

30.045-34353



Scientific Drilling

Gyroscopic Survey Report
for
CONOCO PHILLIPS

Well Location	SJ 32-8 UNIT 19A
Well Name	SJ 32-8 UNIT 19A
Rig Name	Basin Wire Line
Survey Date	7/2/2008
Latitude	36.93 deg
North Reference	True North
Grid Correction	0.00 deg
Depth Reference	RKB (16')
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 0.00Azim (deg)
Definitive Survey	Computed from SJ32.BIN's HighSpeed: InRun
Operator	MATLOCK STANLEY

Comments

SURVEYED FROM RKBTO 6000 FT
Survey referenced to TRUE NORTH and 16' RKB.
Survey ran in 2-3/8" tbg.

RCVD JUL 3 '08

OIL CONS. DIV.

DIST. 3

(Standard location)
per Steve



Survey Report

Well Name:		SJ 32-8 UNIT 19A							
Survey:		Computed from SJ32 BIN's HighSpeed' InRun							
Survey Date:		7/2/2008							
MD	Inc	Azim	TVD	VS	Northing	Easting	DLS	Closure Distance	Closure Angle
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	deg
0 00	0.00	0.00	0 00	0.00	0.00	0.00	Invalid	0 00	0.00
100.00	0 17	118 55	100.00	-0.07	-0 07	0.13	0.17	0 14	118.55
200.00	0.22	159.84	200.00	-0 32	-0.32	0.32	0 15	0 45	134 86
300.00	0.45	167.74	300.00	-0 88	-0 88	0.47	0.23	1 00	151.93
400.00	0 51	170 85	399 99	-1.70	-1.70	0.62	0 06	1.81	159 86
500 00	0 56	178 28	499.99	-2.63	-2.63	0.71	0 09	2 72	164 92
600.00	0.56	188.00	599.98	-3.60	-3 60	0.65	0.10	3.66	169 70
700.00	0.48	131.58	699.98	-4.37	-4.37	0.90	0 50	4.46	168.32
800.00	0 57	111 63	799 98	-4.83	-4 83	1 68	0.20	5 12	160 78
900.00	0.53	113.59	899.97	-5.20	-5.20	2.57	0.05	5.80	153.68
1000.00	0.50	131.88	999.97	-5.67	-5.67	3.32	0.17	6.57	149 69
1100.00	0.52	154.62	1099 96	-6.37	-6.37	3.83	0.20	7.43	148.96
1200.00	0 54	154 84	1199.96	-7.21	-7.21	4 23	0.03	8 35	149 60
1300 00	0.60	153 85	1299.96	-8 10	-8 10	4.66	0.06	9 35	150.11
1400.00	0.49	154.19	1399.95	-8 95	-8.95	5.07	0.11	10 29	150 46
1500.00	0 50	150.90	1499.95	-9.71	-9.71	5.47	0.03	11 15	150.62
1600.00	0.51	152.36	1599 94	-10.49	-10.49	5.89	0.02	12 03	150.70
1700.00	0.14	174 96	1699.94	-11 00	-11.00	6.10	0.38	12.58	150.98
1800.00	0.17	137.42	1799.94	-11 23	-11.23	6.21	0 10	12.83	151.05
1900.00	0.25	122.04	1899 94	-11 45	-11.45	6.50	0.10	13.17	150 44
2000.00	0.53	108.14	1999.94	-11.71	-11.71	7.12	0.29	13.71	148.71
2100.00	0.52	112 32	2099.93	-12.03	-12.03	7.98	0.04	14.43	146.45
2200.00	0.57	111.53	2199 93	-12.38	-12 38	8.85	0.05	15.22	144.44
2300.00	0 33	115.52	2299 93	-12.69	-12.69	9.57	0.24	15.89	142.97
2400.00	0.37	345.20	2399 93	-12.50	-12.50	9.74	0.63	15.85	142.05
2500 00	0.36	312.14	2499.92	-11.97	-11.97	9.43	0.21	15.24	141.78
2600.00	0.49	303.37	2599.92	-11.53	-11.53	8.84	0.14	14 52	142.52
2700.00	0.51	281.07	2699.92	-11.21	-11.21	8 05	0.19	13.80	144.31
2800 00	0.46	285.09	2799 91	-11.02	-11 02	7.23	0 05	13.18	146.74
2900.00	0.35	294.61	2899.91	-10.78	-10.78	6 56	0.13	12.62	148.70
3000.00	0 36	271.36	2999.91	-10.65	-10.65	5.96	0.14	12.21	150.75
3100.00	0.38	255.04	3099.91	-10.73	-10.73	5.32	0.11	11.98	153.60
3200.00	0.50	263.44	3199.90	-10.87	-10.87	4.56	0.13	11 79	157.21
3300.00	0.55	260.02	3299 90	-11 00	-11.00	3.66	0.06	11.59	161.60
3400.00	0.51	291.70	3399.90	-10 92	-10 92	2 78	0.29	11 27	165.73
3500 00	0.46	317.67	3499 89	-10 46	-10 46	2 10	0.22	10.66	168 67
3600.00	0 35	328.83	3599.89	-9.90	-9.90	1.67	0 14	10 04	170.44
3700 00	0 26	326 00	3699 89	-9 45	-9 45	1 38	0 09	9 55	171.67
3800.00	0 20	12 92	3799.89	-9 09	-9.09	1.30	0.19	9.19	171.87



Survey Report

Well Name:		SJ 32-8 UNIT 19A								
Survey:		Computed from SJ32 BIN's HighSpeed. InRun								
Survey Date:		7/2/2008								
MD	Inc	Azim	TVD	VS	Northing	Easting	DLS	Closure Distance	Closure Angle	
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	deg	
3900.00	0.25	48 15	3899.89	-8.78	-8.78	1.50	0.14	8 90	170.29	
4000 00	0.22	73 53	3999.89	-8 58	-8 58	1.85	0.11	8.77	167 85	
4100 00	0.55	74 93	4099 88	-8 40	-8 40	2 49	0 33	8 76	163 49	
4200 00	1.03	68.84	4199 87	-7.95	-7 95	3 79	0.49	8.81	154 54	
4300 00	1 94	58.62	4299.84	-6.75	-6.75	6.07	0.94	9 07	138.04	
4400.00	2.53	55.37	4399 76	-4.61	-4.61	9.33	0.61	10.40	116.31	
4500.00	2.76	57 51	4499.66	-2.06	-2.06	13.17	0.25	13.33	98.91	
4600.00	2 51	69.42	4599.55	0 00	0.00	17.25	0.60	17.25	90.01	
4700.00	2 19	67.56	4699.47	1.50	1.50	21.06	0.33	21.12	85.94	
4800.00	2.17	68.25	4799 40	2 93	2 93	24.59	0 03	24.76	83.21	
4900.00	1.63	67.49	4899 34	4.17	4.17	27.66	0 54	27.97	81.42	
5000.00	1 19	71 34	4999.31	5 05	5 05	29.96	0 45	30 38	80.44	
5100 00	0 76	71.58	5099 30	5.59	5.59	31.57	0 43	32 06	79.96	
5200.00	0 57	85 03	5199 29	5.84	5.84	32.70	0.25	33 21	79.87	
5300.00	0 45	123.92	5299.28	5 67	5.67	33.52	0.36	33 99	80.41	
5400.00	0 59	112 95	5399 28	5.25	5 25	34.32	0.16	34 72	81 31	
5500.00	0 52	138 54	5499.28	4.71	4.71	35.09	0.25	35.40	82 36	
5600.00	0.80	128.81	5599.27	3.93	3.93	35.93	0.30	36 14	83.75	
5700.00	0.89	138.94	5699.26	2.92	2.92	36.98	0.17	37.09	85.49	
5800.00	1 35	147.82	5799.24	1.34	1 34	38.11	0 49	38.13	87 99	
5900 00	1.13	155.13	5899.22	-0.55	-0.55	39.15	0.27	39.15	90.80	
6000 00	0 93	136.92	5999.20	-2.04	-2.04	40 12	0.38	40.17	92.91	