

R. 21 S., R. 22 W., sec. 7

1-403-266-8022
DAVE

Computer inventoried

ORIGINAL

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sperry-sun
DRILLING SERVICES

A DRESSER INDUSTRIES, INC. COMPANY

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FROM CONFIDENTIAL

Buried Hills Production Company
Kansas
Hodgeman County
Sec. 7-T21S-R22W
Antrim-Cossman #1 HZ - MWD Surveys

SURVEY REPORT

7 October, 1997

Data Source: Actual MWD Surveys

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KANSAS CORPORATION COMMISSION

OCT 13 1997

CONSERVATION DIVISION
WICHITA, KS

Survey Ref: svy1686

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Sperry-Sun Drilling Services

Survey Report for Antrim-Cossman #1 HZ - MWD Surveys
Data Source: Actual MWD Surveys



Buried Hills Production Company
Kansas

CONFIDENTIAL

Hodgeman County
Sec. 7-T21S-R22W

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0.00	0.000	0.000	0.00	0.00 N	0.00 E	0.00	
670.82	1.100	348.902	670.78	6.32 N	1.24 W	-6.32	0.164
1169.54	0.600	71.502	1169.46	11.85 N	0.32 E	-11.84	0.237
1668.26	0.000	0.000	1668.17	12.67 N	2.79 E	-12.67	0.120
2166.98	0.900	151.902	2166.87	9.22 N	4.64 E	-9.22	0.180
2651.20	0.600	151.502	2651.05	3.64 N	7.64 E	-3.63	0.062
3126.97	2.000	142.502	3126.68	5.14 S	13.88 E	5.15	0.296
3690.00	0.600	164.502	3689.55	15.78 S	20.65 E	15.79	0.260
3729.27	0.400	157.902	3728.82	16.10 S	20.76 E	16.11	0.529
3761.02	2.500	172.302	3760.56	16.89 S	20.89 E	16.90	6.661
3792.70	6.000	174.102	3792.15	19.22 S	21.15 E	19.23	11.055
3824.42	10.000	174.302	3823.55	23.61 S	21.60 E	23.63	12.611
3856.16	14.500	178.202	3854.56	30.33 S	21.99 E	30.34	14.407
3887.88	17.700	179.002	3885.04	39.12 S	22.20 E	39.14	10.112
3919.70	20.900	179.402	3915.06	49.64 S	22.35 E	49.65	10.065
3951.54	22.600	186.102	3944.64	61.40 S	21.76 E	61.41	9.442
3983.24	24.000	185.702	3973.75	73.88 S	20.47 E	73.89	4.444
4014.95	26.300	185.102	4002.46	87.29 S	19.20 E	87.30	7.298
4046.75	27.400	188.102	4030.83	101.55 S	17.54 E	101.56	5.487
4078.55	29.200	181.302	4058.83	116.56 S	16.34 E	116.57	11.603
4110.23	31.600	188.302	4086.17	132.50 S	14.96 E	132.51	13.495
4141.96	33.700	189.502	4112.88	149.41 S	12.31 E	149.42	6.925
4172.64	34.200	188.202	4138.33	166.34 S	9.67 E	166.35	2.873
4205.49	35.600	184.802	4165.28	185.01 S	7.55 E	185.02	7.295
4243.38	36.500	187.402	4195.91	207.18 S	5.18 E	207.18	4.685
4275.08	38.100	184.602	4221.13	226.28 S	3.18 E	226.28	7.356
4306.96	40.400	182.902	4245.81	246.40 S	1.87 E	246.40	7.964
4338.74	43.500	181.802	4269.45	267.63 S	1.00 E	267.63	10.025
4370.54	46.900	181.402	4291.85	290.18 S	0.37 E	290.18	10.729
4402.44	49.700	180.902	4313.07	313.99 S	0.11 W	313.99	8.855
4432.96	53.600	181.002	4332.00	337.92 S	0.50 W	337.92	12.781
4464.86	58.600	180.402	4349.68	364.22 S	0.82 W	364.22	15.851
4496.51	64.900	179.102	4364.75	392.26 S	0.69 W	392.26	20.104
4528.31	71.300	179.002	4376.60	421.74 S	0.20 W	421.74	20.128
4560.17	77.800	180.002	4385.09	452.44 S	0.06 E	452.44	20.624
4591.86	83.100	179.202	4390.34	483.67 S	0.28 E	483.67	16.909
4623.61	87.300	179.702	4393.00	515.30 S	0.58 E	515.30	13.321
4655.33	90.800	179.502	4393.52	547.01 S	0.80 E	547.01	11.052
4686.95	92.700	179.402	4392.56	578.62 S	1.10 E	578.62	6.017
4718.66	93.400	178.002	4390.87	610.27 S	1.82 E	610.27	4.931

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KANSAS CORPORATION COMMISSION

DrillQuest

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OCT 13 1997

CONSERVATION DIVISION
WICHITA, KS

CONFIDENTIAL

Sperry-Sun Drilling Services**Survey Report for Antrim-Cossman #1 HZ - MWD Surveys****Data Source: Actual MWD Surveys****Buried Hills Production Company
Kansas**

ORIGINAL

**Hodgeman County
Sec. 7-T21S-R22W**

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
4750.39	94.400	179.402	4388.71	641.92 S	2.54 E	641.92	5.414
4803.39	94.400	179.502	4384.65	694.76 S	3.04 E	694.76	0.188
4833.11	93.800	179.802	4382.52	724.40 S	3.22 E	724.41	2.256
4864.75	91.800	179.602	4380.98	756.00 S	3.38 E	756.01	6.353
4896.42	90.000	180.202	4380.48	787.67 S	3.44 E	787.67	5.991
4928.24	88.100	179.302	4381.01	819.48 S	3.58 E	819.48	6.607
4959.97	88.300	178.502	4382.00	851.19 S	4.18 E	851.19	2.598
4991.74	89.900	179.202	4382.50	882.95 S	4.82 E	882.95	5.497
5023.40	90.400	178.602	4382.42	914.60 S	5.43 E	914.61	2.467
5055.04	90.800	178.402	4382.09	946.23 S	6.25 E	946.23	1.413
5086.81	90.500	179.002	4381.73	977.99 S	6.97 E	977.99	2.111
5118.52	90.000	178.602	4381.59	1009.69 S	7.63 E	1009.70	2.019
5150.11	90.100	178.902	4381.56	1041.27 S	8.32 E	1041.28	1.001
5181.81	89.500	179.202	4381.67	1072.97 S	8.85 E	1072.97	2.116
5213.51	89.700	179.202	4381.89	1104.67 S	9.29 E	1104.67	0.631
5245.29	90.500	179.102	4381.84	1136.44 S	9.76 E	1136.45	2.537
5277.16	89.500	179.602	4381.84	1168.31 S	10.12 E	1168.31	3.508
5308.82	87.800	178.202	4382.58	1199.95 S	10.72 E	1199.96	6.955
5340.54	87.200	178.002	4383.97	1231.63 S	11.77 E	1231.63	1.994
5372.26	87.100	179.202	4385.54	1263.30 S	12.55 E	1263.30	3.792
5404.01	88.000	179.102	4386.90	1295.01 S	13.02 E	1295.02	2.852
5435.74	88.800	179.602	4387.79	1326.73 S	13.37 E	1326.74	2.973
5467.45	89.000	180.302	4388.40	1358.43 S	13.40 E	1358.44	2.295
5499.10	88.400	180.902	4389.11	1390.07 S	13.07 E	1390.08	2.681
5530.56	88.400	180.902	4389.99	1421.52 S	12.57 E	1421.52	0.000
5562.73	89.800	180.202	4390.50	1453.68 S	12.26 E	1453.69	4.865
5594.48	90.600	181.202	4390.39	1485.43 S	11.87 E	1485.43	4.033
5626.26	90.800	181.102	4390.00	1517.20 S	11.23 E	1517.20	0.704
5658.00	90.200	179.202	4389.72	1548.93 S	11.15 E	1548.94	6.277
5689.75	89.700	180.002	4389.75	1580.68 S	11.37 E	1580.69	2.971
5721.56	90.000	179.802	4389.83	1612.49 S	11.42 E	1612.50	1.133
5753.21	90.100	180.402	4389.80	1644.14 S	11.37 E	1644.15	1.922
5784.81	90.400	181.402	4389.87	1675.74 S	10.87 E	1675.74	3.304
5816.60	90.700	180.702	4389.36	1707.52 S	10.29 E	1707.53	2.396
5848.30	91.400	180.902	4388.78	1739.21 S	9.84 E	1739.22	2.297
5879.90	91.200	181.102	4388.06	1770.80 S	9.29 E	1770.80	0.895
5911.69	91.700	181.302	4387.26	1802.57 S	8.62 E	1802.58	1.694
5943.43	92.600	181.402	4386.07	1834.28 S	7.87 E	1834.28	2.853
5975.04	92.500	182.102	4384.66	1865.84 S	6.91 E	1865.85	2.235
6006.79	91.000	181.702	4383.69	1897.56 S	5.85 E	1897.56	4.889

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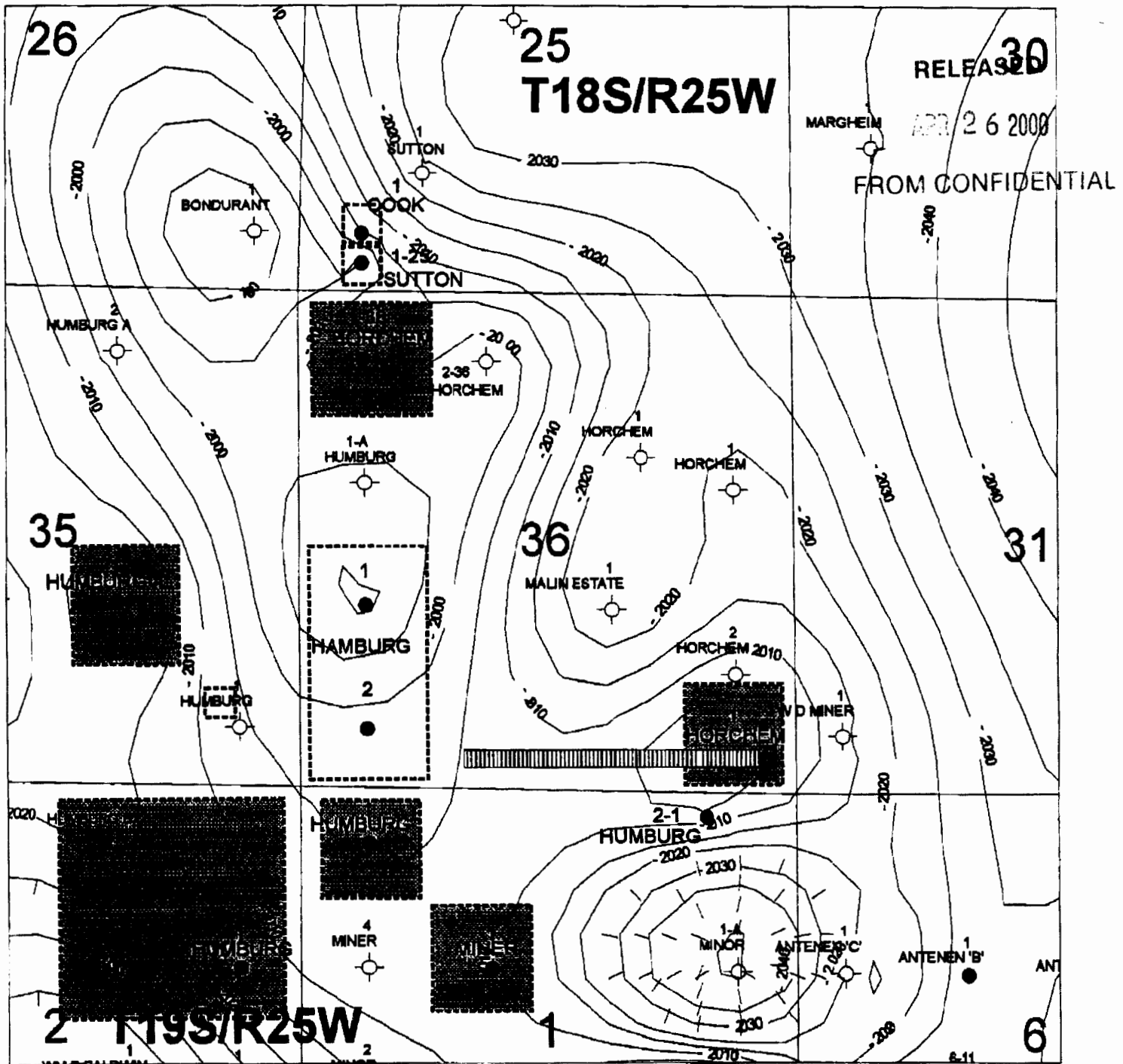
DrillQuest

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CONSERVATION DIVISION
WILLIAMS, J. D.



Horizontal well location S/2 Sec 36

**Laird
Field**



Producing
Lease



Non-Producing
Lease



Horizontal Well
Location

Contours:
Mississippian Subsea