

CRUDE OIL TESTING, INC.

DATE 8/27/84

TEST TICKET NO. 4400

Company: A. Scott Ritchie
 Company Address: 125 N. Market Suite 950 Wichita KS 67202
 Location: Sec. 8 Twp. 17S Range 22W Co. Ness State KS
 Well Name & Number: #1 Weeks A Code E4

ENGINEERING DATA	Elevation 2364 KB	Drill Pipe Length 4260	ID 3.8 "
	Mud Viscosity 37	Weight Pipe Length	
	Mud Weight 9.7	Drill Collar Length	
	Water Loss 18	Top Packer Depth 4278	
	Type of Mud Starch	Bottom Packer Depth 4283	
	Anchor Length 13	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 # 11084	
	Extra Equipment	None	

REMARKS DST #1
 Mud pit sample 35000 ppm.

FORMATION Cherokee Zone Test Type Conventional
 Interval 4283 To 4296 Total Depth 4296
 Open 45 Shut In 45 Open 45 Shut In 45
 Packer(s) Set 03:28AM Started Off Bottom 06:30AM
 Blow 1st Opening Weak decreasing blow died in 12 min.
 2nd Opening No blow.

RECOVERY Total Feet 10
 Recovered 10 feet of See grindout sheet

CALCULATED RECOVERY Gas Oil Water Mud 10
 Gravity (Oil) Test Water Chlorides PPM
 Test Area Temperature 100F Mud System Chlorides 37,000 PPM

		FIELD READING	OFFICE READING	
PRESSURE	(A) Initial Hydrostatic Mud	2177		PSI
	(B) First Initial Flow Pressure	55		PSI
	(C) First Final Flow Pressure	55		PSI
	(D) Initial Closed-In Pressure	77		PSI
	(E) Second Initial Flow Pressure	55		PSI
	(F) Second Final Flow Pressure	55		PSI
	(G) Final Closed-In Pressure	55		PSI
	(H) Final Hydrostatic Mud	2155		PSI

EQUIPMENT DATA

TOOL SEQUENCE REPORT

DST Number: 1

TEST TICKET NO. 4400

WELL NAME: #1 Weeks A

WELL LOCATION: 8-17S-22W

Tool #	Tool	Length	I.D.	O.D.
1	Drill Pipe - 4.5"	4260.00	3.826	4.50
8	Circulating Sub	1.00	3.000	5.00
9	Shut-In Tool	5.45	0.870	5.00
10	Hydraulic Tool	5.60	1.000	5.00
14	Packer	5.35	1.530	6.75
14	Packer	5.35	1.530	6.75
6	Anchor	9.00	2.750	5.00
15	Recorder Carrier	1.00		5.00
16	Bull Plug	2.00		5.00
	Total Depth	4294.75		

CALCULATED RECOVERY ANALYSIS

DST Number: 1

TEST TICKET NO. 4400

Sample #	Total Feet	***** Gas %	***** Feet	***** Oil %	***** Feet	***** Mud %	***** Feet
1	10	0.00	0.00	0.00	0.00	100.00	10.00
TOTAL	<u>10</u>	0.00	<u>0.00</u>	0.00	<u>0.00</u>	100.00	<u>10.00</u>

Sample #	**** Water %	*** Feet	Chlorides (PPM)	Resistivity (Ohms)	Temperature (Deg)
1	0.00	0.00			
TOTAL	0.00	<u>0.00</u>			

CRUDE OIL TESTING, INC.

DATE 8/27/84

TEST TICKET NO. 4401

Company: A. Scott Ritchie
 Company Address: 125 N. Market Suite 950 Wichita KS 67202
 Location: Sec. 8 Twp. 17S Range 22W Co. Ness State KS
 Well Name & Number: #1 Weeks A Code E4

ENGINEERING DATA	Elevation 2364 KB	Drill Pipe Length 4265	ID 3.8"
	Mud Viscosity 43	Weight Pipe Length	
	Mud Weight 9.4	Drill Collar Length	
	Water Loss 18	Top Packer Depth 4283	
	Type of Mud Starch	Bottom Packer Depth 4288	
	Anchor Length 14	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 # 11084	
	Extra Equipment	None	

REMARKS DST #2
 Mud pit sample 30000 ppm.

FORMATION Cherokee S. Zone Test Type Conventional
 Interval 4288 To 4302 Total Depth 4302
 Open 30 Shut In 30 Open 30 Shut In 30
 Packer(s) Set 07:28PM Started Off Bottom 09:00PM
 Blow 1st Opening Weak decreasing blow died in 5 min.
 2nd Opening No blow.

RECOVERY Total Feet 5
 Recovered 5 feet of See grindout sheet

CALCULATED RECOVERY Gas Oil Water Mud 5
 Gravity (Oil) Test Water Chlorides PPM
 Test Area Temperature 100F Mud System Chlorides 29,000 PPM

		FIELD READING	OFFICE READING	
PRESSURE	(A) Initial Hydrostatic Mud	2241		PSI
	(B) First Initial Flow Pressure	55		PSI
	(C) First Final Flow Pressure	55		PSI
	(D) Initial Closed-In Pressure	66		PSI
	(E) Second Initial Flow Pressure	55		PSI
	(F) Second Final Flow Pressure	55		PSI
	(G) Final Closed-In Pressure	55		PSI
	(H) Final Hydrostatic Mud	2220		PSI

EQUIPMENT DATA

TOOL SEQUENCE REPORT

DST Number: 2

TEST TICKET NO. 4401

WELL NAME: #1 Weeks A

WELL LOCATION: 8-17S-22W

Tool #	Tool	Length	I.D.	O.D.
1	Drill Pipe - 4.5"	4265.00	3.826	4.50
8	Circulating Sub	1.00	3.000	5.00
9	Shut-In Tool	5.45	0.870	5.00
10	Hydraulic Tool	5.60	1.000	5.00
14	Packer	5.35	1.530	6.75
14	Packer	5.35	1.530	6.75
6	Anchor	10.00	2.750	5.00
15	Recorder Carrier	1.00		5.00
16	Bull Plug	2.00		5.00
	Total Depth	4300.75		

CALCULATED RECOVERY ANALYSIS

DST Number: 2

TEST TICKET NO. 4401

Sample #	Total Feet	***** Gas %	**** Feet	***** Oil %	**** Feet	***** Mud %	**** Feet
1	5	0.00	0.00	0.00	0.00	100.00	5.00
TOTAL	<u>5</u>	0.00	<u>0.00</u>	0.00	<u>0.00</u>	100.00	<u>5.00</u>

Sample #	**** Water %	*** Feet	Chlorides (PPM)	Resistivity (Ohms)	Temperature (Deg)
1	0.00	0.00			
TOTAL	0.00	<u>0.00</u>			

CRUDE OIL TESTING, INC.

DATE 8/28/84

TEST TICKET NO. 4402

Company: A. Scott Ritchie
 Company Address: 215 N. Market Suite 950 Wichita KS 67202
 Location: Sec. 8 Twp. 17S Range 22W Co. Ness State KS
 Well Name & Number: #1 Weeks A Code E4

ENGINEERING DATA	Elevation 2364 KB	Drill Pipe Length 4304	ID 3.8 "
	Mud Viscosity 46	Weight Pipe Length	
	Mud Weight 9.4	Drill Collar Length	
	Water Loss 12	Top Packer Depth 4322	
	Type of Mud Starch	Bottom Packer Depth 4327	
	Anchor Length 53	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 # 11084	
	Extra Equipment	None	

REMARKS DST #3
 Mud pit sample 30000 ppm.

FORMATION	Mississippi Zone	Test Type Conventional
	Interval 4327 To 4380	Total Depth 4380
	Open 30 Shut In 45	Open 30 Shut In 45
	Packer(s) Set 02:28PM	Started Off Bottom 05:00PM
	Blow 1st Opening Weak decreasing blow died in 6 min.	
	2nd Opening No blow.	

RECOVERY Total Feet 10
 Recovered 10 feet of See grindout sheet

CALCULATED RECOVERY	Gas	Oil	Water	Mud	10
	Gravity (Oil)		Test Water Chlorides		PPM
	Test Area Temperature 115F		Mud System Chlorides	28,000	PPM

		FIELD READING	OFFICE READING	
PRESSURE	(A) Initial Hydrostatic Mud	2231	2248	PSI
	(B) First Initial Flow Pressure	77	59	PSI
	(C) First Final Flow Pressure	77	68	PSI
	(D) Initial Closed-In Pressure	623	623	PSI
	(E) Second Initial Flow Pressure	77	60	PSI
	(F) Second Final Flow Pressure	77	70	PSI
	(G) Final Closed-In Pressure	252	241	PSI
	(H) Final Hydrostatic Mud	2209	2228	PSI

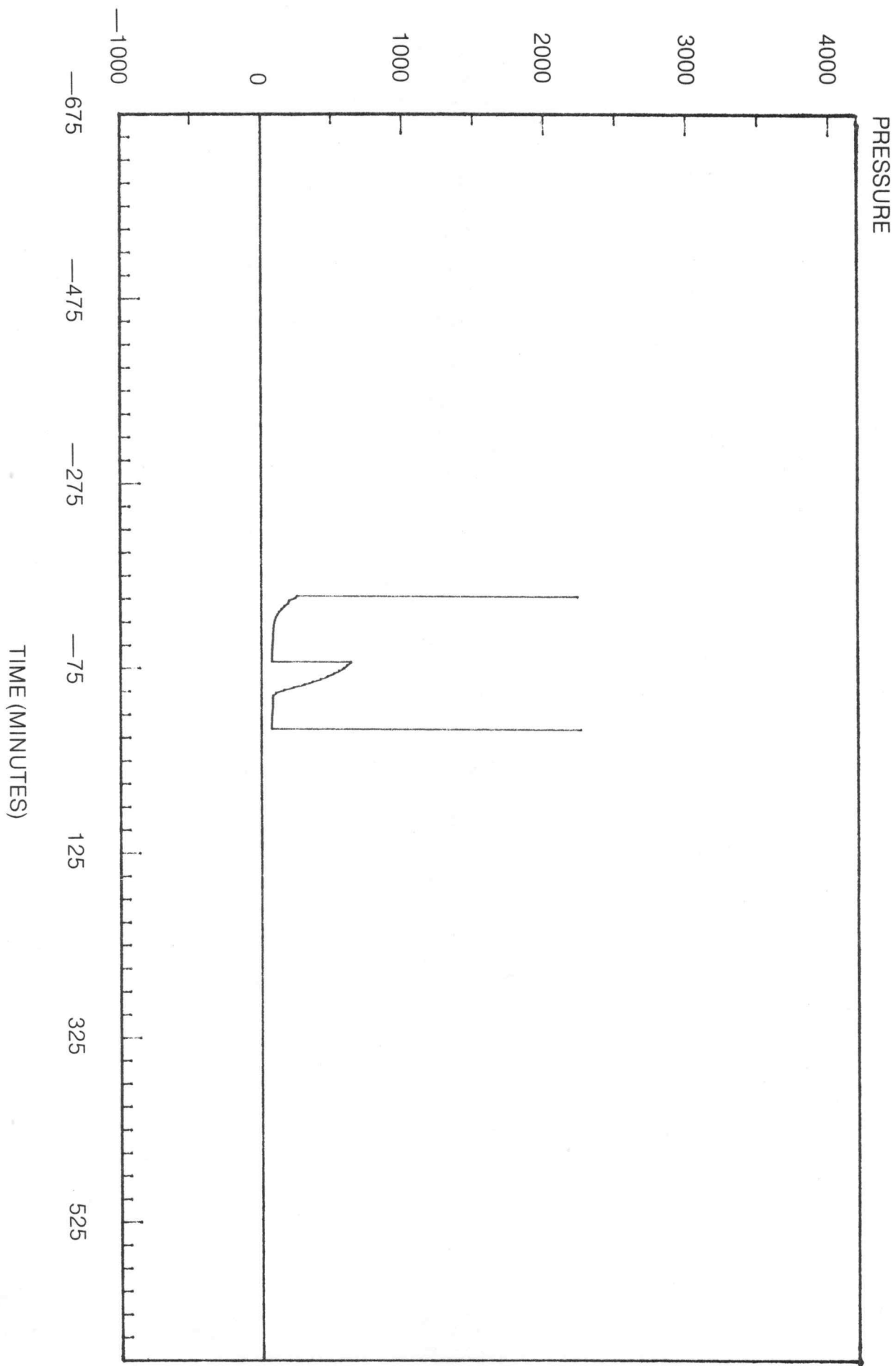
CRUDE OIL TESTING INC.

FOR: A. Scott Ritchie

TEST 4402

DST 3

08/28/84



PRESSURE BREAKDOWN

TEST TICKET NO. 4402

DST Number: 3 Recorder Number: 11084 Clock Number: 22337

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Mins.	Press.	Mins.	Press.	Mins.	Press.	Mins.	Press.
0	58	0	68	0	59	0	69
3	59	3	68	3	60	3	70
6	59	6	72	6	61	6	71
9	60	9	90	9	61	9	73
12	60	12	149	12	62	12	77
15	61	15	218	15	64	15	81
18	62	18	292	18	64	18	89
21	66	21	352	21	66	21	100
24	68	24	407	24	67	24	112
27	68	27	458	27	69	27	130
30	68	30	503	30	69	30	151
		33	541			33	176
		36	573			36	182
		39	597			39	228
		42	620			42	241
		43	622				

EQUIPMENT DATA

TOOL SEQUENCE REPORT

DST Number: 3

TEST TICKET NO. 4402

WELL NAME: #1 Weeks A

WELL LOCATION: 8-17S-22W

Tool #	Tool	Length	I.D.	O.D.
1	Drill Pipe - 4.5"	4304.00	3.826	4.50
8	Circulating Sub	1.00	3.000	5.00
9	Shut-In Tool	5.45	0.870	5.00
10	Hydraulic Tool	5.60	1.000	5.00
14	Packer	5.35	1.530	6.75
14	Packer	5.35	1.530	6.75
6	Anchor	49.00	2.750	5.00
15	Recorder Carrier	1.00		5.00
16	Bull Plug	2.00		5.00
	Total Depth	4378.75		

CALCULATED RECOVERY ANALYSIS

DST Number: 3

TEST TICKET NO. 4402

Sample #	Total Feet	***** Gas %	**** Feet	***** Oil %	**** Feet	***** Mud %	**** Feet
1	10	0.00	0.00	0.00	0.00	100.00	10.00
TOTAL	<u>10</u>	0.00	<u>0.00</u>	0.00	<u>0.00</u>	100.00	<u>10.00</u>

Sample #	**** Water %	*** Feet	Chlorides (PPM)	Resistivity (Ohms)	Temperature (Deg)
1	0.00	0.00			
TOTAL	0.00	<u>0.00</u>			

CRUDE OIL TESTING, INC.

DATE 8/29/84

TEST TICKET NO. 4600

Company: A. Scott Ritchie
 Company Address: 125 N. Market Suite 950 Wichita KS 67202
 Location: Sec. 8 Twp. 17S Range 22W Co. Ness State KS
 Well Name & Number: #1 Weeks A Code E4

ENGINEERING DATA	Elevation 2364 KB	Drill Pipe Length 4354	ID 3.8 "
	Mud Viscosity 45	Weight Pipe Length	
	Mud Weight 9.5	Drill Collar Length	
	Water Loss 12.4	Top Packer Depth 4372	
	Type of Mud Starch	Bottom Packer Depth 4377	
	Anchor Length 13	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 # 11084	
	Extra Equipment	None	

REMARKS DST #4. Misrun. Tool slid 8' to bottom, then slid 3' when tool opened. Tool kept sliding slowly throughout opening, and lost mud the whole time we were on bottom.

FORMATION	Mississippi Zone	Test Type Conventional
	Interval 4377 To 4390	Total Depth 4390
	Open 15 Shut In 45	Open 0 Shut In 0
	Packer(s) Set 05:43AM	Started Off Bottom 06:30AM
	Blow 1st Opening Strong blow of bottom when tool opened.	
	2nd Opening N/A	

RECOVERY Total Feet 285
 Recovered 285 feet of See grindout sheet

CALCULATED RECOVERY	Gas	Oil	Water 111	Mud 174
	Gravity (Oil)		Test Water Chlorides 37,000 PPM	
	Test Area Temperature 124F		Mud System Chlorides 32,000 PPM	

	FIELD READING	OFFICE READING
PRESSURE (A) Initial Hydrostatic Mud	0	PSI
(B) First Initial Flow Pressure		PSI
(C) First Final Flow Pressure		PSI
(D) Initial Closed-In Pressure		PSI
(E) Second Initial Flow Pressure		PSI
(F) Second Final Flow Pressure		PSI
(G) Final Closed-In Pressure		PSI
(H) Final Hydrostatic Mud		PSI

EQUIPMENT DATA

TOOL SEQUENCE REPORT

DST Number: 4

TEST TICKET NO. 4600

WELL NAME: #1 Weeks A

WELL LOCATION: 8-17S-22W

Tool #	Tool	Length	I.D.	O.D.
1	Drill Pipe - 4.5"	4354.00	3.826	4.50
8	Circulating Sub	1.00	3.000	5.00
9	Shut-In Tool	5.45	0.870	5.00
10	Hydraulic Tool	5.60	1.000	5.00
14	Packer	5.35	1.530	6.75
14	Packer	5.35	1.530	6.75
6	Anchor	9.00	2.750	5.00
15	Recorder Carrier	1.00		5.00
16	Bull Plug	2.00		5.00
	Total Depth	4388.75		

CALCULATED RECOVERY ANALYSIS

DST Number: 4

TEST TICKET NO. 4600

Sample #	Total Feet	***** Gas %	**** Feet	***** Oil %	**** Feet	***** Mud %	**** Feet
1	45	0.00	0.00	0.00	0.00	60.00	27.00
2	60	0.00	0.00	0.00	0.00	65.00	39.00
3	60	0.00	0.00	0.00	0.00	60.00	36.00
4	60	0.00	0.00	0.00	0.00	60.00	36.00
5	60	0.00	0.00	0.00	0.00	60.00	36.00
TOTAL	<u>285</u>	0.00	<u>0.00</u>	0.00	<u>0.00</u>	61.05	<u>174.00</u>

Sample #	**** Water %	*** Feet	Chlorides (PPM)	Resistivity (Ohms)	Temperature (Deg)
1	40.00	18.00			
2	35.00	21.00			
3	40.00	24.00			
4	40.00	24.00			
5	40.00	24.00			
TOTAL	38.95	<u>111.00</u>			

CRUDE OIL TESTING, INC.

DATE 8/29/84

TEST TICKET NO. 4601

Company: A. Scott Ritchie
 Company Address: 125 N. Market Suite 950 Wichita KS 67202
 Location: Sec. 8 Twp. 17S Range 22W Co. Ness State KS
 Well Name & Number: #1 Weeks A Code E4

ENGINEERING DATA	Elevation 2364 KB	Drill Pipe Length 4313	ID 3.8 "
	Mud Viscosity 43	Weight Pipe Length	
	Mud Weight 9.6	Drill Collar Length	
	Water Loss 14.8	Top Packer Depth 4331	
	Type of Mud Starch	Bottom Packer Depth 4336	
	Anchor Length 54	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 # 11084	
	Extra Equipment	None	

REMARKS DST #5 Misrun - packer failure.
 Mud pit sample 30000 ppm.
 Tool slid 3' to bottom, opened tool, slid 2', mud went down fast.

FORMATION	Mississippi Zone	Test Type Conventional
	Interval 4336 To 4390	Total Depth 4390
	Open 0 Shut In 0	Open 0 Shut In 0
	Packer(s) Set 05:58PM	Started Off Bottom 06:15PM
	Blow 1st Opening Off bottom of bucket when tool opened.	
	2nd Opening N/A	

RECOVERY Total Feet 310
 Recovered 310 feet of Rotary mud

CALCULATED RECOVERY	Gas	Oil	Water	Mud	310
	Gravity (Oil)		Test Water Chlorides		PPM
	Test Area Temperature		Mud System Chlorides	32,000	PPM

		FIELD READING	OFFICE READING	
PRESSURE	(A) Initial Hydrostatic Mud	0		PSI
	(B) First Initial Flow Pressure			PSI
	(C) First Final Flow Pressure			PSI
	(D) Initial Closed-In Pressure			PSI
	(E) Second Initial Flow Pressure			PSI
	(F) Second Final Flow Pressure			PSI
	(G) Final Closed-In Pressure			PSI
	(H) Final Hydrostatic Mud			PSI

EQUIPMENT DATA
TOOL SEQUENCE REPORT

DST Number: 5

TEST TICKET NO. 4601

WELL NAME: #1 Weeks A

WELL LOCATION: 8-17S-22W

Tool #	Tool	Length	I.D.	O.D.
1	Drill Pipe - 4.5"	4313.00	3.826	4.50
8	Circulating Sub	1.00	3.000	5.00
9	Shut-In Tool	5.45	0.870	5.00
10	Hydraulic Tool	5.60	1.000	5.00
14	Packer	5.35	1.530	6.75
14	Packer	5.35	1.530	6.75
6	Anchor	50.00	2.750	5.00
15	Recorder Carrier	1.00		5.00
16	Bull Plug	2.00		5.00
	Total Depth	4388.75		

CRUDE OIL TESTING, INC.

DATE 8/30/84

TEST TICKET NO. 4484

Company: A. Scott Ritchie
 Company Address: 125 N. Market Suite 950 Wichita KS 67202
 Location: Sec. 8 Twp. 17S Range 22W Co. Ness State KS
 Well Name & Number: #1 Weeks A Code E14

ENGINEERING DATA	Elevation 2364 KB	Drill Pipe Length 4327	ID 3.8 "
	Mud Viscosity 43	Weight Pipe Length	
	Mud Weight 9.6	Drill Collar Length	
	Water Loss 14.8	Top Packer Depth 4282	
	Type of Mud Starch	Bottom Packer Depth 4287	
	Anchor Length 103	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 # 10992	
	Extra Equipment	None	

REMARKS DST #6

FORMATION	Mississippi Zone	Test Type Conventional
	Interval 4287 To 4390	Total Depth 4390
	Open 30 Shut In 45	Open 30 Shut In 45
	Packer(s) Set 05:33AM	Started Off Bottom 08:05AM
	Blow 1st Opening Weak decreasing blow died in 23 min.	
	2nd Opening Weak intermittent blow on surface.	

RECOVERY Total Feet 72
 Recovered 72 feet of Oil spotted mud

CALCULATED RECOVERY	Gas	Oil	Water	Mud
	Gravity (Oil)		Test Water Chlorides	PPM
	Test Area Temperature 127F		Mud System Chlorides	31,000 PPM

		FIELD READING	OFFICE READING	
PRESSURE	(A) Initial Hydrostatic Mud	2278	2211	PSI
	(B) First Initial Flow Pressure	55	48	PSI
	(C) First Final Flow Pressure	55	56	PSI
	(D) Initial Closed-In Pressure	1169	1168	PSI
	(E) Second Initial Flow Pressure	66	64	PSI
	(F) Second Final Flow Pressure	66	70	PSI
	(G) Final Closed-In Pressure	1105	1110	PSI
	(H) Final Hydrostatic Mud	2256	2189	PSI

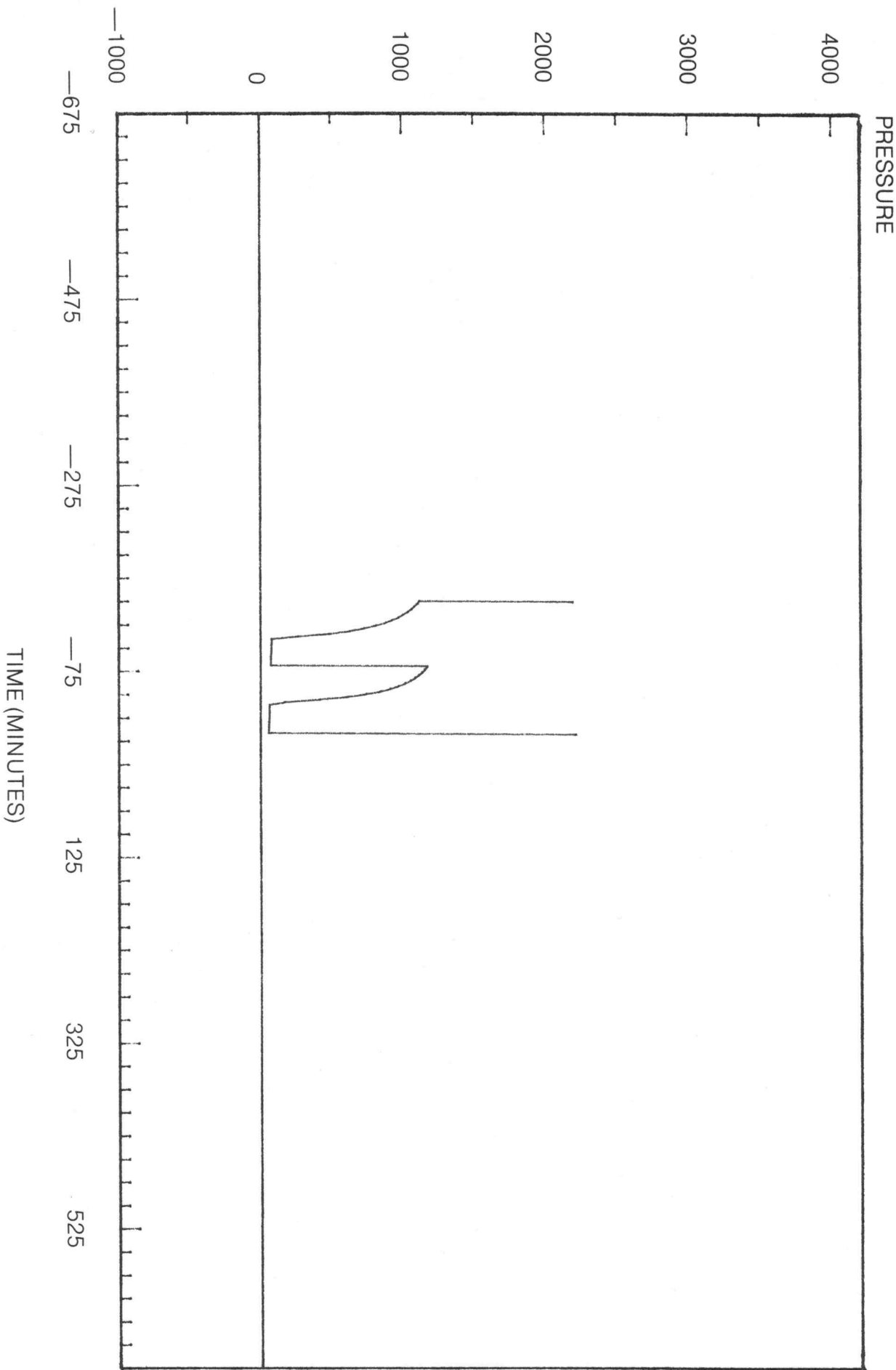
CRUDE OIL TESTING INC.

FOR: A. Scott Ritchie

TEST 4484

DST 6

08/30/84



PRESSURE BREAKDOWN

TEST TICKET NO. 4484

DST Number: 6 Recorder Number: 10992 Clock Number: 25108

First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
Mins. Press.	Mins. Press.	Mins. Press.	Mins. Press.
0 48	0 55	0 63	0 70
3 49	3 161	3 63	3 257
6 50	6 410	6 63	6 479
9 50	9 608	9 63	9 620
12 52	12 740	12 65	12 722
15 53	15 839	15 67	15 805
18 54	18 908	18 67	18 871
21 55	21 967	21 67	21 920
24 55	24 1014	24 69	24 965
27 55	27 1052	27 70	27 998
30 55	30 1084	28 70	30 1031
	33 1110		33 1056
	36 1133		36 1076
	39 1151		39 1098
	42 1168		42 1110
	43 1168		

EQUIPMENT DATA
TOOL SEQUENCE REPORT

DST Number: 6

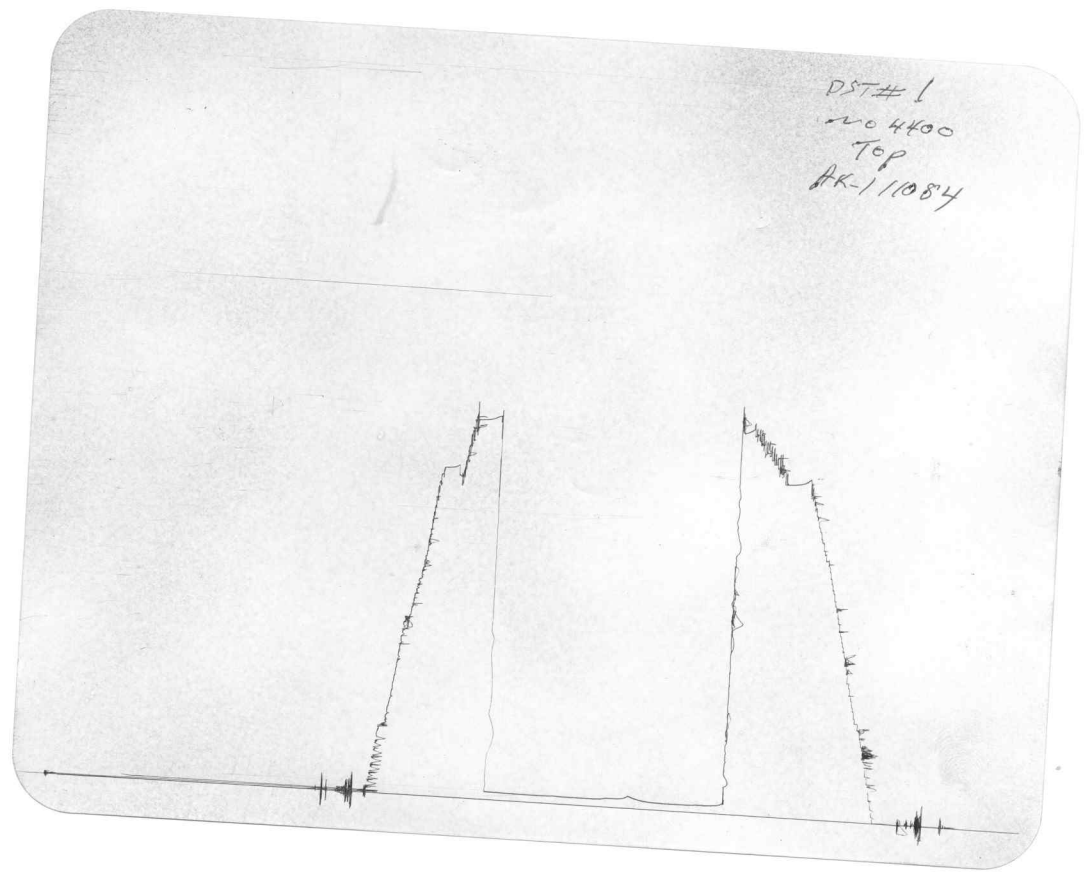
TEST TICKET NO. 4484

WELL NAME: #1 Weeks A

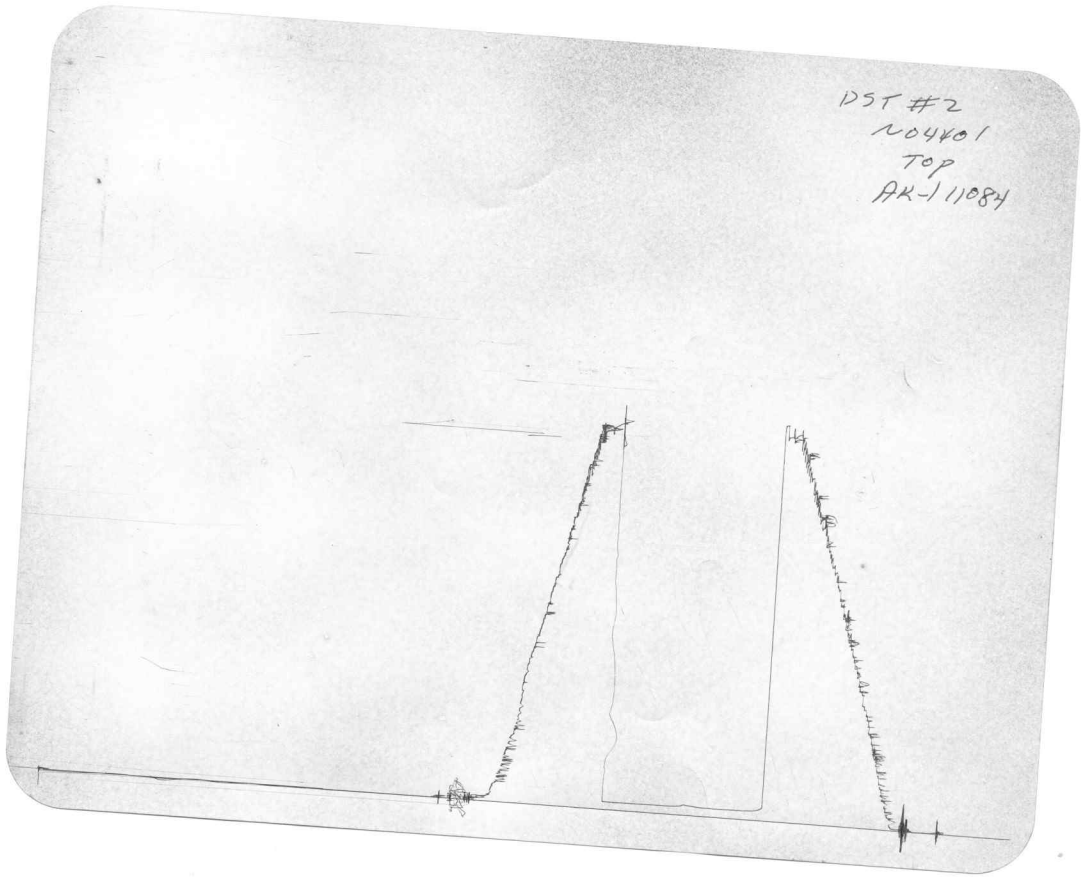
WELL LOCATION: 8-17S-22W

Tool #	Tool	Length	I.D.	O.D.
1	Drill Pipe - 4.5"	4327.00	3.826	4.50
8	Circulating Sub	1.00	3.000	5.00
9	Shut-In Tool	5.45	0.870	5.00
10	Hydraulic Tool	5.60	1.000	5.00
14	Packer	5.35	1.530	6.75
14	Packer	5.35	1.530	6.75
6	Anchor	99.00	2.750	5.00
15	Recorder Carrier	1.00		5.00
16	Bull Plug	2.00		5.00
	Total Depth	4451.75		

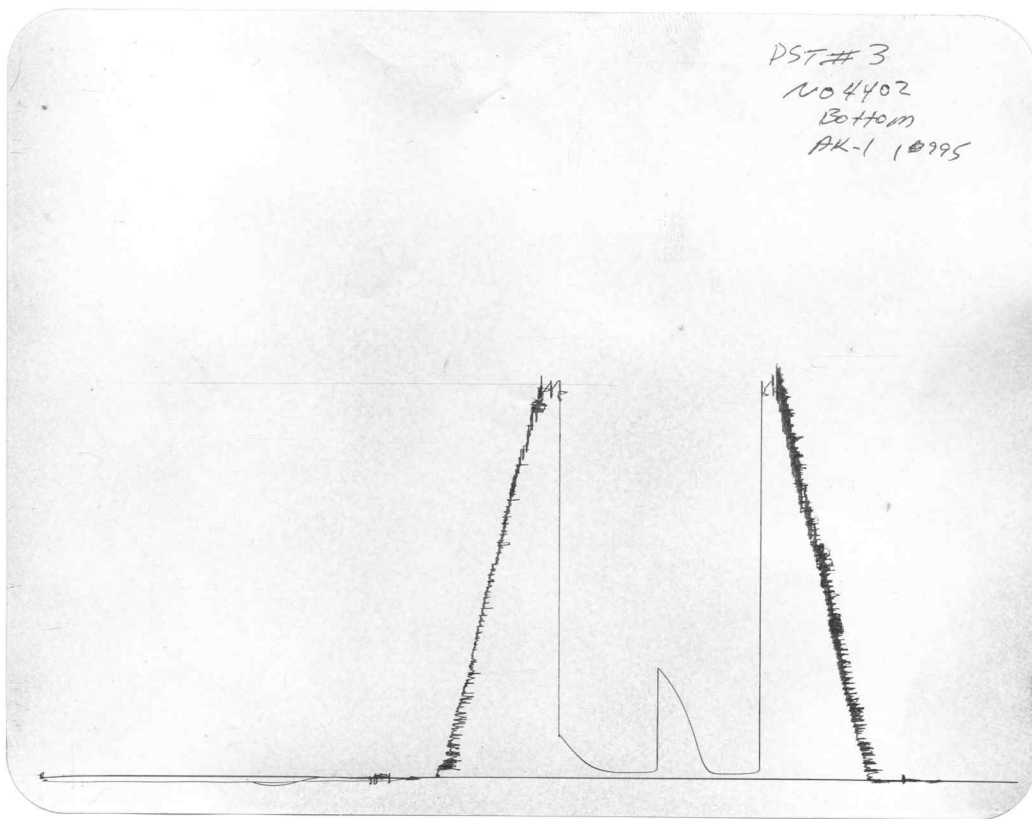
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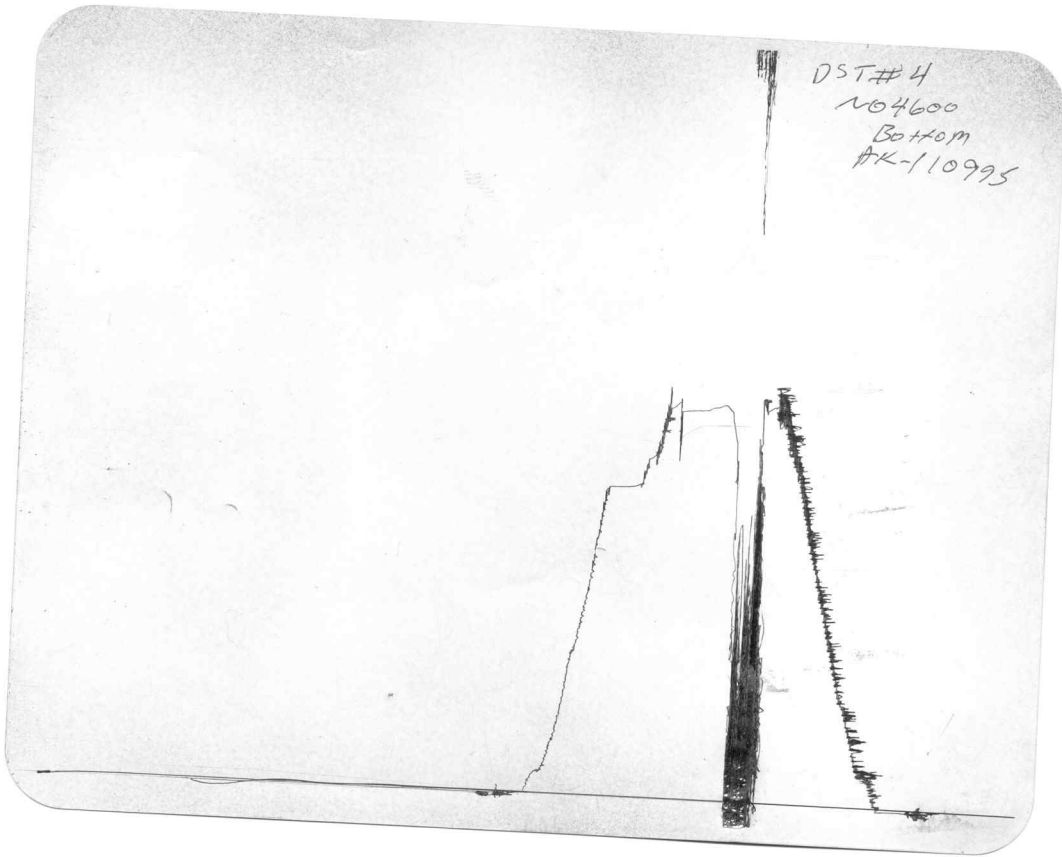
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AK-11084



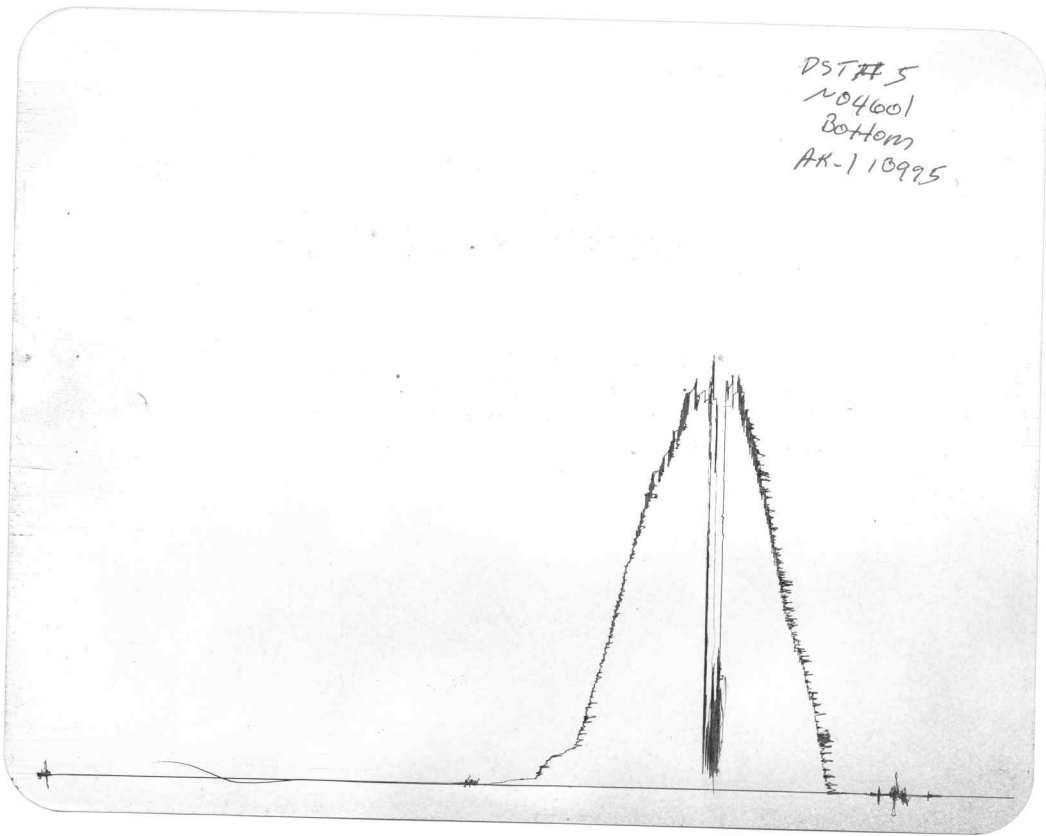
DST # 3
NO 4402
Bottom
AK-1 10995



DST#4
N04600
Bottom
AK-110995



DST# 5
NO4001
Bottom
AK-110995



4484
DST#6
AK1-10992
TOP

