0.33
9,524.00	91.01	268.170	6,566.70	-856.19	-3,056.24	3,172.52	2.84	2.83	0.32
9,586.00	90.64	267.490	6,565.81	-858.54	-3,118.19	3,233.20	1.25	-0.60	-1.10
9,649.00	90.57	267.520	6,565.15	-861.28	-3,181.12	3,294.94	0.12	-0.11	0.05
9,711.00	90.37	267.870	6,564.64	-863.77	-3,243.07	3,355.66	0.65	-0.32	0.56
9,775.00	89.66	267.440	6,564.62	-866.39	-3,307.02	3,418.35	1.30	-1.11	-0.67
9,839.00	88.96	267.280	6,565.39	-869.34	-3,370.94	3,481.10	1.12	-1.09	-0.25
9,902.00	90.24	266.930	6,565.83	-872.52	-3,433.86	3,542.93	2.11	2.03	-0.56
9,953.00	90.30	266.850	6,565.59	-875.29	-3,484.78	3,593.02	0.20	0.12	-0.16
10,000.00	90.30	266.850	6,565.34	-877.87	-3,531.71	3,639.18	0.00	0.00	0.00

Checked By: _____ Approved By: _____ Date: _____