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BRANDT
D. J. BRANDT



COMPLETED JOB REPORT

YATES PETROLEUM CORP.

AMR
LOWE STAPLES AMB #1

EDDY COUNTY, NEW MEXICO



Weatherford

Drilling & Intervention Services

Survey Certification

State of Texas

County of Midland

I, DOUG YOUNGER CERTIFY THAT; I AM EMPLOYED BY WEATHERFORD

US, LP: THAT I DID ON THE DAY(S) OF June 28th THROUGH

June 30th CONDUCT OR SUPERVISE THE TAKING OF A

Steering tool SURVEY FROM A DEPTH OF 3639 FEET TO

A DEPTH OF 5600 FEET; THE DATA IS TRUE, CORRECT,

COMPLETE, AND WITHIN THE LIMITATIONS OF THE TOOL AS SET

FORTH BY WEATHERFORD US, LP; THAT I AM AUTHORIZED AND

QUALIFIED TO MAKE THIS REPORT; THAT THIS SURVEY WAS CONDUCTED

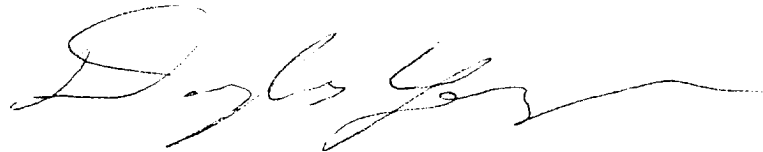
AT THE REQUEST Yates Petroleum FOR THE Lower Staples

WELL API NO. 24441 IN Eddy COUNTY;

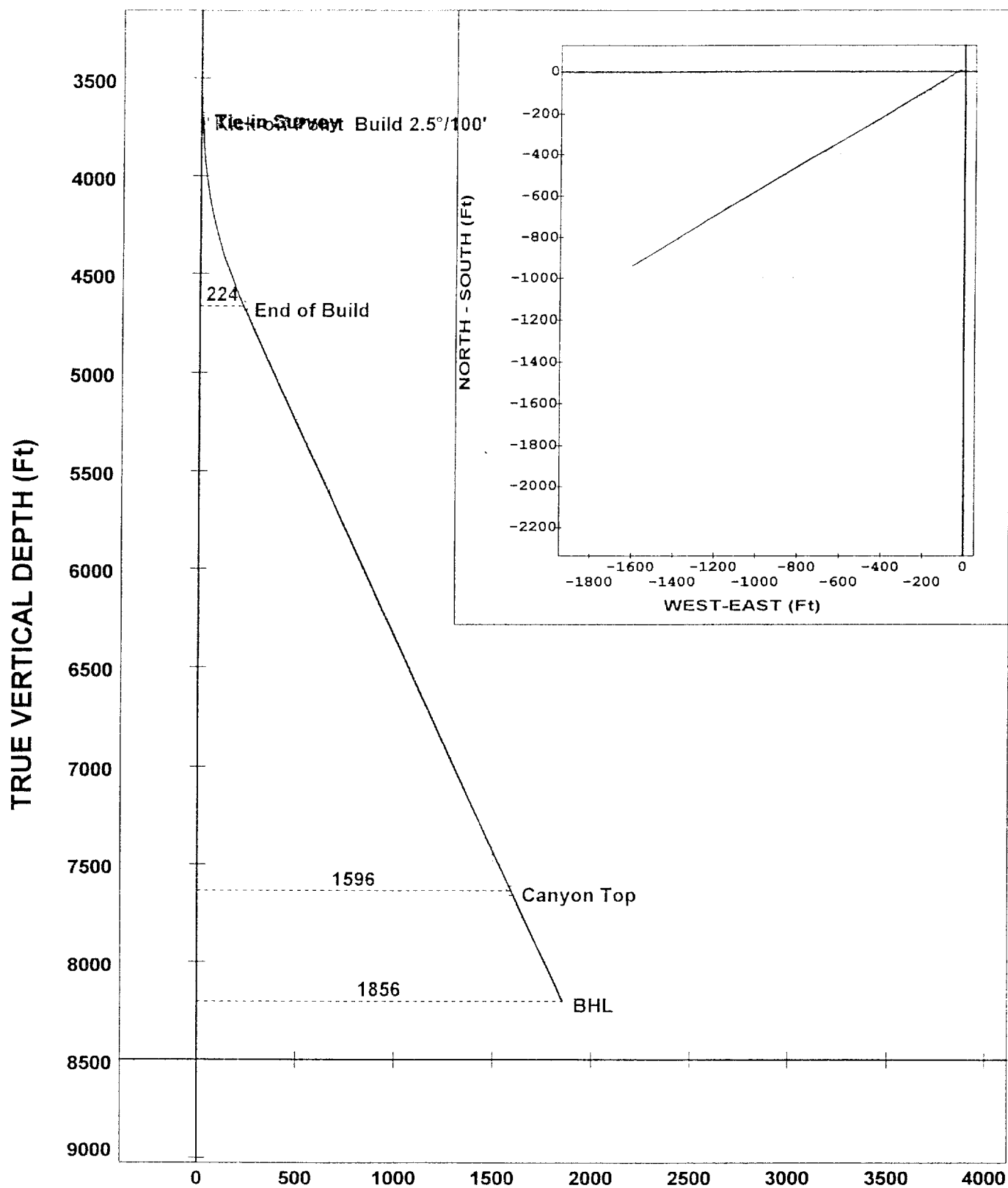
TEXAS / (NEW MEXICO) AND THAT I HAVE REVIEWED THIS REPORT AND

FIND THAT IT CONFORMS TO THE PRINCIPLES AND PROCEDURES AS SET

FORTH BY WEATHERFORD US, LP.



Company: Yates Petroleum Corp.
Lease/Well: Lowe Staple AMR Fed. Com. #1
Location: Eddy County
State/Country: New Mexico



-- Proposal

VERTICAL SECTION (Ft) @ 239.57°

Job Number:	State/Country: New Mexico
Company: Yates Petroleum Corp	Declination: 9.20° East
Lease/Well: Lowe Staple AMR Fed. Com. #1	Grid: True North
Location: Eddy County	File name: C:\WINSERVE\YATES\LSAMR1.SVY
Rig Name:	Date/Time: 30-Jun-01 / 05:50
RKB:	Curve Name: WORK
G.L. or M.S.L.:	

DAILEY INTERNATIONAL Inc.
MIDLAND, TEXAS

WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method

Vertical Section Plane 239.57

Vertical Section Referenced to offset from Wellhead: EW = .00 Ft, NS = .00 Ft

<i>Measured Depth FT</i>	<i>Incl Angle Deg</i>	<i>Drift Direction Deg</i>	<i>True Vertical Depth</i>	<i>N-S FT</i>	<i>E-W FT</i>	<i>Vertical Section FT</i>	<i>CLOSURE Distance FT</i>	<i>Direction Deg</i>	<i>Dogleg Severity Deg/100</i>	<i>BUILD RATE Deg/100</i>
TIE IN FROM GYRO DATA GYRO										
3600.00	.13	272.10	3599.80	8.24	-19.39	12.55	21.07	293.02	.00	.00
3636.00	.30	276.00	3635.80	8.25	-19.52	12.66	21.20	292.91	.47	.47
3656.00	1.30	234.80	3655.80	8.13	-19.76	12.92	21.37	292.35	5.46	5.00
3680.00	2.70	229.20	3679.78	7.60	-20.41	13.75	21.78	290.42	5.88	5.83
3712.00	4.10	224.00	3711.73	6.28	-21.78	15.59	22.67	286.10	4.48	4.37
3744.00	4.60	226.50	3743.63	4.58	-23.50	17.95	23.94	281.02	1.67	1.56
3776.00	5.00	224.30	3775.52	2.70	-25.41	20.54	25.55	276.06	1.38	1.25
3808.00	5.40	226.60	3807.39	.66	-27.48	23.35	27.48	271.38	1.41	1.25
3839.00	6.00	229.90	3838.24	-1.38	-29.78	26.37	29.81	267.34	2.20	1.94
3871.00	6.50	233.00	3870.05	-3.55	-32.50	29.82	32.69	263.77	1.88	1.56
3903.00	6.70	233.80	3901.83	-5.74	-35.45	33.48	35.92	260.80	.69	.63
3935.00	7.50	234.70	3933.59	-8.05	-38.66	37.42	39.49	258.24	2.52	2.50
3967.00	8.70	236.00	3965.27	-10.61	-42.38	41.91	43.68	255.94	3.79	3.75
3998.00	9.50	239.20	3995.88	-13.23	-46.52	46.81	48.36	254.12	3.05	2.58
4030.00	10.20	237.80	4027.41	-16.09	-51.18	52.28	53.65	252.54	2.31	2.19
4062.00	11.10	237.50	4058.85	-19.26	-56.18	58.19	59.39	251.08	2.82	2.81
4094.00	11.30	237.40	4090.25	-22.60	-61.42	64.41	65.44	249.79	.63	.63
4126.00	12.00	238.00	4121.59	-26.06	-66.88	70.86	71.78	248.71	2.22	2.19
4158.00	12.80	238.90	4152.84	-29.65	-72.74	77.73	78.55	247.82	2.57	2.50
4190.00	13.20	239.10	4184.02	-33.36	-78.91	84.93	85.67	247.08	1.26	1.25
4221.00	13.60	240.10	4214.17	-36.99	-85.10	92.12	92.80	246.51	1.49	1.29
4253.00	14.40	239.70	4245.22	-40.87	-91.80	99.86	100.49	246.00	2.52	2.50
4285.00	14.90	238.70	4276.18	-45.02	-98.75	107.95	108.53	245.49	1.75	1.56

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100	BUILD RATE Deg/100
				FT	FT	FT	Distance FT	Direction Deg		
4317.00	15.60	238.80	4307.06	-49.39	-105.95	116.37	116.89	245.01	2.19	2.19
4348.00	16.80	238.40	4336.83	-53.89	-113.33	125.01	125.49	244.57	3.89	3.87
4380.00	17.30	237.90	4367.42	-58.84	-121.30	134.39	134.82	244.12	1.63	1.56
4412.00	17.40	239.30	4397.96	-63.82	-129.44	143.93	144.32	243.76	1.34	.31
4444.00	18.20	239.50	4428.43	-68.79	-137.86	153.72	154.07	243.48	2.51	2.50
4476.00	18.30	239.10	4458.82	-73.91	-146.48	163.74	164.07	243.23	.50	.31
4508.00	18.50	239.30	4489.19	-79.08	-155.16	173.84	174.15	242.99	.66	.62
4539.00	18.90	240.20	4518.55	-84.09	-163.74	183.78	184.07	242.82	1.59	1.29
4571.00	19.70	239.70	4548.75	-89.39	-172.90	194.35	194.64	242.66	2.55	2.50
4602.00	19.80	239.80	4577.93	-94.66	-181.94	204.83	205.10	242.51	.34	.32
4634.00	20.00	238.40	4608.02	-100.26	-191.29	215.72	215.97	242.34	1.61	.62
4666.00	20.60	238.90	4638.03	-106.03	-200.77	226.82	227.05	242.16	1.95	1.88
4698.00	21.00	238.20	4667.94	-111.96	-210.47	238.18	238.39	241.99	1.47	1.25
4730.00	21.80	238.50	4697.74	-118.09	-220.40	249.85	250.05	241.82	2.52	2.50
4762.00	22.00	239.70	4727.43	-124.22	-230.65	261.79	261.97	241.69	1.53	.62
4793.00	22.50	240.00	4756.12	-130.11	-240.80	273.53	273.70	241.62	1.65	1.61
4824.00	23.00	239.60	4784.71	-136.14	-251.16	285.51	285.68	241.54	1.69	1.61
4856.00	23.40	240.70	4814.12	-142.42	-262.09	298.12	298.28	241.48	1.84	1.25
4888.00	24.00	240.60	4843.42	-148.72	-273.30	310.98	311.15	241.45	1.88	1.88
4920.00	24.70	240.20	4872.57	-155.24	-284.77	324.17	324.34	241.40	2.25	2.19
4952.00	24.80	239.70	4901.63	-161.95	-296.37	337.57	337.73	241.35	.72	.31
4984.00	25.00	240.00	4930.66	-168.71	-308.02	351.04	351.20	241.29	.74	.62
5015.00	25.60	239.60	4958.69	-175.38	-319.47	364.29	364.44	241.23	2.01	1.94
5110.00	25.10	238.60	5044.54	-196.26	-354.37	404.96	405.09	241.02	.69	-.53
5142.00	24.90	237.60	5073.54	-203.41	-365.85	418.48	418.60	240.93	1.46	-.63
5174.00	25.10	237.00	5102.54	-210.71	-377.23	431.99	432.09	240.81	1.01	.63
5206.00	25.00	237.10	5131.53	-218.08	-388.60	445.53	445.61	240.70	.34	-.31
5269.00	25.10	237.80	5188.61	-232.43	-411.09	472.18	472.25	240.52	.50	.16
5301.00	25.20	236.90	5217.57	-239.77	-422.54	485.77	485.83	240.43	1.24	.31
5365.00	25.20	237.50	5275.48	-254.53	-445.44	513.00	513.04	240.26	.40	.00
5428.00	25.10	238.00	5332.51	-268.82	-468.09	539.76	539.79	240.13	.37	-.16
5491.00	25.00	237.10	5389.58	-283.13	-490.59	566.42	566.43	240.01	.63	-.16
5523.00	24.80	236.00	5418.61	-290.56	-501.84	579.87	579.88	239.93	1.58	-.62
5554.00	24.60	237.20	5446.77	-297.69	-512.65	592.81	592.81	239.86	1.74	-.65
5586.00	24.80	238.10	5475.85	-304.84	-523.95	606.17	606.18	239.81	1.33	.62
5649.00	25.00	237.80	5532.99	-318.92	-546.43	632.68	632.69	239.73	.38	.32
5681.00	23.40	237.90	5562.18	-325.90	-557.53	645.80	645.80	239.69	5.00	-5.00
5713.00	20.90	238.30	5591.81	-332.28	-567.77	657.86	657.86	239.66	7.83	-7.81
5745.00	20.60	240.60	5621.74	-338.04	-577.54	669.19	669.19	239.66	2.71	-.94
5776.00	21.00	241.00	5650.72	-343.41	-587.14	680.20	680.20	239.68	1.37	1.29
5808.00	21.20	243.60	5680.57	-348.76	-597.34	691.70	691.70	239.72	2.99	.62
5840.00	21.50	244.70	5710.38	-353.84	-607.83	703.31	703.32	239.79	1.56	.94

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100	BUILD RATE Deg/100
							Distance FT	Direction Deg		
5871.00	21.90	243.40	5739.18	-358.86	-618.13	714.74	714.75	239.86	2.02	1.29
5903.00	22.60	243.60	5768.80	-364.26	-628.98	726.83	726.84	239.92	2.20	2.19
5935.00	23.20	243.80	5798.27	-369.78	-640.14	739.25	739.27	239.99	1.89	1.87
5967.00	23.70	243.10	5827.63	-375.47	-651.53	751.95	751.98	240.05	1.79	1.56
6030.00	23.90	243.40	5885.27	-386.92	-674.23	777.32	777.36	240.15	.37	.32
6062.00	23.50	243.10	5914.57	-392.71	-685.72	790.16	790.21	240.20	1.31	-1.25
6094.00	24.10	242.70	5943.85	-398.59	-697.21	803.05	803.11	240.24	1.94	1.88
6126.00	24.60	243.10	5973.01	-404.60	-708.96	816.22	816.29	240.29	1.65	1.56
6158.00	25.30	244.60	6002.02	-410.54	-721.08	829.68	829.76	240.34	2.95	2.19
6189.00	25.60	244.00	6030.01	-416.32	-733.08	842.96	843.05	240.41	1.28	.97
6223.00	25.80	242.40	6060.65	-422.97	-746.24	857.67	857.77	240.46	2.12	.59
6253.00	25.90	242.70	6087.65	-429.00	-757.85	870.73	870.85	240.49	.55	.33
6284.00	25.80	241.70	6115.55	-435.30	-769.80	884.24	884.36	240.51	1.44	-.32
6316.00	25.60	241.60	6144.38	-441.89	-782.02	898.10	898.23	240.53	.64	-.62
6348.00	25.40	241.50	6173.26	-448.46	-794.13	911.87	912.00	240.55	.64	-.63
6379.00	25.00	240.00	6201.31	-454.90	-805.64	925.07	925.20	240.55	2.43	-1.29
6411.00	25.70	240.90	6230.23	-461.66	-817.56	938.77	938.90	240.55	2.50	2.19
6443.00	25.70	240.80	6259.07	-468.42	-829.68	952.64	952.78	240.55	.14	.00
6474.00	25.00	239.40	6287.08	-475.03	-841.19	965.91	966.05	240.55	2.97	-2.26
6506.00	25.40	238.30	6316.04	-482.08	-852.85	979.53	979.67	240.52	1.92	1.25
6538.00	25.60	237.30	6344.92	-489.42	-864.50	993.30	993.43	240.48	1.48	.63
6570.00	25.70	237.20	6373.76	-496.92	-876.15	1007.14	1007.26	240.44	.34	.31
6633.00	24.80	235.40	6430.75	-511.82	-898.51	1033.97	1034.06	240.33	1.88	-1.43
6696.00	23.70	236.00	6488.19	-526.40	-919.89	1059.79	1059.85	240.22	1.79	-1.75
6727.00	23.50	235.60	6516.59	-533.38	-930.15	1072.17	1072.23	240.17	.83	-.65
6759.00	23.60	235.60	6545.93	-540.60	-940.70	1084.92	1084.97	240.11	.31	.31
6791.00	23.80	236.90	6575.23	-547.75	-951.40	1097.77	1097.81	240.07	1.75	.62
6822.00	24.20	238.10	6603.55	-554.52	-962.03	1110.37	1110.40	240.04	2.04	1.29
6854.00	24.40	238.40	6632.71	-561.45	-973.23	1123.53	1123.56	240.02	.73	.62
6886.00	25.10	239.30	6661.77	-568.38	-984.69	1136.93	1136.96	240.01	2.48	2.19
6917.00	25.30	238.20	6689.82	-575.23	-995.98	1150.12	1150.15	239.99	1.64	.65
6949.00	25.70	238.60	6718.71	-582.44	-1007.71	1163.90	1163.92	239.97	1.36	1.25
6981.00	25.80	238.30	6747.53	-589.72	-1019.56	1177.80	1177.82	239.95	.51	.31
7012.00	25.60	238.10	6775.46	-596.80	-1030.98	1191.24	1191.26	239.93	.70	-.65
7044.00	25.60	238.70	6804.32	-604.05	-1042.76	1205.06	1205.08	239.92	.81	.00
7076.00	25.10	238.30	6833.24	-611.20	-1054.44	1218.76	1218.78	239.90	1.65	-1.56
7108.00	25.20	238.40	6862.21	-618.34	-1066.02	1232.35	1232.37	239.88	.34	.31
7140.00	24.90	239.70	6891.20	-625.31	-1077.64	1245.90	1245.92	239.88	1.96	-.94
7172.00	24.00	240.40	6920.33	-631.92	-1089.11	1259.15	1259.16	239.88	2.95	-2.81
7203.00	23.40	242.00	6948.71	-637.93	-1100.03	1271.60	1271.62	239.89	2.84	-1.94
7235.00	23.50	243.00	6978.07	-643.81	-1111.33	1284.32	1284.34	239.92	1.28	.31
7267.00	23.70	244.20	7007.39	-649.50	-1122.80	1297.10	1297.12	239.95	1.63	.62

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100	BUILD RATE Deg/100
							Distance FT	Direction Deg		
7298.00	23.20	244.90	7035.83	-654.80	-1133.94	1309.39	1309.42	240.00	1.85	-1.61
7330.00	22.50	247.00	7065.32	-659.87	-1145.28	1321.73	1321.78	240.05	3.36	-2.19
7361.00	22.70	248.40	7093.94	-664.39	-1156.30	1333.53	1333.59	240.12	1.85	.65
7393.00	23.40	249.30	7123.39	-668.91	-1167.99	1345.89	1345.97	240.20	2.45	2.19
7424.00	23.60	248.90	7151.82	-673.32	-1179.54	1358.08	1358.19	240.28	.83	.65
7456.00	24.20	248.90	7181.07	-677.99	-1191.63	1370.87	1371.00	240.36	1.87	1.87
7488.00	25.20	249.20	7210.14	-682.77	-1204.12	1384.06	1384.22	240.45	3.15	3.13
7519.00	25.30	249.60	7238.18	-687.42	-1216.50	1397.09	1397.29	240.53	.64	.32
7551.00	24.60	248.40	7267.20	-692.25	-1229.10	1410.41	1410.64	240.61	2.70	-2.19
7582.00	25.00	246.90	7295.34	-697.20	-1241.13	1423.28	1423.54	240.67	2.40	1.29
7613.00	26.50	247.10	7323.26	-702.46	-1253.52	1436.63	1436.93	240.73	4.85	4.84
7676.00	24.30	247.50	7380.16	-712.89	-1278.45	1463.41	1463.78	240.85	3.50	-3.49
7708.00	23.60	247.00	7409.41	-717.92	-1290.43	1476.28	1476.69	240.91	2.28	-2.19
7739.00	23.20	248.30	7437.86	-722.60	-1301.81	1488.47	1488.91	240.97	2.11	-1.29
7771.00	23.40	250.00	7467.25	-727.10	-1313.64	1500.95	1501.44	241.04	2.19	.62
7803.00	22.80	251.30	7496.68	-731.26	-1325.49	1513.27	1513.82	241.11	2.46	-1.87
7834.00	22.00	250.60	7525.35	-735.12	-1336.65	1524.85	1525.46	241.19	2.72	-2.58
7866.00	24.10	250.20	7554.79	-739.32	-1348.45	1537.16	1537.83	241.27	6.58	6.56
7898.00	26.90	250.30	7583.67	-743.98	-1361.42	1550.69	1551.44	241.34	8.75	8.75
7929.00	28.10	251.10	7611.17	-748.70	-1374.93	1564.74	1565.56	241.43	4.05	3.87
7961.00	28.30	249.60	7639.37	-753.79	-1389.17	1579.59	1580.50	241.51	2.30	.62
7993.00	28.70	250.10	7667.49	-759.05	-1403.50	1594.62	1595.61	241.59	1.46	1.25
8025.00	29.00	250.00	7695.52	-764.32	-1418.02	1609.80	1610.89	241.68	.95	.94
8056.00	28.80	247.70	7722.66	-769.72	-1431.99	1624.58	1625.75	241.74	3.64	-.65
8088.00	27.80	245.80	7750.83	-775.71	-1445.93	1639.63	1640.86	241.79	4.21	-3.13
8120.00	27.90	245.50	7779.13	-781.87	-1459.55	1654.50	1655.78	241.82	.54	.31
8151.00	27.30	243.00	7806.60	-788.10	-1472.48	1668.81	1670.12	241.84	4.21	-1.94
8183.00	27.00	241.60	7835.08	-794.89	-1485.41	1683.39	1684.72	241.85	2.21	-.94
8215.00	26.80	241.80	7863.61	-801.76	-1498.16	1697.86	1699.20	241.85	.69	-.62
8246.00	26.70	241.10	7891.30	-808.42	-1510.41	1711.81	1713.15	241.84	1.07	-.32
8278.00	27.10	241.60	7919.83	-815.36	-1523.12	1726.28	1727.63	241.84	1.44	1.25
8311.00	26.40	240.30	7949.30	-822.57	-1536.10	1741.12	1742.48	241.83	2.76	-2.12
8342.00	25.50	239.20	7977.18	-829.41	-1547.82	1754.69	1756.04	241.82	3.29	-2.90
8374.00	25.40	239.00	8006.07	-836.47	-1559.62	1768.44	1769.77	241.79	.41	-.31
8405.00	25.20	239.00	8034.10	-843.29	-1570.98	1781.69	1783.00	241.77	.65	-.65
8437.00	25.10	239.40	8063.06	-850.26	-1582.66	1795.29	1796.59	241.75	.62	-.31
8469.00	25.20	239.80	8092.03	-857.14	-1594.39	1808.89	1810.18	241.74	.62	.31
8500.00	25.10	239.40	8120.09	-863.80	-1605.75	1822.06	1823.35	241.72	.64	-.32
8561.00	24.90	239.10	8175.38	-876.98	-1627.91	1847.84	1849.10	241.69	.39	-.33
PROJ. TO TD										
8600.00	24.90	239.10	8210.75	-885.42	-1642.00	1864.26	1865.51	241.67	.00	.00

A G y r o d a t a D i r e c t i o n a l S u r v e y

for

YATES PETROLUME

WELL: LOWE STAPLES AWR FED #1, 7 1/2" CASING

Location: PATTERSON/UTI #512, EDDY COUNTY N.M

Job Number: MD0601GMW228

Run Date: 3-Jun-01 21:11:57

Surveyor: JAMES TAYLOR

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 32.461780 deg. N

Azimuth Correction:

Rate-Gyro: Bearings are Relative to True North

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Local Horizontal Reference

A Gyrodata Directional Survey

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WATER PETROLEUM

WELL: LOWE STAPLES AWR FED #1, 7 1/2" CASING
Location: PATTERSON/UTI #512, EDDY COUNTY N.M.
Job Number: MD0601GMW228

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	VERTICAL DEPTH feet	H O R I Z O N T A L C O O R D I N A T E S feet		DOGLEG SEVERITY deg. / 100 ft.
0.0	0.00	0.00	0.0	0.00 N	0.00 E	0.00

RATE GYROSCOPIC MULTISHOT RUN INSIDE 7 1/2" CASING
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO PATTERSON/UTI #512

100.0	.47	276.87	100.0	.05 N	.40 W	.47
200.0	.55	271.00	200.0	.11 N	1.28 W	.10
300.0	.26	252.40	300.0	.05 N	1.97 W	.31
400.0	.27	212.02	400.0	.22 S	2.32 W	.18
500.0	.50	182.40	500.0	.86 S	2.46 W	.29
600.0	.56	147.92	600.0	1.71 S	2.22 W	.32
700.0	.95	126.41	700.0	2.62 S	1.29 W	.48
800.0	.10	79.77	800.0	3.09 S	.54 W	.89
900.0	.12	156.79	900.0	3.18 S	.41 W	.14
1000.0	.33	168.23	1000.0	3.56 S	.31 W	.21
1100.0	.14	216.77	1100.0	3.93 S	.32 W	.26
1200.0	.22	19.57	1200.0	3.85 S	.33 W	.36
1300.0	.52	353.39	1300.0	3.22 S	.32 W	.33
1400.0	.48	357.89	1400.0	2.35 S	.39 W	.05
1500.0	.56	354.20	1500.0	1.44 S	.45 W	.08
1600.0	.52	352.00	1600.0	.51 S	.56 W	.05
1700.0	.41	331.65	1700.0	.25 N	.79 W	.19
1800.0	.34	297.12	1799.9	.70 N	1.23 W	.23
1900.0	.69	281.28	1899.9	.95 N	2.09 W	.37
2000.0	1.09	283.91	1999.9	1.30 N	3.60 W	.41
2100.0	1.20	282.98	2099.9	1.76 N	5.55 W	.11
2200.0	1.18	288.26	2199.9	2.32 N	7.55 W	.11
2300.0	1.07	284.23	2299.9	2.87 N	9.43 W	.14
2400.0	.87	290.37	2399.9	3.36 N	11.04 W	.23
2500.0	.90	290.16	2499.8	3.90 N	12.48 W	.04
2600.0	.77	292.54	2599.8	4.43 N	13.84 W	.14
2700.0	.63	295.55	2699.8	4.92 N	14.95 W	.14
2800.0	.52	308.63	2799.8	5.44 N	15.80 W	.17
2900.0	.33	309.28	2899.8	5.90 N	16.38 W	.19
3000.0	.38	306.21	2999.8	6.28 N	16.87 W	.06
3100.0	.41	301.30	3099.8	6.67 N	17.44 W	.04
3200.0	.43	327.39	3199.8	7.16 N	17.95 W	.19
3300.0	.31	301.17	3299.8	7.62 N	18.38 W	.20
3400.0	.27	323.90	3399.8	7.95 N	18.75 W	.12
3500.0	.23	282.89	3499.8	8.19 N	19.08 W	.18
3600.0	.13	272.10	3599.8	8.24 N	19.39 W	.11
3700.0	.04	280.44	3699.8	8.28 N	19.71 W	.12

YATES PETROLUME

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WELL: LOWE STAPLES AWR FED #1, 7 1/2" CASING
Location: PATTERSON/UTI #512, EDDY COUNTY N.M
Job Number: MD060130W228

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	VERTICAL DEPTH feet	H O R I Z O N T A L C O O R D I N A T E S Feet		DOGLEG SEVERITY deg. / 100 ft.
3800.0	.33	288.70	3799.8	8.41 N	20.19 W	.10
3900.0	.30	253.59	3899.8	8.43 N	20.71 W	.19
4000.0	.21	216.16	3999.8	8.21 N	21.06 W	.18

Final Station Closure: Distance: 22.61 ft Az: 291.29 deg.