

BURTON

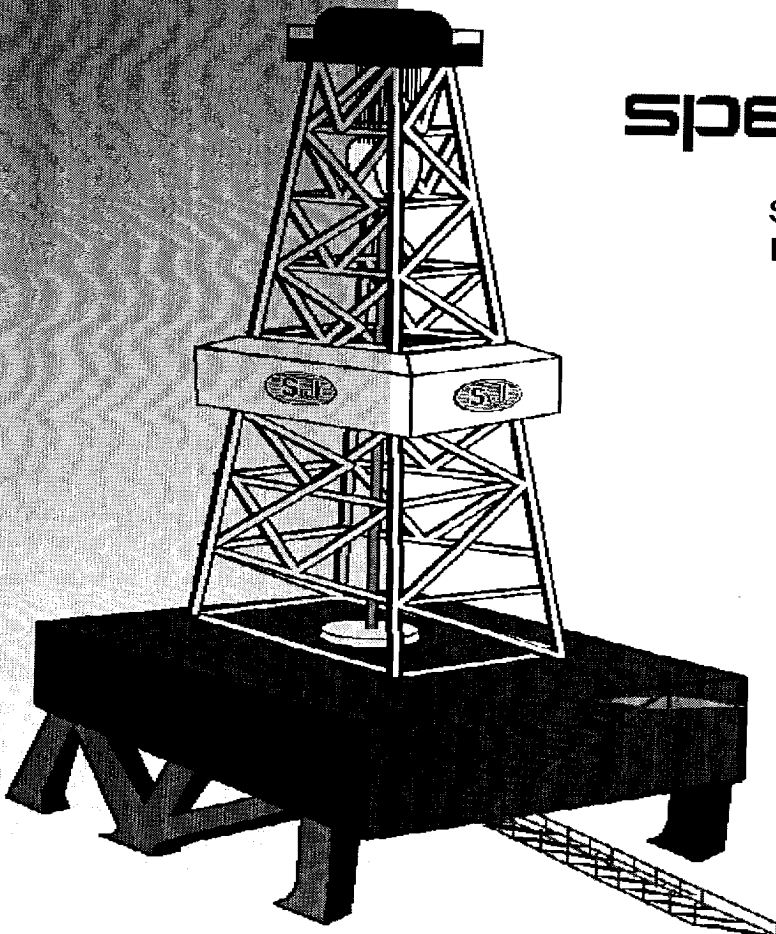
Phillips Petroleum Company

EVGSAU # 3440-003
Lea County, New Mexico
Sec. 34-T17S-R35E

June 10, 2002

sperry-sun

SUR: 990/S & 330/W, 34-17s-35e
BHL: 646/S & 2428/E, O-33-17s-35e
API # 30-025-03009



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DRILLING SERVICES

A HALLIBURTON COMPANY

9800 West Reno / Oklahoma City, OK 73127 / 405-324-2222 / 405-324-1009 (Fax)

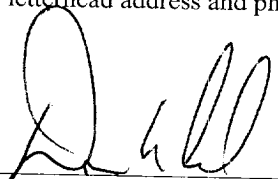
June 10, 2002

Re: Phillips Petroleum Company
EVGSAU 3440-003
Sec. 34-T17S-R35E
Lea County, New Mexico

Enclosed please find the original surveys performed on the referenced well by Halliburton Sperry Sun.

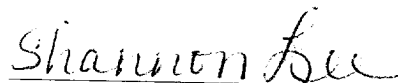
<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
4377' - 7165' 7165' - 7224'	05/19/02 -- 05/24/02	Directional/MWD Projection to TD

If any other information is required, please contact the undersigned at the letterhead address and phone number.



Dennis Cook
Directional Coordinator

My Commission Expires: 11-30-03



Shannon Lee
Notary Public





Phillips Petroleum Company
New Mexico
Lea County
EVGSAU 3440-003 - MWD Surveys

Sperry-Sun

Survey Report

7 June, 2002

Data Source: Information from Location

Survey Ref: svy5809

HALLIBURTON

Survey Report for EVGSAU 3440-003
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	0.410	79.460	100.00	0.07 N	0.35 E	-0.36	0.41	1st Gyro Survey @ 100' md
200.00	0.400	79.480	200.00	0.19 N	1.05 E	-1.06	0.01	
300.00	0.300	77.620	299.99	0.31 N	1.65 E	-1.67	0.10	
400.00	0.210	39.940	399.99	0.51 N	2.02 E	-2.07	0.19	
500.00	0.300	53.440	499.99	0.81 N	2.35 E	-2.43	0.11	
600.00	0.470	91.840	599.99	0.95 N	2.97 E	-3.06	0.30	
700.00	0.380	83.560	699.99	0.97 N	3.71 E	-3.80	0.11	
800.00	0.160	116.140	799.99	0.95 N	4.16 E	-4.25	0.26	
900.00	0.150	253.150	899.99	0.85 N	4.16 E	-4.24	0.29	
1000.00	0.360	283.790	999.99	0.89 N	3.73 E	-3.81	0.24	
1100.00	0.630	281.700	1099.98	1.07 N	2.89 E	-3.00	0.27	
1200.00	0.310	271.120	1199.98	1.19 N	2.08 E	-2.21	0.33	
1300.00	0.130	218.330	1299.98	1.11 N	1.74 E	-1.86	0.25	
1400.00	0.410	205.000	1399.98	0.69 N	1.52 E	-1.59	0.29	
1500.00	0.610	231.120	1499.97	0.04 N	0.95 E	-0.95	0.30	
1600.00	0.650	227.880	1599.97	0.68 S	0.12 E	-0.03	0.05	
1700.00	0.200	209.580	1699.96	1.21 S	0.39 W	0.54	0.46	
1800.00	0.120	204.520	1799.96	1.46 S	0.52 W	0.70	0.08	
1900.00	0.120	222.840	1899.96	1.63 S	0.64 W	0.83	0.04	
2000.00	0.240	46.400	1999.96	1.56 S	0.55 W	0.75	0.36	
2100.00	0.260	41.270	2099.96	1.25 S	0.25 W	0.41	0.03	
2200.00	0.300	47.790	2199.96	0.90 S	0.09 E	0.02	0.05	
2300.00	0.500	50.700	2299.96	0.45 S	0.62 E	-0.56	0.20	
2400.00	0.610	52.470	2399.95	0.15 N	1.38 E	-1.39	0.11	
2500.00	0.710	57.770	2499.95	0.81 N	2.33 E	-2.41	0.12	
2600.00	0.870	66.640	2599.94	1.44 N	3.55 E	-3.70	0.20	
2700.00	1.040	82.410	2699.92	1.86 N	5.15 E	-5.34	0.31	
2800.00	1.120	81.860	2799.91	2.12 N	7.01 E	-7.22	0.08	
2900.00	1.230	79.290	2899.88	2.45 N	9.03 E	-9.27	0.12	
3000.00	1.020	79.020	2999.87	2.82 N	10.96 E	-11.23	0.21	
3100.00	0.950	78.610	3099.85	3.16 N	12.65 E	-12.94	0.07	
3200.00	0.730	75.300	3199.84	3.48 N	14.08 E	-14.40	0.23	
3300.00	0.630	72.010	3299.83	3.81 N	15.22 E	-15.57	0.11	
3400.00	0.500	57.790	3399.83	4.22 N	16.11 E	-16.51	0.19	

