

CRUDE OIL TESTING INC.

DATE 9/12/83

Test Ticket No. 3075

Company: A. Scott Ritchie
 Company Address: 125 N. Market Suite 950 Wichita KS 67202
 Location: Sec. 3 Twp. 12S Range 22W Co. Trego State KS
 Well Name & Number: #1 W.H.R. Code E9

ENGINEERING DATA	Elevation	2391 KB	Drill Pipe Length	2777	ID 3.8 "
	Mud Viscosity	38	Weight Pipe Length	564	ID 2.76"
	Mud Weight	9.6	Drill Collar Length	286	ID 2.25"
	Water Loss	10.4	Top Packer Depth	3689	
	Type of Mud	Starch	Bottom Packer Depth	3694	
	Anchor Length	46	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	Yes	
	Bottom Choke	3/4	Recorder #	13251	
	Extra Equipment		Drop bar circ.	785 ft. water	

REMARKS
 DST #1
 Pit sample 36000 ppm
 Open hole test

FORMATION	Lansing	Zone 30-50	Test Type	Conventional
	Interval	3694 To 3740	Total Depth	3740
	Open	30	Shut In	30
	Packer(s) Set	04:48PM	Started Off Bottom	06:50PM
	Blow 1st Opening	Strong blow off bottom in 5 min.		
	2nd Opening	Strong blow off bottom of bucket in 10min.		

RECOVERY
 Total Feet 1144
 Recovered 1144 feet of Water

CALCULATED RECOVERY	Gas	Oil	Water	903.25	Mud	240.75
	Gravity (Oil)		Test Water Chlorides	75,000 PPM		
	Test Area Temperature	112F	Mud System Chlorides	38,000 PPM		

		FIELD READING	OFFICE READING	
PRESSURE	(A) Initial Hydrostatic Mud	1977	1980	PSI
	(B) First Initial Flow Pressure	161	158	PSI
	(C) First Final Flow Pressure	403	419	PSI
	(D) Initial Closed-In Pressure	849	858	PSI
	(E) Second Initial Flow Pressure	461	464	PSI
	(F) Second Final Flow Pressure	541	545	PSI
	(G) Final Closed-In Pressure	849	856	PSI
	(H) Final Hydrostatic Mud	1955	1937	PSI

PRESSURE BREAKDOWN

DST Number: 1

Recorder Number: 13251

Clock Number: 23935

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Mins.	Press.	Mins.	Press.	Mins.	Press.	Mins.	Press.
0	157	0	419	0	463	0	545
3	199	3	764	3	466	3	766
6	207	6	796	6	466	6	795
9	232	9	813	9	475	9	812
12	259	12	825	12	484	12	821
15	289	15	835	15	494	15	830
18	315	18	843	18	504	18	836
21	340	21	848	21	515	21	840
24	362	24	854	24	525	24	845
27	386	27	857	27	536	27	848
30	407			30	545	30	852
32	419					33	855

CALCULATED RECOVERY ANALYSIS

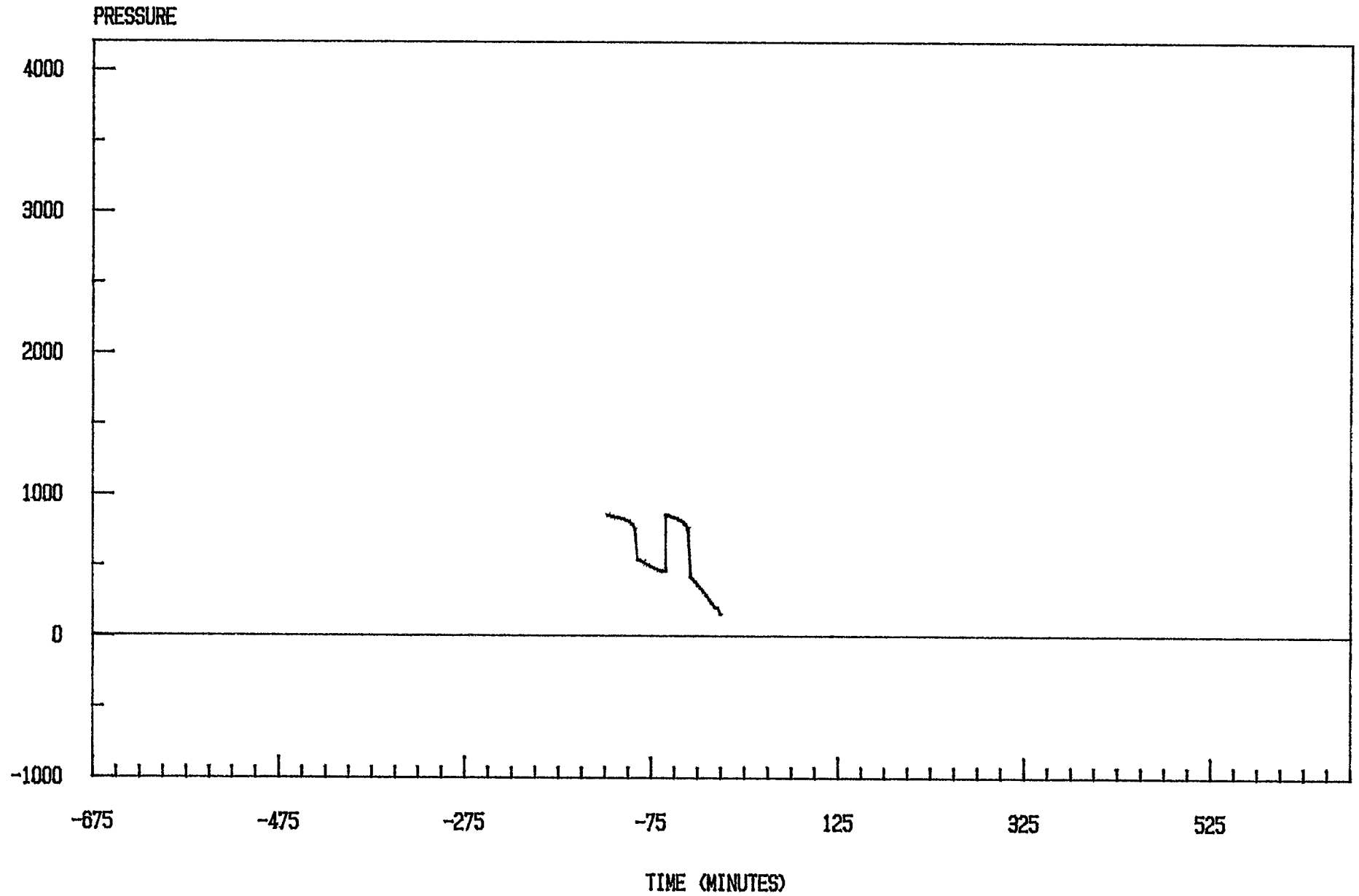
Sample #	Total Feet	***** Gas %	**** Feet	***** Oil %	**** Feet	***** Mud %	**** Feet
1	10	0.00	0.00	0.00	0.00	35.00	3.50
2	785	0.00	0.00	0.00	0.00	28.00	219.80
3	349	0.00	0.00	0.00	0.00	5.00	17.45
TOTAL	1144		0.00		0.00		240.75

Sample #	**** Water %	**** Feet	Chlorides (PPM)	Resistivity (Ohms)	Temperature (Deg)
1	65.00	6.50			
2	72.00	565.20			
3	95.00	331.55	75,000		
TOTAL		903.25			

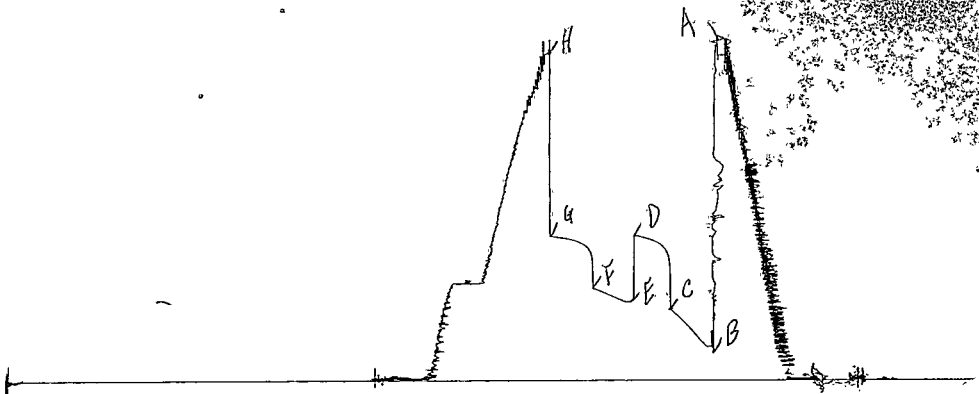
CRUDE OIL TESTING INC Test 3075 DST 1

FOR: A. SCOTT RITCHIE

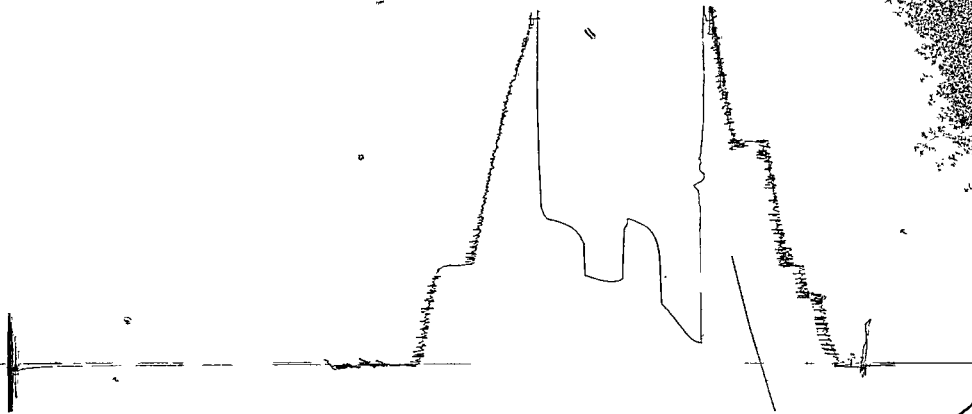
9/12/83



TOP
AKI-13251
3075
9/12/83



BOTTOM
AKI-10994
3075
9/12/83



CRUDE OIL TESTING INC.

DATE 9/13/83

Test Ticket No. 3076

Company: A. Scott Ritchie
 Company Address: 125 N. Market Suite 950 Wichita KS 67202
 Location: Sec. 3 Twp. 12S Range 22W Co. Trego State KS
 Well Name & Number: #1 W.H.R. Code E9

ENGINEERING DATA	Elevation	2391 KB	Drill Pipe Length	2833	ID 3.8 "
	Mud Viscosity	38	Weight Pipe Length	564	ID 2.76"
	Mud Weight	9.6	Drill Collar Length	286	ID 2.25"
	Water Loss	10.4	Top Packer Depth	3732	
	Type of Mud	Starch	Bottom Packer Depth	3737	
	Anchor Length	33	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 #	13251	
	Extra Equipment		None		

REMARKS
 DST # 2
 Pit sample 40000 ppm
 Open hole test

FORMATION
 Lansing Zone 70-90 Test Type Conventional
 Interval 3737 To 3770 Total Depth 3770
 Open 30 Shut In 30 Open 30 Shut In 30
 Packer(s) Set 05:52AM Started Off Bottom 07:55AM
 Blow 1st Opening Weak incr. to strong off bottom in 27min.
 2nd Opening Weak blow incr. to 10in. in bucket.

RECOVERY
 Total Feet 261
 Recovered 261 feet of Muddy water

CALCULATED RECOVERY
 Gas Oil Water 130.6 Mud 130.4
 Gravity (Oil) Test Water Chlorides 72,000 PPM
 Test Area Temperature 112F Mud System Chlorides 38,000 PPM

		FIELD READING	OFFICE READING	
PRESSURE	(A) Initial Hydrostatic Mud	1989	1978	PSI
	(B) First Initial Flow Pressure	58	60	PSI
	(C) First Final Flow Pressure	115	111	PSI
	(D) Initial Closed-In Pressure	895	900	PSI
	(E) Second Initial Flow Pressure	150	144	PSI
	(F) Second Final Flow Pressure	184	182	PSI
	(G) Final Closed-In Pressure	884	886	PSI
	(H) Final Hydrostatic Mud	1966	1914	PSI

PRESSURE BREAKDOWN

DST Number: 2 Recorder Number: 13251 Clock Number: 23935

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Mins.	Press.	Mins.	Press.	Mins.	Press.	Mins.	Press.
0	59	0	110	0	144	0	182
3	59	3	807	3	145	3	800
6	59	6	838	6	146	6	829
9	63	9	855	9	147	9	845
12	68	12	867	12	147	12	856
15	77	15	876	15	153	15	864
18	84	18	883	18	160	18	871
21	92	21	889	21	165	21	876
24	100	24	894	24	171	24	880
27	105	27	899	27	178	27	884
30	110	30	900	30	182	30	886

CALCULATED RECOVERY ANALYSIS

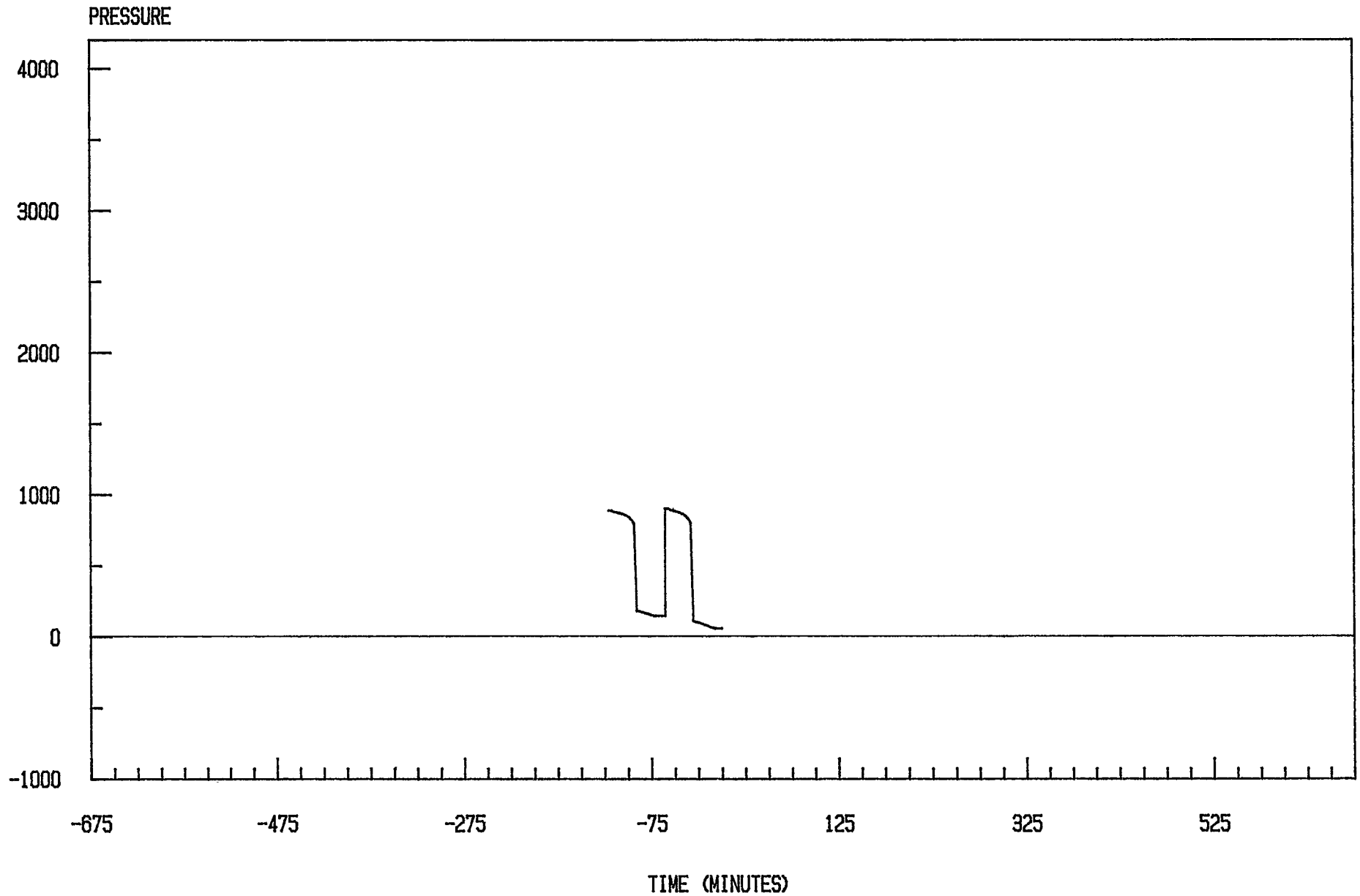
Sample #	Total Feet	***** Gas %	**** Feet	***** Oil %	**** Feet	***** Mud %	**** Feet
1	130	0.00	0.00	0.00	0.00	60.00	78.00
2	131	0.00	0.00	0.00	0.00	40.00	52.40
TOTAL	261		0.00		0.00		130.40

Sample #	**** Water %	**** Feet	Chlorides (PPM)	Resistivity (Ohms)	Temperature (Deg)
1	40.00	52.00			
2	60.00	78.60	72,000		
TOTAL		130.60			

CRUDE OIL TESTING INC Test 3076 DST 2

FOR: A. SCOTT RITCHIE

9/13/83

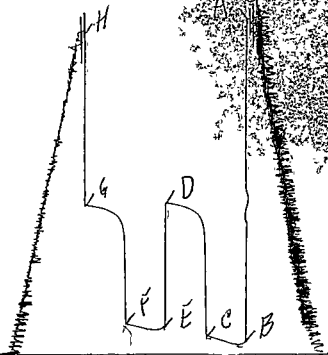


TOP

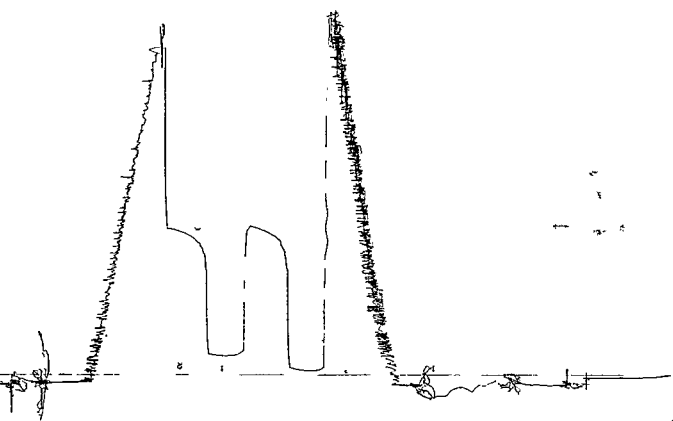
13251

DIST # 2

3076



Bottom
#10994
DST#2
#3076



CRUDE OIL TESTING INC.

DATE 9/14/83

Test Ticket No. 3077

Company: A. Scott Ritchie
 Company Address: 125 N. Market Suite 950 Wichita KS 67202
 Location: Sec. 3 Twp. 12S Range 22W Co. Trego State KS
 Well Name & Number: #1 W.H.R. Code E9

ENGINEERING DATA	Elevation	2391 KB	Drill Pipe Length	3093	ID 3.8 "
	Mud Viscosity	40	Weight Pipe Length	564	ID 2.76"
	Mud Weight	9.7	Drill Collar Length	286	ID 2.25"
	Water Loss	10.4	Top Packer Depth	3997	
	Type of Mud	Starch	Bottom Packer Depth	4002	
	Anchor Length	38	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 #	13251	
	Extra Equipment		None		

REMARKS DST #3
 Mud pit sample 37000 ppm
 Open hole test

FORMATION Marmaton Zone Test Type Conventional
 Interval 4002 To 4040 Total Depth 4040
 Open 30 Shut In 45 Open 30 Shut In 45
 Packer(s) Set 05:00PM Started Off Bottom 06:18PM
 Blow 1st Opening Weak steady blow .5in. in bucket
 2nd Opening No blow. Flushed tool weak top of water

RECOVERY Total Feet 72
 Recovered 10 feet of Oil cut mud
 Recovered 62 feet of Oil cut mud

CALCULATED RECOVERY Gas Oil 30.8 Water 14.9 Mud 26.3
 Gravity (Oil) Test Water Chlorides PPM
 Test Area Temperature 120F Mud System Chlorides 30,000 PPM

		FIELD READING	OFFICE READING	
PRESSURE	(A) Initial Hydrostatic Mud	2215	2189	PSI
	(B) First Initial Flow Pressure	46	45	PSI
	(C) First Final Flow Pressure	46	51	PSI
	(D) Initial Closed-In Pressure	553	547	PSI
	(E) Second Initial Flow Pressure	69	61	PSI
	(F) Second Final Flow Pressure	69	63	PSI
	(G) Final Closed-In Pressure	530	535	PSI
	(H) Final Hydrostatic Mud	2192	2141	PSI

PRESSURE BREAKDOWN

DST Number: 3

Recorder Number: 13251

Clock Number: 23935

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Mins.	Press.	Mins.	Press.	Mins.	Press.	Mins.	Press.
0	44	0	50	0	60	0	63
3	45	3	65	3	60	3	68
6	45	6	156	6	60	6	99
9	48	9	344	9	60	9	198
12	48	12	460	12	60	12	349
15	48	15	496	15	60	15	442
18	48	18	513	18	62	18	482
21	48	21	523	21	63	21	502
24	48	24	529	24	63	24	513
27	49	27	532	27	63	27	520
30	50	30	536	30	63	30	523
		33	539			33	525
		36	543			36	529
		39	544			39	532
		42	545			42	535
		45	546			45	535
						47	535

CALCULATED RECOVERY ANALYSIS

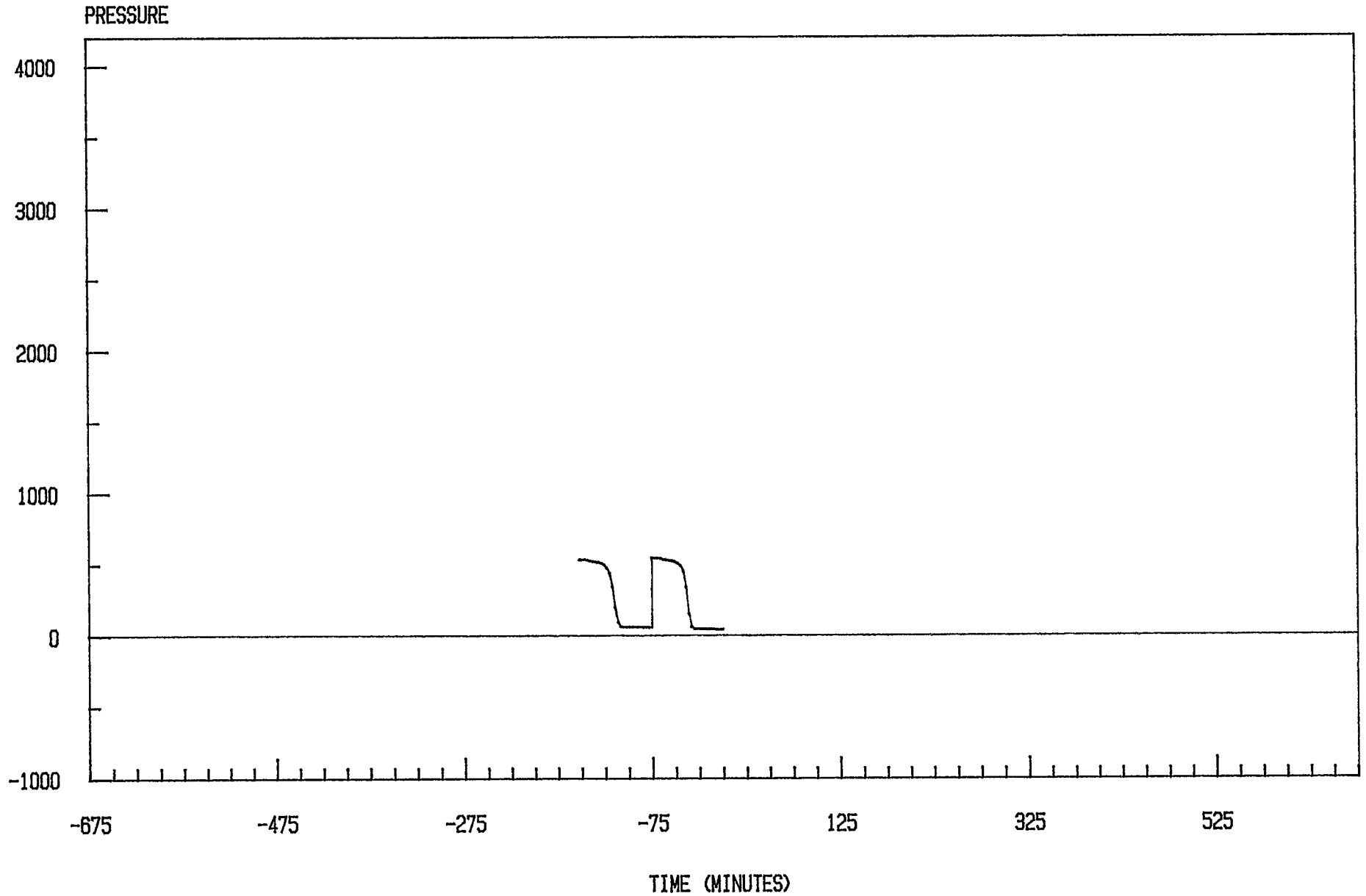
Sample #	Total Feet	**** Gas %	**** Feet	**** Oil %	**** Feet	**** Mud %	**** Feet
1	10	0.00	0.00	60.00	6.00	15.00	1.50
2	62	0.00	0.00	40.00	24.80	40.00	24.80
TOTAL	72		0.00		30.80		26.30

Sample #	**** Water %	**** Feet	Chlorides (PPM)	Resistivity (Ohms)	Temperature (Deg)
1	25.00	2.50			
2	20.00	12.40			
TOTAL		14.90			

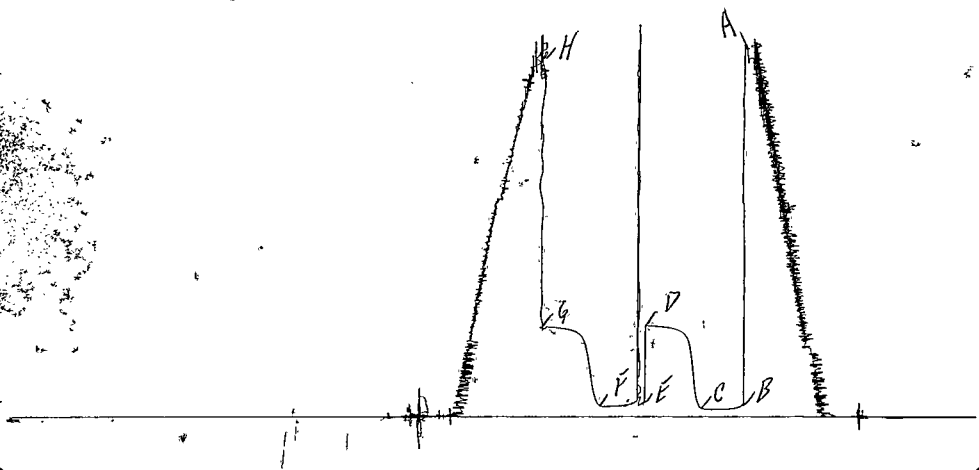
CRUDE OIL TESTING INC Test 3077 DST 3

FOR: A. SCOTT RITCHIE

9/14/83



TOP
30.77
AKI-13251
DST # 3



BOTTOM

3077

AKI-10994

DST # 3

