

30-CIS-32413

Computalog Drilling Services

Client : KERR McGEE CORPORATION
 Well : CONOCO STATE WELL NO. 8
 Location : EDDY COUNTY, NEW MEXICO
 License :
 Comment : (POOL PULLING UNIT 1106)

Page: 1
 Date: 1/21/03
 File :

UWI #:

Vertical Section Calculated Along Azimuth 0.00°

KB Elevation = 0.00ft GR. Elevation = 3933.00ft

	MD	Inc	Azi	TVD	North	East	V'Sect	D'Leg	Build	Turn
	ft	deg	deg	ft	ft	ft	ft	°/100	°/100	°/100
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CDS SURFACE RECORDING GYROSCOPIC MULTISHOT SURVEY FROM SURFACE TO 7840 FT MD										
DATE(S): JANUARY 21, 2003										
CORRECTION IS 9.15 DEGREES EAST										
ALL DIRECTIONS ARE FROM TRUE NORTH										
1	100.00	0.17	110.69	100.00	-0.05	0.14	-0.05	0.17	0.17	110.69
2	200.00	0.37	313.12	200.00	0.12	0.04	0.12	0.53	0.20	-157.57
3	300.00	1.08	355.10	299.99	1.28	-0.27	1.28	0.84	0.71	41.98
4	400.00	1.65	24.66	399.96	3.52	0.25	3.52	0.89	0.57	29.56
5	500.00	1.26	51.03	499.93	5.52	1.70	5.52	0.76	-0.39	26.37
6	600.00	1.64	60.41	599.90	6.92	3.80	6.92	0.45	0.38	9.38
7	700.00	1.27	55.58	699.87	8.25	5.96	8.25	0.39	-0.37	-4.83
8	800.00	0.64	93.05	799.85	8.85	7.43	8.85	0.86	-0.63	37.47
9	900.00	1.15	112.28	899.84	8.44	8.92	8.44	0.59	0.51	19.23
10	1000.00	1.43	113.79	999.82	7.56	10.99	7.56	0.28	0.28	1.51
11	1100.00	1.07	128.03	1099.79	6.48	12.86	6.48	0.47	-0.36	14.24
12	1200.00	0.72	124.47	1199.78	5.55	14.12	5.55	0.35	-0.35	-3.56
13	1300.00	0.98	138.53	1299.77	4.55	15.20	4.55	0.33	0.26	14.06
14	1400.00	0.77	105.74	1399.76	3.73	16.42	3.73	0.53	-0.21	-32.79
15	1500.00	1.16	115.30	1499.74	3.11	17.98	3.11	0.42	0.39	9.56
16	1600.00	1.12	111.37	1599.72	2.32	19.80	2.32	0.09	-0.04	-3.93
17	1700.00	1.16	119.35	1699.70	1.47	21.60	1.47	0.16	0.04	7.98
18	1800.00	0.62	137.14	1799.69	0.58	22.85	0.58	0.60	-0.54	17.79
19	1900.00	1.01	141.84	1899.68	-0.51	23.76	-0.51	0.40	0.39	4.70
20	2000.00	1.00	136.00	1999.67	-1.83	24.91	-1.83	0.10	-0.01	-5.84
21	2100.00	0.60	133.54	2099.66	-2.82	25.89	-2.82	0.40	-0.40	-2.46
22	2200.00	0.92	137.92	2199.65	-3.78	26.81	-3.78	0.32	0.32	4.38
23	2300.00	1.01	136.87	2299.63	-5.01	27.95	-5.01	0.09	0.09	-1.05
24	2400.00	1.07	133.38	2399.62	-6.30	29.23	-6.30	0.09	0.06	-3.49
25	2500.00	0.60	138.51	2499.61	-7.33	30.26	-7.33	0.48	-0.47	5.13
26	2600.00	0.65	124.99	2599.60	-8.05	31.07	-8.05	0.16	0.05	-13.52
27	2700.00	1.12	141.80	2699.59	-9.14	32.14	-9.14	0.53	0.47	16.81
28	2800.00	1.18	145.38	2799.57	-10.76	33.33	-10.76	0.09	0.06	3.58
29	2900.00	0.72	151.66	2899.55	-12.16	34.21	-12.16	0.47	-0.46	6.28
30	3000.00	0.68	151.94	2999.55	-13.24	34.79	-13.24	0.04	-0.04	0.28

Computalog Drilling Services

Client : KERR McGEE CORPORATION

Well : CONOCO STATE WELL NO. 8

Location : EDDY COUNTY, NEW MEXICO

License :

UWI #:

Comment : (POOL PULLING UNIT 1106)

Page: 2

Date: 1/21/03

File :

Vertical Section Calculated Along Azimuth 0.00°										
KB Elevation = 0.00ft					GR. Elevation = 3933.00ft					
	MD	Inc	Azi	TVD	North	East	V'Sect	D'Leg	Build	Turn
	ft	deg	deg	ft	ft	ft	ft	°/100	°/100	°/100
31	3100.00	0.60	157.50	3099.54	-14.24	35.27	-14.24	0.10	-0.08	5.56
32	3200.00	0.59	164.16	3199.54	-15.22	35.61	-15.22	0.07	-0.01	6.66
33	3300.00	0.60	184.91	3299.53	-16.24	35.71	-16.24	0.21	0.01	20.75
34	3400.00	0.55	151.19	3399.52	-17.18	35.89	-17.18	0.34	-0.05	-33.72
35	3500.00	0.41	227.95	3499.52	-17.84	35.86	-17.84	0.61	-0.14	76.76
36	3600.00	0.27	156.83	3599.52	-18.30	35.69	-18.30	0.41	-0.14	-71.12
37	3700.00	0.56	211.70	3699.52	-18.93	35.52	-18.93	0.46	0.29	54.87
38	3800.00	0.64	214.77	3799.51	-19.81	34.95	-19.81	0.09	0.08	3.07
39	3900.00	0.37	253.54	3899.51	-20.36	34.32	-20.36	0.42	-0.27	38.77
40	4000.00	1.04	255.16	3999.50	-20.68	33.13	-20.68	0.67	0.67	1.62
41	4100.00	1.23	252.72	4099.48	-21.23	31.23	-21.23	0.20	0.19	-2.44
42	4200.00	1.49	258.01	4199.45	-21.82	28.93	-21.82	0.29	0.26	5.29
43	4300.00	1.38	256.00	4299.42	-22.38	26.49	-22.38	0.12	-0.11	-2.01
44	4400.00	2.01	252.04	4399.38	-23.21	23.66	-23.21	0.64	0.63	-3.96
45	4500.00	2.31	251.04	4499.31	-24.41	20.08	-24.41	0.30	0.30	-1.00
46	4600.00	2.67	248.61	4599.21	-25.91	16.01	-25.91	0.38	0.36	-2.43
47	4700.00	3.02	241.74	4699.09	-28.01	11.52	-28.01	0.49	0.35	-6.87
48	4800.00	3.40	240.29	4798.93	-30.73	6.62	-30.73	0.39	0.38	-1.45
49	4900.00	3.87	234.98	4898.73	-34.13	1.28	-34.13	0.58	0.47	-5.31
50	5000.00	4.15	237.15	4998.49	-38.03	-4.52	-38.03	0.32	0.28	2.17
51	5100.00	4.40	240.63	5098.21	-41.88	-10.90	-41.88	0.36	0.25	3.48
52	5200.00	4.53	239.54	5197.90	-45.76	-17.65	-45.76	0.16	0.13	-1.09
53	5300.00	4.50	244.22	5297.59	-49.47	-24.59	-49.47	0.37	-0.03	4.68
54	5400.00	4.27	243.21	5397.30	-52.85	-31.44	-52.85	0.24	-0.23	-1.01
55	5500.00	4.42	239.67	5497.01	-56.48	-38.09	-56.48	0.31	0.15	-3.54
56	5600.00	4.54	238.37	5596.71	-60.50	-44.79	-60.50	0.16	0.12	-1.30
57	5700.00	4.87	236.84	5696.37	-64.89	-51.71	-64.89	0.35	0.33	-1.53
58	5800.00	4.90	236.65	5796.01	-69.56	-58.83	-69.56	0.03	0.03	-0.19
59	5900.00	5.09	234.72	5895.63	-74.47	-66.02	-74.47	0.25	0.19	-1.93
60	6000.00	5.03	241.59	5995.24	-79.12	-73.50	-79.12	0.61	-0.06	6.87
61	6100.00	3.98	229.20	6094.93	-83.48	-79.98	-83.48	1.43	-1.05	-12.39
62	6200.00	3.76	225.99	6194.70	-88.02	-84.97	-88.02	0.31	-0.22	-3.21
63	6300.00	3.10	234.20	6294.52	-91.88	-89.52	-91.88	0.82	-0.66	8.21
64	6400.00	2.67	235.66	6394.40	-94.78	-93.63	-94.78	0.44	-0.43	1.46

Computalog Drilling Services

Client : KERR McGEE CORPORATION
 Well : CONOCO STATE WELL NO. 8
 Location : EDDY COUNTY, NEW MEXICO
 License :
 Comment : (POOL PULLING UNIT 1106)

Page: 3
 Date: 1/21/03
 File :

UWI #:

Vertical Section Calculated Along Azimuth 0.00°										
KB Elevation = 0.00ft					GR. Elevation = 3933.00ft					
	MD ft	Inc deg	Azi deg	TVD ft	North ft	East ft	V'Sect ft	D'Leg °/100	Build °/100	Turn °/100
65	6500.00	2.48	233.21	6494.30	-97.39	-97.29	-97.39	0.22	-0.19	-2.45
66	6600.00	2.17	231.27	6594.21	-99.87	-100.50	-99.87	0.32	-0.31	-1.94
67	6700.00	2.58	261.39	6694.13	-101.39	-104.20	-101.39	1.30	0.41	30.12
68	6800.00	4.30	260.85	6793.95	-102.32	-110.13	-102.32	1.72	1.72	-0.54
69	6900.00	5.04	255.82	6893.62	-103.99	-118.09	-103.99	0.85	0.74	-5.03
70	7000.00	4.54	256.30	6993.27	-106.01	-126.19	-106.01	0.50	-0.50	0.48
71	7100.00	2.92	270.37	7093.05	-106.93	-132.59	-106.93	1.85	-1.62	14.07
72	7200.00	2.80	279.00	7192.93	-106.53	-137.55	-106.53	0.45	-0.12	8.63
73	7300.00	2.41	247.52	7292.83	-106.95	-141.90	-106.95	1.46	-0.39	-31.48
74	7400.00	2.93	239.30	7392.72	-109.06	-146.04	-109.06	0.64	0.52	-8.22
75	7500.00	2.85	244.50	7492.60	-111.44	-150.48	-111.44	0.27	-0.08	5.20
76	7600.00	2.22	245.26	7592.50	-113.32	-154.49	-113.32	0.63	-0.63	0.76
77	7700.00	2.41	245.37	7692.42	-115.00	-158.16	-115.00	0.19	0.19	0.11
78	7800.00	1.83	244.23	7792.35	-116.57	-161.51	-116.57	0.58	-0.58	-1.14
79	7840.00	1.81	243.60	7832.33	-117.13	-162.65	-117.13	0.07	-0.05	-1.58

Bottom Hole Closure 200.43ft Along Azimuth 234.24°

1710 S / 880 E