

RECORD OF SURVEY

R. L. Bayless
L. V. Hamner No. A1
San Juan County, New Mexico

-M-21-29N-9W
30-045-079.39



BAKER HUGHES INTEQ
WEST TEXAS DISTRICT

October 9, 2000

BHL - 2051 FSL, 677' FWL
Side track from old well bore
- 2nd infill for Blanco Mesquite



INTEQ

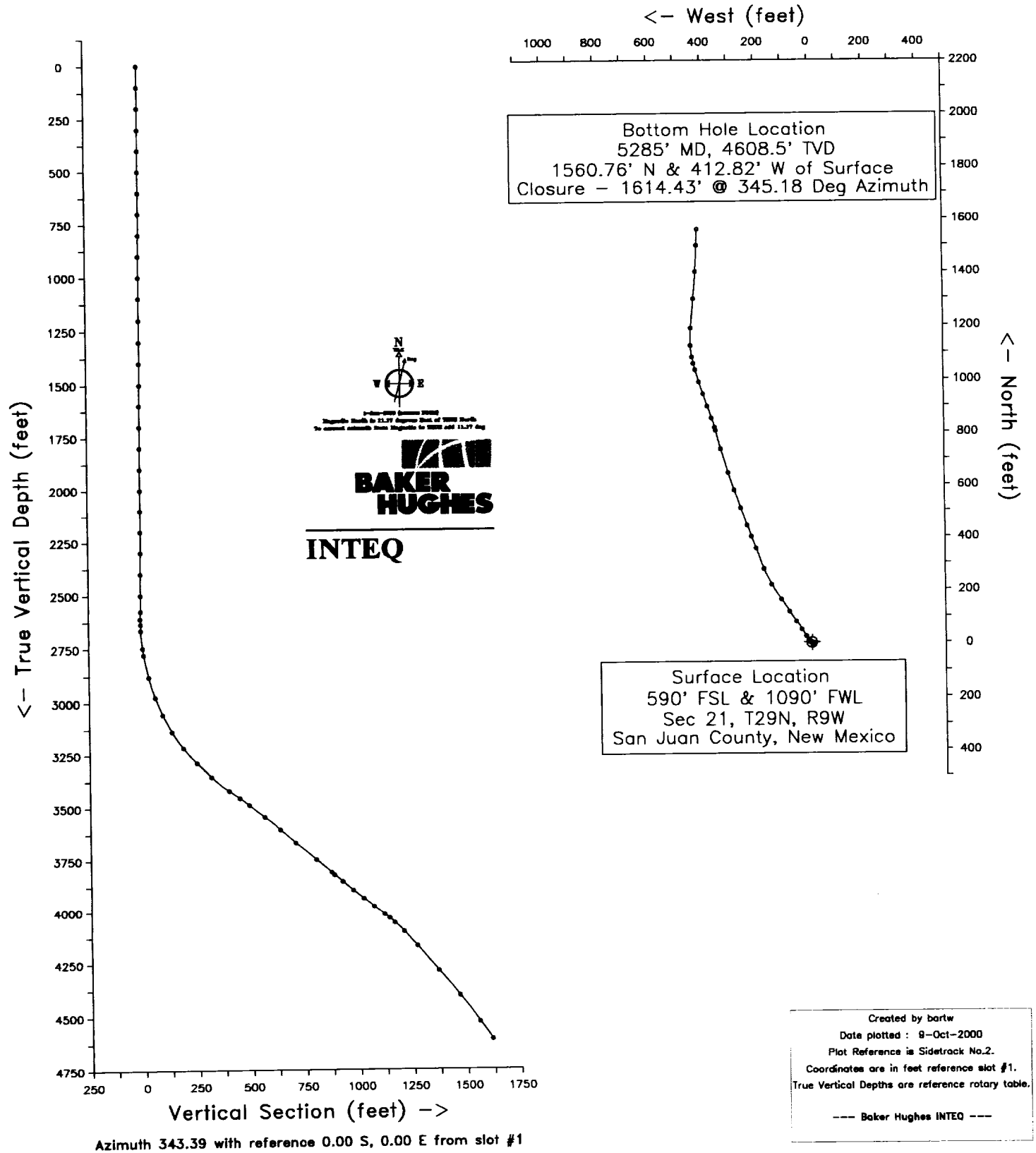
Bayless Oil

Structure : L.V. Hamner A1

Slot : slot #1

Field :

Location : SAN JUAN COUNTY, NEW MEXICO



Bayless Oil
L.V. Hamner A1

slot #1

SAN JUAN COUNTY, NEW MEXICO

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

by
Baker Hughes INTEQ

Your ref : Sidetrack No.2
Our ref : svy1423
License :

Date printed : 9-Oct-2000
Date created : 14-Jul-2000
Last revised : 9-Oct-2000

Field is centred on 0.000,0.000,999.00000,N
Structure is centred on n36 50 0.000,w107 30 0

Slot location is n36 50 0.000,w107 30 0.000
Slot Grid coordinates are N 2122763.937, E 597550.598
Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico West (3003), Spheroid: Clarke - 1866
Reference North is True North

Bayless Oil
L.V. Hamner A1, slot #1
, SAN JUAN COUNTY, NEW MEXICO

SURVEY LISTING Page 1
Your ref : Sidetrack No.2
Last revised : 9-Oct-2000

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	0.00
100.00	0.57	52.77	100.00	0.40 E	0.57	0.18
200.00	0.35	72.57	200.00	1.08 E	0.27	0.35
300.00	0.26	67.27	299.99	1.58 E	0.09	0.38
400.00	0.24	71.42	399.99	1.99 E	0.03	0.41
500.00	0.15	86.66	499.99	2.32 E	0.10	0.39
600.00	0.10	148.78	599.99	2.50 E	0.14	0.28
700.00	0.31	179.05	699.99	2.55 E	0.23	-0.07
800.00	0.32	173.56	799.99	2.58 E	0.03	-0.60
900.00	0.44	157.77	899.99	2.76 E	0.16	-1.26
1000.00	0.26	116.87	999.99	3.11 E	0.30	-1.80
1100.00	0.08	37.28	1099.99	3.35 E	0.26	-1.91
1200.00	0.06	62.86	1199.99	3.44 E	0.04	-1.86
1300.00	0.26	134.05	1299.98	3.65 E	0.25	-2.05
1400.00	0.31	130.15	1399.98	4.02 E	0.05	-2.47
1500.00	0.20	109.16	1499.98	4.39 E	0.14	-2.80
1600.00	0.10	123.57	1599.98	4.63 E	0.11	-2.97
1700.00	0.21	150.56	1699.98	4.79 E	0.13	-3.22
1800.00	0.06	307.24	1799.98	4.84 E	0.27	-3.35
1900.00	0.46	277.38	1899.98	4.40 E	0.41	-3.15
2000.00	0.54	262.86	1999.98	3.53 E	0.15	-2.91
2100.00	0.31	164.55	2099.98	3.14 E	0.66	-3.10
2200.00	0.26	171.16	2199.97	3.25 E	0.06	-3.60
2300.00	0.49	186.38	2299.97	3.23 E	0.25	-4.21
2400.00	0.56	174.93	2399.97	3.23 E	0.13	-5.09

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1614.43 on azimuth 345.18 degrees from wellhead.
Vertical section is from S 0.00 E 0.00 on azimuth 343.39 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

Bayless Oil
L.V. Hamner A1, slot #1
, SAN JUAN COUNTY, NEW MEXICO

SURVEY LISTING Page 2
Your ref : Sidetrack No.2
Last revised : 9-Oct-2000

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	0.60	170.86	2499.96	5.35 S 3.36 E	0.06	-6.08
2575.00	0.64	170.27	2574.96	6.15 S 3.49 E	0.05	-6.89
2610.00	0.60	257.00	2609.96	6.38 S 3.34 E	2.43	-7.07
2635.00	0.90	326.00	2634.95	6.25 S 3.11 E	3.54	-6.88
2665.00	2.40	321.40	2664.94	5.56 S 2.58 E	5.02	-6.07
2747.00	9.00	323.00	2746.49	0.91 N 2.35 W	8.05	1.54
2779.00	11.00	317.00	2778.00	5.14 N 5.94 W	7.04	6.62
2885.00	15.00	326.00	2881.28	23.92 N 20.52 W	4.22	28.79
2985.00	21.00	331.00	2976.34	50.34 N 36.46 W	6.19	58.66
3075.00	26.50	323.00	3058.71	80.51 N 56.38 W	7.07	93.27
3165.00	31.50	327.00	3137.41	116.30 N 81.29 W	5.96	134.68
3260.00	39.00	325.00	3214.94	161.66 N 112.00 W	7.99	186.93
3360.00	44.00	331.00	3289.84	217.88 N 146.92 W	6.38	250.78
3455.00	47.00	338.00	3356.46	279.00 N 175.95 W	6.13	317.65
3560.00	55.50	340.00	3422.13	355.40 N 205.19 W	8.23	399.23
3619.00	54.50	341.00	3455.97	400.95 N 221.33 W	2.19	447.49
3675.00	52.00	340.00	3489.47	443.25 N 236.30 W	4.69	492.30
3766.00	52.00	341.00	3545.50	510.84 N 260.23 W	0.87	563.92
3860.00	48.00	341.00	3605.91	578.91 N 283.67 W	4.26	635.85
3955.00	49.00	343.00	3668.86	646.58 N 305.65 W	1.90	706.97
4079.00	49.50	344.00	3749.80	736.65 N 332.32 W	0.73	800.91
4173.00	49.50	345.00	3810.85	805.52 N 351.42 W	0.81	872.37
4190.00	49.50	345.57	3821.89	818.03 N 354.71 W	2.53	885.29
4239.00	48.00	341.00	3854.21	853.30 N 365.28 W	7.64	922.11
4303.00	51.00	341.00	3895.77	899.31 N 381.13 W	4.69	970.73

All data is in feet unless otherwise stated.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 1614.43 on azimuth 345.18 degrees from wellhead.

Vertical section is from S 0.00 E 0.00 on azimuth 343.39 degrees.

Calculation uses the minimum curvature method.

Presented by Baker Hughes INTEQ

Bayless Oil
L.V. Hamner A1, slot #1
, SAN JUAN COUNTY, NEW MEXICO

SURVEY LISTING Page 3
Your ref : Sidetrack No.2
Last revised : 9-Oct-2000

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
4366.00	51.00	341.00	3935.42	945.60 N	0.00	1019.65
4429.00	49.00	343.00	3975.91	991.49 N	4.00	1067.88
4491.00	51.00	345.00	4015.77	1037.14 N	4.06	1115.37
4522.00	48.00	346.00	4035.90	1059.96 N	9.98	1138.92
4554.00	46.50	350.00	4057.62	1082.93 N	10.31	1162.34
4617.00	43.50	356.00	4102.19	1127.09 N	8.24	1206.22
4711.00	43.50	6.00	4170.45	1191.62 N	7.32	1267.74
4869.00	42.00	5.00	4286.47	1298.37 N	1.04	1367.09
5026.00	40.50	4.00	4404.51	1401.56 N	1.04	1463.65
5183.00	37.50	3.00	4526.51	1500.16 N	1.95	1556.40
5285.00	35.50	2.50	4608.50	1560.76 N	1.98	1613.64

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Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1614.43 on azimuth 345.18 degrees from wellhead.
Vertical section is from S 0.00 E 0.00 on azimuth 343.39 degrees.
Calculation uses the minimum curvature method.
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SURVEY LISTING Page 4
Your ref : Sidetrack No.2
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NO Targets associated with this wellpath

L. V. HAMNER A #1
590' FSL & 1090' FWL
SECTION 21, T29N, R9W
SAN JUAN COUNTY, NEW MEXICO

* * * N A U T I C A L (V e r s i o n 4 . 0) * * *

Well: L.V. HAMNER A1

Target Azimuth: 343.36
Target TVD: 4750

Closure Direction: 345

Calculation Method - Minimum Curvature

Measured Depth (ft)	Inclination (deg.)	Azimuth (deg.)	True Vertical Depth (ft)	Vertical Section (ft)	North/South (ft)	East/West (ft)	Closure (ft)	Build Rate (deg/ft)	Walk Rate (deg/ft)	Dogleg Severity (d/100')	Tool Face (deg)
2575	0.64	170.27	2,574.95	-6.15	-6.15	3.50	7.21	-0.001	2.478	2.43	
2610	0.60	257.00	2,609.95	-7.08	-6.38	3.35	6.98	0.012	2.760	3.54	
2635	0.90	326.00	2,634.95	-8.88	-6.25	3.12	6.14	0.050	-0.153	5.02	
2665	2.40	321.40	2,664.93	-8.07	-5.56	2.59	2.51	0.080	0.020	8.05	
2747	9.00	323.00	2,746.48	1.54	0.91	-2.34	7.85	0.063	-0.188	7.04	
2779	11.00	317.00	2,778.00	6.62	5.14	-5.93	31.50	0.038	0.085	4.22	
2885	15.00	326.00	2,881.27	28.79	23.92	-20.51	62.15	0.060	0.050	6.19	
2985	21.00	331.00	2,976.34	58.67	50.34	-36.45	98.29	0.061	-0.089	7.07	
3075	26.50	323.00	3,058.70	93.28	80.51	-56.37	141.88	0.056	0.044	5.96	
3165	31.50	327.00	3,137.40	134.70	116.30	-81.28	196.66	0.079	-0.021	7.99	
3260	39.00	325.00	3,214.93	186.96	161.66	-111.98	262.78	0.050	0.060	6.38	
3360	44.00	331.00	3,289.83	250.82	217.87	-146.91	329.84	0.032	0.074	6.13	
3455	47.00	338.00	3,356.45	317.70	279.00	-175.94	410.37	0.081	0.019	8.23	
3560	55.50	340.00	3,422.12	399.27	355.40	-205.18	457.98	-0.017	0.017	2.19	
3619	54.50	341.00	3,455.96	447.54	400.95	-221.31	502.29	-0.045	-0.018	4.69	
3675	52.00	340.00	3,489.46	492.35	443.25	-236.28	573.30	0.000	0.011	0.87	
3766	52.00	341.00	3,545.49	563.97	510.84	-260.22	644.67	-0.043	0.000	4.26	
3860	48.00	341.00	3,605.90	635.90	578.91	-283.66	715.18	0.011	0.021	1.90	
3955	49.00	343.00	3,668.85	707.02	646.58	-305.64	808.13	0.004	0.008	0.73	
4079	49.50	344.00	3,749.80	800.96	736.65	-332.31	878.84	0.000	0.011	0.81	
4173	49.50	345.00	3,810.84	872.42	805.52	-351.41	891.61	0.000	0.034	2.55	
4190	49.50	345.57	3,821.88	885.34	818.03	-354.70	928.19	-0.031	-0.093	7.65	
4239	48.00	341.00	3,854.20	922.16	853.30	-365.27	976.73	0.047	0.000	4.69	
4303	51.00	341.00	3,895.76	970.78	899.31	-381.11	1,025.58	0.000	0.000	0.00	
4366	51.00	341.00	3,935.41	1,019.70	945.60	-397.05	1,073.67	-0.032	0.032	4.00	
4429	49.00	343.00	3,975.90	1,067.94	991.49	-411.98	1,102.16	0.000	0.053	3.97	
4467	49.00	345.00	4,000.84	1,096.61	1,019.05	-419.88	1,120.40	0.083	0.000	8.33	
4491	51.00	345.00	4,016.26	1,114.99	1,036.81	-424.64	1,143.76	-0.097	0.032	9.98	
4522	48.00	346.00	4,036.39	1,138.54	1,059.63	-430.54	1,166.89	-0.047	0.125	10.31	
4554	46.50	350.00	4,058.12	1,161.95	1,082.60	-435.44	1,209.96	-0.048	0.095	8.24	
4617	43.50	356.00	4,102.68	1,205.84	1,126.76	-440.92	1,269.88	0.000	0.106	7.32	
4711	43.50	6.00	4,170.95	1,267.34	1,191.29	-439.79	1,367.25	-0.009	-0.006	1.04	
4869	42.00	5.00	4,286.97	1,366.67	1,298.04	-429.50	1,463.22	-0.010	-0.006	1.04	
5026	40.50	4.00	4,405.01	1,463.21	1,401.23	-421.37	1,556.27	-0.019	-0.005	1.95	
5183	37.50	3.00	4,527.01	1,555.95	1,499.83	-415.31	1,615.28	0.000	0.000	0.00	extrapolate
5285	37.50	3.00	4,607.93	1,614.43	1,561.84	-412.06					

State of New Mexico)

) ss

County of San Juan)

I, PRICE M. BAYLESS, being first duly sworn, depose and state that the above and foregoing depth and hole deviation figures are true and correct to the best of my information and belief.

Subscribed and sworn before me this 11th day of October, 2000

My Commission Expires: 2-10-01

Robert L Bayless
Notary Public

ONGARD
C-115 Disposition Error Report
From 07/02/1997 Onwards3 Jul 97 - 08:11:11
Page 7

OGRID	YY	MM	POOL	PROP	CD	API	3	CTY	Pod	Bom	Disp	CD	Bom	Proc.	C115	Entered	CTRL	Err	
											Vol			Amt	Date	Date	Num	Code	
18099	95	4	79240	9391	G	39			2108030	0	61	20809	D	0	07-02-1997	06-05-1995	06-15-1995	001045919	V1564
18099	95	4	79240	9391	G	39			2108030	0	61	20809	D	0	07-02-1997	06-05-1995	06-15-1995	001045919	V1566
18099	95	4	79240	9391	M	39			2108050	0	60	0	D	0	07-02-1997	06-05-1995	06-15-1995	001045919	V1564
18099	95	4	79240	9392	M	0			0	0	896	0	D	0	07-02-1997	06-05-1995	06-15-1995	001045919	V1563
18100	97	2	56290	5451	O	25			1116910	0	167	7440	D	0	07-02-1997	03-24-1997	03-26-1997	001045921	V1562
18100	97	2	56290	5451	O	25			1116910	176	0	7440	M	0	07-02-1997	03-24-1997	03-26-1997	001045921	V1562
18100	97	2	56290	5451	G	25			1116930	0	606	24650	D	0	07-02-1997	03-24-1997	03-26-1997	001045921	V1562
18100	97	2	56290	19948	O	25			1169610	176	0	0	M	0	07-02-1997	05-13-1997	05-15-1997	001045922	V1564
18100	97	2	56290	19948	O	25			1169610	0	176	0	O	0	07-02-1997	05-13-1997	05-15-1997	001045922	V1564
18100	97	2	56290	19948	M	25			1169650	0	610	0	D	0	07-02-1997	05-13-1997	05-15-1997	001045922	V1564
18322	97	2	47940	14980	M	0			0	0	95	0	O	0	07-02-1997	03-25-1997	03-31-1997	001045933	V1562
18322	97	2	47940	14980	O	31			1043110	55	0	0	M	0	07-02-1997	03-25-1997	03-31-1997	001045933	V1562
18322	97	2	47940	14981	M	0			0	0	126	0	O	0	07-02-1997	03-25-1997	03-31-1997	001045933	V1562
18322	97	2	47940	14981	O	31			1043410	81	0	0	M	0	07-02-1997	03-25-1997	03-31-1997	001045933	V1562
18322	97	2	47940	14981	O	31			1043410	0	48	0	S	0	07-02-1997	03-25-1997	03-31-1997	001045933	V1562
18322	97	2	47940	15026	M	0			0	0	130	0	O	0	07-02-1997	03-25-1997	03-31-1997	001045933	V1562
18322	97	2	47940	15026	O	31			1043210	68	0	0	M	0	07-02-1997	03-25-1997	03-31-1997	001045933	V1562
18667	97	2	37240	17412	O	0			7441103	0	174	34019	D	0	07-02-1997	04-01-1997	04-04-1997	001045936	V1563
18667	97	2	37240	17412	O	0			7441103	107	0	34019	M	0	07-02-1997	04-01-1997	04-04-1997	001045936	V1563
18662	97	1	13390	18647	G	0			2808064	0	167	5097	D	0	07-02-1997	03-11-1997	03-17-1997	001045939	V1564
18662	97	1	13390	18647	G	0			2808064	0	167	5097	D	0	07-02-1997	03-11-1997	03-17-1997	001045939	V1566
20165	97	2	3820	8552	G	0			0	0	202	0	U	0	07-02-1997	03-31-1997	04-23-1997	001045962	V1562
20165	97	2	3820	8552	M	0			0	0	1996	0	O	0	07-02-1997	03-31-1997	04-23-1997	001045962	V1562
20165	97	2	3820	8552	O	25			2022510	0	467	778	D	0	07-02-1997	03-31-1997	04-23-1997	001045962	V1562
20165	97	2	3820	8552	O	25			2022510	294	0	778	M	0	07-02-1997	03-31-1997	04-23-1997	001045962	V1562
20165	97	2	3820	8552	G	25			2022530	0	1926	24650	D	0	07-02-1997	03-31-1997	04-23-1997	001045962	V1562
20165	97	2	3990	8571	M	0			0	0	27249	0	O	0	07-02-1997	03-31-1997	04-23-1997	001045962	V1562
20165	97	2	3990	8571	O	25			2022210	0	123	778	D	0	07-02-1997	03-31-1997	04-23-1997	001045962	V1562
20165	97	2	3990	8571	O	25			2022210	7	0	778	M	0	07-02-1997	03-31-1997	04-23-1997	001045962	V1562
20165	97	2	3990	8572	M	0			0	0	221588	0	O	0	07-02-1997	03-31-1997	04-23-1997	001045962	V1562
20165	97	2	3990	8572	O	25			2022210	0	4700	778	D	0	07-02-1997	03-31-1997	04-23-1997	001045962	V1562
20165	97	2	3990	8572	O	25			2022210	241	0	778	M	0	07-02-1997	03-31-1997	04-23-1997	001045962	V1562
20165	97	2	10310	2919	O	25			756810	52	0	0	M	0	07-02-1997	03-31-1997	04-23-1997	001045962	V1562
20165	97	2	10310	2920	O	25			756910	0	103	22507	D	0	07-02-1997	03-31-1997	04-23-1997	001045962	V1562
20165	97	2	10310	2920	O	25			756910	129	0	22507	M	0	07-02-1997	03-31-1997	04-23-1997	001045962	V1562
20165	97	2	10310	2920	G	25			756930	0	142	11447	D	0	07-02-1997	03-31-1997	04-23-1997	001045962	V1562