

HALLIBURTON

Phillips Petroleum

EVGSAU 3328-001

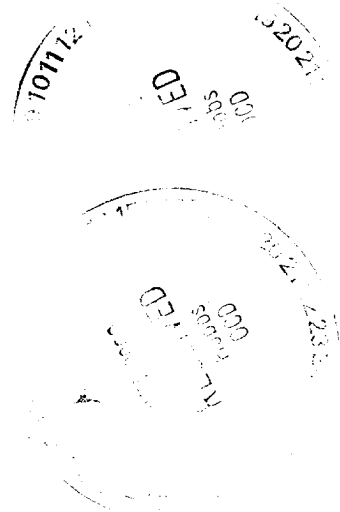
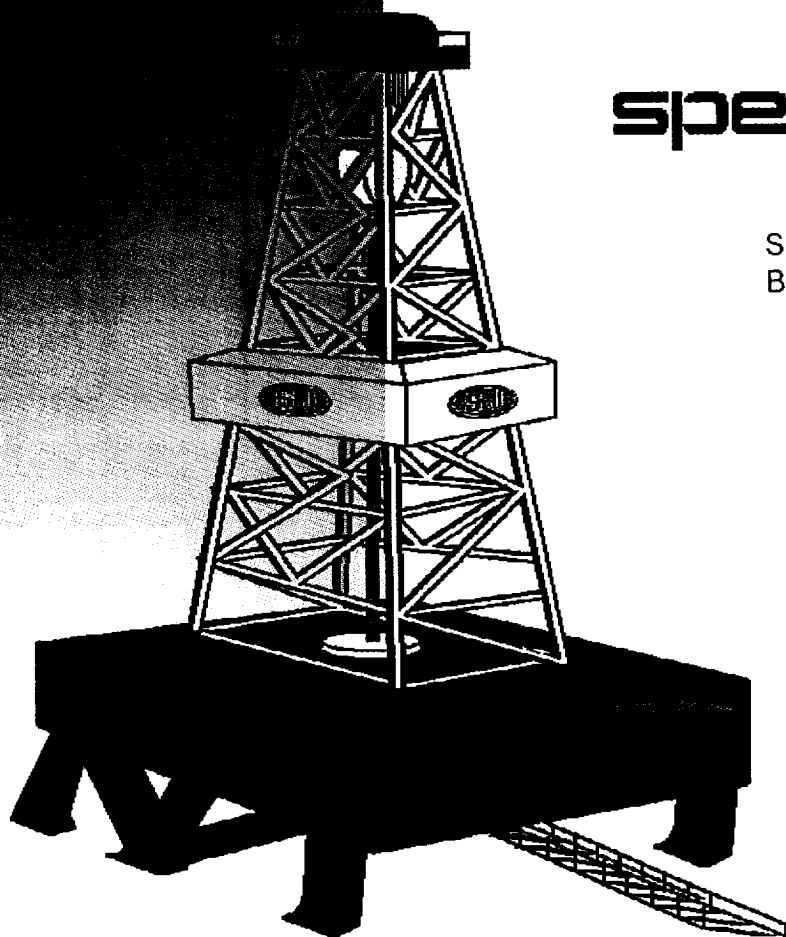
Lea County, New Mexico

Sec ~~34~~³³-T17S-R35E

May 28, 2002

sperry-sun

SUR: M-33-17s-35e, 660/S & 660/W
BHL: P-32-17s-35e, 661/S & 509/E
API #30-025-02980



sperry-sun

DRILLING SERVICES

A HALLIBURTON COMPANY

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

May 28, 2002

Re: Phillips Petroleum Company
EVGSAU 3328-001
Sec. 34-T17S-R35E
Lea County, New Mexico

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

Surveyed Depths

Dates Performed

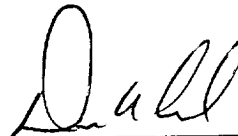
Type of Survey

4455' - 5593'
5593' - 5715'

