

C/SF
#

CONOCO, INC.
SAVANNAH STATE NO.1

slot #1
MORROW
EDDY COUNTY, NEW MEXICO

S U R V E Y L I S T I N G

by
Baker Hughes INTREQ

Your ref :
Our ref : svy470
License :

Date printed : 8-Dec-95
Date created : 9-Aug-95
Last revised : 8-Dec-95

Field is centred on 0.000,0.000,0.00000,+
Structure is centred on 0.000,0.000,0.00000,+

Slot location is n0 0 0.000,w4 29 18.843
Slot Grid coordinates are N 0.000, E 0.000
Slot local coordinates are 0.00 N 0.00 E
Reference North is Grid North

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SURVEY LISTING Page 1
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Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00
100.00	0.26	315.12	100.00	0.16 N	0.16 W	0.00
200.00	0.59	248.27	200.00	0.13 N	0.80 W	0.47
300.00	1.21	212.01	299.98	0.96 S	1.84 W	1.97
400.00	1.65	221.43	399.95	2.93 S	3.35 W	4.44
500.00	1.74	213.82	499.91	5.27 S	5.15 W	7.36
600.00	1.57	207.76	599.87	7.74 S	6.63 W	10.16
700.00	1.91	201.55	699.82	10.51 S	7.88 W	13.00
800.00	2.16	201.06	799.76	13.81 S	9.17 W	16.25
900.00	2.23	193.42	899.69	17.47 S	10.30 W	19.63
1000.00	1.71	190.45	999.63	20.82 S	11.02 W	22.52
1100.00	1.15	198.42	1099.60	23.24 S	11.61 W	24.64
1200.00	1.32	192.87	1199.57	25.32 S	12.18 W	26.52
1300.00	1.40	200.78	1299.54	27.58 S	12.87 W	28.61
1400.00	1.45	206.17	1399.51	29.86 S	13.86 W	30.92
1500.00	1.28	214.33	1499.48	31.92 S	15.05 W	33.21
1600.00	1.16	215.92	1599.46	33.66 S	16.27 W	35.31
1700.00	1.10	215.11	1699.44	35.27 S	17.42 W	37.26
1800.00	1.00	212.78	1799.42	36.79 S	18.44 W	39.05
1900.00	0.95	217.19	1899.41	38.18 S	19.42 W	40.73
2000.00	1.03	217.86	1999.40	39.55 S	20.47 W	42.44
2100.00	1.09	210.53	2099.38	41.08 S	21.50 W	44.25
2200.00	1.02	216.58	2199.36	42.61 S	22.52 W	46.06
2300.00	0.97	213.45	2299.35	44.03 S	23.52 W	47.76
2400.00	0.93	207.64	2399.33	45.46 S	24.36 W	49.37

All data is in feet unless otherwise stated
Coordinates from structure and TVD from wellhead.
Vertical section is from wellhead on azimuth 225.00 degrees.
Declination is 0.00 degrees, Convergence is 0.00 degrees.
Calculation uses the minimum curvature method.
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SURVEY LISTING Page 2
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Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect	
2500.00	1.00	210.61	2499.32	46.93 S	25.18 W	0.09	50.99
2600.00	1.07	202.98	2599.30	48.54 S	25.99 W	0.15	52.70
2700.00	0.91	194.33	2699.29	50.17 S	26.55 W	0.22	54.25
2800.00	0.72	187.50	2799.28	51.56 S	26.83 W	0.21	55.43
2900.00	0.62	178.35	2899.27	52.72 S	26.90 W	0.15	56.30
3000.00	0.58	191.48	2999.26	53.76 S	26.98 W	0.14	57.09
3100.00	0.60	193.42	3099.26	54.77 S	27.20 W	0.03	57.96
3200.00	0.61	205.17	3199.25	55.76 S	27.55 W	0.12	58.91
3300.00	0.59	191.34	3299.25	56.74 S	27.88 W	0.14	59.84
3400.00	0.41	183.07	3399.24	57.61 S	28.00 W	0.19	60.53
3500.00	0.48	223.47	3499.24	58.27 S	28.30 W	0.31	61.22
3600.00	0.57	204.42	3599.24	59.02 S	28.80 W	0.20	62.10
3700.00	0.40	216.40	3699.24	59.76 S	29.21 W	0.20	62.91
3800.00	0.47	218.48	3799.23	60.36 S	29.67 W	0.07	63.66
3900.00	0.77	157.02	3899.23	61.30 S	29.67 W	0.68	64.32
4000.00	0.59	169.96	3999.22	62.43 S	29.32 W	0.24	64.87
4100.00	0.82	161.62	4099.21	63.61 S	29.00 W	0.25	65.49
4200.00	0.64	151.29	4199.20	64.78 S	28.51 W	0.22	65.96
4300.00	0.61	174.22	4299.20	65.80 S	28.18 W	0.25	66.46
4400.00	0.48	149.33	4399.19	66.69 S	27.92 W	0.27	66.90
4500.00	0.39	195.18	4499.19	67.38 S	27.79 W	0.35	67.30
4600.00	0.17	148.92	4599.19	67.84 S	27.80 W	0.30	67.63
4700.00	0.14	328.87	4699.19	67.86 S	27.79 W	0.31	67.63
4800.00	0.19	299.41	4799.19	67.67 S	28.00 W	0.10	67.65
4900.00	0.46	334.06	4899.19	67.23 S	28.32 W	0.32	67.56

All data is in feet unless otherwise stated.
Coordinates from structure and TVD from wellhead.
Vertical section is from wellhead on azimuth 225.00 degrees.
Declination is 0.00 degrees, Convergence is 0.00 degrees.
Calculation uses the minimum curvature method.
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SURVEY LISTING Page 3
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Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
5000.00	0.59	321.79	4999.18	66.46 S	28.81 W	0.17
5100.00	0.60	328.40	5099.18	65.61 S	29.41 W	0.07
5200.00	0.71	299.89	5199.17	64.86 S	30.22 W	0.34
5300.00	1.18	285.42	5299.16	64.28 S	31.75 W	0.52
5400.00	1.21	297.60	5399.14	63.51 S	33.68 W	0.26
5500.00	1.09	288.41	5499.12	62.72 S	35.51 W	0.22
5600.00	1.32	296.18	5599.10	61.91 S	37.45 W	0.28
5700.00	1.27	294.70	5699.07	60.94 S	39.49 W	0.06
5800.00	1.07	289.41	5799.05	60.17 S	41.38 W	0.23
5900.00	1.03	289.92	5899.03	59.55 S	43.10 W	0.04
6000.00	1.05	292.98	5999.02	58.89 S	44.79 W	0.06
6100.00	1.15	295.16	6099.00	58.10 S	46.54 W	0.11
6200.00	1.21	284.51	6198.98	57.41 S	48.47 W	0.23
6300.00	1.10	285.78	6298.96	56.89 S	50.42 W	0.11
6400.00	0.91	284.59	6398.94	56.43 S	52.11 W	0.19
6500.00	0.69	308.77	6498.93	55.85 S	53.35 W	0.40
6600.00	1.13	308.50	6598.92	54.86 S	54.59 W	0.44
6700.00	1.24	311.43	6698.90	53.53 S	56.17 W	0.12
6800.00	1.06	302.56	6798.88	52.32 S	57.76 W	0.25
6900.00	1.02	291.64	6898.86	51.49 S	59.37 W	0.20
7000.00	0.57	278.52	6998.85	51.09 S	60.69 W	0.48
7100.00	0.33	213.73	7098.85	51.25 S	61.34 W	0.52
7200.00	0.21	248.92	7198.85	51.56 S	61.67 W	0.20
7300.00	0.22	154.75	7298.84	51.80 S	61.76 W	0.31
7400.00	1.15	142.15	7398.84	52.76 S	61.06 W	0.94

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Coordinates from structure and TVD from wellhead.
Vertical section is from wellhead on azimuth 225.00 degrees.
Declination is 0.00 degrees, Convergence is 0.00 degrees.
Calculation uses the minimum curvature method.
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SURVEY LISTING Page 4
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Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
7500.00	2.04	133.23	7498.80	54.78 S	0.92	80.56
7600.00	2.62	139.79	7598.72	57.74 S	0.64	80.70
7700.00	2.11	137.01	7698.63	60.83 S	0.52	80.95
7800.00	1.59	135.64	7798.58	63.17 S	0.52	81.03
7850.00	1.57	131.96	7848.56	64.12 S	0.21	81.00
7900.00	1.20	150.10	7898.54	65.04 S	1.14	81.10
7942.00	2.10	190.90	7940.53	66.17 S	3.40	81.86
7973.00	3.70	202.20	7971.49	67.66 S	5.46	83.25
8006.00	5.30	207.80	8004.38	69.99 S	5.02	85.68
8037.00	7.00	209.90	8035.20	72.90 S	5.53	88.88
8068.00	8.80	210.60	8065.91	76.58 S	5.81	93.00
8098.00	10.50	211.30	8095.48	80.89 S	5.68	97.88
8130.00	12.10	214.10	8126.86	86.16 S	5.28	104.00
8161.00	13.50	218.30	8157.09	91.69 S	5.42	110.79
8193.00	15.00	221.80	8188.11	97.70 S	5.40	118.63
8224.00	16.80	222.50	8217.92	104.00 S	5.84	127.11
8255.00	18.50	223.30	8247.46	110.88 S	5.54	136.51
8287.00	20.90	224.70	8277.58	118.64 S	7.64	147.29
8319.00	23.40	226.10	8307.22	127.10 S	7.98	159.35
8350.00	24.20	226.80	8335.58	135.72 S	2.74	171.86
8381.00	24.20	227.50	8363.86	144.36 S	0.92	184.56
8412.00	24.20	226.80	8392.14	153.00 S	0.92	197.26
8443.00	25.00	226.80	8420.32	161.84 S	2.58	210.15
8474.00	24.60	227.50	8448.46	170.68 S	1.60	223.15
8505.00	24.40	226.80	8476.67	179.42 S	1.14	235.99

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SURVEY LISTING Page 5
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Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
8568.00	25.60	226.10	8533.77	197.77 S	1.96	262.61
8630.00	25.20	226.10	8589.78	216.21 S	0.64	289.20
8691.00	25.00	226.10	8645.01	234.15 S	0.33	315.07
8756.00	24.60	227.70	8704.02	252.78 S	1.20	342.32
8819.00	25.20	227.50	8761.16	270.67 S	0.96	368.82
8882.00	26.00	227.50	8817.98	289.06 S	1.27	396.01
8944.00	26.40	227.50	8873.61	307.55 S	0.64	423.36
9008.00	25.80	227.50	8931.08	326.57 S	0.94	451.49
9070.00	25.40	227.50	8987.00	344.67 S	0.64	478.25
9123.00	25.40	226.80	9034.87	360.13 S	0.57	500.97
9197.00	25.00	224.00	9101.83	382.24 S	1.70	532.47
9249.00	24.20	224.00	9149.11	397.82 S	1.54	554.11
9312.00	23.40	221.00	9206.76	416.55 S	2.30	579.50
9375.00	22.90	219.00	9264.68	435.51 S	1.48	604.17
9438.00	22.90	215.20	9322.72	455.06 S	2.35	628.44
9465.00	22.90	215.20	9347.59	463.64 S	0.00	638.80
9565.00	22.90	215.00	9439.71	495.48 S	0.08	677.13

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Vertical section is from wellhead on azimuth 225.00 degrees.
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SURVEY LISTING Page 6
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Coordinates from structure and TVD from wellhead.
Bottom hole distance is 677.54 on azimuth 223.00 degrees from wellhead.
Vertical section is from wellhead on azimuth 225.00 degrees.
Declination is 0.00 degrees, Convergence is 0.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