



Company: CONOCO PHILLIPS CO.

Lease/Well: EVGSAU/3374-516W

API: 30-025-42721

Rig Name: PRODUCTION

State/County: NEW MEXICO/LEA

VS-Azi: 0.00 Degrees

Latitude: 32.79035, Longitude: -103.46769

Grid North = True North -0.47 degs (NAD 27)

Grid Correction Applied = -0.47 degs



FIELD COPY ONLY (NOT DEFINITIVE)

Depth Reference : GROUND LEVEL

DRILLOG MS GYRO SURVEY CALCULATIONS
Error Model: VESSI_GYROFLEX_SLICKLINE.IPM

Filename: msgyro_run01-01-de_01.ut

Minimum Curvature Method

Report Date/Time: 10/24/2017 / 16:28

VES Survey International

Midland, TX

432-563-5444

Andrew Meadville

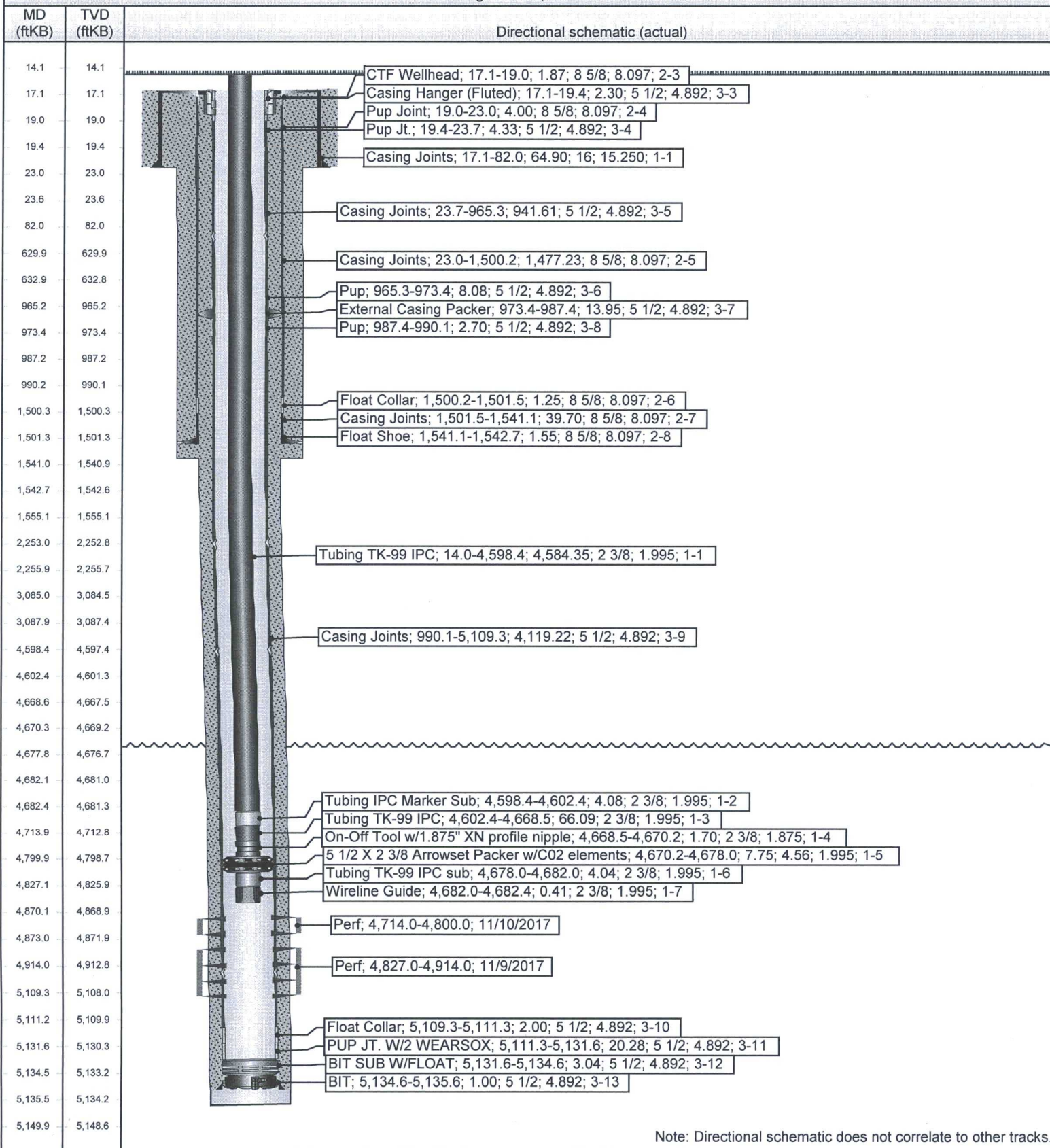
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.43	325.82	100.00	0.31	-0.21	0.31	0.38	325.82	0.43
200.00	0.20	330.48	200.00	0.78	-0.51	0.78	0.93	326.68	0.24
300.00	0.65	340.42	299.99	1.46	-0.78	1.46	1.66	331.75	0.46
400.00	0.63	352.75	399.99	2.54	-1.04	2.54	2.75	337.65	0.14
500.00	0.61	302.97	499.98	3.38	-1.56	3.38	3.72	335.18	0.52
600.00	0.73	257.29	599.98	3.53	-2.63	3.53	4.40	323.31	0.53
700.00	0.51	247.06	699.97	3.21	-3.66	3.21	4.87	311.30	0.24
800.00	0.55	239.90	799.97	2.80	-4.48	2.80	5.29	301.98	0.08
900.00	0.15	238.88	899.96	2.49	-5.01	2.49	5.59	296.47	0.40
1000.00	0.35	123.98	999.96	2.26	-4.87	2.26	5.36	294.90	0.43
1100.00	0.28	24.32	1099.96	2.31	-4.51	2.31	5.07	297.13	0.48
1200.00	0.09	239.17	1199.96	2.49	-4.48	2.49	5.13	299.08	0.36
1300.00	0.30	103.05	1299.96	2.39	-4.30	2.39	4.92	299.10	0.37
1400.00	0.21	153.51	1399.96	2.17	-3.97	2.17	4.52	298.71	0.23
1500.00	0.13	182.59	1499.96	1.90	-3.89	1.90	4.33	295.99	0.11
1600.00	0.73	167.96	1599.96	1.16	-3.76	1.16	3.94	287.19	0.60
1700.00	0.34	146.58	1699.95	0.30	-3.47	0.30	3.48	274.89	0.43
1800.00	0.20	45.57	1799.95	0.17	-3.18	0.17	3.18	273.06	0.43
1900.00	1.01	17.78	1899.95	1.13	-2.79	1.13	3.01	292.10	0.84
2000.00	1.01	20.59	1999.93	2.80	-2.21	2.80	3.56	321.76	0.05
2100.00	1.23	25.72	2099.91	4.60	-1.43	4.60	4.81	342.75	0.24
2200.00	1.48	34.05	2199.88	6.64	-0.24	6.64	6.64	357.95	0.31
2300.00	1.99	37.67	2299.84	9.08	1.54	9.08	9.21	9.65	0.52
2400.00	2.21	42.22	2399.77	11.88	3.90	11.88	12.50	18.17	0.28
2500.00	2.11	47.60	2499.70	14.55	6.55	14.55	15.95	24.25	0.22
2600.00	2.69	59.14	2599.61	16.99	9.93	16.99	19.68	30.30	0.75
2700.00	3.30	65.89	2699.48	19.37	14.57	19.37	24.24	36.95	0.70
2800.00	3.27	73.54	2799.31	21.36	19.93	21.36	29.21	43.03	0.44
2900.00	2.88	85.91	2899.17	22.34	25.18	22.34	33.66	48.41	0.77
3000.00	2.06	95.85	2999.07	22.34	29.48	22.34	36.99	52.84	0.92
3100.00	1.62	117.12	3099.02	21.51	32.53	21.51	39.00	56.52	0.81
3200.00	1.11	134.06	3199.00	20.20	34.48	20.20	39.96	59.64	0.64

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
3300.00	0.61	195.42	3298.99	19.01	35.03	19.01	39.86	61.51	0.98
3400.00	0.60	240.43	3398.98	18.24	34.43	18.24	38.97	62.09	0.46
3500.00	1.04	307.16	3498.97	18.53	33.26	18.53	38.07	60.88	0.97
3600.00	0.91	330.17	3598.96	19.76	32.14	19.76	37.73	58.42	0.41
3700.00	1.32	354.21	3698.94	21.60	31.63	21.60	38.30	55.68	0.62
3800.00	1.43	344.33	3798.91	23.94	31.18	23.94	39.31	52.48	0.26
3900.00	1.63	329.49	3898.88	26.37	30.12	26.37	40.03	48.80	0.45
4000.00	1.55	324.78	3998.84	28.70	28.61	28.70	40.53	44.92	0.16
4100.00	1.52	317.43	4098.80	30.78	26.94	30.78	40.90	41.19	0.20
4200.00	1.56	310.30	4198.77	32.64	25.00	32.64	41.11	37.45	0.20
4300.00	1.56	302.73	4298.73	34.26	22.82	34.26	41.16	33.67	0.21
4400.00	2.28	312.76	4398.67	36.34	20.21	36.34	41.58	29.09	0.79
4500.00	3.05	305.76	4498.56	39.24	16.60	39.24	42.61	22.92	0.83
4600.00	3.00	294.29	4598.42	41.87	12.05	41.87	43.57	16.06	0.61
4700.00	3.49	304.87	4698.27	44.69	7.17	44.69	45.26	9.12	0.77
4800.00	4.24	300.83	4798.04	48.32	1.50	48.32	48.35	1.78	0.80
4900.00	4.34	308.96	4897.76	52.60	-4.62	52.60	52.80	354.98	0.62
5000.00	5.07	309.66	4997.42	57.80	-10.97	57.80	58.83	349.26	0.73

HORIZONTAL DISPLACEMENT IS
58.83 FEET AT 349.26 DEGREES

District PERMIAN CONVENTIONAL	Field Name VACUUM	API / UWI 3002542721	County LEA	State/Province NEW MEXICO
Original Spud Date 9/17/2017	Surface Legal Location Section 33, Township 17S, Range 35E	East/West Distance (ft) 940.00	East/West Reference FWL	North/South Distance (ft) 2,321.00
North/South Reference FSL				

VERTICAL - Original Hole, 2/21/2018 3:27:15 PM



Note: Directional schematic does not correlate to other tracks.