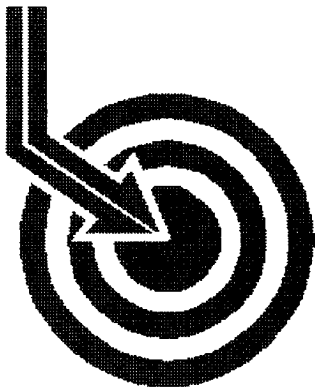


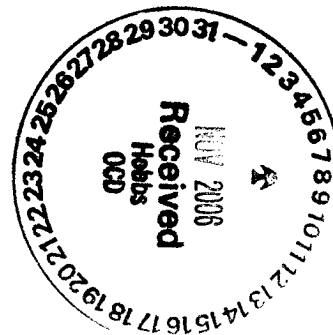


Scientific Drilling

SUR: I-1-16s-35e, 2310/S & 610/E
BHL: I-1-16s-35e, 1691/S & 686/E
API #30-025-38016

YATES PETROLEUM

Field: South Big Dog Strawn
Site: Lea County, NM
Well: Door BIW State #1Y
Wellpath: VH - Job #32K0806696
Survey: 08/28/06

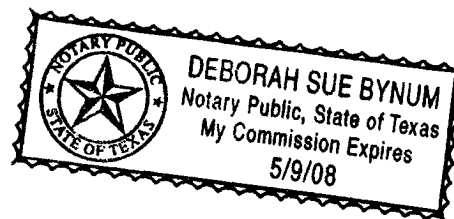


This survey is correct to the best of my knowledge
and is supported by actual field data.

.....R. W. Hart.....Company Representative

Notorized this date 26th of September, 2006.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: YATES PETROLEUM	Date: 09/25/2006	Time: 15:25:22	Page: 1
Field: South Big Dog Strawn	Co-ordinate(NE) Reference:	Site: Lea County, NM, Grid North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Door BIW State #1Y	Section (VS) Reference:	Well (0.00N,0.00E,187.31Azi)	
Wellpath: VH - Job #32K0806696	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 08/28/06	Start Date: 08/28/2006
KSRG 0'-7012'	
Company: Scientific Drilling Internatio	Engineer: Rehders w/GeoGyro
Tool: Keeper;Keeper Gyro	Tied-to: From Surface

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	359.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.28	13.45	100.00	-0.24	0.24	0.06	0.28	0.24	13.45
200.00	0.17	11.69	200.00	-0.63	0.62	0.14	0.11	0.64	13.04
300.00	0.29	39.26	300.00	-1.00	0.96	0.33	0.16	1.02	19.15
400.00	0.48	86.77	400.00	-1.29	1.18	0.91	0.36	1.49	37.68
500.00	0.65	90.35	499.99	-1.43	1.20	1.90	0.17	2.25	57.66
600.00	2.27	118.58	599.96	-0.78	0.25	4.20	1.72	4.21	86.59
700.00	2.05	102.02	699.89	0.08	-1.07	7.69	0.66	7.77	97.91
800.00	2.44	115.95	799.81	0.91	-2.37	11.36	0.67	11.60	101.80
900.00	2.09	116.65	899.73	2.19	-4.12	14.90	0.35	15.46	105.47
1000.00	2.03	110.39	999.67	3.20	-5.56	18.19	0.23	19.02	106.99
1100.00	1.79	113.25	1099.61	4.03	-6.79	21.29	0.26	22.34	107.70
1200.00	2.28	105.62	1199.55	4.74	-7.94	24.64	0.56	25.88	107.87
1300.00	1.97	116.62	1299.48	5.60	-9.25	28.09	0.51	29.57	108.23
1400.00	1.74	118.82	1399.43	6.73	-10.75	30.95	0.24	32.77	109.15
1500.00	1.88	127.15	1499.38	8.10	-12.47	33.59	0.30	35.83	110.37
1600.00	1.92	123.34	1599.32	9.65	-14.38	36.30	0.13	39.05	111.62
1700.00	2.48	124.23	1699.25	11.36	-16.52	39.49	0.56	42.81	112.71
1800.00	2.83	120.20	1799.14	13.30	-18.98	43.41	0.40	47.38	113.62
1900.00	4.14	117.19	1898.95	15.49	-21.87	48.75	1.32	53.44	114.16
2000.00	2.04	105.16	1998.80	16.96	-23.99	53.68	2.19	58.80	114.08
2100.00	2.14	105.79	2098.74	17.48	-24.96	57.20	0.10	62.41	113.58
2200.00	2.41	102.90	2198.66	17.96	-25.94	61.04	0.29	66.33	113.02
2300.00	2.33	113.34	2298.57	18.73	-27.21	64.96	0.44	70.43	112.73
2400.00	2.13	105.97	2398.50	19.57	-28.53	68.61	0.35	74.31	112.58
2500.00	1.98	106.03	2498.43	20.11	-29.52	72.06	0.15	77.87	112.28
2600.00	1.99	109.22	2598.37	20.73	-30.57	75.36	0.11	81.32	112.08
2700.00	3.08	117.77	2698.27	22.03	-32.39	79.38	1.15	85.73	112.20
2800.00	2.19	112.47	2798.17	23.47	-34.37	83.52	0.92	90.32	112.37
2900.00	1.99	114.25	2898.10	24.47	-35.82	86.87	0.21	93.96	112.41
3000.00	1.98	115.12	2998.04	25.51	-37.26	90.02	0.03	97.42	112.49
3100.00	1.72	108.18	3097.99	26.32	-38.46	93.01	0.34	100.65	112.47
3200.00	1.74	112.64	3197.94	27.00	-39.52	95.83	0.14	103.66	112.41
3300.00	1.92	118.22	3297.89	28.00	-40.89	98.71	0.25	106.85	112.50
3400.00	1.81	114.77	3397.84	29.07	-42.35	101.62	0.16	110.09	112.62
3500.00	1.19	112.58	3497.81	29.82	-43.41	104.01	0.62	112.71	112.65
3600.00	0.97	114.20	3597.79	30.34	-44.15	105.74	0.22	114.59	112.66
3700.00	0.97	102.76	3697.77	30.67	-44.69	107.34	0.19	116.27	112.60
3800.00	1.19	109.95	3797.76	30.97	-45.23	109.14	0.26	118.14	112.51
3900.00	1.04	104.98	3897.74	31.32	-45.82	111.00	0.18	120.08	112.43
4000.00	1.05	106.15	3997.72	31.58	-46.31	112.75	0.02	121.89	112.33
4100.00	1.05	108.77	4097.70	31.91	-46.86	114.50	0.05	123.72	112.26
4200.00	1.83	122.91	4197.67	32.78	-48.02	116.71	0.85	126.20	112.36
4300.00	0.71	105.17	4297.65	33.55	-49.05	118.65	1.17	128.39	112.46
4400.00	0.82	106.86	4397.64	33.76	-49.42	119.93	0.11	129.71	112.39
4500.00	0.85	105.23	4497.63	33.98	-49.82	121.33	0.04	131.16	112.32
4600.00	0.85	109.00	4597.61	34.23	-50.26	122.75	0.06	132.64	112.27
4700.00	0.72	113.07	4697.61	34.55	-50.74	124.03	0.14	134.01	112.25
4800.00	0.67	99.92	4797.60	34.75	-51.09	125.18	0.17	135.21	112.20



Scientific Drilling International

Survey Report

Company: YATES PETROLEUM
Field: South Big Dog Strawn
Site: Lea County, NM
Well: Door BIW State #1Y
Wellpath: VH - Job #32K0806696

Date: 09/25/2006 **Time:** 15:25:22 **Page:** 2
Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,187.31Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.00	0.75	92.50	4897.59	34.72	-51.22	126.41	0.12	136.39	112.06
5000.00	0.67	94.37	4997.58	34.64	-51.29	127.65	0.08	137.57	111.89
5100.00	0.75	103.92	5097.57	34.68	-51.50	128.87	0.14	138.77	111.78
5200.00	0.54	89.30	5197.57	34.69	-51.65	129.97	0.27	139.86	111.67
5300.00	0.72	95.13	5297.56	34.60	-51.70	131.07	0.19	140.90	111.53
5400.00	0.65	98.04	5397.56	34.58	-51.83	132.26	0.08	142.05	111.40
5500.00	0.66	81.76	5497.55	34.44	-51.83	133.39	0.19	143.10	111.23
5600.00	0.52	89.11	5597.54	34.22	-51.74	134.41	0.16	144.03	111.05
5700.00	0.68	95.21	5697.54	34.13	-51.79	135.46	0.17	145.02	110.92
5800.00	0.49	85.21	5797.53	34.02	-51.81	136.47	0.21	145.98	110.79
5900.00	0.79	77.98	5897.53	33.70	-51.63	137.57	0.31	146.94	110.57
6000.00	0.59	104.75	5997.52	33.54	-51.61	138.75	0.37	148.03	110.41
6100.00	0.34	130.83	6097.52	33.77	-51.94	139.47	0.32	148.83	110.43
6200.00	0.56	135.08	6197.51	34.23	-52.48	140.04	0.22	149.55	110.54
6300.00	0.78	153.77	6297.51	35.10	-53.44	140.68	0.31	150.49	110.80
6400.00	0.73	162.01	6397.50	36.24	-54.65	141.18	0.12	151.39	111.16
6500.00	0.35	151.63	6497.49	37.07	-55.53	141.52	0.39	152.03	111.42
6600.00	0.43	143.56	6597.49	37.59	-56.10	141.89	0.10	152.58	111.57
6700.00	0.30	197.51	6697.49	38.12	-56.65	142.04	0.35	152.92	111.74
6800.00	0.98	218.22	6797.48	39.11	-57.57	141.43	0.71	152.70	112.15
6900.00	0.49	268.35	6897.47	39.91	-58.25	140.47	0.76	152.07	112.52
7000.00	0.70	293.24	6997.47	39.81	-58.03	139.48	0.33	151.07	112.59
7012.00	0.72	311.59	7009.47	39.74	-57.95	139.36	1.89	150.93	112.58



Scientific
Drilling

Field: South Big Dog Strawn
Site: Lea County, NM
Well: Door BIW State #1Y
Wellpath: VH - Job #32K0806696
Survey: 08/28/06

