

HALLIBURTON

ConocoPhillips

Survey Report

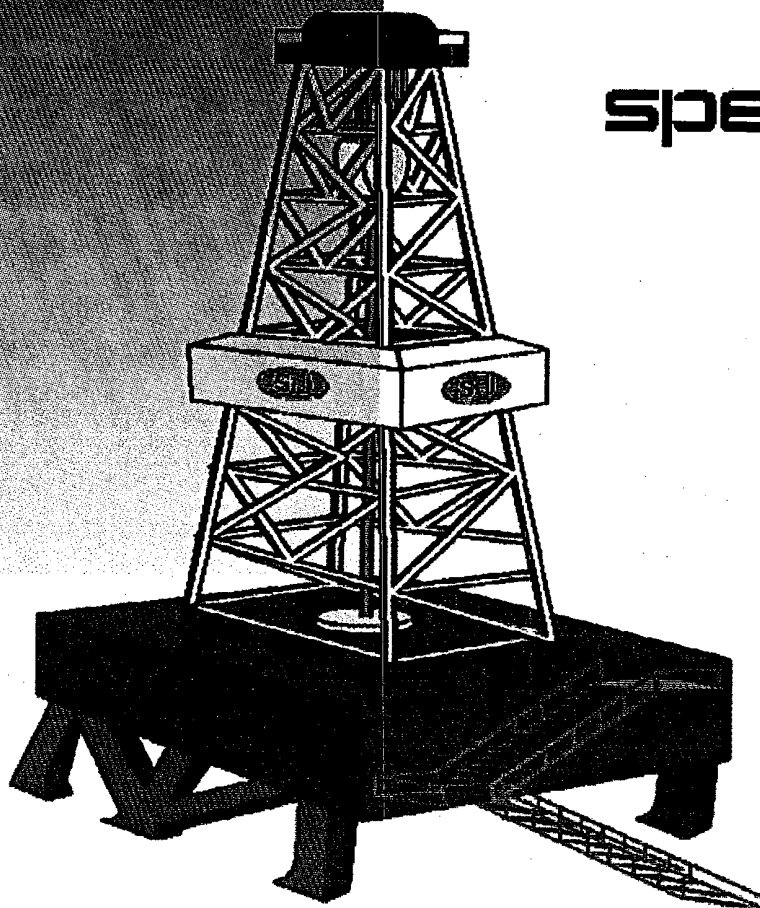
EVGSAU # 3440-002

Lea County, New Mexico

Sec. 34-T17S-R35E

February 15, 2003

sperry-sun



MAY 01 2003
10:00 AM
10:00 AM



**Phillips Petroleum Company
New Mexico
Lea County
EVGSAU 3440-002 - MWD Surveys**

Sperry-Sun

Survey Report

14 February, 2003

Data Source: Information from Location

Survey Ref: svy6180

HALLIBURTON

Survey Report for EVGSAU 3440-002
Data Source: Information from Location

Measured Depth (ft)	Incl. (Deg)	Azim. (Deg)	Station TVD (ft)	Coordinates Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Comment
Gyro								
4118.00	2.140	337.880	4117.71	11.58 N	2.36 E	-8.53		
MWD Surveys								
4161.00	4.600	269.900	4160.65	12.32 N	0.33 E	-7.29	9.96	1st MWD Survey @ 4210' md
4210.00	12.600	256.400	4209.06	11.06 N	6.84 W	-0.67	16.73	
4242.00	17.200	249.600	4239.98	8.59 N	14.67 W	7.17	15.35	
4273.00	20.900	242.600	4269.28	4.44 N	23.88 W	17.10	14.01	
4306.00	24.600	235.000	4299.71	2.21 S	34.74 W	29.82	14.30	
4337.00	28.000	231.600	4327.50	10.43 S	45.73 W	43.54	11.99	
4369.00	32.500	231.600	4355.14	20.44 S	58.36 W	59.62	14.06	
4401.00	37.300	231.200	4381.37	31.87 S	72.66 W	77.88	15.02	
4433.00	42.300	231.000	4405.95	44.73 S	88.60 W	98.30	15.63	
4465.00	46.100	231.200	4428.89	58.73 S	105.96 W	120.55	11.88	
4497.00	49.500	232.300	4450.38	73.40 S	124.58 W	144.20	10.93	
4528.00	53.000	233.300	4469.78	88.01 S	143.83 W	168.35	11.57	
4560.00	57.500	234.400	4488.02	103.51 S	165.06 W	194.63	14.34	
4592.00	62.000	235.800	4504.13	119.32 S	187.73 W	222.27	14.56	
4623.00	66.400	236.100	4517.62	134.94 S	210.85 W	250.17	14.22	
4650.00	70.100	236.400	4527.63	148.87 S	231.70 W	275.24	13.74	
4683.00	73.400	236.800	4537.96	166.12 S	257.86 W	306.56	10.07	
4715.00	78.100	236.500	4545.83	183.16 S	283.76 W	337.56	14.72	
4746.00	82.800	236.800	4550.98	199.96 S	309.29 W	368.12	15.19	
4778.00	87.700	235.800	4553.62	217.65 S	335.81 W	399.99	15.63	
4809.00	89.100	233.900	4554.49	235.49 S	361.15 W	430.98	7.61	
4841.00	89.300	233.600	4554.94	254.41 S	386.95 W	462.96	1.13	
4873.00	89.600	233.000	4555.24	273.54 S	412.61 W	494.94	2.10	
4905.00	90.600	232.600	4555.19	292.88 S	438.09 W	526.91	3.37	
4937.00	90.200	232.900	4554.97	312.25 S	463.57 W	558.88	1.56	
4969.00	89.100	233.500	4555.16	331.42 S	489.19 W	590.85	3.92	
5001.00	87.700	233.500	4556.05	350.45 S	514.90 W	622.82	4.38	
5032.00	86.700	234.500	4557.57	368.64 S	539.95 W	653.78	4.56	
5064.00	86.700	234.700	4559.41	387.15 S	565.99 W	685.72	0.62	
5096.00	86.900	234.500	4561.20	405.66 S	592.03 W	717.67	0.88	
5127.00	87.500	234.300	4562.71	423.68 S	617.21 W	748.63	2.04	
5157.00	87.800	234.000	4563.94	441.24 S	641.51 W	778.60	1.41	
5189.00	88.100	233.600	4565.09	460.13 S	667.31 W	810.57	1.56	
5221.00	88.700	233.500	4565.98	479.13 S	693.04 W	842.54	1.90	
5253.00	88.200	233.800	4566.85	498.09 S	718.81 W	874.51	1.82	
5285.00	88.200	233.600	4567.85	517.02 S	744.58 W	906.49	0.62	
5317.00	88.200	234.300	4568.86	535.85 S	770.44 W	938.46	2.19	
5349.00	88.600	234.300	4569.75	554.51 S	796.42 W	970.44	1.25	
5381.00	89.300	234.500	4570.34	573.14 S	822.43 W	1002.43	2.28	
5413.00	90.400	234.900	4570.42	591.63 S	848.55 W	1034.43	3.66	

Survey Report for EVGSAU 3440-002
Data Source: Information from Location

Measured Depth (ft)	Incl. (Deg)	Azim. (Deg)	Station Coordinates TVD (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Comment
5445.00	93.500	236.100	4569.33	609.74 S	874.90 W	1066.41	10.39	
5477.00	95.400	236.300	4566.85	627.49 S	901.41 W	1098.31	5.97	
5509.00	95.500	236.100	4563.81	645.21 S	927.88 W	1130.16	0.70	
5541.00	95.900	235.900	4560.63	663.01 S	954.28 W	1162.00	1.40	
5572.00	96.800	235.800	4557.20	680.31 S	979.78 W	1192.80	2.92	
5604.00	94.800	235.900	4553.97	698.18 S	1006.12 W	1224.64	6.26	
5636.00	92.900	236.400	4551.82	715.96 S	1032.64 W	1256.56	6.14	
5668.00	92.700	236.600	4550.26	733.60 S	1059.29 W	1288.52	0.88	
5701.00	93.100	236.300	4548.59	751.82 S	1086.76 W	1321.47	1.51	
5732.00	93.800	235.900	4546.72	769.08 S	1112.44 W	1352.41	2.60	
5764.00	94.200	235.600	4544.49	787.04 S	1138.83 W	1384.33	1.56	
5796.00	94.400	235.600	4542.09	805.07 S	1165.16 W	1416.24	0.63	
5828.00	94.400	235.800	4539.63	823.05 S	1191.51 W	1448.14	0.62	
5860.00	94.600	235.400	4537.12	841.07 S	1217.84 W	1480.04	1.39	
5891.00	95.000	235.200	4534.53	858.66 S	1243.23 W	1510.93	1.44	
5923.00	95.400	235.000	4531.63	876.89 S	1269.37 W	1542.80	1.40	
5956.00	95.800	234.900	4528.41	895.75 S	1296.26 W	1575.64	1.25	
5987.00	95.500	234.700	4525.36	913.54 S	1321.46 W	1606.49	1.16	
6019.00	94.400	235.000	4522.60	931.89 S	1347.53 W	1638.37	3.56	
6051.00	94.300	235.200	4520.17	950.15 S	1373.70 W	1670.28	0.70	
6076.00	94.200	234.900	4518.32	964.43 S	1394.14 W	1695.21	1.26	Last MWD Survey @ 6076' md
6131.00	94.200	234.900	4514.29	995.97 S	1439.01 W	1750.06	0.00	Projection to TD @ 6131' 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 235.300° (True).

Magnetic Declination at Surface is 7.751° (09-Feb-03)

Based upon Minimum Curvature type calculations, at a Measured Depth of 6131.00ft.,
The Bottom Hole Displacement is 1750.06ft., in the Direction of 235.312° (True).

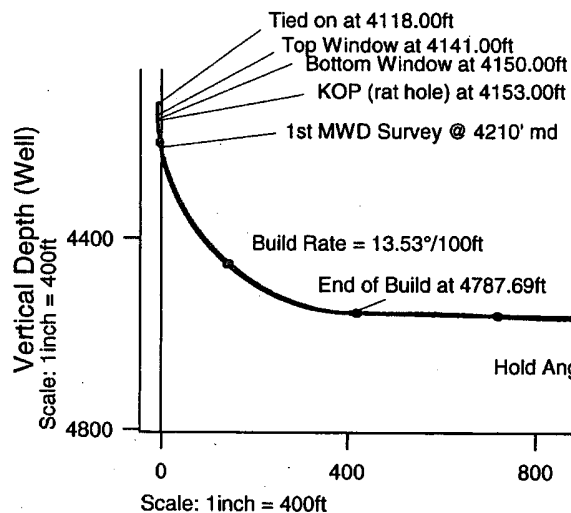
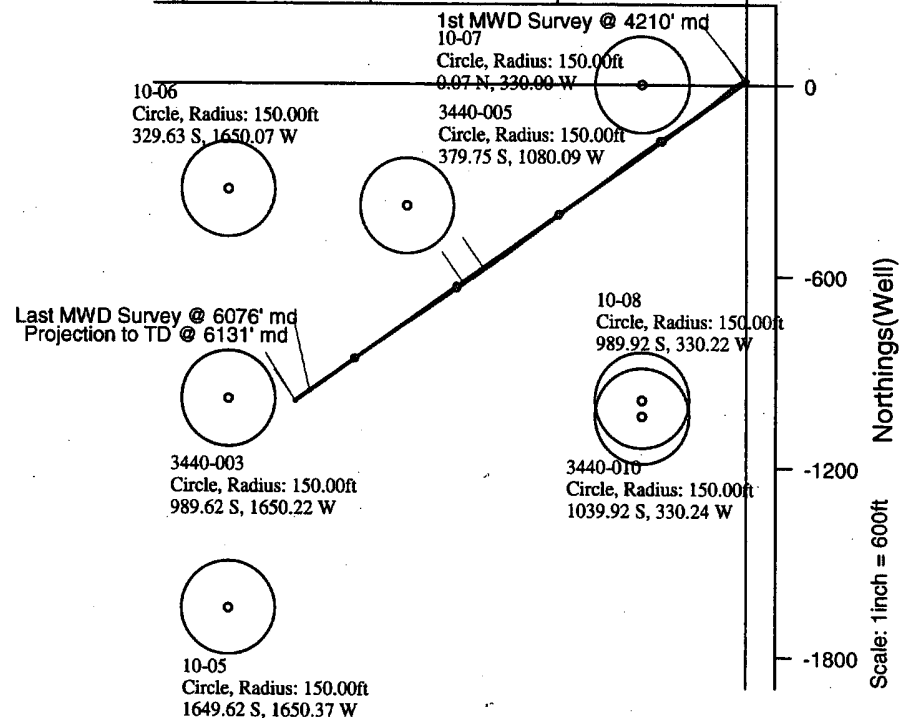
Comments

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6076.00	4518.32	964.43 S	1394.14 W	Last MWD Survey @ 6076' md
6131.00	4514.29	995.97 S	1439.01 W	Projection to TD @ 6131' md

New Mexico
Lea County
Sec. 34, T17S-R35E
EVGSAU 3440-002

Scale: 1 inch = 600ft Eastings(Well)

-1800 -1200 -600 0



Section Azimuth: 235.299° (True North)

Prepared by:
Admin

Date/Time:
14 February, 2003 - 17:17

Checked:

Approved: