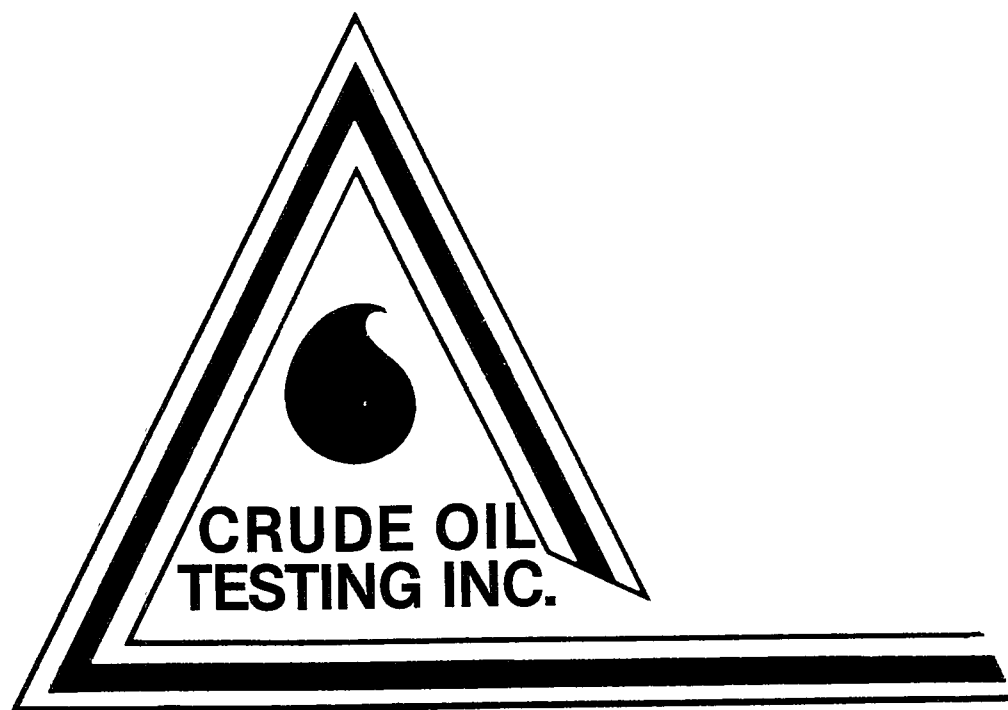




FORMATION TESTING SERVICE REPORT

CRUDE OIL TESTING, INC.

DATE 10/16/88

TEST TICKET NO. 5956

Company: National Petroleum Reserves Inc.
 Company Address: 260 N. Rock Rd #215 Wichita KS 67206
 Location: Sec. 32 Twp. 10S Range 31W Co. Thomas State KS
 Well Name & Number: #1 Miller Trust Code E6

ENGINEERING DATA	Elevation 2996 KB	Drill Pipe Length 3543	ID 3.8 "
	Mud Viscosity 45	Weight Pipe Length 514	ID 2.76"
	Mud Weight 9.3	Drill Collar Length	
	Water Loss 9.6	Top Packer Depth 4083	
	Type of Mud Chemical	Bottom Packer Depth 4088	
	Anchor Length 42	Tool Joint Size 4.5	FH
	Hole Size 7 7/8	Test Tool Size 5 1/2	
	Casing Size 8 5/8	Packer Size 6 3/4	
	Surface Choke 3/4	Reversed Out	No
	Bottom Choke 3/4	Recorder #	13248
	Extra Equipment	Jars, Safety Joint	

REMARKS DST #1
 No blow on shut-in

FORMATION Lansing Zone E-F Test Type Conventional
 Interval 4088 To 4130 Total Depth 4130
 Open 30 Shut In 60 Open 30 Shut In 60
 Packer(s) Set 08:15PM Started Off Bottom 11:15PM
 Blow 1st Opening Strong blow in 16 min.
 2nd Opening Strong blow in 21 min.

RECOVERY Total Feet 600
 Recovered 60 feet of mud (3 inches of oil on top)
 Recovered 540 feet of water

CALCULATED RECOVERY	Gas	Oil .25	Water 540	Mud 60
	Gravity (Oil)		Test Water Chlorides	42,000 PPM
	Test Area Temperature 121F		Mud System Chlorides	2,000 PPM

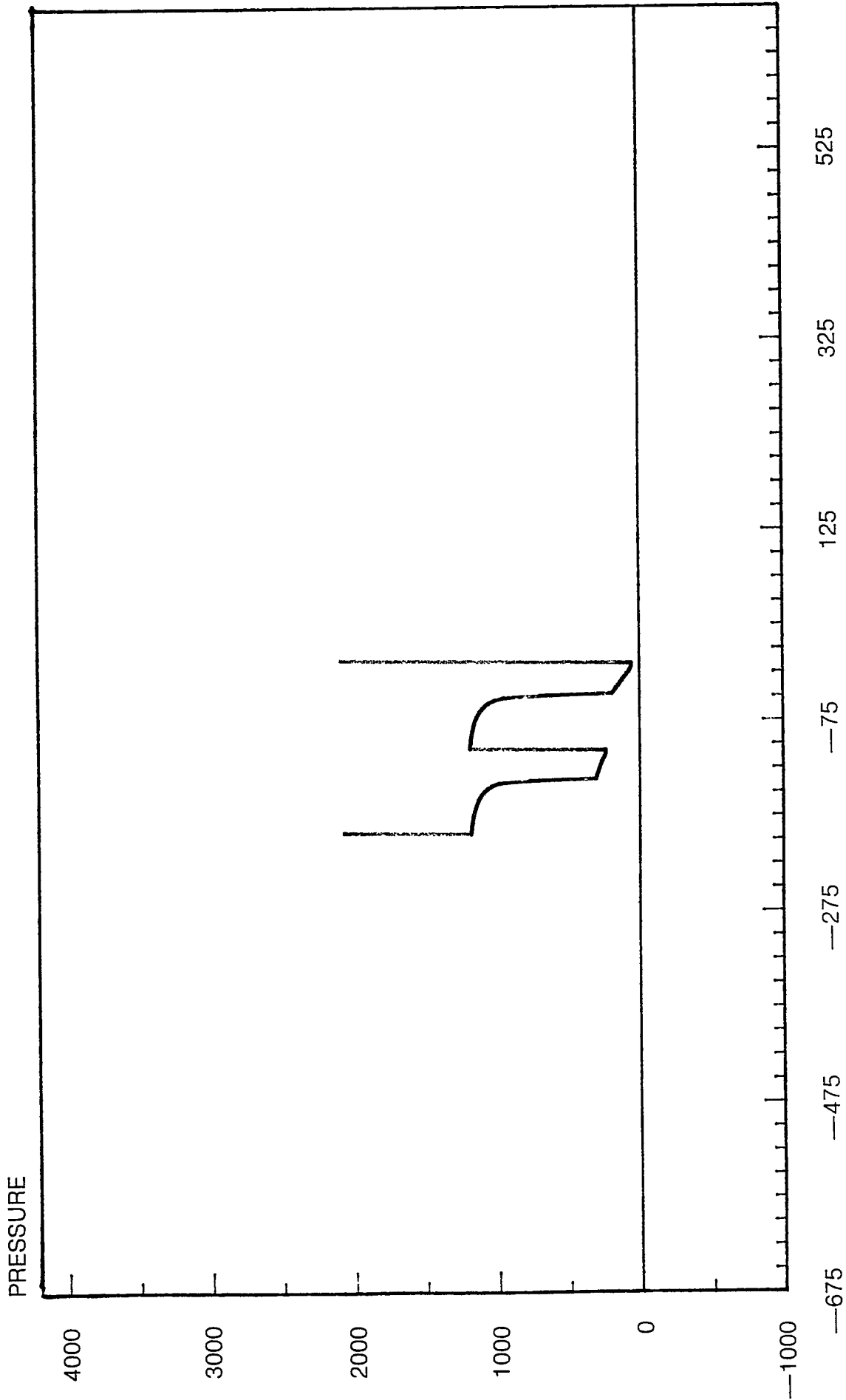
		FIELD READING	OFFICE READING	
PRESSURE	(A) Initial Hydrostatic Mud	2146	2115	PSI
	(B) First Initial Flow Pressure	74	82	PSI
	(C) First Final Flow Pressure	212	216	PSI
	(D) Initial Closed-In Pressure	1204	1213	PSI
	(E) Second Initial Flow Pressure	255	258	PSI
	(F) Second Final Flow Pressure	319	326	PSI
	(G) Final Closed-In Pressure	1194	1200	PSI
	(H) Final Hydrostatic Mud	2125	2085	PSI

CRUDE OIL TESTING INC.

FOR: NATIONAL PET. RESERVES INC. TEST 5956

DST #1

10/19/88



TIME (MINUTES)

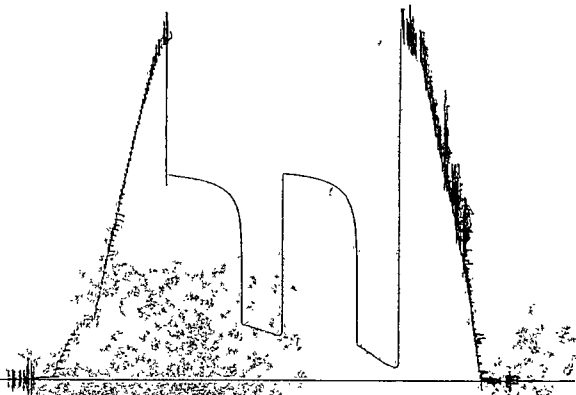
PRESSURE BREAKDOWN

TEST TICKET NO. 5956

DST Number: 1 Recorder Number: 13248 Clock Number: 25113

First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
Mins. Press.	Mins. Press.	Mins. Press.	Mins. Press.
0 81	0 216	0 258	0 325
3 83	3 721	3 259	3 788
6 89	6 984	6 265	6 1004
9 101	9 1046	9 276	9 1054
12 117	12 1087	12 284	12 1087
15 133	15 1110	15 292	15 1109
18 148	18 1128	18 299	18 1126
21 162	21 1144	21 306	21 1137
24 176	24 1155	24 313	24 1148
27 191	27 1166	27 320	27 1155
30 205	30 1174	30 325	30 1163
32 216	33 1181		33 1169
	36 1187		36 1174
	39 1191		39 1180
	42 1196		42 1184
	45 1200		45 1187
	48 1203		48 1190
	51 1206		51 1193
	54 1208		54 1195
	57 1210		57 1198
	60 1212		60 1200

Bottom 1325Z
DST #1 5956



EQUIPMENT DATA

TOOL SEQUENCE REPORT

DST Number: 1

TEST TICKET NO. 5956

WELL NAME: #1 Miller Trust

WELL LOCATION: 32-10s-31w

Tool #	Tool	Length	I.D.	O.D.
1	Drill Pipe - 4.5"	3543.00	3.826	4.50
3	Weight Pipe	514.00	2.760	4.50
8	Circulating Sub	1.00	3.000	5.00
7	Changeover Sub	2.00	3.000	5.00
9	Shut-In Tool	5.45	0.870	5.00
10	Hydraulic Tool	5.60	1.000	5.00
12	Jars	7.00	3.000	5.00
13	Safety Joint	2.31	3.000	5.00
14	Packer	5.35	1.530	6.75
14	Packer	5.35	1.530	6.75
6	Anchor	38.00	2.750	5.00
15	Recorder Carrier	1.00		5.00
16	Bull Plug	2.00		5.00
	Total Depth	4132.06		

CRUDE OIL TESTING, INC.

DATE 10/18/88

TEST TICKET NO. 5969

Company: National Petroleum Reserves Inc.
 Company Address: 260 N Rock Rd. Wichita KS 67206
 Location: Sec. 32 Twp. 10S Range 31W Co. Thomas State KS
 Well Name & Number: #1 Miller Trust Code E6

ENGINEERING	Elevation	2996 KB	Drill Pipe Length	4001	ID 3.8 "
DATA	Mud Viscosity	46	Weight Pipe Length	514	ID 2.76"
	Mud Weight	9.4	Drill Collar Length		
	Water Loss	8	Top Packer Depth	4535	
	Type of Mud Chemical		Bottom Packer Depth	4540	
	Anchor Length	100	Tool Joint Size	4.5	XH
	Hole Size	7 7/8	Test Tool Size	5 1/2	
	Casing Size	8 5/8	Packer Size	6 3/4	
	Surface Choke	3/4	Reversed Out	No	
	Bottom Choke	3/4	Recorder #	13248	
	Extra Equipment		Safety Joint		

REMARKS DST #2

FORMATION Cherokee Zone Johnson Test Type Conventional
 Interval 4540 To 4640 Total Depth 4640
 Open 30 Shut In 30 Open 20 Shut In 30
 Packer(s) Set 07:30PM Started Off Bottom 09:20PM
 Blow 1st Opening Strong blow in 6 min.
 2nd Opening Strong blow in 11 min.

RECOVERY Total Feet 814
 Recovered 114 feet of drilling mud
 Recovered 700 feet of water

CALCULATED	Gas	Oil	Water	700	Mud	114
RECOVERY	Gravity (Oil)		Test Water Chlorides	37,000	PPM	
	Test Area Temperature	136F	Mud System Chlorides	3,000	PPM	

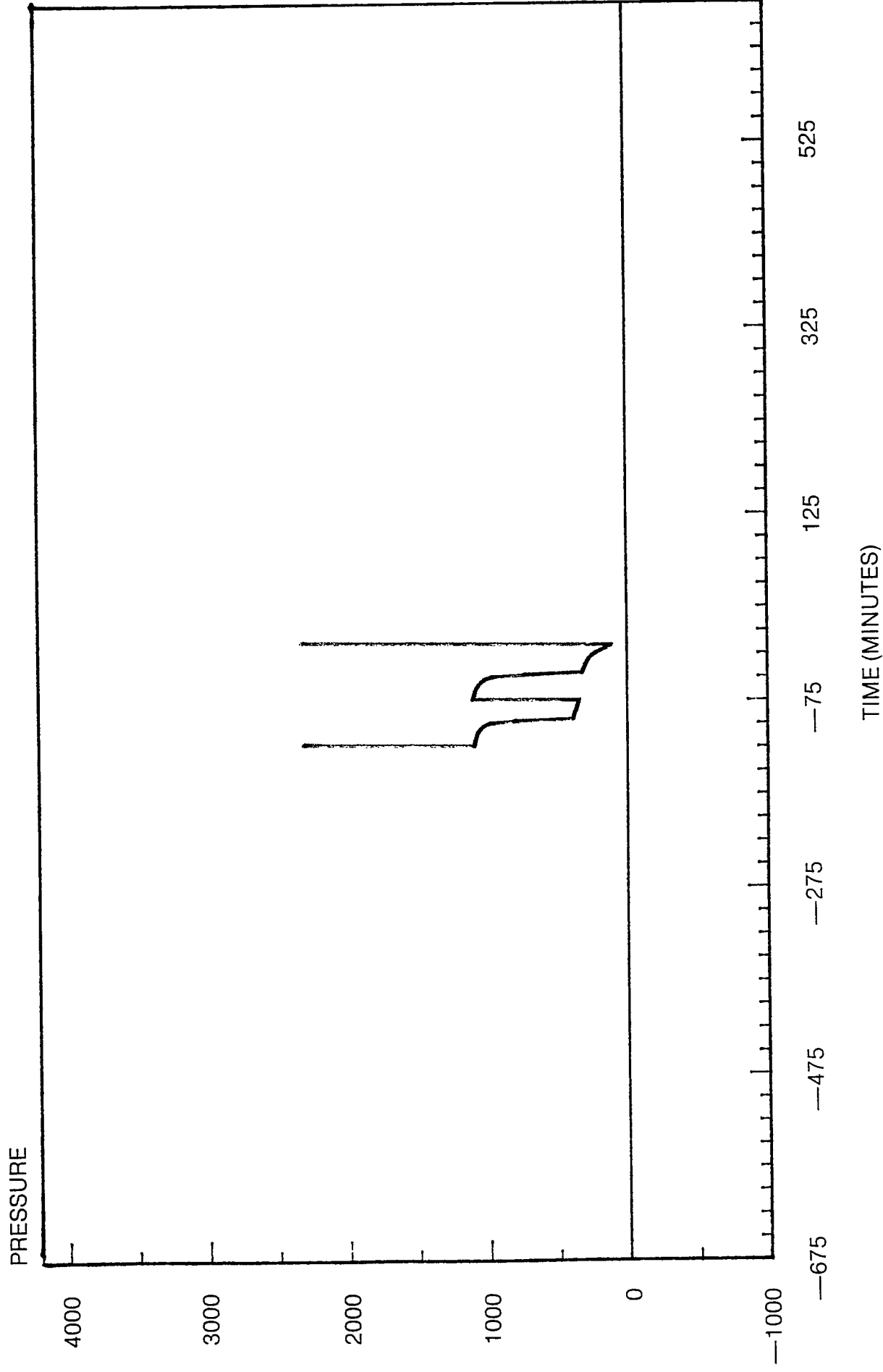
		FIELD READING	OFFICE READING	
PRESSURE	(A) Initial Hydrostatic Mud	2283	2337	PSI
	(B) First Initial Flow Pressure	127	135	PSI
	(C) First Final Flow Pressure	329	338	PSI
	(D) Initial Closed-In Pressure	1109	1119	PSI
	(E) Second Initial Flow Pressure	351	361	PSI
	(F) Second Final Flow Pressure	393	401	PSI
	(G) Final Closed-In Pressure	1099	1105	PSI
	(H) Final Hydrostatic Mud	2253	2321	PSI

CRUDE OIL TESTING INC.

FOR: NATIONAL PET. RESERVES INC. TEST 5969

DST #2

10/19/88



PRESSURE BREAKDOWN

TEST TICKET NO. 5969

DST Number: 2 Recorder Number: 13248 Clock Number: 25113

First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
Mins. Press.	Mins. Press.	Mins. Press.	Mins. Press.
0 134	0 337	0 360	0 400
3 167	3 755	3 363	3 821
6 207	6 991	6 369	6 1002
9 241	9 1039	9 374	9 1042
12 269	12 1062	12 384	12 1062
15 288	15 1078	15 390	15 1076
18 301	18 1091	18 396	18 1085
21 311	21 1099	20 400	21 1090
24 318	24 1106		24 1096
27 328	27 1112		27 1100
30 337	30 1118		30 1105

EQUIPMENT DATA

TOOL SEQUENCE REPORT

DST Number: 2

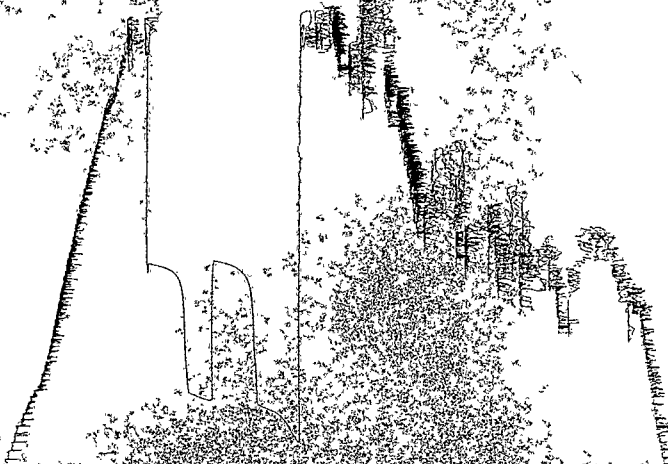
TEST TICKET NO. 5969

WELL NAME: #1 Miller Trust

WELL LOCATION: 32-10s-31w

Tool #	Tool	Length	I.D.	O.D.
1	Drill Pipe - 4.5"	4001.00	3.826	4.50
3	Weight Pipe	514.00	2.760	4.50
8	Circulating Sub	1.00	3.000	5.00
7	Changeover Sub	2.00	3.000	5.00
9	Shut-In Tool	5.45	0.870	5.00
10	Hydraulic Tool	5.60	1.000	5.00
13	Safety Joint	2.31	3.000	5.00
14	Packer	5.35	1.530	6.75
14	Packer	5.35	1.530	6.75
6	Anchor	96.00	2.750	5.00
15	Recorder Carrier	1.00		5.00
16	Bull Plug	2.00		5.00
Total Depth		4641.06		

Top 13248
DST # 2 5969



BOTTOM 1325Z
DST#2 5969