Survey Report for EVGSAU 3440-003
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)			
3500.00	0.460	44.890	3499.82	4.73 N	16.76 E	-17.22	0.11	
3600.00	0.540	27.590	3599.82	5.43 N	17.26 E	-17.81	0.17	
3700.00	0.690	358.440	3699.82	6.45 N	17.46 E	-18.13	0.34	
3800.00	0.880	345.670	3799.81	7.80 N	17.26 E	-18.10	0.26	
3900.00	1.090	333.200	3899.79	9.39 N	16.64 E	-17.68	0.30	
4000.00	1.280	330.750	3999.77	11.22 N	15.66 E	-16.94	0.20	
4100.00	1.410	324.260	4099.74	13.19 N	14.40 E	-15.93	0.20	
4200.00	1.620	330.140	4199.71	15.41 N	12.98 E	-14.80	0.26	
4300.00	1.670	316.870	4299.67	17.70 N	11.28 E	-13.40	0.38	
4323.00	5.660	293.800	4322.62	18.41 N	10.01 E	-12.23	18.15	Last Gyro Survey @ 4323' md

MWD Surveys

4377.00	20.700	234.000	4375.05	21.81 N	1.75 W	-0.98	28.06	1st MWD Survey @ 4377' md
4409.00	30.100	234.600	4403.92	25.21 N	15.04 W	11.78	29.39	
4441.00	39.300	234.500	4430.20	29.78 N	32.65 W	28.69	28.75	
4471.00	47.800	233.300	4451.93	34.72 N	52.70 W	47.96	28.47	
4501.00	56.500	279.800	4470.32	39.42 N	75.89 W	70.38	30.42	
4533.00	65.800	275.100	4485.75	43.00 N	103.65 W	97.48	31.77	
4565.00	75.200	270.400	4496.42	44.40 N	133.73 W	127.16	32.46	
4581.00	79.100	267.000	4499.98	44.05 N	149.32 W	142.67	31.99	
4613.00	86.700	259.800	4503.94	40.39 N	180.82 W	174.38	32.59	
4645.00	90.800	257.100	4504.64	33.98 N	212.16 W	206.27	15.34	
4677.00	93.300	255.800	4503.49	26.49 N	243.24 W	238.04	8.80	
4708.00	94.300	255.300	4501.44	18.77 N	273.19 W	268.72	3.60	
4740.00	95.300	255.200	4498.76	10.65 N	304.03 W	300.33	3.14	
4772.00	93.500	255.000	4496.31	2.45 N	334.86 W	331.95	5.66	
4803.00	91.900	255.000	4494.85	5.56 S	364.77 W	362.62	5.16	
4835.00	90.400	255.700	4494.20	13.66 S	395.72 W	394.34	5.17	
4866.00	88.200	255.600	4494.58	21.34 S	425.75 W	425.09	7.10	
4898.00	87.400	255.800	4495.81	29.24 S	456.74 W	456.82	2.58	
4930.00	87.600	256.000	4497.21	37.02 S	487.75 W	488.56	0.88	
4961.00	88.000	256.000	4498.40	44.52 S	517.80 W	519.31	1.29	
4993.00	88.400	255.200	4499.40	52.47 S	548.78 W	551.04	2.79	
5026.00	88.700	256.500	4500.24	60.54 S	580.77 W	583.79	4.04	
5057.00	89.100	257.100	4500.83	67.61 S	610.94 W	614.61	2.33	
5090.00	89.300	258.300	4501.29	74.64 S	643.18 W	647.47	3.69	
5122.00	90.000	260.200	4501.49	80.61 S	674.62 W	679.41	6.33	

Survey Report for EVGSAU 3440-003
Data Source: Information from Location

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			TVD (ft)	Northings (ft)	Eastings (ft)			
5154.00	90.100	262.200	4501.46	85.51 S	706.24 W	711.39	6.26	
5185.00	90.300	262.300	4501.35	89.69 S	736.96 W	742.39	0.72	
5217.00	91.700	262.400	4500.79	93.95 S	768.67 W	774.38	4.39	
5248.00	91.500	263.300	4499.93	97.80 S	799.41 W	805.37	2.97	
5280.00	90.100	262.800	4499.48	101.68 S	831.17 W	837.37	4.65	
5312.00	88.300	262.800	4499.93	105.69 S	862.92 W	869.36	5.63	
5344.00	86.800	263.100	4501.30	109.61 S	894.65 W	901.33	4.78	
5377.00	86.900	262.700	4503.11	113.68 S	927.34 W	934.28	1.25	
5407.00	87.400	262.800	4504.60	117.46 S	957.07 W	964.24	1.70	
5439.00	87.900	262.800	4505.91	121.47 S	988.79 W	996.22	1.56	
5471.00	89.400	263.100	4506.67	125.40 S	1020.54 W	1028.21	4.78	
5503.00	90.600	263.700	4506.67	129.07 S	1052.32 W	1060.20	4.19	
5534.00	91.500	263.800	4506.10	132.45 S	1083.13 W	1091.20	2.92	
5565.00	90.600	264.300	4505.53	135.66 S	1113.96 W	1122.18	3.32	
5597.00	88.400	264.400	4505.81	138.81 S	1145.80 W	1154.17	6.88	
5629.00	88.700	264.700	4506.62	141.85 S	1177.65 W	1186.14	1.33	
5661.00	89.100	265.000	4507.23	144.72 S	1209.51 W	1218.12	1.56	
5692.00	88.000	264.800	4508.02	147.48 S	1240.38 W	1249.09	3.61	
5724.00	87.200	264.400	4509.36	150.49 S	1272.21 W	1281.04	2.79	
5756.00	87.600	264.200	4510.81	153.66 S	1304.02 W	1313.00	1.40	
5788.00	88.100	264.700	4512.01	156.75 S	1335.84 W	1344.97	2.21	
5820.00	88.800	263.400	4512.88	160.07 S	1367.66 W	1376.95	4.61	
5852.00	87.500	262.400	4513.91	164.02 S	1399.40 W	1408.93	5.12	
5884.00	86.800	260.900	4515.50	168.66 S	1431.02 W	1440.88	5.17	
5916.00	87.200	260.200	4517.18	173.91 S	1462.54 W	1472.81	2.52	
5948.00	87.800	259.900	4518.57	179.43 S	1494.03 W	1504.74	2.10	
5980.00	88.400	259.600	4519.63	185.12 S	1525.50 W	1536.68	2.10	
6012.00	88.800	259.500	4520.41	190.93 S	1556.96 W	1568.62	1.29	
6044.00	89.600	259.500	4520.86	196.76 S	1588.42 W	1600.56	2.50	
6076.00	90.600	259.000	4520.81	202.73 S	1619.86 W	1632.49	3.49	
6108.00	90.200	260.100	4520.58	208.53 S	1651.33 W	1664.44	3.66	
6139.00	88.600	261.300	4520.91	213.54 S	1681.92 W	1695.42	6.45	
6172.00	88.600	261.400	4521.71	218.50 S	1714.53 W	1728.39	0.30	
6204.00	88.900	261.100	4522.41	223.37 S	1746.15 W	1760.37	1.33	
6235.00	89.500	260.900	4522.84	228.22 S	1776.77 W	1791.36	2.04	
6268.00	88.800	261.900	4523.33	233.15 S	1809.39 W	1824.34	3.70	
6299.00	89.500	262.400	4523.79	237.38 S	1840.10 W	1855.33	2.77	
6331.00	90.800	262.400	4523.71	241.62 S	1871.81 W	1887.33	4.06	
6362.00	90.400	263.500	4523.38	245.42 S	1902.58 W	1918.33	3.78	
6395.00	89.200	264.200	4523.50	248.96 S	1935.39 W	1951.32	4.21	

