



PATTERSON DRILLING COMPANY LP

A LIMITED PARTNERSHIP

410 North Loraine Street • Midland, Texas 79701

(915) 682-9401 • Fax (915) 682-1565

May 16, 2000

Yates Petroleum Corporation
105 S 4th St
Artesia, NM 88210

RE: Inclination Report
Blitzen AUB State #2
Sec 16; T-11-S; R-34-E

SUR: P-16-115-34e 800/S + 850/E
BHL: I-16-115-34e 1839/S + 344/E
30-025-34859

Gentlemen:

The following is an inclination survey on the above referenced well located in Lea County, New Mexico:

220' - 0.50	3301' - 0.75	8728' - 1.25
434' - 0.50	3775' - 0.75	8916' - 1.00
929' - 1.25	4110' - 0.25	9417' - 0.75
1404' - 2.00	4555' - 0.50	9809' - 0.25
1531' - 1.75	5027' - 0.75	10289' - 0.25
1657' - 1.75	5501' - 0.75	10735' - 0.75
1878' - 1.50	5967' - 0.75	11223' - 1.00
2099' - 1.50	6470' - 0.75	11721' - 1.25
2382' - 1.75	6943' - 0.75	12221' - 0.50
2603' - 1.75	7133' - 0.50	12700' - 0.25
2792' - 2.00	7669' - 0.75	12919' - 0.25
2951' - 1.00	8132' - 1.50	13000' - 0.25
3078' - 1.00	8228' - 0.75	

Sincerely,

Rebecca Edwards

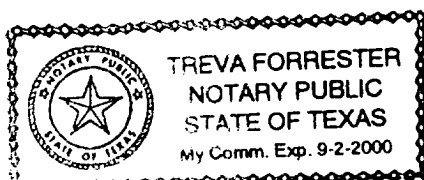
Rebecca A. Edwards
Administrative Assistant

STATE OF TEXAS)
COUNTY OF MIDLAND)

Rebecca A. Edwards acknowledged the foregoing before me this 16th day of May 2000.

MY COMMISSION EXPIRES:

Treva Forrester
NOTARY PUBLIC



KE

Job Number: WTX0800D245

State/Country: New Mexico

Company: Yates Petroleum Corp.

Declination:

Lease/Well: Blitzen AUB State #2

Grid:

Location: Lea County

File name: C:\WINSERVE\YATES\BLITZEN2.SVY

Rig Name: Patterson #80

Date/Time: 30-Aug-00 / 13:43

RKB:

Curve Name: WORK

G.L. or M.S.L.:

DAILEY INTERNATIONAL Inc.
MIDLAND, TEXAS

WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method

Vertical Section Plane 24.23

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

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100	BUILD RATE Deg/100
TIE-IN F/GYRO SURVEY										
12970.00	.20	347.00	12968.60	-17.03	79.73	17.19	81.53	102.06	.00	.00
12995.00	1.40	53.00	12993.60	-16.80	79.96	17.49	81.71	101.87	5.32	4.80
13000.00	2.00	53.00	12998.60	-16.71	80.08	17.62	81.81	101.79	12.00	12.00
13005.00	3.30	39.00	13003.59	-16.55	80.24	17.84	81.93	101.65	28.67	26.00
1ST SURVEY W/ STEERING TOOL										
13010.00	7.30	23.00	13008.57	-16.15	80.46	18.30	82.07	101.35	84.47	80.00
13015.00	9.70	17.00	13013.51	-15.45	80.71	19.03	82.18	100.84	51.52	48.00
13020.00	12.00	13.00	13018.42	-14.55	80.96	19.96	82.26	100.19	47.83	46.00
13025.00	14.40	13.00	13023.29	-13.44	81.23	21.08	82.34	99.39	48.00	48.00
13030.00	17.60	17.00	13028.10	-12.11	81.60	22.45	82.49	98.44	66.51	64.00
13035.00	22.00	22.00	13032.80	-10.52	82.18	24.13	82.85	97.30	94.71	88.00
13040.00	25.40	24.70	13037.38	-8.68	82.98	26.14	83.43	95.97	70.89	68.00
13045.00	28.60	27.40	13041.83	-6.64	83.98	28.41	84.24	94.52	68.52	64.00
13050.00	31.90	29.40	13046.15	-4.43	85.18	30.92	85.29	92.98	69.00	66.00
13055.00	35.40	31.30	13050.31	-2.04	86.58	33.67	86.60	91.35	73.09	70.00
13060.00	39.10	32.40	13054.29	.53	88.18	36.67	88.18	89.65	75.19	74.00
13065.00	41.60	33.00	13058.10	3.26	89.93	39.87	89.98	87.93	50.60	50.00
13070.00	45.10	33.50	13061.74	6.13	91.81	43.26	92.01	86.18	70.34	70.00
13075.00	48.90	33.90	13065.15	9.17	93.84	46.87	94.28	84.42	76.22	76.00
13080.00	52.60	34.60	13068.31	12.37	96.02	50.68	96.81	82.66	74.79	74.00
13085.00	56.20	35.60	13071.22	15.69	98.35	54.67	99.60	80.94	73.81	72.00
13090.00	60.40	37.20	13073.85	19.11	100.88	58.83	102.67	79.27	88.30	84.00
13095.00	64.10	38.40	13076.17	22.61	103.59	63.13	106.03	77.60	76.99	74.00

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 Distance FT	Direction Deg	Dogleg Severity Deg/100	BUILD RATE Deg/100
13100.00	67.70	39.50	13078.22	26.16	106.46	67.54	109.63	76.20	74.75	72.00
13105.00	71.10	40.10	13079.97	29.75	109.46	72.05	113.43	74.79	68.92	68.00
PULL 3.5° MOTOR										
13110.00	74.40	40.30	13081.46	33.40	112.54	76.64	117.39	73.47	66.11	66.00
13121.00	79.30	38.50	13083.96	41.67	119.33	86.98	126.40	70.75	47.31	44.55
13136.00	88.20	37.50	13085.59	53.41	128.50	101.45	139.16	67.43	59.70	59.33
13150.00	89.80	36.10	13085.83	64.62	136.89	115.11	151.37	64.73	15.18	11.43
13183.00	88.60	33.30	13086.30	91.75	155.67	147.55	180.69	59.49	9.23	-3.64
13215.00	88.20	31.80	13087.19	118.71	172.88	179.20	209.71	55.52	4.85	-1.25
13235.00	88.80	30.80	13087.71	135.79	183.27	199.04	228.09	53.46	5.83	3.00
13247.00	89.50	30.70	13087.89	146.10	189.40	210.96	239.20	52.35	5.89	5.83
13278.00	90.80	30.10	13087.81	172.84	205.09	241.78	268.21	49.88	4.62	4.19
13310.00	94.20	30.00	13086.41	200.51	221.09	273.58	298.47	47.80	10.63	10.63
13342.00	94.70	30.10	13083.93	228.12	237.07	305.32	329.00	46.10	1.59	1.56
13373.00	94.30	29.90	13081.50	254.89	252.52	336.07	358.80	44.73	1.44	-1.29
13405.00	94.30	29.50	13079.10	282.61	268.33	367.83	389.70	43.52	1.25	.00
13437.00	93.60	28.60	13076.90	310.51	283.83	399.64	420.69	42.43	3.56	-2.19
13450.00	93.00	27.70	13076.15	321.96	289.96	412.59	433.28	42.01	8.31	-4.62
13469.00	93.00	27.50	13075.15	338.77	298.75	431.53	451.68	41.41	1.05	.00
13494.00	92.00	27.00	13074.06	360.97	310.18	456.47	475.94	40.67	4.47	-4.00
13500.00	91.40	26.40	13073.88	366.33	312.88	462.47	481.76	40.50	14.14	-10.00
13514.00	90.90	25.40	13073.60	378.92	318.99	476.46	495.32	40.09	7.98	-3.57
13531.00	90.10	25.50	13073.45	394.27	326.30	493.45	511.78	39.61	4.74	-4.71
13563.00	90.30	24.50	13073.34	423.27	339.82	525.45	542.81	38.76	3.19	.63
13597.00	91.00	22.10	13072.96	454.50	353.27	559.44	575.64	37.86	7.35	2.06
13629.00	91.60	21.30	13072.23	484.22	365.09	591.40	606.44	37.02	3.12	1.87
13660.00	91.40	20.20	13071.42	513.20	376.07	622.33	636.24	36.23	3.61	-.65
13675.00	90.90	19.20	13071.12	527.32	381.13	637.28	650.63	35.86	7.45	-3.33
13690.00	91.60	19.20	13070.79	541.48	386.06	652.22	665.01	35.49	4.67	4.67
13705.00	91.60	18.30	13070.37	555.68	390.88	667.14	679.39	35.12	6.00	.00
13722.00	91.50	16.90	13069.91	571.88	396.02	684.02	695.61	34.70	8.25	-.59
13754.00	91.80	15.30	13068.99	602.61	404.89	715.69	726.00	33.90	5.09	.94
13787.00	90.20	14.30	13068.42	634.51	413.32	748.24	757.25	33.08	5.72	-4.85
13819.00	89.50	13.50	13068.50	665.57	421.00	779.72	787.55	32.32	3.32	-2.19
13849.00	90.00	13.70	13068.63	694.73	428.06	809.20	816.02	31.61	1.80	1.67
13881.00	89.80	13.30	13068.69	725.84	435.53	840.64	846.48	30.98	1.40	-.63
13913.00	89.20	13.00	13068.97	757.00	442.81	872.04	877.00	30.33	2.10	-1.87
13945.00	89.80	13.40	13069.24	788.16	450.11	903.45	907.63	29.72	2.25	1.87
13976.00	89.10	13.30	13069.54	818.32	457.27	933.89	937.41	29.20	2.28	-2.26
14008.00	89.60	13.60	13069.91	849.44	464.71	965.33	968.25	28.68	1.82	1.56
14040.00	89.50	13.50	13070.16	880.55	472.21	996.77	999.17	28.20	.44	-.31
14073.00	89.50	13.30	13070.44	912.65	479.86	1029.18	1031.11	27.73	.61	.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100	BUILD RATE Deg/100
14105.00	88.90	12.50	13070.89	943.84	487.00	1060.55	1062.07	27.29	3.12	-1.87
14137.00	88.90	11.50	13071.51	975.13	493.65	1091.82	1092.97	26.85	3.12	.00
14169.00	90.00	10.60	13071.81	1006.53	499.79	1122.98	1123.79	26.41	4.44	3.44
14201.00	89.80	9.40	13071.87	1038.05	505.34	1153.99	1154.52	25.96	3.80	-.63