



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

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Survey Report

Well Name: SJ 32-8 UNIT 19A

Survey: Computed from SJ32 BIN's HighSpeed' InRun

Survey Date: 7/2/2008

MD ft	Inc deg	Azim deg	TVD ft	VS ft	Northing ft	Easting ft	DLS deg/100ft	Closure Distance ft	Closure Angle 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



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Survey Date: 7/2/2008

MD ft	Inc deg	Azim deg	TVD ft	VS ft	Northing ft	Easting ft	DLS deg/100ft	Closure Distance ft	Closure Angle 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