04/03/02 - 04/07/02

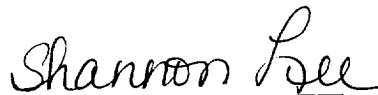
Directional/MWD
Projection to TD

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



Dennis Cook
Directional Driller

My Commission Expires: 11-30-03



Shannon Lee
Notary Public



Sperry-Sun Drilling Services

***Phillips Petroleum Company
New Mexico
Lea County
EVGSAU 3328-001 - MWD Surveys***

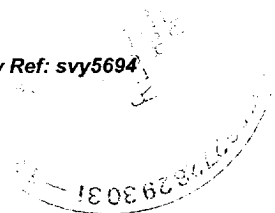
Survey Report

15 April, 2002

Data Source: Information from Location

**HALLIBURTON
Sperry-Sun**

Survey Ref: svy5694



Sperry-Sun Drilling Services

Survey Report for EVGSAU 3328-001
Data Source: Information from Location

Phillips Petroleum Company
New Mexico

Lea County

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		1st Gyro Survey @ 104' md
104.00	0.020	176.510	104.00	0.02 S	0.00 E	0.00	0.02	
204.00	0.020	194.090	204.00	0.05 S	0.00 E	0.00	0.01	
304.00	0.120	335.110	304.00	0.03 N	0.05 W	0.05	0.14	
404.00	0.140	314.010	404.00	0.21 N	0.18 W	0.18	0.05	
504.00	0.100	195.850	504.00	0.21 N	0.29 W	0.29	0.21	
604.00	0.040	215.970	604.00	0.09 N	0.34 W	0.34	0.06	
704.00	0.060	226.790	704.00	0.03 N	0.40 W	0.40	0.02	
804.00	0.190	183.470	804.00	0.17 S	0.45 W	0.45	0.15	
904.00	0.240	187.630	904.00	0.54 S	0.48 W	0.48	0.05	
1004.00	0.790	185.670	1003.99	1.44 S	0.58 W	0.58	0.55	
1104.00	1.360	201.850	1103.98	3.23 S	1.09 W	1.09	0.64	
1204.00	1.750	203.650	1203.94	5.73 S	2.14 W	2.14	0.39	
1304.00	1.250	200.920	1303.90	8.14 S	3.14 W	3.14	0.50	
1404.00	0.710	199.140	1403.89	9.75 S	3.74 W	3.74	0.54	
1504.00	0.430	206.600	1503.88	10.67 S	4.11 W	4.11	0.29	
1604.00	0.410	212.190	1603.88	11.31 S	4.47 W	4.47	0.05	
1704.00	0.530	188.460	1703.88	12.07 S	4.73 W	4.73	0.23	
1804.00	0.320	283.100	1803.88	12.46 S	5.07 W	5.07	0.64	
1904.00	0.340	198.930	1903.88	12.68 S	5.43 W	5.43	0.44	
2004.00	0.400	208.780	2003.87	13.26 S	5.70 W	5.70	0.09	
2104.00	0.270	245.350	2103.87	13.67 S	6.08 W	6.08	0.24	
2204.00	0.300	237.300	2203.87	13.91 S	6.52 W	6.52	0.05	
2304.00	0.220	307.780	2303.87	13.93 S	6.89 W	6.89	0.31	
2404.00	0.270	39.290	2403.87	13.63 S	6.89 W	6.89	0.35	
2504.00	0.260	70.100	2503.87	13.37 S	6.53 W	6.53	0.14	
2604.00	0.560	76.120	2603.87	13.18 S	5.84 W	5.84	0.30	
2704.00	0.700	78.660	2703.86	12.94 S	4.77 W	4.77	0.14	
2804.00	0.700	63.790	2803.85	12.55 S	3.62 W	3.62	0.18	
2904.00	0.430	66.480	2903.85	12.13 S	2.73 W	2.73	0.27	
3004.00	0.370	54.130	3003.84	11.79 S	2.12 W	2.12	0.10	
3104.00	0.280	40.660	3103.84	11.42 S	1.70 W	1.70	0.12	
3204.00	0.570	348.760	3203.84	10.75 S	1.64 W	1.64	0.45	
3304.00	0.720	333.690	3303.83	9.69 S	2.01 W	2.01	0.23	
3404.00	0.900	327.630	3403.82	8.47 S	2.71 W	2.71	0.20	
3504.00	0.920	320.740	3503.81	7.18 S	3.64 W	3.64	0.11	
3604.00	1.150	319.830	3603.80	5.79 S	4.80 W	4.80	0.23	
3704.00	1.050	323.350	3703.78	4.29 S	5.99 W	5.99	0.12	
3804.00	0.990	325.370	3803.76	2.85 S	7.03 W	7.03	0.07	
3904.00	1.150	338.270	3903.74	1.20 S	7.89 W	7.89	0.29	
4004.00	1.450	346.180	4003.72	0.96 N	8.56 W	8.56	0.35	
4104.00	1.400	333.990	4103.69	3.28 N	9.40 W	9.40	0.31	
4204.00	1.510	319.430	4203.66	5.38 N	10.80 W	10.80	0.38	
4304.00	1.450	322.060	4303.62	7.38 N	12.43 W	12.43	0.09	
4404.00	1.740	323.330	4403.58	9.60 N	14.11 W	14.11	0.29	

Sperry-Sun Drilling Services

Survey Report for EVGSAU 3328-001
Data Source: Information from Location

Phillips Petroleum Company
New Mexico

Lea County

Measured Depth (ft)	Incl. (Deg)	Azim. (Deg)	Station Coordinates			Vertical Section (ft)	Dogleg Rate (°/100ft)	Comment
			TVD (ft)	Northings (ft)	Eastings (ft)			
4426.00	1.620	326.420	4425.57	10.12 N	14.49 W	14.49	0.68	
MWD Surveys								
4455.00	7.100	289.300	4454.48	11.06 N	16.41 W	16.41	20.31	1st MWD Survey @ 4455' md
4486.00	15.600	288.600	4484.85	13.03 N	22.18 W	22.18	27.42	
4518.00	24.100	287.100	4514.92	16.32 N	32.52 W	32.52	26.61	
4549.00	31.700	281.700	4542.30	19.84 N	46.56 W	46.56	25.81	
4581.00	39.000	274.600	4568.39	22.36 N	64.87 W	64.87	26.14	
4612.00	45.700	266.800	4591.31	22.52 N	85.70 W	85.70	27.43	
4644.00	53.500	263.800	4612.03	20.49 N	109.96 W	109.96	25.39	
4675.00	62.400	262.700	4628.47	17.39 N	136.03 W	136.03	28.87	
4708.00	70.900	262.900	4641.54	13.60 N	166.06 W	166.06	25.76	
4740.00	79.300	264.600	4649.76	10.25 N	196.77 W	196.77	26.75	
4771.00	83.600	265.600	4654.36	7.63 N	227.31 W	227.31	14.23	
4803.00	87.200	266.800	4656.93	5.52 N	259.13 W	259.13	11.85	
4835.00	91.000	268.500	4657.43	4.21 N	291.09 W	291.09	13.01	
4866.00	94.000	270.000	4656.08	3.80 N	322.06 W	322.06	10.82	
4898.00	96.000	270.400	4653.29	3.91 N	353.93 W	353.93	6.37	
4929.00	96.300	270.600	4649.97	4.18 N	384.75 W	384.75	1.16	
4961.00	96.300	270.400	4646.46	4.46 N	416.56 W	416.56	0.62	
4993.00	95.900	270.200	4643.06	4.63 N	448.38 W	448.38	1.40	
5025.00	96.100	269.500	4639.71	4.54 N	480.20 W	480.20	2.26	
5056.00	95.700	270.100	4636.53	4.43 N	511.04 W	511.04	2.32	
5088.00	96.400	270.200	4633.16	4.52 N	542.86 W	542.86	2.21	
5120.00	95.400	270.500	4629.87	4.71 N	574.69 W	574.69	3.26	
5151.00	94.400	270.300	4627.22	4.93 N	605.57 W	605.57	3.29	
5183.00	93.200	270.800	4625.10	5.23 N	637.50 W	637.50	4.06	
5214.00	92.400	270.100	4623.58	5.48 N	668.46 W	668.46	3.43	
5246.00	91.200	270.400	4622.58	5.62 N	700.44 W	700.44	3.87	
5278.00	90.700	270.400	4622.05	5.84 N	732.44 W	732.44	1.56	
5309.00	91.900	270.000	4621.34	5.95 N	763.43 W	763.43	4.08	
5341.00	93.100	270.200	4619.95	6.00 N	795.40 W	795.40	3.80	
5373.00	94.000	269.900	4617.97	6.03 N	827.34 W	827.34	2.96	
5404.00	93.500	270.000	4615.94	6.01 N	858.27 W	858.27	1.64	
5435.00	92.400	270.000	4614.34	6.01 N	889.23 W	889.23	3.55	
5467.00	92.200	269.300	4613.06	5.81 N	921.20 W	921.20	2.27	
5499.00	91.300	268.800	4612.08	5.28 N	953.18 W	953.18	3.22	
5530.00	92.100	268.800	4611.16	4.63 N	984.16 W	984.16	2.58	
5561.00	90.800	268.600	4610.38	3.93 N	1015.14 W	1015.14	4.24	
5593.00	91.000	269.000	4609.88	3.26 N	1047.13 W	1047.13	1.40	Last MWD Survey @ 5593' md
5715.00	91.000	269.000	4607.75	1.13 N	1169.10 W	1169.10	0.00	Projection to TD @ 5715' md

Sperry-Sun Drilling Services

Survey Report for EVGSAU 3328-001
Data Source: Information from Location

Phillips Petroleum Company
New Mexico

Lea County

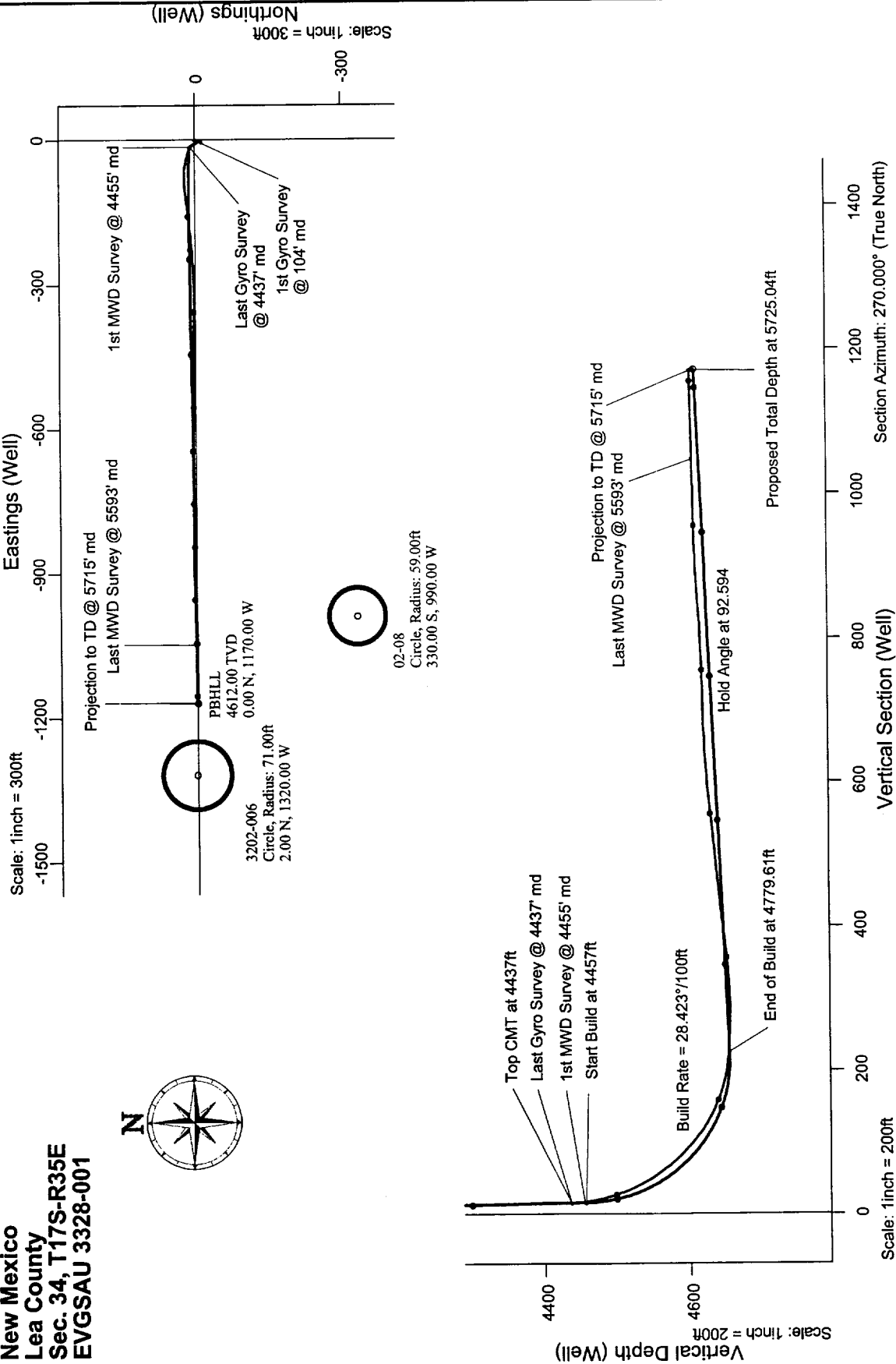
All data is in Feet (US) unless otherwise stated. Directions and coordinates are relative to True North.
Vertical depths are relative to Well. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet.
Vertical Section is from Well and calculated along an Azimuth of 270.000° (True).

Magnetic Declination at Surface is 7.842° (15-Apr-02)

Based upon Minimum Curvature type calculations, at a Measured Depth of 5715.00ft.,
The Bottom Hole Displacement is 1169.10ft., in the Direction of 270.055° (True).

New Mexico
Lea County
Sec. 34, T17S-R35E
EVGSAU 3328-001



Prepared by: Terry Herndon
Date/Time: 15 April, 2002 - 9:18
Checked:
Approved: