

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name WEBDELL #3 Test No. 1 Date 5/1/94
Company BEREXCO INC Zone LANISNG "D"
Address 970 FOURTH FINANCIAL CNTR WICHITA KS 67202 Elevation _____
Co. Rep./Geo. CHARLIE SPRADLIN Cont. BEREDCO DRLG RIG #4 Est. Ft. of Pay 6
Location: Sec. 3 Twp. 23S Rge. 34W Co. FINNEY State KS

Interval Tested 3909-3922 Drill Pipe Size 4.5" XH
Anchor Length 13 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3904 Drill Collar -- 2.25 Ft. Run 612
Bottom Packer Depth 3909 Mud Wt. 9 lb/Gal.
Total Depth 3922 Viscosity 48 Filtrate 10.4

Tool Open @ 11:15 PM Initial Blow WEAK 12" BLOW BUILDING TO 7"

Final Blow SURFACE BLOW BUILDING TO 3.5"

Recovery - Total Feet 625 Flush Tool? NO

Rec. 625 Feet of MUDDY WATER
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 118 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.17 @ 77 °F Chlorides 38000 ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud 1895.5 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 47.4 PSI @ (depth) 3912 w / Clock No. 25109

(C) First Final Flow Pressure 79.4 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 677.8 PSI @ (depth) 3919 w / Clock No. 23839

(E) Second Initial Flow Pressure 117.6 PSI AK1 Recorder No. _____ Range _____

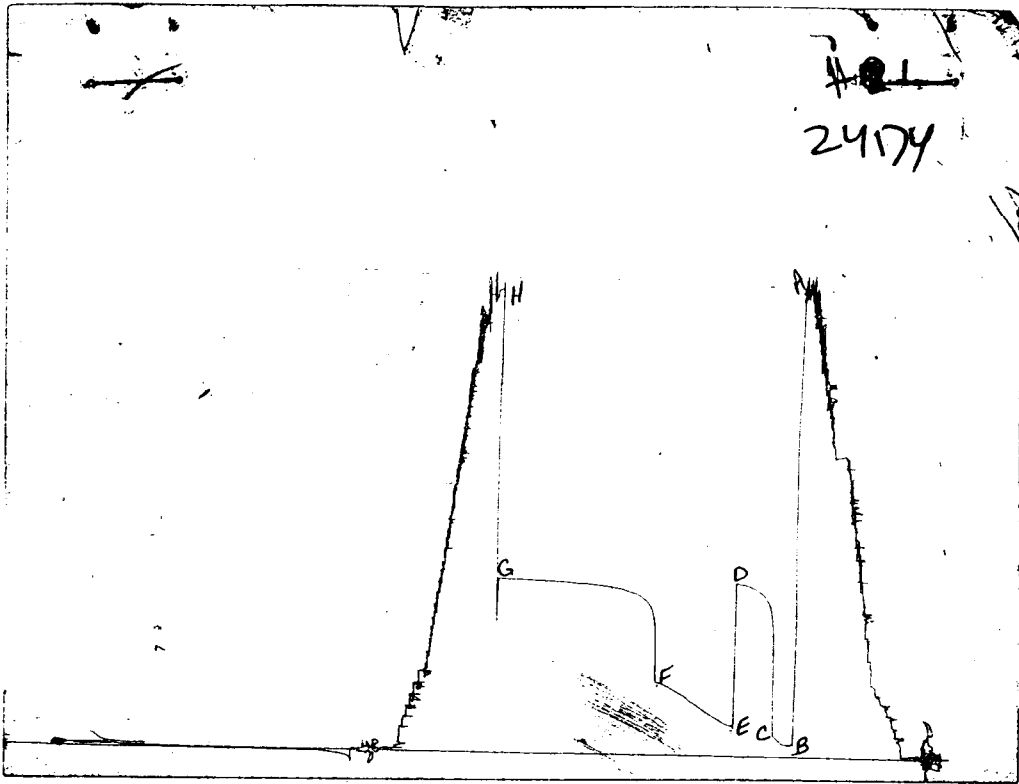
(F) Second Final Flow Pressure 280.9 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 687.1 PSI Initial Opening 15 Final Flow 60

(H) Final Hydrostatic Mud 1857.1 PSI Initial Shut-in 30 Final Shut-in 120

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart# 24174

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1888	1895.5
(B) FIRST INITIAL FLOW PRESSURE	37	47.4
(C) FIRST FINAL FLOW PRESSURE	74	79.4
(D) INITIAL CLOSED-IN PRESSURE	675	677.8
(E) SECOND INITIAL FLOW PRESSURE	112	117.6
(F) SECOND FINAL FLOW PRESSURE	270	280.9
(G) FINAL CLOSED-IN PRESSURE	675	687.1
(H) FINAL HYDROSTATIC MUD	1857	1857.1

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Drill-Stem Test Data

Well Name WEBDELL #3-3 Test No. 2 Date 5/3/94
Company BEREXCO INC Zone KS CITY "B"
Address 970 FOURTH FINANCIAL CNTR WICHITA KS 67202 Elevation 2963
Co. Rep./Geo. CHARLIE SPRADLIN Cont. BEREDCO DRLG RIG #4 Est. Ft. of Pay 7
Location: Sec. 3 Twp. 23S Rge. 34W Co. FINNEY State KS

Interval Tested <u>4196-4212</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>16</u>	Wt. Pipe I.D. - 2.7 Ft. Run <u>612</u>
Top Packer Depth <u>4191</u>	Drill Collar - 2.25 Ft. Run <u>9.1</u>
Bottom Packer Depth <u>4196</u>	Mud Wt. <u>41</u> lb/Gal.
Total Depth <u>4212</u>	Viscosity <u>9.6</u> Filtrate <u>9.6</u>

Tool Open @ 5:20 AM Initial Blow WEAK SURFACE BLOW BUILT TO 1"
ISI: NO BLOW BACK
Final Blow WEAK SURFACE RETURN SLOWLY BUILT TO 4"
FSI: NO BLOW BACK

Recovery - Total Feet 410 Flush Tool? NO

Rec. 410 Feet of SULFUR WATER
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 115 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.16 @ 80 °F Chlorides 40000 ppm Recovery Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud 2055.1 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 41.6 PSI @ (depth) 4202 w / Clock No. 19960

(C) First Final Flow Pressure 41.6 PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-in Pressure 951.9 PSI @ (depth) 4207 w / Clock No. 22992

(E) Second Initial Flow Pressure 86.3 PSI AK1 Recorder No. _____ Range _____

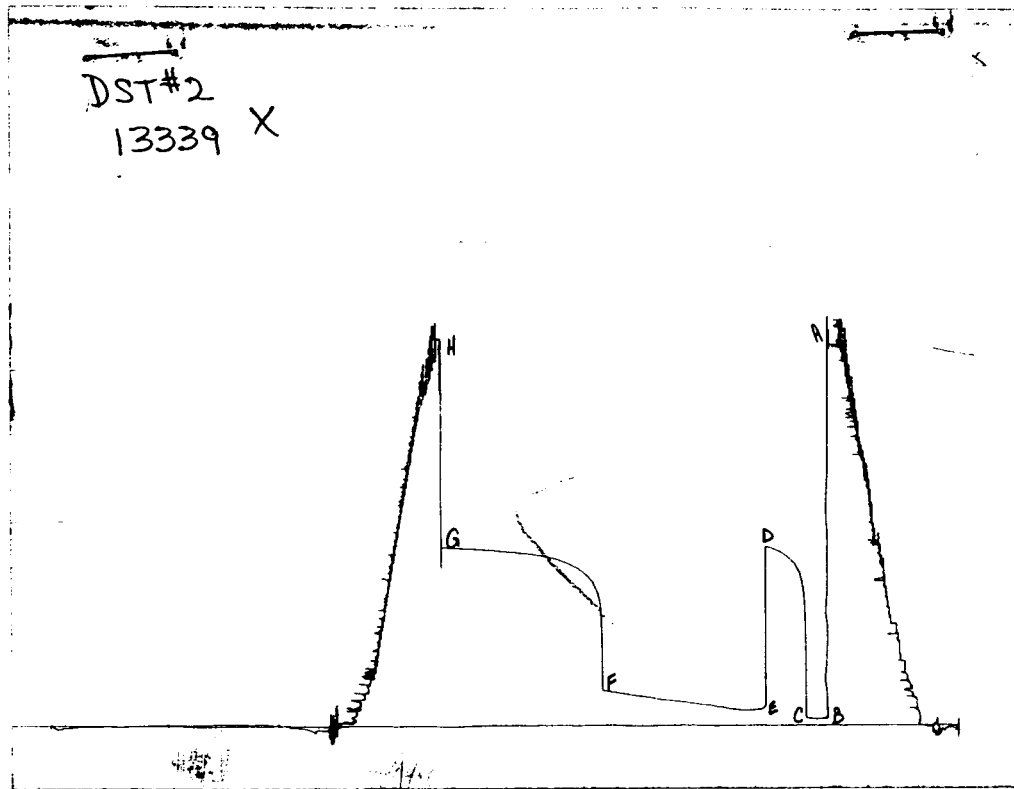
(F) Second Final Flow Pressure 187.1 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 948.8 PSI Initial Opening 15 Final Flow 120

(H) Final Hydrostatic Mud 2030.0 PSI Initial Shut-in 30 Final Shut-in 120

Our Representative ROD STEINBRINK

CHART PAGE



This is an actual photograph of recorder chart# 13339

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2073	2055.1
(B) FIRST INITIAL FLOW PRESSURE	31	41.6
(C) FIRST FINAL FLOW PRESSURE	31	41.6
(D) INITIAL CLOSED-IN PRESSURE	949	951.9
(E) SECOND INITIAL FLOW PRESSURE	62	86.3
(F) SECOND FINAL FLOW PRESSURE	187	187.1
(G) FINAL CLOSED-IN PRESSURE	949	948.8
(H) FINAL HYDROSTATIC MUD	2023	2030

TRILOBITE TESTING, L.L.C.

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Drill-Stem Test Data

Well Name WEBDELL #3-3 Test No. 3 Date 5/4/94
Company BEREXCO INC Zone MARMATON "B"
Address 970 FOURTH FINANCIAL CNTR WICHITA KS 67202 Elevation 2963
Co. Rep./Geo. CHARLIE SPRADLIN Cont. BEREDCO DRLG RIG #4 Est. Ft. of Pay 5
Location: Sec. 3 Twp. 23S Rge. 34W Co. FINNEY State KS

Interval Tested <u>4312-4335</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>22</u>	Wt. Pipe I.D. - 2.7 Ft. Run <u>612</u>
Top Packer Depth <u>4307</u>	Drill Collar - 2.25 Ft. Run <u>9.1</u>
Bottom Packer Depth <u>4312</u>	Mud Wt. <u>43</u> lb/Gal.
Total Depth <u>4335</u>	Viscosity <u>9</u> Filtrate <u>9</u>

Tool Open @ 2:40 AM Initial Blow WEAK SURFACE BLOW DIED IN 8 MINUTES

Final Blow NO RETURN BLOW

Recovery - Total Feet 10 Flush Tool? NO

Rec. <u>10</u>	Feet of <u>DRILLING MUD WITH SPECKS OIL</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 115 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1800 ppm System

(A) Initial Hydrostatic Mud 2083.1 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 28.1 PSI @ (depth) 4325 w / Clock No. 19960

(C) First Final Flow Pressure 28.1 PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-in Pressure 80.1 PSI @ (depth) 4330 w / Clock No. 22992

(E) Second Initial Flow Pressure 50.1 PSI AK1 Recorder No. _____ Range _____

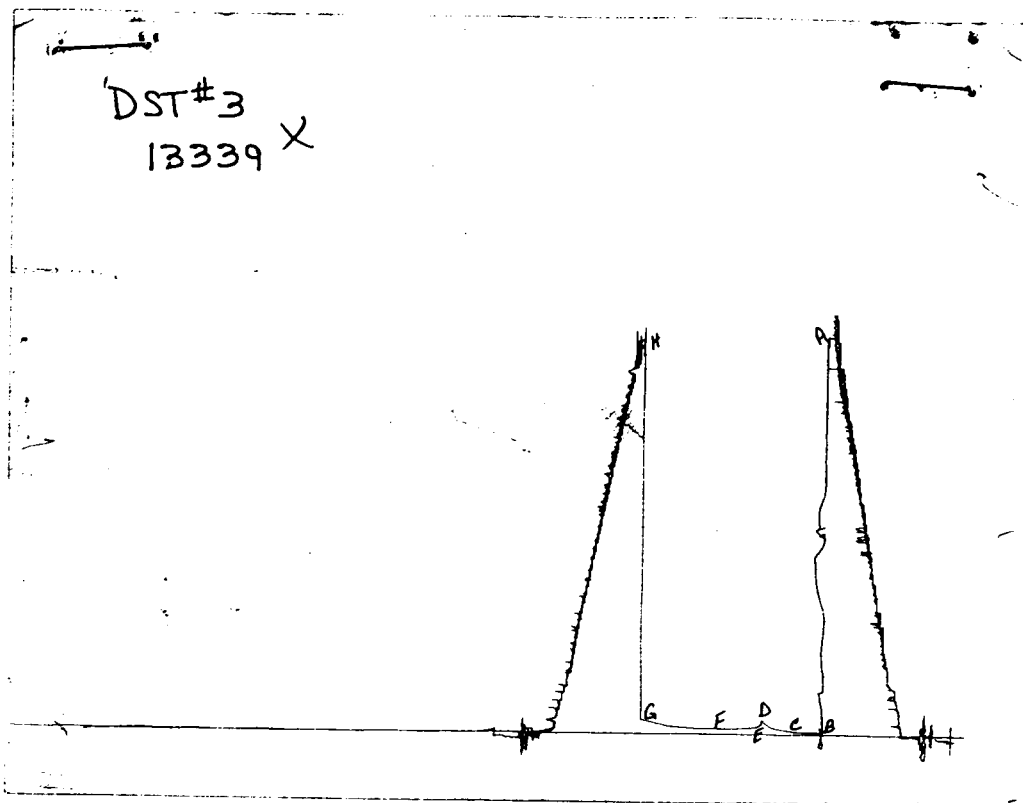
(F) Second Final Flow Pressure 50.1 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 85.2 PSI Initial Opening 15 Final Flow 30

(H) Final Hydrostatic Mud 2061.1 PSI Initial Shut-in 30 Final Shut-in 60

Our Representative ROD STEINBRINK

CHART PAGE



This is an actual photograph of recorder chart# 13339

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2073	2083.1
(B) FIRST INITIAL FLOW PRESSURE	31	28.1
(C) FIRST FINAL FLOW PRESSURE	31	28.1
(D) INITIAL CLOSED-IN PRESSURE	72	80.1
(E) SECOND INITIAL FLOW PRESSURE	52	50.1
(F) SECOND FINAL FLOW PRESSURE	52	50.1
(G) FINAL CLOSED-IN PRESSURE	83	85.2
(H) FINAL HYDROSTATIC MUD	2063	2061.1

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Drill-Stem Test Data

Well Name WEBDELL #3-3 Test No. 4 Date 5/5/94
Company BEREXCO INC Zone MORROW
Address 970 FOURTH FINANCIAL CNTR WICHITA KS 67202 Elevation 2963
Co. Rep./Geo. CHARLIE SPRADLIN Cont. BEREDCO DRLG RIG #4 Est. Ft. of Pay 7
Location: Sec. 3 Twp. 23S Rge. 34W Co. FINNEY State KS

Interval Tested	<u>4628-4680</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>52</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u>582</u>
Top Packer Depth	<u>4623</u>	Drill Collar - 2.25 Ft. Run	<u>9.1</u>
Bottom Packer Depth	<u>4628</u>	Mud Wt.	<u>63</u> lb/Gal.
Total Depth	<u>4680</u>	Viscosity	<u>8.2</u>

Tool Open @ 2:43 PM Initial Blow FAIR TO STRONG BLOW OFF BOTTOM IN 4.5 MINUTES
ISI: BLED OFF BLOW-SURFACE BLOW BUILT TO 11"
Final Blow STRONG RETURN OFF BOTTOM IN 4 MINUTES
FSI: BLED OFF BLOW-SURFACE RETURN BUILT TO BOTTOM IN 12 MINUTES

Recovery - Total Feet 710 Flush Tool? NO

Rec. <u>2400</u>	Feet of	<u>GAS IN PIPE</u>
Rec. <u>710</u>	Feet of	<u>CLEAN GASSY OIL-60% GAS/ 40% OIL</u>
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____

BHT 120 °F Gravity 29 °API @ 70 °F Corrected Gravity 28 °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1550 ppm System

(A) Initial Hydrostatic Mud 2173.3 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 104.0 PSI @ (depth) 4639 w / Clock No. 19960

(C) First Final Flow Pressure 119.5 PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-in Pressure 839.6 PSI @ (depth) 4675 w / Clock No. 22992

(E) Second Initial Flow Pressure 194.3 PSI AK1 Recorder No. _____ Range _____

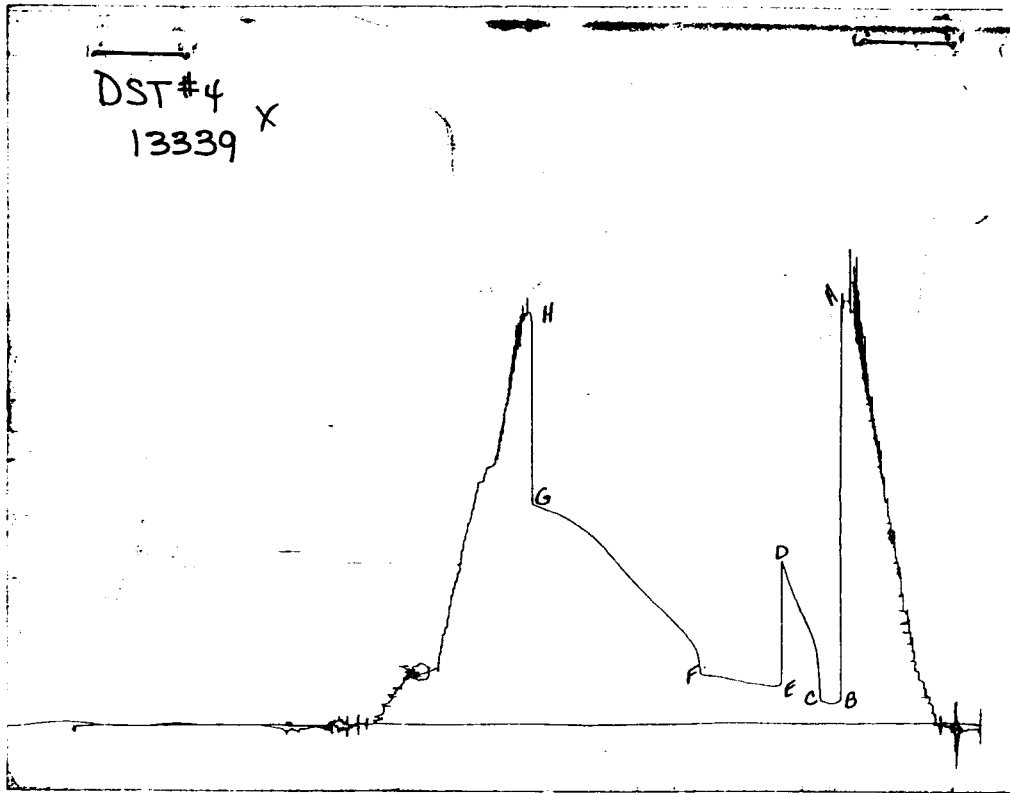
(F) Second Final Flow Pressure 263.0 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1173.6 PSI Initial Opening 15 Final Flow 60

(H) Final Hydrostatic Mud 2143.2 PSI Initial Shut-in 30 Final Shut-in 120

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CHART PAGE



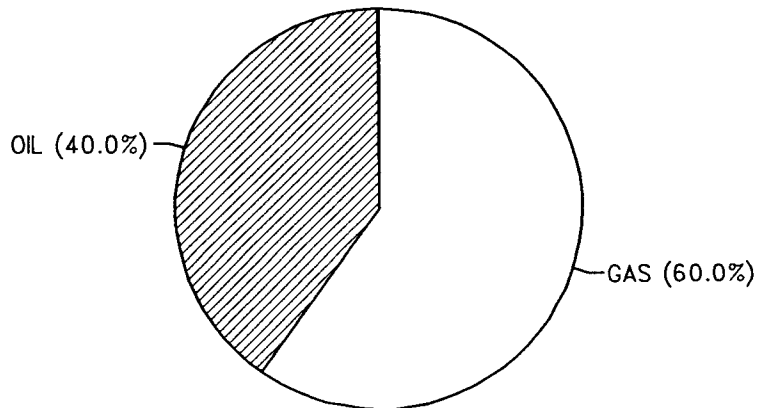
This is an actual photograph of recorder chart# 13339

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2173	2173.3
(B) FIRST INITIAL FLOW PRESSURE	93	104
(C) FIRST FINAL FLOW PRESSURE	104	119.5
(D) INITIAL CLOSED-IN PRESSURE	849	839.6
(E) SECOND INITIAL FLOW PRESSURE	187	194.3
(F) SECOND FINAL FLOW PRESSURE	239	263
(G) FINAL CLOSED-IN PRESSURE	1150	1173.6
(H) FINAL HYDROSTATIC MUD	2143	2143.2

CALCULATED RECOVERY ANALYSIS

DST	4	TICKET # 7058							
SAMPLE	TOTAL	GAS		OIL		WATER		MUD	
#	FEET	%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1	128	60	76.8	40	51.2	0	0	0	0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
WEIGHT 1			0		0		0		0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRILL 1	582	60	349.2	40	232.8	0	0	0	0
COLLAR 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	710		426		284		0		0

			HRS OPEN	BBL/DAY
BBL OIL=	1.866456	*	1.25	35.835955
BBL WATER=	0	*		0
BBL MUD=	0			
BBL GAS =	2.799684			



INITIAL FLOW

RECORDER 13339

DST # 4

TIME(MIN) PRESSURE <> PRESSURE

TIME(MIN)	PRESSURE	<>	PRESSURE
0	104.0		104.0
3	104.0		0.0
6	104.0		0.0
9	104.0		0.0
12	111.2		7.2
15	119.5		8.3

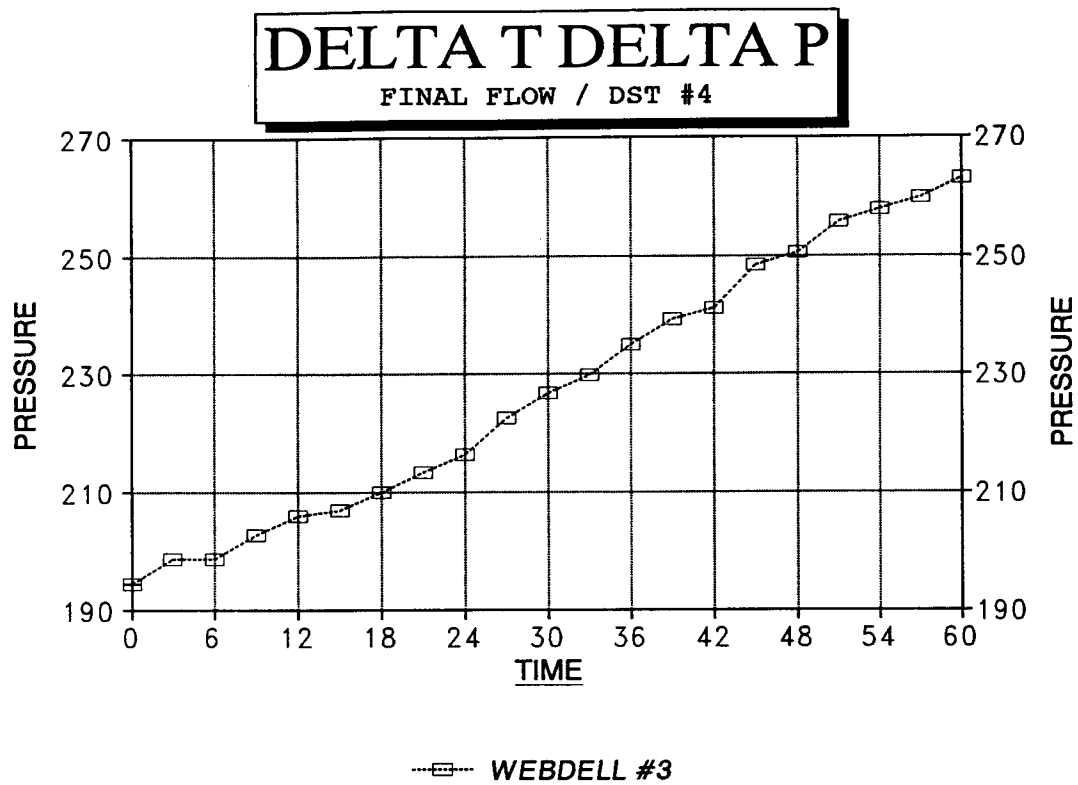
FINAL FLOW

RECORDER 13339

DST # 4

TIME(MIN) PRESSURE <> PRESSURE

TIME(MIN)	PRESSURE	<>	PRESSURE
0	194.3		194.3
3	198.5		4.2
6	198.5		0.0
9	202.6		4.1
12	205.8		3.2
15	206.8		1.0
18	209.9		3.1
21	213.1		3.2
24	216.2		3.1
27	222.4		6.2
30	226.6		4.2
33	229.7		3.1
36	234.9		5.2
39	239.1		4.2
42	241.1		2.0
45	248.4		7.3
48	250.5		2.1
51	255.7		5.2
54	257.8		2.1
57	259.8		2.0
60	263.0		3.2



INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:

21.903

WEBDELL #3
INITIAL

DST #4					
SHUTIN		-----			
15	INITIAL FLOW TIME	SLOPE	2644.2	PSI/CYCLE	
		P*	1269.88	PSI	

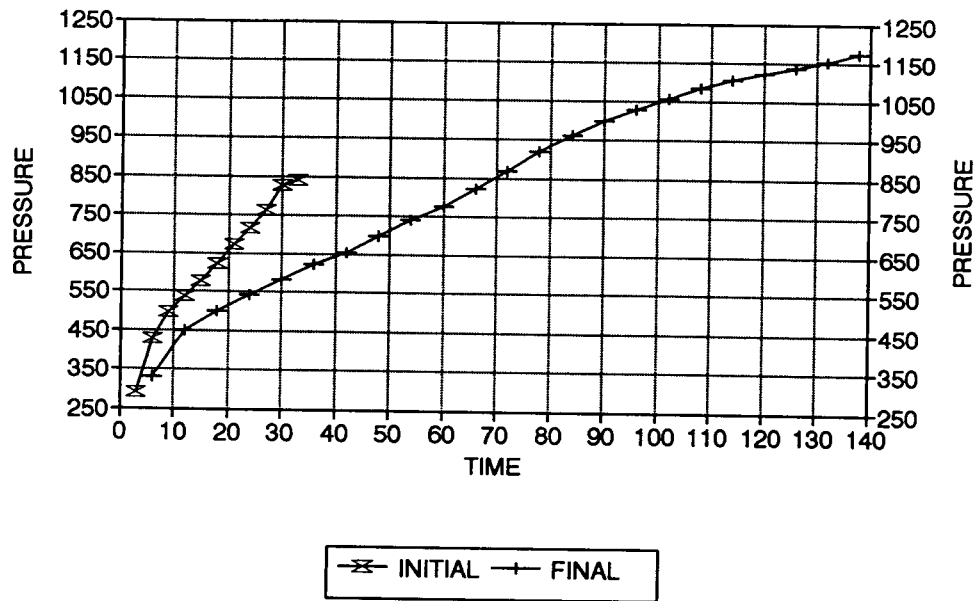
		Log	< >		
TIME(MIN)	Pws (psi)	Horn T	PRESSURE	Horn T	
-----	-----	-----	-----	-----	
3	291.1	0.778	291.1	6	
6	428.1	0.544	137.0	4	
9	497.3	0.426	69.2	3	
12	537.1	0.352	39.8	2	
15	577.2	0.301	40.1	2	
18	621.2	0.263	44.0	2	
21	671.4	0.234	50.2	2	
24	714.4	0.211	43.0	2	
X	27	762.5	0.192	48.1	2
	30	827.6	0.176	65.1	2
X	33	839.6	0.163	12.0	1

