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Hold order for
EO order
Revision

Holmberg Gas Com #1R

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NOV 27 1995

OIL CON. DIV.
DIST. 3

960.00 S 1710.00 E

AMOCO PRODUCTION COMPANY
SEC. 28-T32N-R10W

1R
SLOT #1
SAN JUAN COUNTY
NEW MEXICO

SURVEY LISTING

by
Baker Hughes Inteq

Your ref : MLD Survey
Our ref : svy3507
License : HOLMBERG GAS UNIT COM

Date printed : 13-Nov-95
Date created : 8-Nov-95
Last revised : 13-Nov-95

Field is centred on n36 50 0.000, w107 30 0
Structure is centred on n36 57 38.012, w107 50 24

Slot location is n36 57 28.519, w107 50 45.068
Slot Grid coordinates are N 2167951.046, E 496342.302
Slot local coordinates are 960.00 S 1710.00 W
Reference North is True North

AMOCO PRODUCTION COMPANY
SEC. 28-T32N-R10W, # 1R
SAN JUAN COUNTY, NEW MEXICO

SURVEY LISTING Page 1
Your ref : MWD Survey
Last revised : 13-Nov-95

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	RECTANGULAR COORDINATES			Dogleg Deg/100Ft	Vert Sect
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	0.00	
257.00	0.00	0.00	257.00	0.00 N	0.00 E	0.00	0.00	
638.00	1.00	71.70	637.98	1.04 N	3.16 E	0.26	1.01	
1161.00	1.00	106.70	1160.90	1.16 N	11.86 E	0.11	6.03	
1760.00	1.00	129.30	1759.82	3.65 S	20.91 E	0.06	15.24	
2107.00	0.25	71.70	2106.80	5.33 S	23.97 E	0.26	18.40	
2542.00	0.25	275.30	2541.79	4.94 S	23.93 E	0.11	18.06	
3011.00	1.50	336.70	3010.73	0.79 N	20.48 E	0.30	11.40	Last Single Shot Survey
3278.00	0.50	34.30	3277.70	4.96 N	19.76 E	0.49	7.60	
3308.00	0.63	102.90	3307.69	5.03 N	19.99 E	2.15	7.68	
3339.00	2.13	144.70	3338.68	4.53 N	20.49 E	5.52	8.38	
3369.00	4.38	150.40	3368.63	3.07 N	21.38 E	7.57	10.08	
3401.00	6.75	147.90	3400.48	0.42 N	22.98 E	7.44	13.17	
3431.00	9.06	147.30	3430.19	3.06 S	25.20 E	7.70	17.29	
3463.00	10.94	145.20	3461.71	7.68 S	28.29 E	5.98	22.84	
3494.00	13.38	145.40	3492.01	13.04 S	32.01 E	7.87	29.37	
3525.00	15.56	143.30	3522.02	19.33 S	36.53 E	7.23	37.11	
3556.00	17.63	143.90	3551.73	26.46 S	41.78 E	6.70	45.96	
3589.00	19.81	143.80	3582.98	35.01 S	48.03 E	6.61	56.55	
3620.00	21.44	142.60	3612.00	43.75 S	54.57 E	5.43	67.47	
3650.00	23.25	141.10	3639.74	52.72 S	61.62 E	6.32	78.87	
3681.00	24.56	140.80	3668.08	62.47 S	69.54 E	4.24	91.41	
3713.00	24.25	139.20	3697.22	72.60 S	78.03 E	2.28	104.60	
3744.00	25.44	136.90	3725.35	82.28 S	86.74 E	4.94	117.55	
3776.00	26.81	137.80	3754.08	92.64 S	96.29 E	4.46	131.55	
3806.00	27.56	141.80	3780.77	103.11 S	105.12 E	6.58	145.21	
3836.00	27.39	140.80	3807.39	113.91 S	113.78 E	1.64	159.03	
3868.00	25.26	143.90	3836.07	125.14 S	122.45 E	7.92	173.21	
3897.00	25.56	146.40	3862.27	135.35 S	129.56 E	3.84	185.65	
3929.00	26.94	147.90	3890.96	147.24 S	137.23 E	4.78	199.78	
3960.00	28.75	147.60	3918.38	159.48 S	144.96 E	5.86	214.23	
3991.00	30.94	147.40	3945.26	172.49 S	153.25 E	7.07	229.63	
4021.00	33.50	146.40	3970.64	185.89 S	161.99 E	8.72	245.60	
4053.00	36.19	144.60	3996.90	200.95 S	172.35 E	9.00	263.88	
4085.00	38.31	142.80	4022.37	216.55 S	183.82 E	7.45	283.24	
4117.00	40.06	142.60	4047.18	232.63 S	196.07 E	5.48	303.45	
4147.00	41.63	143.10	4069.87	248.27 S	207.92 E	5.34	323.07	
4179.00	42.69	143.80	4093.59	265.53 S	220.71 E	3.62	344.55	
4211.00	41.75	144.32	4117.29	282.94 S	233.33 E	3.13	366.05	
4242.00	42.50	143.80	4140.28	299.77 S	245.54 E	2.67	386.84	
4273.00	44.31	143.30	4162.80	316.90 S	258.19 E	5.94	408.14	
4305.00	43.81	142.40	4185.80	334.64 S	271.63 E	2.50	430.39	
4336.00	42.81	142.10	4208.35	351.45 S	284.65 E	3.29	451.64	
4368.00	43.81	142.30	4231.64	368.80 S	298.10 E	3.15	473.58	
4399.00	45.44	142.80	4253.70	386.09 S	311.34 E	5.38	495.35	
4431.00	44.81	142.20	4276.28	404.08 S	325.14 E	2.38	518.02	
4463.00	43.81	141.60	4299.18	421.67 S	338.94 E	3.39	540.36	
4493.00	44.56	141.60	4320.69	438.05 S	351.92 E	2.50	561.25	
4526.00	43.69	140.70	4344.38	455.95 S	366.34 E	3.25	584.20	
4558.00	42.50	139.70	4367.74	472.74 S	380.33 E	4.29	606.01	

All data is in feet unless otherwise stated
Coordinates from SLOT #1 and TVD from RKB (6054.00 Ft above mean sea level).
Vertical section is from wellhead on azimuth 144.00 degrees.
Declination is 11.71 degrees, Convergence is 0.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes Inteq

Holmberg Gas Unit #1-A
 Com
 AMOCO PRODUCTION COMPANY
 SEC.28-T32N-R10W, # 1A
 SAN JUAN COUNTY, NEW MEXICO

SURVEY LISTING Page 2
 Your ref : MWD Survey
 Last revised : 13-Nov-95

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	RECTANGULAR COORDINATES	Dogleg Deg/100Ft	Vert Sect
4589.00	43.13	139.90	4390.48	488.84 S 393.93 E	2.08	627.02
4620.00	44.69	140.70	4412.82	505.38 S 407.66 E	5.34	648.48
4652.00	44.75	140.30	4435.56	522.75 S 421.98 E	0.90	670.95
4683.00	44.25	140.20	4457.66	539.46 S 435.87 E	1.63	692.63
4715.00	43.88	140.40	4480.66	556.58 S 450.09 E	1.24	714.84
4747.00	43.25	139.70	4503.85	573.49 S 464.25 E	2.48	736.84
4779.00	42.75	139.40	4527.25	590.10 S 478.41 E	1.69	758.60
4810.00	42.56	140.10	4550.05	606.13 S 491.98 E	1.65	779.55
4842.00	43.00	139.90	4573.54	622.78 S 505.95 E	1.44	801.23
4874.00	44.69	141.20	4596.61	639.89 S 520.03 E	5.98	823.35
4906.00	45.06	141.30	4619.29	657.50 S 534.16 E	1.18	845.90
4936.00	45.00	141.40	4640.49	674.08 S 547.42 E	0.31	867.11
4967.00	44.94	141.10	4662.42	691.16 S 561.13 E	0.71	888.99
4998.00	44.81	141.10	4684.39	708.19 S 574.87 E	0.42	910.83
5028.00	44.81	142.10	4705.68	724.76 S 588.00 E	2.35	931.96
5059.00	44.56	142.20	4727.72	741.97 S 601.38 E	0.84	953.74
5089.00	44.63	142.10	4749.08	758.60 S 614.30 E	0.33	974.80
5121.00	45.06	142.60	4771.77	776.47 S 628.08 E	1.74	997.35
5153.00	44.88	142.30	4794.41	794.40 S 641.87 E	0.87	1019.96
5183.00	44.38	142.20	4815.76	811.06 S 654.77 E	1.68	1041.03
5215.00	44.75	141.90	4838.56	828.77 S 668.58 E	1.33	1063.47
5246.00	45.50	142.40	4860.43	846.12 S 682.06 E	2.68	1085.42
5277.00	45.56	142.20	4882.14	863.62 S 695.59 E	0.50	1107.54
5308.00	45.63	141.70	4903.84	881.06 S 709.24 E	1.17	1129.67
5337.00	45.44	140.90	4924.15	897.21 S 722.18 E	2.07	1150.34
5429.00	44.69	139.40	4989.13	947.21 S 763.90 E	1.41	1215.32
5522.00	44.63	137.40	5055.28	996.09 S 807.30 E	1.51	1280.37
5615.00	44.13	136.70	5121.75	1043.70 S 851.62 E	0.75	1344.94
5708.00	43.56	135.30	5188.83	1090.04 S 896.36 E	1.21	1408.73
5805.00	43.06	133.80	5259.41	1136.72 S 943.77 E	1.18	1474.36
5850.00	42.89	133.34	5292.34	1157.86 S 966.00 E	0.79	1504.53 Projected Survey
5885.00	42.50	133.00	5318.17	1181.73 S 991.60 E	—	1527.86 Projected Survey

These calculations are correct to the best of my knowledge.

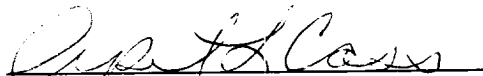
Bradley D. Dilger

Bradley D. Dilger
 Amoco Production Company
 November 14, 1995

All data is in feet unless otherwise stated
 Coordinates from SLOT #1 and TVD from RKB (6054.00 Ft above mean sea level).
 Vertical section is from wellhead on azimuth 144.00 degrees.
 Declination is 11.71 degrees, Convergence is 0.00 degrees.
 Calculation uses the minimum curvature method.
 Presented by Baker Hughes INTEQ

STATE OF COLORADO)
CITY AND : ss.
COUNTY OF DENVER)

On this the 14th day of November, 19 95, the undersigned, personally appeared, Bradley D. Bilyeu, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument and acknowledged that he/she executed the same for the purposes therein contained. In witness whereof, I hereunto set my hand and official seal.


Notary Public

My Commission expires:

August 17, 1997