Survey Report for EVGSAU 3440-003
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)			
6428.00	89.300	264.400	4523.93	252.23 S	1968.22 W	1984.31	0.68	
6460.00	89.800	264.000	4524.18	255.47 S	2000.06 W	2016.30	2.00	
6492.00	88.800	265.300	4524.57	258.45 S	2031.91 W	2048.28	5.13	
6524.00	89.100	265.500	4525.16	261.02 S	2063.80 W	2080.24	1.13	
6556.00	89.400	265.700	4525.58	263.47 S	2095.71 W	2112.20	1.13	
6588.00	89.800	265.500	4525.80	265.93 S	2127.61 W	2144.17	1.40	
6620.00	90.700	265.600	4525.66	268.41 S	2159.52 W	2176.13	2.83	
6652.00	90.900	265.000	4525.22	271.03 S	2191.40 W	2208.10	1.98	
6684.00	90.000	264.400	4524.97	273.99 S	2223.27 W	2240.08	3.38	
6715.00	88.600	264.200	4525.34	277.07 S	2254.11 W	2271.07	4.56	
6747.00	88.700	263.700	4526.10	280.44 S	2285.92 W	2303.05	1.59	
6779.00	89.600	263.700	4526.57	283.95 S	2317.73 W	2335.04	2.81	
6811.00	88.000	264.400	4527.24	287.26 S	2349.54 W	2367.03	5.46	
6843.00	88.200	263.400	4528.30	290.66 S	2381.35 W	2399.00	3.19	
6875.00	88.800	263.600	4529.14	294.28 S	2413.13 W	2430.99	1.98	
6907.00	87.400	263.200	4530.20	297.96 S	2444.90 W	2462.97	4.55	
6939.00	87.700	262.600	4531.57	301.91 S	2476.62 W	2494.94	2.09	
6971.00	87.700	261.500	4532.85	306.33 S	2508.29 W	2526.91	3.43	
7003.00	88.100	261.100	4534.03	311.17 S	2539.90 W	2558.88	1.77	
7036.00	89.300	261.100	4534.78	316.28 S	2572.49 W	2591.85	3.64	
7068.00	90.100	261.500	4534.94	321.12 S	2604.13 W	2623.84	2.80	
7101.00	91.200	261.400	4534.57	326.02 S	2636.76 W	2656.83	3.35	
7133.00	90.200	261.400	4534.18	330.81 S	2668.39 W	2688.82	3.13	
7165.00	90.100	261.700	4534.09	335.51 S	2700.05 W	2720.81	0.99	Last MWD Survey @ 7165' md
7224.00	90.100	261.700	4533.99	344.03 S	2758.43 W	2779.80	0.00	Projection to TD @ 7224' 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 262.840° (True).

Magnetic Declination at Surface is 7.820° (07-Jun-02)

Based upon Minimum Curvature type calculations, at a Measured Depth of 7224.00ft.,
The Bottom Hole Displacement is 2779.80ft., in the Direction of 262.891° (True).

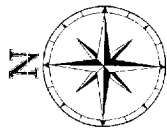
Survey Report for EVGSAU 3440-003
Data Source: Information from Location

Comments

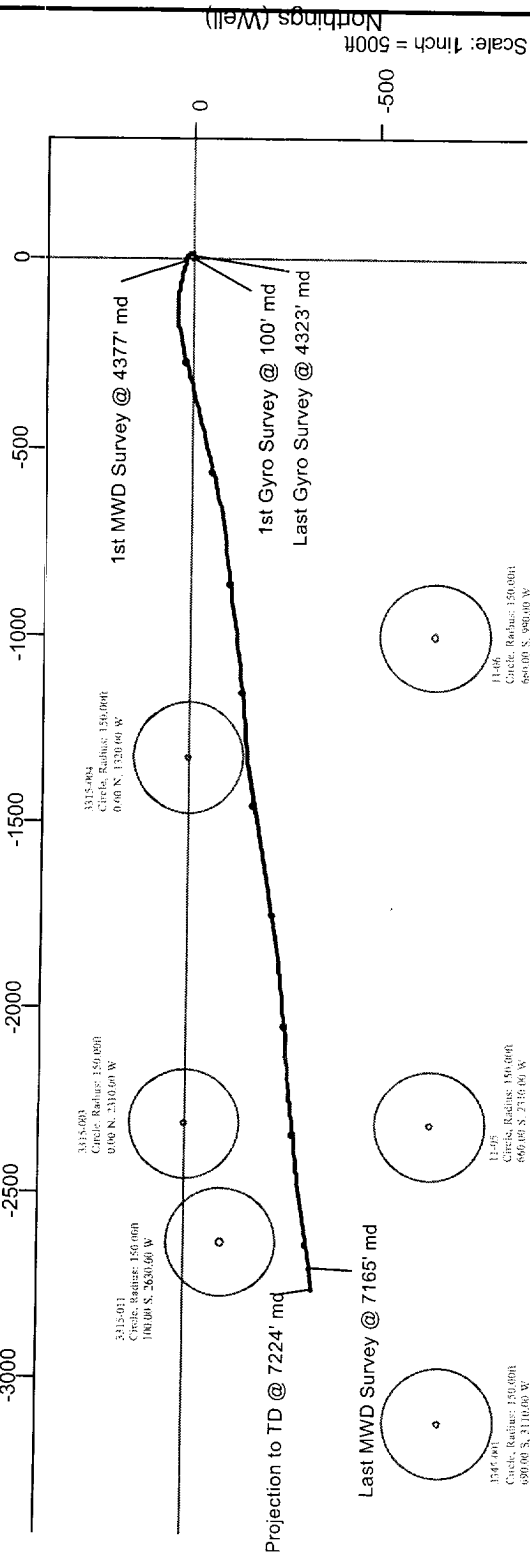
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	TVD (ft)	Northings (ft)	Eastings (ft)	
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7224.00	4533.99	344.03 S	2758.43 W	Projection to TD @ 7224' md

New Mexico
Lea County
Sec. 34, T17S-R35E
EVGSAU 3440-003

Scale: 1inch = 500ft

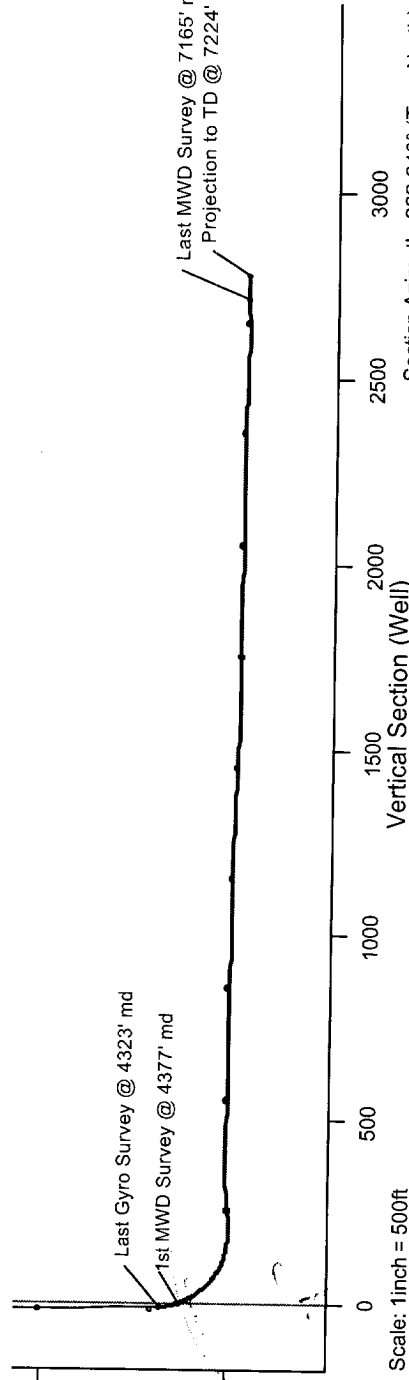


Eastings (Well)



Vertical Depth (Well)

Scale: 1inch = 500ft



Scale: 1inch = 500ft

Prepared by
Terry Herndon

Date: 7 June, 2002 - 9:35
Checked:

Approved: