

sperry-sun
DRILLING SERVICES

ConocoPhillips

EVGSAU #3127-003

Survey Report

02/26/2003

SUR: P - 31-17s-35e, 660/S & 660/E
BHL: M - 32-17s-35e, 341/S & 1009/W
API # 30-025-02962

MAY 01 2003



**ConocoPhillips
New Mexico
Lea County
EVGSAU 3127-003 - MWD Surveys**

Sperry-Sun

Survey Report

26 February, 2003

Data Source: Information from Location

Survey Ref: svy6253

HALLIBURTON

Survey Report for EVGSAU 3127-003
Data Source: Information from Location

Measured Depth (ft)	Incl. (Deg)	Azim. (Deg)	Station Coordinates			Vertical Section (ft)	Dogleg Rate (°/100ft)	Comment
			TVD (ft)	Northings (ft)	Eastings (ft)			
Gyro								
0.00	0.000	0.000	0.00	0.00 N	0.00 E	0.00		
100.00	0.900	38.270	100.00	0.62 N	0.49 E	0.36	0.90	
200.00	0.930	32.950	199.98	1.91 N	1.41 E	1.03	0.09	
300.00	1.050	32.210	299.97	3.37 N	2.34 E	1.67	0.12	
400.00	0.800	42.340	399.96	4.66 N	3.30 E	2.37	0.30	
500.00	1.090	51.970	499.94	5.76 N	4.52 E	3.36	0.33	
600.00	1.080	67.560	599.92	6.71 N	6.14 E	4.77	0.29	
700.00	1.640	68.730	699.90	7.59 N	8.35 E	6.77	0.56	
800.00	1.930	68.320	799.85	8.73 N	11.25 E	9.40	0.29	
900.00	0.800	85.530	899.82	9.41 N	13.51 E	11.49	1.19	
1000.00	0.500	96.960	999.81	9.41 N	14.64 E	12.60	0.33	
1100.00	0.210	144.880	1099.81	9.20 N	15.17 E	13.17	0.39	
1200.00	0.340	153.370	1199.81	8.79 N	15.41 E	13.48	0.14	
1300.00	0.430	157.490	1299.81	8.18 N	15.69 E	13.87	0.09	
1400.00	0.380	194.480	1399.80	7.51 N	15.75 E	14.05	0.26	
1500.00	0.170	218.360	1499.80	7.07 N	15.57 E	13.96	0.23	
1600.00	0.130	295.790	1599.80	7.01 N	15.38 E	13.78	0.19	
1700.00	0.130	273.010	1699.80	7.06 N	15.16 E	13.56	0.05	
1800.00	0.150	301.020	1799.80	7.13 N	14.94 E	13.33	0.07	
1900.00	0.210	323.590	1899.80	7.35 N	14.72 E	13.07	0.09	
2000.00	0.260	295.140	1999.80	7.59 N	14.40 E	12.72	0.13	
2100.00	0.270	311.110	2099.80	7.84 N	14.02 E	12.29	0.07	
2200.00	0.240	326.100	2199.80	8.17 N	13.73 E	11.94	0.07	
2300.00	0.320	26.050	2299.80	8.60 N	13.73 E	11.87	0.29	
2400.00	0.350	35.200	2399.79	9.10 N	14.03 E	12.07	0.06	
2500.00	0.430	32.520	2499.79	9.66 N	14.41 E	12.33	0.08	
2600.00	0.830	57.860	2599.79	10.37 N	15.22 E	13.00	0.48	
2700.00	0.950	60.190	2699.77	11.16 N	16.56 E	14.16	0.13	
2800.00	1.030	61.130	2799.76	12.01 N	18.06 E	15.48	0.08	
2900.00	0.870	63.690	2899.75	12.78 N	19.53 E	16.77	0.17	
3000.00	0.600	73.440	2999.74	13.27 N	20.71 E	17.84	0.30	
3100.00	0.560	80.870	3099.73	13.49 N	21.70 E	18.77	0.09	
3200.00	0.590	74.070	3199.73	13.71 N	22.68 E	19.69	0.07	
3300.00	0.520	88.960	3299.72	13.86 N	23.62 E	20.59	0.16	
3400.00	0.460	75.290	3399.72	13.97 N	24.47 E	21.40	0.13	
3500.00	0.470	75.890	3499.72	14.17 N	25.25 E	22.13	0.01	
3600.00	0.650	80.530	3599.71	14.37 N	26.21 E	23.03	0.19	
3700.00	0.730	55.150	3699.70	14.82 N	27.29 E	24.01	0.31	
3800.00	0.800	38.680	3799.70	15.73 N	28.25 E	24.78	0.23	
3900.00	0.720	47.130	3899.69	16.71 N	29.15 E	25.48	0.14	
3940.00	0.610	67.550	3939.68	16.96 N	29.53 E	25.80	0.65	

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			TVD (ft)	Northings (ft)	Eastings (ft)			
MWD Surveys								
3985.00	0.810	75.400	3984.68	17.13 N	30.06 E	26.29	0.49	1st MWD Survey @ 3985' md
4017.00	5.500	138.800	4016.63	16.03 N	31.29 E	27.71	16.21	
4067.00	13.600	132.100	4065.89	10.28 N	37.24 E	34.63	16.32	
4099.00	18.500	123.100	4096.64	4.98 N	44.29 E	42.56	17.13	
4131.00	22.900	117.100	4126.57	0.63 S	54.09 E	53.24	15.25	
4163.00	27.200	107.800	4155.57	5.71 S	66.61 E	66.49	18.18	
4194.00	31.600	105.900	4182.57	10.10 S	81.17 E	81.62	14.51	
4226.00	36.600	105.200	4209.06	14.90 S	98.45 E	99.49	15.67	
4259.00	42.100	105.500	4234.57	20.44 S	118.62 E	120.35	16.68	
4290.00	46.200	106.300	4256.81	26.36 S	139.38 E	141.85	13.35	
4322.00	51.000	108.100	4277.96	33.47 S	162.30 E	165.70	15.58	
4355.00	55.100	109.500	4297.80	41.98 S	187.25 E	191.81	12.88	
4387.00	60.000	109.400	4314.96	50.97 S	212.71 E	218.50	15.31	
4419.00	63.800	108.400	4330.03	60.10 S	239.41 E	246.45	12.19	
4450.00	66.700	106.900	4343.01	68.63 S	266.23 E	274.40	10.34	
4482.00	70.000	106.000	4354.81	77.05 S	294.76 E	303.99	10.64	
4514.00	73.300	105.700	4364.89	85.35 S	323.97 E	334.25	10.35	
4546.00	76.800	106.200	4373.14	93.84 S	353.69 E	365.04	11.04	
4578.00	80.600	107.600	4379.41	102.96 S	383.71 E	396.24	12.63	
4609.00	85.000	109.700	4383.29	112.80 S	412.84 E	426.70	15.70	
4641.00	88.300	110.400	4385.16	123.75 S	442.84 E	458.23	10.54	
4673.00	88.500	110.200	4386.06	134.85 S	472.85 E	489.78	0.88	
4705.00	88.600	110.300	4386.87	145.92 S	502.86 E	521.34	0.44	
4736.00	88.100	110.600	4387.76	156.75 S	531.89 E	551.90	1.88	
4768.00	88.200	110.700	4388.79	168.02 S	561.82 E	583.42	0.44	
4800.00	88.800	111.200	4389.63	179.46 S	591.69 E	614.91	2.44	
4832.00	89.000	111.200	4390.24	191.03 S	621.52 E	646.38	0.63	
4864.00	89.000	110.200	4390.80	202.34 S	651.45 E	677.91	3.12	
4896.00	89.200	110.100	4391.31	213.36 S	681.49 E	709.49	0.70	
4927.00	88.700	109.500	4391.87	223.86 S	710.65 E	740.10	2.52	
4959.00	88.100	109.500	4392.77	234.54 S	740.81 E	771.73	1.88	
4989.00	86.400	109.900	4394.21	244.64 S	769.02 E	801.34	5.82	
5021.00	84.100	110.200	4396.86	255.57 S	798.97 E	832.81	7.25	
5053.00	81.600	109.900	4400.84	266.46 S	828.80 E	864.16	7.87	
5084.00	78.900	109.500	4406.09	276.76 S	857.56 E	894.34	8.80	
5116.00	77.900	109.500	4412.52	287.22 S	887.10 E	925.33	3.13	
5148.00	78.300	108.300	4419.12	297.36 S	916.73 E	956.34	3.88	
5180.00	79.000	106.200	4425.42	306.66 S	946.69 E	987.51	6.80	
5213.00	79.900	103.400	4431.46	314.95 S	978.05 E	1019.88	8.78	
5244.00	80.800	100.600	4436.66	321.30 S	1007.94 E	1050.43	9.37	
5276.00	81.500	97.600	4441.58	326.30 S	1039.16 E	1082.03	9.52	
5308.00	80.900	95.100	4446.48	329.80 S	1070.59 E	1113.55	7.94	
5339.00	80.900	92.500	4451.38	331.83 S	1101.13 E	1143.92	8.28	
5372.00	81.100	91.400	4456.55	332.94 S	1133.70 E	1176.12	3.35	
5403.00	82.800	90.000	4460.89	333.31 S	1164.39 E	1206.34	7.08	

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			TVD (ft)	Northings (ft)	Eastings (ft)			
5435.00	84.300	88.100	4464.48	332.78 S	1196.18 E	1237.46	7.54	
5467.00	86.200	86.000	4467.13	331.14 S	1228.03 E	1268.42	8.83	
5499.00	88.500	84.900	4468.61	328.61 S	1259.89 E	1299.24	7.97	
5530.00	89.300	84.600	4469.21	325.77 S	1290.75 E	1329.01	2.76	
5562.00	89.600	84.800	4469.51	322.81 S	1322.61 E	1359.75	1.13	
5594.00	88.200	86.200	4470.13	320.30 S	1354.51 E	1390.60	6.19	
5626.00	87.400	87.400	4471.36	318.52 S	1386.43 E	1421.61	4.50	
5658.00	87.300	88.100	4472.84	317.26 S	1418.37 E	1452.75	2.21	
5690.00	87.900	87.900	4474.18	316.15 S	1450.33 E	1483.92	1.98	
5721.00	88.500	89.200	4475.15	315.36 S	1481.30 E	1514.19	4.62	
5753.00	89.600	90.600	4475.68	315.31 S	1513.29 E	1545.60	5.56	
5785.00	90.200	91.100	4475.74	315.78 S	1545.29 E	1577.11	2.44	
5815.00	90.400	91.600	4475.58	316.49 S	1575.28 E	1606.70	1.80	
5847.00	89.300	91.400	4475.66	317.33 S	1607.27 E	1638.27	3.49	Last MWD Survey @ 5847' md
5909.00	89.300	91.400	4476.42	318.84 S	1669.25 E	1699.42	0.00	Projection to TD @ 5909' md

All data is in Feet (US) unless otherwise stated. Directions and coordinates are relative to True North. Vertical depths are relative to Well. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet.
Vertical Section is from Well and calculated along an Azimuth of 100.860° (True).

Magnetic Declination at Surface is 8.540° (26-Feb-03)

Based upon Minimum Curvature type calculations, at a Measured Depth of 5909.00ft.,
The Bottom Hole Displacement is 1699.43ft., in the Direction of 100.814° (True).

Comments

Measured Depth (ft)	Station Coordinates			Comment
	TVD (ft)	Northings (ft)	Eastings (ft)	
3985.00	3984.68	17.13 N	30.06 E	1st MWD Survey @ 3985' md
5847.00	4475.66	317.33 S	1607.27 E	Last MWD Survey @ 5847' md
5909.00	4476.42	318.84 S	1669.25 E	Projection to TD @ 5909' md

HALLIBURTON

ConocoPhillips

DrillQuest™

Sperry-Sun

New Mexico
Lea County
Sec. 31-T17S-R35E
EVGSAU 3127-003



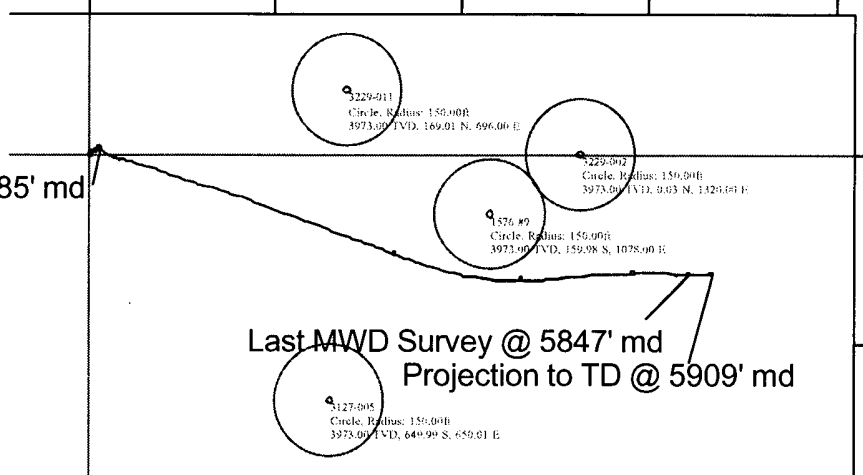
1st MWD Survey @ 3985' md

Last MWD Survey @ 5847' md
Projection to TD @ 5909' md

Scale: 1 inch = 500ft

Easting(Well)

0 500 1000 1500 2000

Scale: 1 inch = 500ft
Northing(Well)

1st MWD Survey @ 3985' md

Last MWD Survey @ 5847' md
Projection to TD @ 5909' md

Vertical Depth (Well)
Scale: 1 inch = 300ft

3900

4200

4500

0

300

600

900

1200

1500

Scale: 1 inch = 300ft

Vertical Section (Well)

Section Azimuth: 100.860° (True North)

Prepared by:
AdminDate/Time:
26 February, 2003 - 11:26

Checked:

Approved: