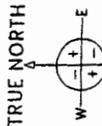


sperry-sun
DRILLING SERVICES

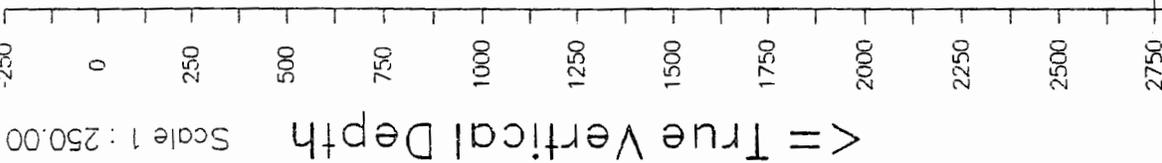
OKLAHOMA CITY, OKLAHOMA
(800)447-7845

PLAINS PETROLEUM OPERATING COMPANY

Structure : SEC.07-T23S-R36W Well : CONKLIN #1
Field : HUGOTON Location : KEARNEY CO., KANSAS

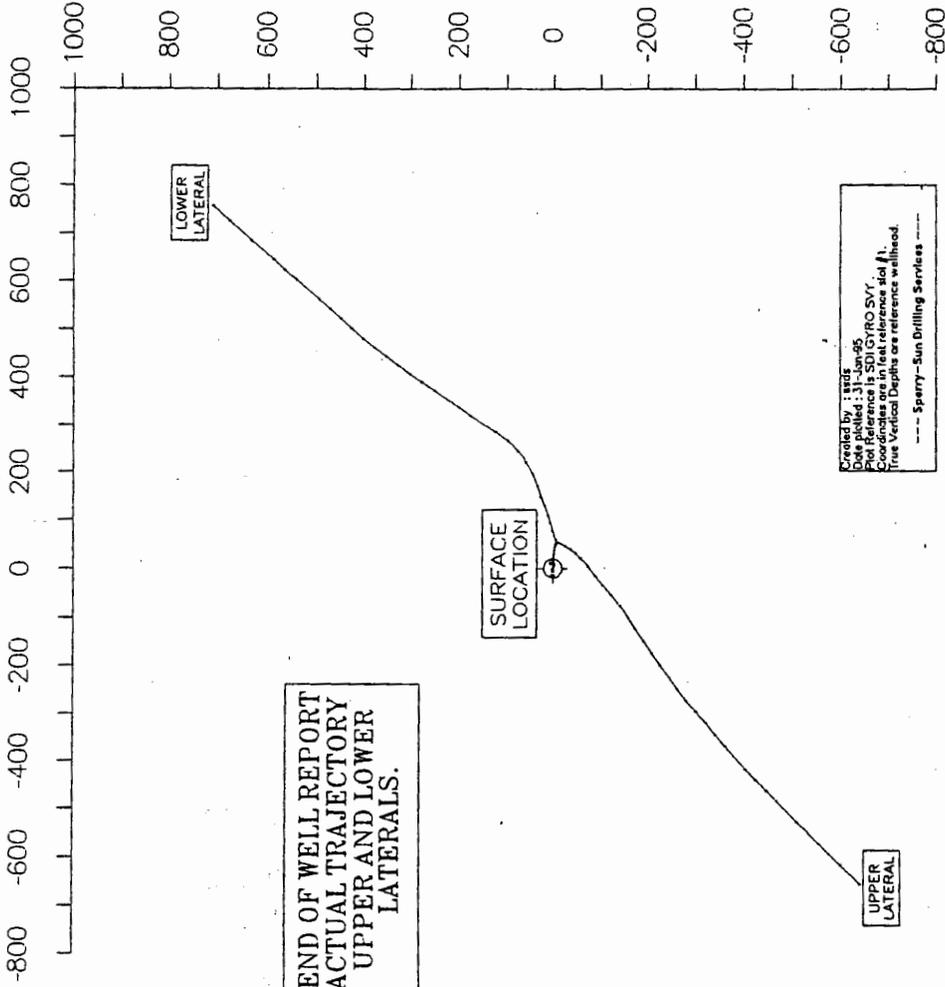


DECLINATION:
8.776 DEG. EAST



East =>

Scale 1 : 200.00



END OF WELL REPORT
ACTUAL TRAJECTORY
UPPER AND LOWER
LATERALS.

Created by : sads
Date plotted : 31-Jan-95
Plot Reference is SDI CYTRO SVR
Vertical Depth is in feet (ft).
True Vertical Depth is reference wellhead.
--- Sperry-Sun Drilling Services ---

^ = North

Scale 1 : 200.00

Vertical Section on 98.01 azimuth with reference 0.00 N, 0.00 E from slot #1
Scale 1 : 250.00

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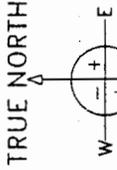
PLAINS PETROLEUM OPERATING COMPANY

Structure : SEC.07-T23S-R36W

Well : CONKLIN #1

Field : HUGOTON

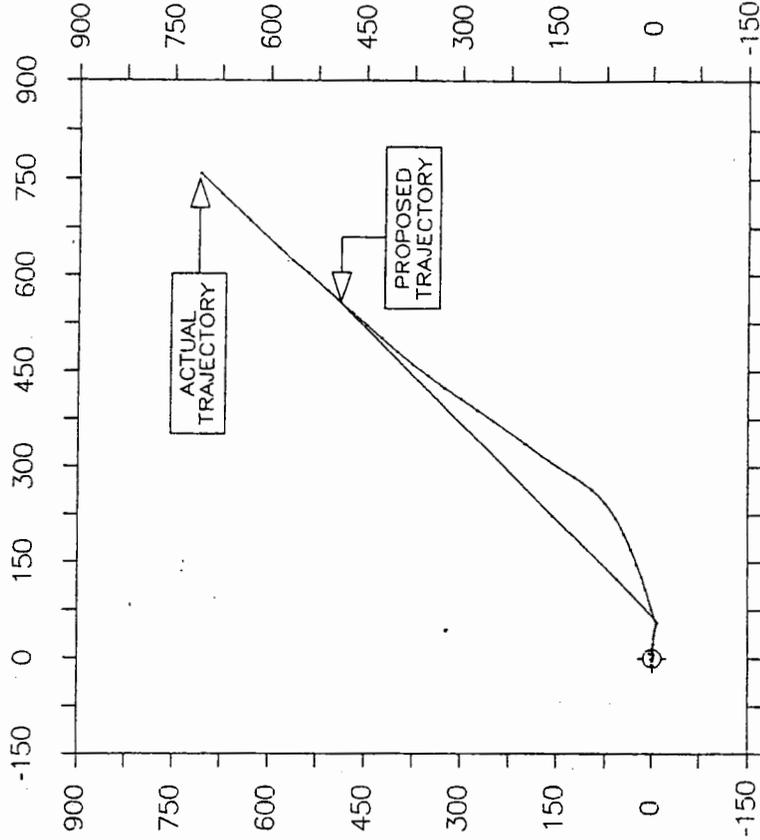
Location : KEARNEY CO., KANSAS



DECLINATION:
8.776 DEG. EAST

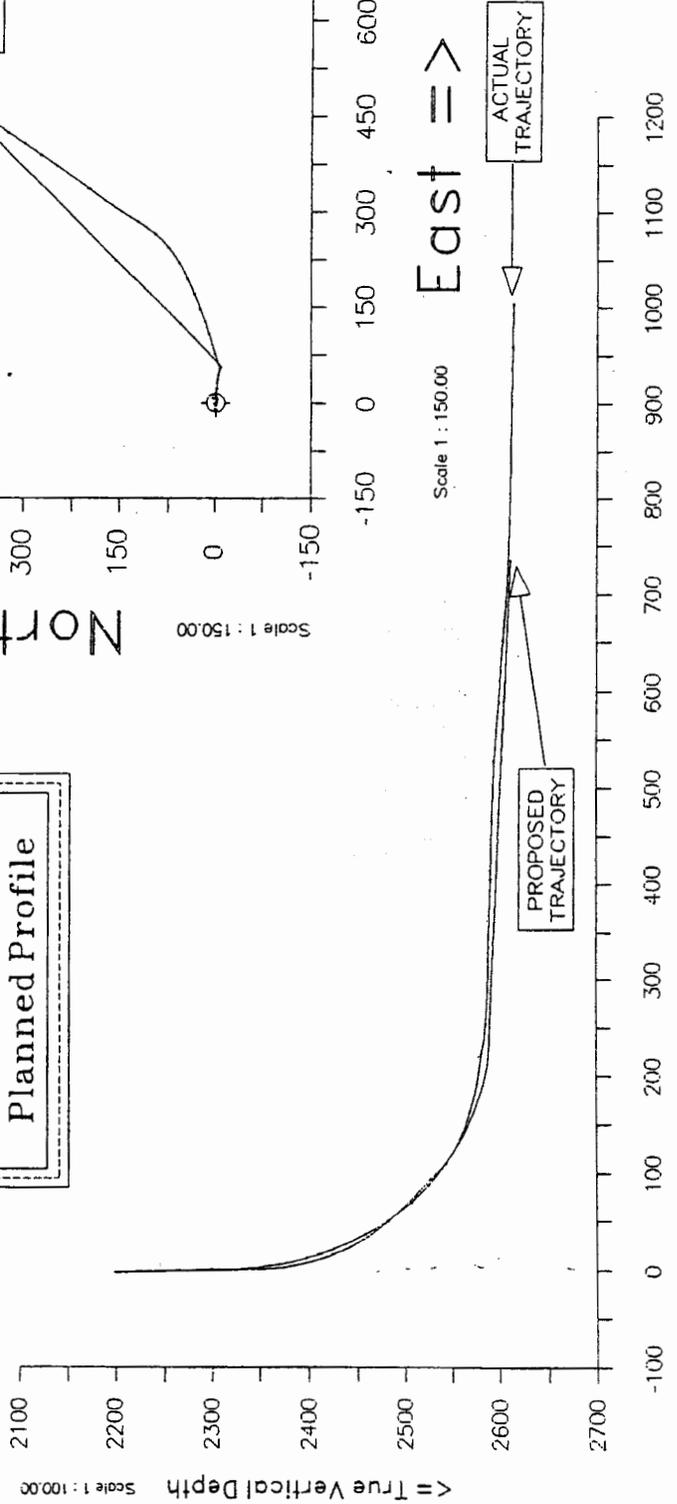
East =>

Scale 1 : 150.00



LOWER LATERAL

End Of Well Report:
Actual Trajectory
Versus
Planned Profile



Scale 1 : 100
Solid line = 31.10000
Dashed line = 31.10000
All Reference is LOWER LAT. WGS 84 SVY
Coordinates are in feet reference and ft.
Your Vertical Depth are reference surface
--- Sperry-Sun Drilling Services ---

Scale 1 : 100.00 Vertical Section on 45.29 azimuth with reference 7.66 S, 54.24 E from slot #1

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100Ft	Vert Sect
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	0.00
100.00	0.28	244.87	100.00	0.10 S	0.22 W	0.28	-0.23
200.00	0.35	196.50	200.00	0.50 S	0.53 W	0.26	-0.73
300.00	0.34	199.59	300.00	1.07 S	0.72 W	0.02	-1.26
400.00	0.20	251.08	400.00	1.41 S	0.98 W	0.27	-1.68
500.00	0.16	122.90	500.00	1.54 S	1.03 W	0.32	-1.80
600.00	0.04	213.59	600.00	1.65 S	0.93 W	0.16	-1.80
700.00	0.10	56.09	700.00	1.63 S	0.88 W	0.14	-1.75
800.00	0.04	37.57	799.99	1.55 S	0.78 W	0.06	-1.63
900.00	0.33	166.16	899.99	1.80 S	0.69 W	0.36	-1.74
1000.00	0.34	75.33	999.99	2.01 S	0.34 W	0.48	-1.62
1100.00	0.53	100.42	1099.99	2.02 S	0.40 E	0.26	-1.08
1200.00	0.78	95.42	1199.98	2.16 S	1.54 E	0.26	-0.36
1300.00	1.01	101.11	1299.97	2.40 S	3.08 E	0.25	0.61
1400.00	1.62	79.89	1399.94	2.32 S	5.34 E	0.77	2.31
1500.00	2.63	83.26	1499.88	1.80 S	9.01 E	1.02	5.34
1600.00	3.83	92.42	1599.72	1.67 S	14.62 E	1.30	9.53
1700.00	4.68	95.56	1699.44	2.21 S	22.02 E	0.88	14.57
1800.00	4.08	95.50	1799.15	2.94 S	29.62 E	0.60	19.62
1900.00	3.35	97.93	1898.94	3.69 S	36.06 E	0.75	23.81
2000.00	3.02	100.67	1998.78	4.58 S	41.54 E	0.36	27.20
2100.00	2.72	103.94	2098.66	5.64 S	46.43 E	0.34	30.05
2200.00	2.16	106.25	2198.56	6.74 S	50.54 E	0.57	32.30
2300.00	1.92	101.05	2298.50	7.59 S	54.00 E	0.30	34.24
2308.00	1.79	112.70	2306.50	7.66 S	54.24 E	4.98	34.37
2371.00	9.90	63.27	2369.14	5.60 S	60.00 E	14.03	39.98
2401.00	16.80	69.87	2398.31	2.94 S	66.38 E	23.52	46.46
2431.00	23.70	72.57	2426.44	0.36 N	76.22 E	23.20	55.90
2467.00	30.60	72.77	2458.45	5.24 N	91.89 E	19.17	70.68
2496.00	36.90	71.87	2482.55	10.14 N	107.23 E	21.79	85.23
2528.00	44.40	69.87	2506.82	17.00 N	126.90 E	23.78	104.27
2556.00	50.10	69.07	2525.82	24.21 N	146.14 E	20.46	123.25
2587.00	57.50	68.77	2544.11	33.20 N	169.47 E	23.88	146.43
2618.00	64.70	64.27	2559.09	44.04 N	194.32 E	26.47	171.98
2648.00	73.10	58.67	2569.89	57.42 N	218.86 E	32.96	199.04
2678.00	80.10	49.97	2576.85	74.44 N	242.50 E	36.59	227.93
2709.00	80.80	40.07	2582.00	96.02 N	264.10 E	31.57	258.45
2742.00	86.00	32.00	2585.80	122.51 N	283.35 E	28.95	290.60
2803.00	89.30	35.47	2588.30	173.18 N	317.19 E	7.85	349.93
2834.00	89.00	34.87	2588.76	198.52 N	335.04 E	2.16	380.28
2896.00	88.50	34.67	2590.11	249.43 N	370.39 E	0.87	440.88
2927.00	88.30	34.07	2590.98	275.01 N	387.88 E	2.04	471.13
2958.00	88.20	34.77	2591.93	300.57 N	405.40 E	2.28	501.38
2989.00	88.30	34.87	2592.87	326.01 N	423.09 E	0.46	531.68
3021.00	87.40	36.07	2594.07	352.05 N	441.65 E	4.68	563.02
3052.00	85.60	38.07	2595.97	376.74 N	460.30 E	8.67	593.51
3083.00	85.60	39.77	2598.34	400.78 N	479.71 E	5.47	624.12
3115.00	86.20	41.57	2600.63	424.99 N	500.51 E	5.92	655.84
3145.00	86.10	42.07	2602.65	447.30 N	520.47 E	1.70	685.66
3175.00	85.90	41.37	2604.74	469.64 N	540.39 E	2.42	715.46
3206.00	87.50	41.07	2606.52	492.92 N	560.78 E	5.25	746.26
3269.00	88.70	41.67	2608.61	540.17 N	602.39 E	2.13	808.93
3300.00	88.30	41.57	2609.42	563.33 N	622.98 E	1.33	839.79

All data is in feet unless otherwise stated
 Coordinates are from slot #1 and TVDs are from wellhead.
 Vertical section is from wellhead on azimuth 46.90 degrees.
 Calculation uses the minimum curvature method.

PLAINS PETROLEUM OPERATING COMPANY
SEC.07-T23S-R36W, CONKLIN #1
HUGOTON, KEARNEY CO., KANSAS

SURVEY LISTING Page 2
Your ref : S/T SVT - LOWER LAT.
Last revised : 30-Jan-95

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100Ft	Vert Sect
3331.00	89.40	42.27	2610.05	586.40 N	643.68 E	4.20	870.66
3393.00	89.50	42.67	2610.64	632.13 N	685.54 E	0.66	932.47
3453.00	88.80	43.37	2611.53	675.99 N	726.47 E	1.65	992.33
3498.00	88.80	43.37	2612.48	708.69 N	757.37 E	0.00	1037.23

All data is in feet unless otherwise stated
Coordinates are from slot #1 and TVDs are from wellhead.
Vertical section is from wellhead on azimuth 46.90 degrees.
Calculation uses the minimum curvature method.

sperry-sun
DRILLING SERVICES

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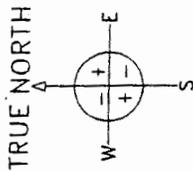
PLAINS PETROLEUM OPERATING COMPANY

Structure : SEC.07-T23S-R36W

Well : CONKLIN #1

Field : HUGOTON

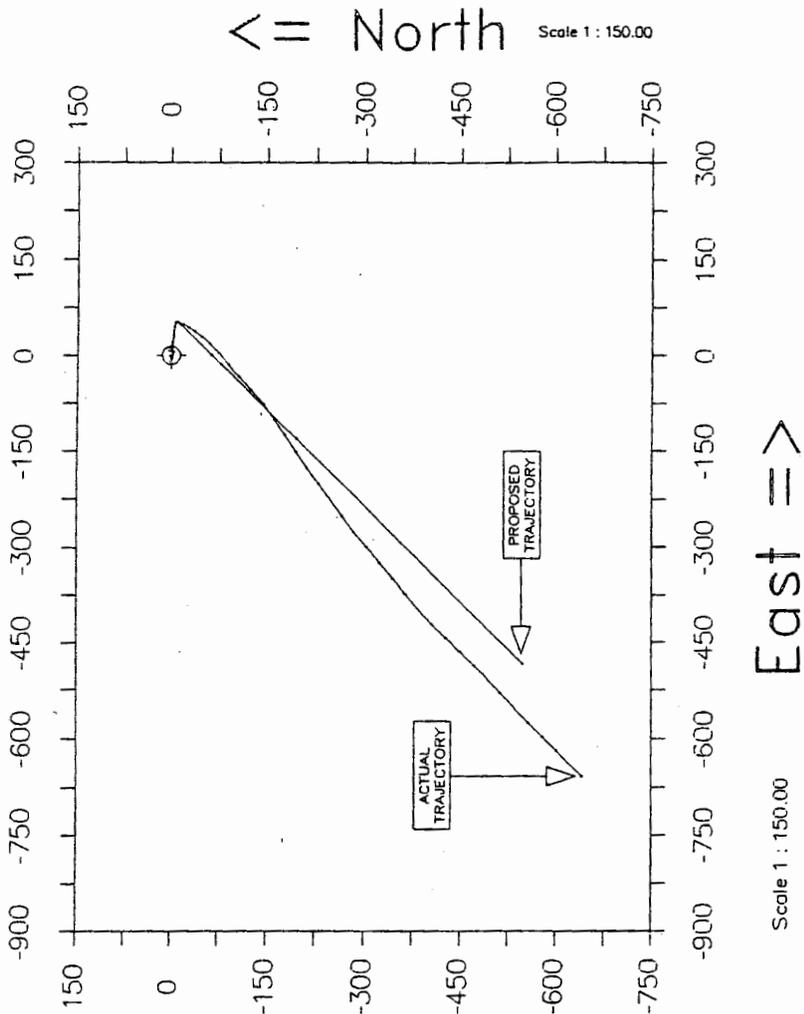
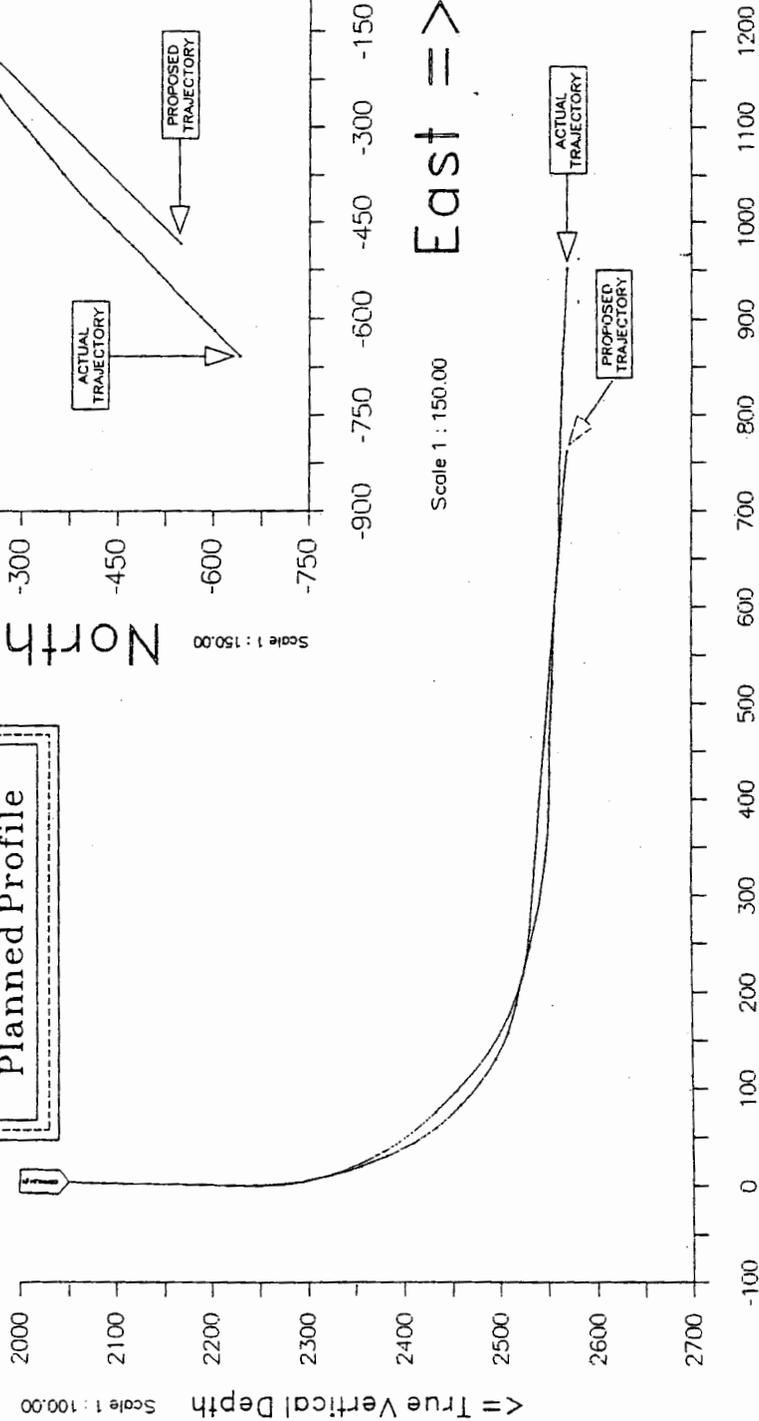
Location : KEARNEY CO., KANSAS



DECLINATION:
8.776 DEG. EAST

UPPER LATERAL

End Of Well Report:
Actual Trajectory
Versus
Planned Profile



Scale 1 : 100.00 Vertical Section on 224.74 azimuth with reference 7.17 S, 52.11 E from slot #1

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	RECTANGULAR COORDINATES		Dogleg Deg/100Ft	Vert Sect
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	0.00
89.00	0.28	244.87	89.00	0.09 S	0.20 W	0.31	0.20
189.00	0.35	196.50	189.00	0.49 S	0.50 W	0.26	0.70
289.00	0.34	199.59	289.00	1.06 S	0.69 W	0.02	1.24
389.00	0.20	261.08	389.00	1.37 S	0.96 W	0.30	1.64
489.00	0.16	122.90	489.00	1.47 S	1.02 W	0.34	1.76
589.00	0.04	213.59	589.00	1.58 S	0.92 W	0.16	1.76
689.00	0.10	56.09	689.00	1.56 S	0.87 W	0.14	1.71
789.00	0.04	37.57	789.00	1.48 S	0.77 W	0.06	1.58
889.00	0.33	166.16	888.99	1.73 S	0.68 W	0.36	1.70
989.00	0.34	75.33	988.99	1.94 S	0.33 W	0.48	1.58
1089.00	0.53	100.42	1088.99	1.94 S	0.41 E	0.26	1.06
1189.00	0.78	95.42	1188.98	2.09 S	1.55 E	0.26	0.35
1289.00	1.01	101.11	1288.97	2.33 S	3.09 E	0.25	-0.60
1389.00	1.62	79.89	1388.94	2.25 S	5.34 E	0.77	-2.27
1489.00	2.63	83.26	1488.88	1.73 S	9.02 E	1.02	-5.26
1589.00	3.83	92.47	1588.72	1.60 S	14.63 E	1.30	-9.38
1689.00	4.68	95.56	1688.44	2.14 S	22.03 E	0.88	-14.31
1789.00	4.06	95.50	1788.15	2.88 S	29.61 E	0.62	-19.24
1889.00	3.35	97.93	1887.94	3.62 S	36.03 E	0.73	-23.33
1989.00	3.02	100.67	1987.78	4.51 S	41.51 E	0.36	-26.64
2089.00	2.72	103.94	2087.66	5.57 S	46.40 E	0.34	-29.42
2189.00	2.18	106.25	2187.57	6.68 S	50.53 E	0.55	-31.61
2249.00	2.02	103.29	2247.53	7.24 S	52.66 E	0.32	-32.74
2296.00	11.00	203.17	2294.24	11.56 S	51.70 E	24.50	-29.04
2328.00	16.50	204.97	2325.31	18.50 S	48.57 E	17.24	-21.97
2359.00	20.60	209.47	2354.69	27.24 S	44.03 E	14.00	-12.62
2388.00	25.00	213.97	2381.42	36.77 S	38.09 E	16.31	-1.72
2419.00	29.20	216.47	2409.01	48.29 S	29.94 E	14.03	12.15
2447.00	37.10	224.17	2432.45	59.86 S	19.97 E	31.92	27.36
2481.00	45.70	230.07	2457.94	75.06 S	3.46 E	27.75	49.80
2512.00	54.70	232.67	2477.76	89.88 S	15.15 W	29.73	73.47
2542.00	59.40	226.47	2494.09	106.22 S	34.27 W	23.36	98.57
2572.00	69.40	226.77	2507.03	124.78 S	53.91 W	33.34	125.59
2603.00	77.30	232.97	2515.92	143.87 S	76.60 W	31.87	155.17
2634.00	76.80	236.87	2522.86	161.23 S	101.32 W	12.37	185.00
2664.00	76.30	236.17	2529.84	177.32 S	125.66 W	2.82	213.67
2695.00	78.60	235.97	2536.58	194.21 S	150.76 W	7.45	243.45
2726.00	82.00	235.97	2541.80	211.31 S	176.08 W	10.97	273.53
2757.00	84.10	234.47	2545.55	228.86 S	201.36 W	8.30	303.89
2819.00	88.60	233.77	2549.50	265.12 S	251.48 W	7.34	365.10
2850.00	89.00	232.87	2550.15	283.63 S	276.33 W	3.18	395.83
2881.00	88.80	230.17	2550.74	302.92 S	300.59 W	8.73	426.67
2913.00	87.90	229.97	2551.66	323.45 S	325.12 W	2.88	458.57
2945.00	88.10	229.87	2552.78	344.04 S	349.59 W	0.70	490.47
2976.00	88.10	229.77	2553.81	364.03 S	373.26 W	0.32	521.38
3039.00	86.70	226.87	2556.67	405.87 S	420.26 W	5.11	584.25
3070.00	86.80	226.27	2558.42	427.15 S	442.74 W	1.96	615.20
3102.00	89.10	225.37	2559.57	449.43 S	465.67 W	7.72	647.17
3133.00	89.30	224.97	2560.00	471.29 S	487.65 W	1.44	678.17
3193.00	88.90	225.67	2560.94	513.47 S	530.31 W	1.34	738.16
3256.00	88.40	225.07	2562.43	557.72 S	575.13 W	1.24	801.14
3287.00	88.00	224.97	2563.40	579.62 S	597.05 W	1.33	832.12

All data is in feet unless otherwise stated
 Coordinates are from slot #1 and TVDs are from wellhead.
 Vertical section is from wellhead on azimuth 225.85 degrees.
 Calculation uses the minimum curvature method.

PLAINS PETROLEUM OPERATING COMPANY
SEC. 07-T23S-R36W, CONKLIN #1
HUGOTON, KEARNEY CO., KANSAS

SURVEY LISTING Page 2
Your ref : S/T SVY-UPPER LAT.
Last revised : 30-Jan-95

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100Ft	Vert Sect
3318.00	86.90	224.07	2564.78	601.70 s	618.76 W	4.58	863.08
3374.00	86.90	224.07	2567.81	641.87 s	657.66 W	0.00	918.97

All data is in feet unless otherwise stated
Coordinates are from slot #1 and TVDs are from wellhead.
Vertical section is from wellhead on azimuth 225.85 degrees.
Calculation uses the minimum curvature method.