

HALLIBURTON

Phillips Petroleum

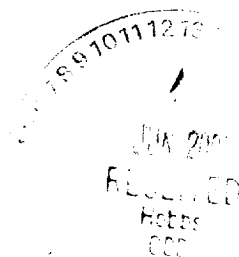
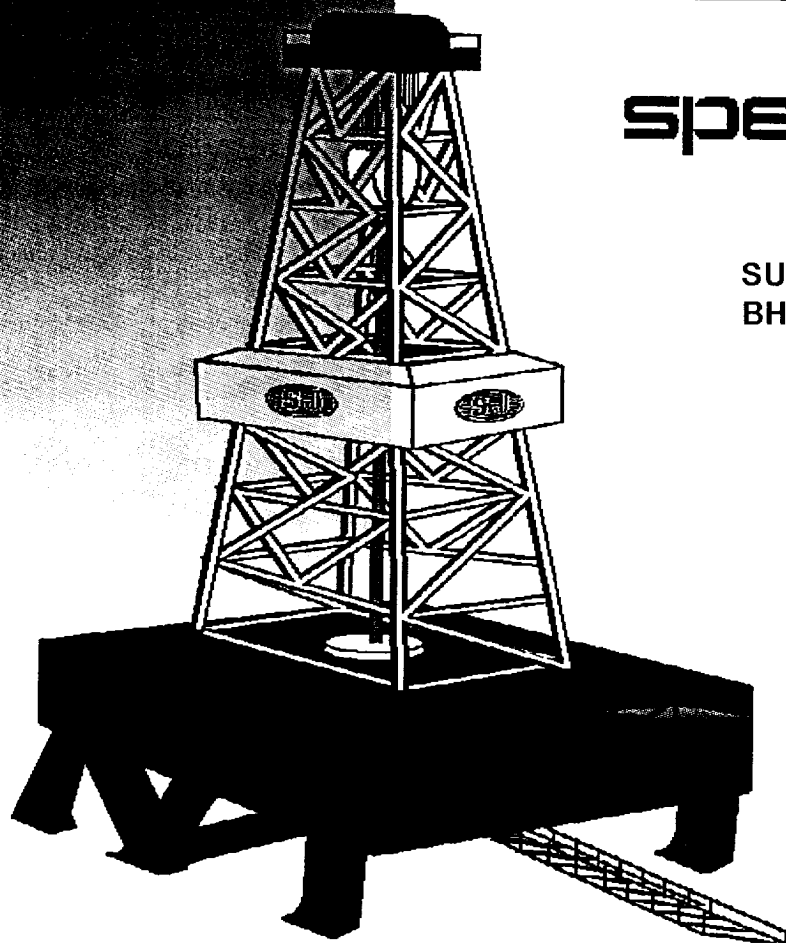
EVGSAU 0449-039
Lea County, New Mexico
Sec 05-T18S-R35E

May 28, 2002

sperry-sun

SUR: 660/N & 660/W, 4-18s-35e
BHL: 492/N & 1834/E, B-5-18s-35e
API # 30-025-03041

Kz



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 0449-039
Sec. 05-T18S-R35E
Lea County, New Mexico

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

Surveyed Depths

Dates Performed

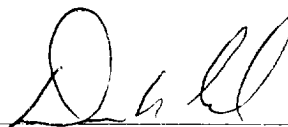
Type of Survey

4438' - 6915'
6915' - 6994'

05/08/02 - 05/17/02

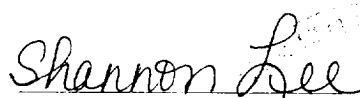
Directional/MWD
Projection to TD

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

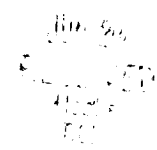


Dennis Cook
Directional Driller

My Commission Expires: 11-30-03



Shannon Lee
Notary Public



Phillips Petroleum Company

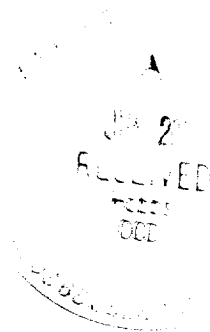
***New Mexico
Lea County
EVGSAU 0449-039 - MWD Surveys***

Survey Report

16 May, 2002

Data Source: Information from Location

**HALLIBURTON
Sperry-Sun**



Survey Ref: svy5783

Phillips Petroleum Company

Survey Report for EVGSAU 0449-039
Data Source: Information from Location

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		
100.00	0.390	338.480	100.00	0.32 N	0.12 W	0.15	0.39	
200.00	0.400	324.560	200.00	0.92 N	0.45 W	0.51	0.10	
300.00	0.440	303.210	299.99	1.41 N	0.98 W	1.07	0.16	
400.00	0.510	293.630	399.99	1.80 N	1.70 W	1.82	0.11	
500.00	0.460	272.050	499.99	1.99 N	2.51 W	2.64	0.19	
600.00	0.760	288.480	599.98	2.22 N	3.54 W	3.68	0.34	
700.00	0.700	298.480	699.97	2.72 N	4.71 W	4.88	0.14	
800.00	0.630	300.140	799.97	3.29 N	5.72 W	5.93	0.07	
900.00	1.150	306.850	899.95	4.17 N	7.00 W	7.26	0.53	
1000.00	0.980	298.860	999.94	5.18 N	8.55 W	8.88	0.23	
1100.00	0.750	302.380	1099.93	5.94 N	9.85 W	10.22	0.24	
1200.00	0.560	288.200	1199.92	6.45 N	10.87 W	11.27	0.25	
1300.00	0.170	282.750	1299.92	6.63 N	11.48 W	11.89	0.39	
1400.00	0.290	310.380	1399.92	6.83 N	11.82 W	12.24	0.16	
1500.00	0.320	279.970	1499.91	7.04 N	12.29 W	12.72	0.16	
1600.00	0.400	284.650	1599.91	7.18 N	12.90 W	13.34	0.09	
1700.00	0.390	290.140	1699.91	7.38 N	13.56 W	14.01	0.04	
1800.00	0.790	274.710	1799.91	7.56 N	14.56 W	15.03	0.43	
1900.00	0.740	289.530	1899.90	7.83 N	15.86 W	16.34	0.20	
2000.00	0.810	280.560	1999.89	8.17 N	17.16 W	17.66	0.14	
2100.00	1.250	286.180	2099.87	8.61 N	18.90 W	19.43	0.45	
2200.00	1.620	284.780	2199.84	9.27 N	21.32 W	21.88	0.37	
2300.00	1.550	274.850	2299.80	9.75 N	24.03 W	24.62	0.28	
2400.00	1.380	274.970	2399.77	9.97 N	26.58 W	27.18	0.17	
2500.00	1.370	276.730	2499.74	10.21 N	28.97 W	29.58	0.04	
2600.00	1.300	279.050	2599.71	10.53 N	31.27 W	31.90	0.09	
2700.00	1.120	281.550	2699.69	10.90 N	33.35 W	34.00	0.19	
2800.00	1.170	286.610	2799.67	11.39 N	35.29 W	35.96	0.11	
2900.00	1.320	294.590	2899.65	12.16 N	37.31 W	38.03	0.23	
3000.00	1.350	299.580	2999.62	13.22 N	39.38 W	40.17	0.12	
3100.00	1.360	301.560	3099.59	14.42 N	41.42 W	42.28	0.05	
3200.00	1.640	303.180	3199.56	15.83 N	43.63 W	44.58	0.28	
3300.00	1.470	307.600	3299.52	17.39 N	45.84 W	46.89	0.21	
3400.00	1.250	319.520	3399.49	19.01 N	47.57 W	48.72	0.36	
3500.00	1.300	323.100	3499.47	20.74 N	48.96 W	50.22	0.09	
3600.00	1.560	330.100	3599.44	22.83 N	50.32 W	51.71	0.31	
3700.00	1.680	331.880	3699.40	25.30 N	51.69 W	53.24	0.13	
3800.00	1.850	342.160	3799.35	28.13 N	52.87 W	54.61	0.36	
3900.00	2.090	343.500	3899.29	31.42 N	53.88 W	55.84	0.24	
4000.00	2.400	345.480	3999.21	35.19 N	54.93 W	57.13	0.32	
4100.00	2.310	347.240	4099.13	39.19 N	55.90 W	58.36	0.12	
4200.00	2.670	343.390	4199.03	43.38 N	57.01 W	59.74	0.40	
4300.00	1.890	322.900	4298.96	46.93 N	58.67 W	61.63	1.12	
4400.00	2.310	298.550	4398.89	49.21 N	61.43 W	64.54	0.98	

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JUN 20
2002
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Phillips Petroleum Company

Survey Report for EVGSAU 0449-039
Data Source: Information from Location

New Mexico

Lea County

Measured Depth (ft)	Incl. (Deg)	Azim. (Deg)	Station TVD (ft)	Coordinates Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Comment
4418.00	2.340	295.320	4416.88	49.54 N	62.08 W	65.21	0.75	
MWD Surveys								
4438.00	3.834	287.432	4436.85	49.91 N	63.09 W	66.24	7.75	BHA # 1 / 2.83° Standard Motor / XS30S
4452.00	4.900	284.800	4450.81	50.21 N	64.12 W	67.29	7.75	1st MWD Survey @ 4452' md
4484.00	11.600	281.000	4482.46	51.17 N	68.60 W	71.82	21.00	
4516.00	19.900	281.200	4513.23	52.85 N	77.12 W	80.43	25.94	
4549.00	29.500	282.400	4543.17	55.69 N	90.59 W	94.07	29.13	
4566.00	35.310	283.504	4557.52	57.74 N	99.46 W	103.05	34.35	BHA # 2 / 3.28° Standard Motor / XS30S
4580.00	40.100	284.200	4568.59	59.79 N	107.77 W	111.48	34.35	
4612.00	50.900	283.700	4590.99	65.27 N	129.90 W	133.92	33.77	
4644.00	61.500	279.300	4608.77	70.50 N	155.92 W	160.23	35.03	
4684.00	74.300	274.900	4623.80	75.01 N	192.61 W	197.14	33.57	
4716.00	81.100	276.000	4630.61	77.98 N	223.72 W	228.37	21.51	BHA # 3 / 1.83° Performance Motor / FM2633
4747.00	84.000	276.100	4634.63	81.22 N	254.28 W	259.08	9.36	
4780.00	86.200	276.000	4637.45	84.69 N	286.98 W	291.94	6.67	
4807.00	87.550	276.422	4638.92	87.60 N	313.78 W	318.87	5.24	BHA # 4 / 1.83° Standard Motor / XS30S
4812.00	87.800	276.500	4639.12	88.16 N	318.74 W	323.86	5.24	
4844.00	91.700	276.900	4639.26	91.90 N	350.52 W	355.81	12.25	
4876.00	94.700	277.500	4637.48	95.90 N	382.21 W	387.70	9.56	
4908.00	95.100	277.700	4634.74	100.12 N	413.82 W	419.52	1.40	
4940.00	94.900	277.600	4631.95	104.36 N	445.41 W	451.32	0.70	
4972.00	93.700	277.400	4629.55	108.53 N	477.05 W	483.16	3.80	
5004.00	93.400	277.100	4627.57	112.56 N	508.73 W	515.04	1.32	
5037.00	93.100	276.600	4625.70	116.49 N	541.44 W	547.94	1.76	
5068.00	92.600	276.600	4624.16	120.04 N	572.20 W	578.87	1.61	
5100.00	92.500	276.400	4622.74	123.66 N	603.96 W	610.80	0.70	
5132.00	92.100	276.500	4621.45	127.26 N	635.73 W	642.74	1.29	
5164.00	91.800	276.400	4620.36	130.85 N	667.51 W	674.68	0.99	
5196.00	91.700	276.500	4619.39	134.44 N	699.29 W	706.64	0.44	
5228.00	92.500	276.700	4618.21	138.12 N	731.06 W	738.57	2.58	
5260.00	93.000	277.000	4616.68	141.93 N	762.79 W	770.49	1.82	
5292.00	92.600	277.000	4615.11	145.82 N	794.52 W	802.40	1.25	
5324.00	91.100	276.200	4614.08	149.50 N	826.29 W	834.35	5.31	
5357.00	91.800	275.800	4613.25	152.95 N	859.10 W	867.31	2.44	
5389.00	93.500	275.400	4611.77	156.07 N	890.91 W	899.26	5.46	
5420.00	94.300	274.600	4609.66	158.76 N	921.72 W	930.18	3.65	
5452.00	94.200	274.400	4607.29	161.27 N	953.53 W	962.09	0.70	
5484.00	94.100	273.200	4604.97	163.38 N	985.38 W	994.01	3.75	
5516.00	93.400	272.900	4602.88	165.08 N	1017.26 W	1025.93	2.38	
5548.00	93.800	273.100	4600.87	166.75 N	1049.16 W	1057.87	1.40	
5580.00	91.900	272.800	4599.28	168.40 N	1081.07 W	1089.82	6.01	
5611.00	90.100	271.900	4598.74	169.67 N	1112.04 W	1120.81	6.49	

Phillips Petroleum Company

Survey Report for EVGSAU 0449-039

Data Source: Information from Location

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)						
5642.00	90.100	270.400	4598.68	170.29 N	1143.03 W	1151.77	4.84	
5674.00	90.700	269.700	4598.46	170.32 N	1175.03 W	1183.70	2.88	
5707.00	91.900	269.400	4597.71	170.06 N	1208.02 W	1216.61	3.75	
5738.00	91.400	268.900	4596.82	169.60 N	1239.01 W	1247.49	2.28	
5771.00	92.100	268.800	4595.81	168.94 N	1271.98 W	1280.35	2.14	
5802.00	92.900	268.900	4594.46	168.32 N	1302.95 W	1311.21	2.60	
5834.00	92.100	267.900	4593.06	167.42 N	1334.90 W	1343.04	4.00	
5866.00	92.300	267.500	4591.83	166.14 N	1366.85 W	1374.83	1.40	
5899.00	93.400	268.200	4590.19	164.90 N	1399.79 W	1407.62	3.95	
5931.00	93.200	268.700	4588.35	164.04 N	1431.73 W	1439.42	1.68	
5962.00	93.000	268.400	4586.67	163.26 N	1462.67 W	1470.25	1.16	
5994.00	93.400	269.300	4584.89	162.61 N	1494.61 W	1502.08	3.07	
6025.00	91.600	270.100	4583.54	162.45 N	1525.58 W	1532.97	6.35	
6057.00	90.100	270.600	4583.06	162.65 N	1557.58 W	1564.91	4.94	
6089.00	89.600	270.600	4583.15	162.98 N	1589.57 W	1596.86	1.56	
6121.00	89.500	270.600	4583.40	163.32 N	1621.57 W	1628.81	0.31	
6152.00	89.200	270.700	4583.75	163.67 N	1652.57 W	1659.76	1.02	
6184.00	89.200	270.700	4584.20	164.06 N	1684.56 W	1691.71	0.00	
6217.00	89.100	270.600	4584.68	164.44 N	1717.56 W	1724.66	0.43	
6249.00	89.000	270.500	4585.22	164.74 N	1749.55 W	1756.61	0.44	
6281.00	88.600	270.400	4585.89	164.99 N	1781.54 W	1788.54	1.29	
6313.00	89.200	270.500	4586.50	165.24 N	1813.54 W	1820.48	1.90	
6344.00	88.700	270.200	4587.07	165.43 N	1844.53 W	1851.42	1.88	
6377.00	89.200	270.200	4587.67	165.55 N	1877.52 W	1884.35	1.52	BHA # 5 / 1.83° Standard Motor / XS30S
6409.00	90.600	270.500	4587.73	165.74 N	1909.52 W	1916.29	4.47	
6440.00	91.100	270.900	4587.27	166.12 N	1940.52 W	1947.25	2.07	
6471.00	91.300	271.100	4586.62	166.66 N	1971.50 W	1978.20	0.91	
6502.00	92.200	271.300	4585.67	167.31 N	2002.48 W	2009.16	2.97	
6534.00	92.300	271.400	4584.42	168.07 N	2034.45 W	2041.10	0.44	
6566.00	91.400	270.800	4583.38	168.68 N	2066.43 W	2073.05	3.38	
6598.00	90.800	270.200	4582.77	168.96 N	2098.42 W	2104.99	2.65	
6629.00	90.700	270.400	4582.36	169.12 N	2129.42 W	2135.93	0.72	
6693.00	90.600	269.900	4581.64	169.29 N	2193.41 W	2199.80	0.80	
6725.00	90.200	269.400	4581.41	169.09 N	2225.41 W	2231.72	2.00	
6756.00	89.600	269.600	4581.47	168.82 N	2256.41 W	2262.63	2.04	
6788.00	89.100	269.600	4581.83	168.60 N	2288.41 W	2294.54	1.56	
6819.00	88.900	269.600	4582.37	168.38 N	2319.40 W	2325.46	0.65	
6851.00	89.200	269.600	4582.90	168.16 N	2351.39 W	2357.37	0.94	
6883.00	88.800	270.000	4583.46	168.05 N	2383.39 W	2389.28	1.77	
6915.00	88.800	269.900	4584.13	168.02 N	2415.38 W	2421.20	0.31	Last MWD Survey @ 6915' md
6994.00	88.800	269.900	4585.79	167.88 N	2494.37 W	2500.01	0.00	Straight Line Projection to TD @ 6994' md

Phillips Petroleum Company

*Survey Report for EVGSAU 0449-039
Data Source: Information from Location*

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 273.780° (True).

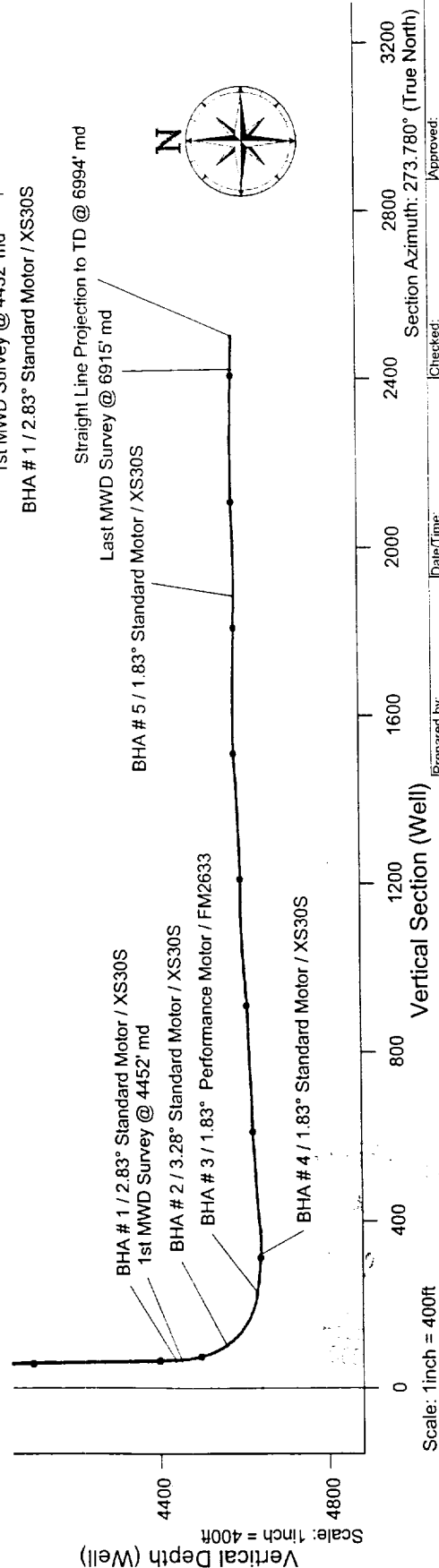
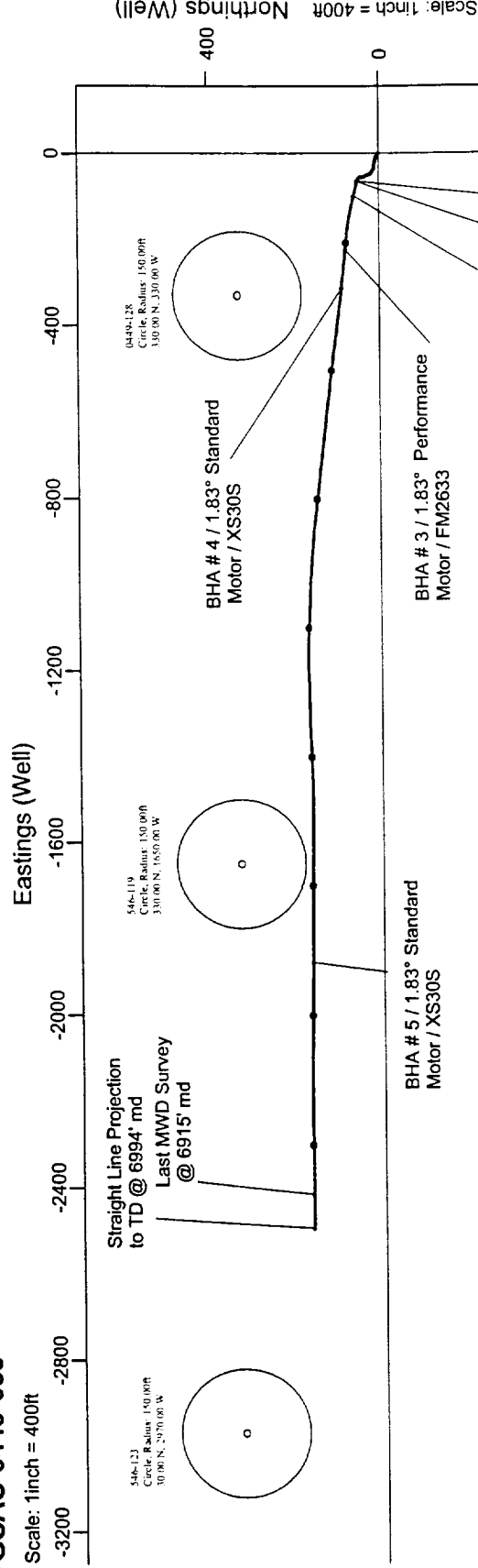
Magnetic Declination at Surface is 7.833° (16-May-02)

Based upon Minimum Curvature type calculations, at a Measured Depth of 6994.00ft.,
The Bottom Hole Displacement is 2500.01ft., in the Direction of 273.850° (True).

16 May 2002
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16 MAY 2002
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New Mexico
Lea County
Sec. 5, T18S-R35E
EVGSAU 0449-039

Scale: 1 inch = 400ft



Prepared by: Terry Hemdon
Date/Time: 16 May, 2002 - 15:31
Checked:
Approved: