

Scientific Drilling

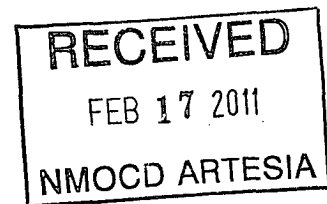
Gyroscopic Survey Report
for
DEVON

30-015-37409

Well Location	EDDY COUNTY, NEW MEXICO
Well Name	COTTON DRAW UNIT #120H
Rig Name	H&P 212
Survey Date	9/8/2010
Latitude	32.19 deg
North Reference	Grid North
Grid Correction	-0.31 deg
Depth Reference	25' K.B.
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 0.00Azim (deg)
Definitive Survey	FINAL GYRO SURVEY
Operator	J. SUTHERLAND

Comments

ZERO REFERENCE DEPTH IS 25' K.B.





Well Name:		COTTON DRAW UNIT #120H							
Survey:		FINAL GYRO SURVEY							
Survey Date:		9/8/2010							
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	0.12	74.24	100.00	0.03	0.03	0.10	0.12	0.11	74.24
200.00	0.07	82.78	200.00	0.07	0.07	0.27	0.05	0.28	76.17
300.00	0.21	97.60	300.00	0.05	0.05	0.51	0.15	0.52	84.53
400.00	0.16	78.29	400.00	0.05	0.05	0.84	0.08	0.84	86.33
500.00	0.15	71.72	500.00	0.12	0.12	1.11	0.02	1.11	83.59
600.00	0.14	69.00	600.00	0.21	0.21	1.34	0.01	1.36	81.15
700.00	0.13	90.13	700.00	0.25	0.25	1.58	0.05	1.60	80.87
800.00	0.36	97.23	800.00	0.21	0.21	2.01	0.23	2.02	83.93
900.00	0.25	95.99	900.00	0.15	0.15	2.53	0.12	2.54	86.59
1000.00	0.14	78.79	999.99	0.15	0.15	2.87	0.12	2.87	86.96
1100.00	0.02	85.97	1099.99	0.18	0.18	3.00	0.12	3.01	86.62
1200.00	0.25	84.54	1199.99	0.20	0.20	3.24	0.23	3.24	86.48
1300.00	0.17	78.55	1299.99	0.25	0.25	3.60	0.09	3.61	86.04
1400.00	0.36	69.30	1399.99	0.39	0.39	4.04	0.20	4.06	84.48
1500.00	0.26	59.84	1499.99	0.62	0.62	4.53	0.11	4.57	82.25
1600.00	0.27	59.25	1599.99	0.85	0.85	4.93	0.00	5.00	80.21
1700.00	0.30	60.93	1699.99	1.10	1.10	5.36	0.04	5.47	78.43
1800.00	0.31	50.03	1799.99	1.40	1.40	5.80	0.06	5.97	76.42
1900.00	0.14	64.99	1899.99	1.63	1.63	6.12	0.19	6.33	75.10
2000.00	0.08	70.62	1999.99	1.70	1.70	6.29	0.06	6.52	74.86
2100.00	0.05	79.40	2099.99	1.74	1.74	6.41	0.03	6.64	74.85
2200.00	0.17	95.52	2199.99	1.73	1.73	6.60	0.12	6.83	75.33
2300.00	0.49	118.31	2299.98	1.51	1.51	7.13	0.34	7.29	78.04
2400.00	0.62	127.79	2399.98	0.98	0.98	7.94	0.15	8.00	82.98
2500.00	0.68	133.49	2499.97	0.24	0.24	8.79	0.09	8.80	88.44
2600.00	1.04	143.16	2599.96	-0.90	-0.90	9.77	0.39	9.81	95.26
2700.00	1.18	150.14	2699.94	-2.52	-2.52	10.83	0.19	11.12	103.11
2800.00	1.25	153.05	2799.92	-4.39	-4.39	11.84	0.09	12.62	110.34
2900.00	1.05	154.47	2899.90	-6.19	-6.19	12.72	0.20	14.15	115.93
3000.00	0.88	145.44	2999.89	-7.64	-7.64	13.55	0.23	15.56	119.42
3100.00	0.70	120.99	3099.88	-8.59	-8.59	14.51	0.38	16.86	120.62
3200.00	1.40	95.28	3199.86	-9.01	-9.01	16.25	0.83	18.58	119.01
3300.00	1.38	90.20	3299.83	-9.13	-9.13	18.68	0.13	20.79	116.05
3400.00	1.30	90.27	3399.80	-9.14	-9.14	21.02	0.09	22.92	113.50
3500.00	1.26	88.21	3499.78	-9.11	-9.11	23.25	0.06	24.97	111.39
3600.00	1.43	83.65	3599.75	-8.94	-8.94	25.59	0.20	27.11	109.25
3700.00	2.86	100.79	3699.68	-9.26	-9.26	29.28	1.55	30.71	107.56
3800.00	3.29	106.24	3799.53	-10.53	-10.53	34.49	0.53	36.06	106.99



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ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	deg
3900.00	3.12	108.14	3899.38	-12.18	-12.18	39.83	0.21	41.65	107.01
4000.00	4.22	112.09	3999.17	-14.41	-14.41	45.82	1.13	48.04	107.46
4100.00	4.78	118.14	4098.86	-17.76	-17.76	52.91	0.73	55.81	108.56
4200.00	5.82	121.73	4198.43	-22.40	-22.40	60.90	1.09	64.88	110.19
4300.00	4.79	118.45	4298.01	-27.05	-27.05	68.88	1.07	74.00	111.44
4400.00	4.41	120.61	4397.68	-31.00	-31.00	75.87	0.42	81.96	112.23
4500.00	3.85	119.59	4497.42	-34.62	-34.62	82.09	0.57	89.09	112.86
4600.00	3.57	120.73	4597.21	-37.86	-37.86	87.69	0.29	95.51	113.36
4700.00	3.34	118.31	4697.03	-40.84	-40.84	92.93	0.26	101.50	113.72
4800.00	3.48	118.35	4796.85	-43.66	-43.66	98.17	0.14	107.44	113.98
4900.00	2.68	116.48	4896.71	-46.15	-46.15	102.94	0.81	112.81	114.15
5000.00	2.39	113.17	4996.61	-48.01	-48.01	106.95	0.32	117.23	114.18
5100.00	2.25	112.52	5096.53	-49.59	-49.59	110.68	0.15	121.28	114.13
5200.00	2.19	110.57	5196.45	-51.01	-51.01	114.28	0.10	125.14	114.05
5300.00	2.14	107.61	5296.38	-52.24	-52.24	117.85	0.12	128.91	113.91
5400.00	1.72	107.01	5396.32	-53.25	-53.25	121.07	0.42	132.26	113.74
5500.00	1.58	104.70	5496.28	-54.04	-54.04	123.84	0.16	135.12	113.57
5600.00	1.54	103.52	5596.25	-54.70	-54.70	126.47	0.05	137.80	113.39
5700.00	1.40	100.99	5696.21	-55.25	-55.25	128.98	0.15	140.31	113.19
5800.00	1.12	93.56	5796.19	-55.54	-55.54	131.16	0.32	142.43	112.95
5900.00	1.10	98.13	5896.17	-55.74	-55.74	133.08	0.09	144.29	112.72
6000.00	0.98	93.00	5996.15	-55.92	-55.92	134.89	0.15	146.02	112.52
6100.00	1.19	104.20	6096.14	-56.22	-56.22	136.75	0.30	147.86	112.35
6200.00	0.96	102.24	6196.12	-56.65	-56.65	138.59	0.23	149.72	112.23
6300.00	0.97	113.72	6296.10	-57.17	-57.17	140.18	0.19	151.39	112.19
6400.00	0.90	131.87	6396.09	-58.04	-58.04	141.54	0.30	152.98	112.30
6500.00	1.16	131.01	6496.07	-59.23	-59.23	142.89	0.26	154.68	112.51
6600.00	1.08	130.74	6596.06	-60.51	-60.51	144.37	0.08	156.54	112.74
6700.00	0.92	140.88	6696.04	-61.74	-61.74	145.59	0.24	158.14	112.98
6800.00	1.11	151.29	6796.02	-63.22	-63.22	146.56	0.26	159.62	113.33
6900.00	1.26	158.28	6896.00	-65.09	-65.09	147.44	0.20	161.16	113.82
7000.00	0.94	168.52	6995.99	-66.91	-66.91	148.00	0.37	162.42	114.33
7100.00	0.93	174.12	7095.97	-68.51	-68.51	148.25	0.09	163.31	114.80
7200.00	0.67	164.71	7195.96	-69.88	-69.88	148.49	0.29	164.11	115.20
7300.00	0.55	151.35	7295.96	-70.86	-70.86	148.87	0.18	164.87	115.45
7400.00	0.75	152.81	7395.95	-71.86	-71.86	149.40	0.20	165.78	115.69
7500.00	1.25	160.47	7495.93	-73.47	-73.47	150.06	0.51	167.08	116.09
7505.00	0.94	145.77	7500.93	-73.55	-73.55	150.10	8.25	167.15	116.11