WEBDELL #3
FINAL

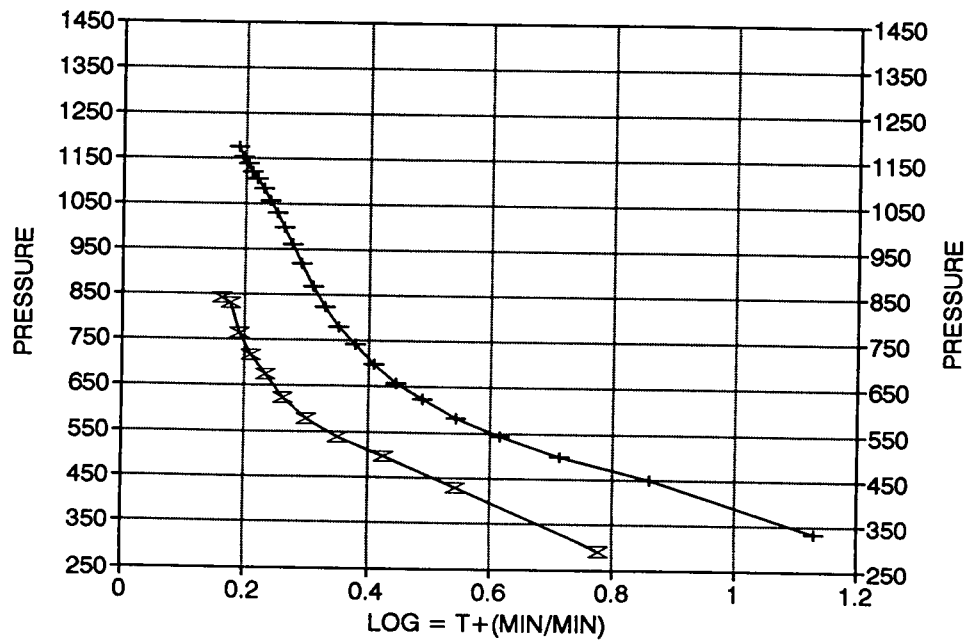
DST #4					
SHUTIN		-----			
75	TOTAL FLOW TIME	SLOPE	2230.6	PSI/CYCLE	
		P*	1594.1	PSI	

		Log	<>		
		Horn T	PRESSURE	Horn T	
		-----	-----	-----	
	6	332.6	1.130	332.6	14
	12	449.8	0.860	117.2	7
	18	498.3	0.713	48.5	5
	24	542.1	0.615	43.8	4
	30	581.2	0.544	39.1	4
	36	621.2	0.489	40.0	3
	42	655.3	0.445	34.1	3
	48	696.4	0.409	41.1	3
	54	739.4	0.378	43.0	2
	60	777.5	0.352	38.1	2
	66	821.6	0.330	44.1	2
	72	866.7	0.310	45.1	2
	78	916.8	0.293	50.1	2
	84	959.9	0.277	43.1	2
	90	996.9	0.263	37.0	2
	96	1028.0	0.251	31.1	2
	102	1056.1	0.239	28.1	2
	108	1083.2	0.229	27.1	2
	114	1104.3	0.220	21.1	2
	120	1120.4	0.211	16.1	2
X	126	1136.4	0.203	16.0	2
	132	1151.5	0.195	15.1	2
X	138	1173.6	0.189	22.1	2

WEBDELL #3 / DST #4 DELTA T DELTA P



HORNER PLOT



1	0.187	194.3784
2	0.191	198.5388
3	0.191	198.5388
4	0.195	202.6993
5	0.198	205.8197
6	0.199	206.8598
7	0.202	209.9797
8	0.205	213.0992
9	0.208	216.2188
10	0.214	222.458
11	0.218	226.6175
12	0.221	229.7372
13	0.226	234.9368
14	0.23	239.0965
15	0.232	241.1764
16	0.239	248.456
17	0.241	250.536
18	0.246	255.7359
19	0.248	257.8158
20	0.25	259.8958
21	0.253	263.0158

FF

1	0.28	291.0973
2	0.412	428.1998
3	0.479	497.3529
4	0.518	537.1246
5	0.558	577.2622
6	0.602	621.2124
7	0.652	671.411
8	0.695	714.4104
9	0.743	762.5648
10	0.808	827.6344
11	0.82	839.68

I -
F -

1	0.32	332.6827
2	0.433	449.8892
3	0.48	498.384
4	0.523	542.1523
5	0.562	581.2654
6	0.602	621.2124
7	0.636	655.3707
8	0.677	696.4299
9	0.72	739.4914
10	0.758	777.5943
11	0.802	821.6089
12	0.847	866.7563
13	0.897	916.8013
14	0.94	959.928
15	0.98	986.9894
16	1.008	1028.043
17	1.036	1056.178
18	1.063	1083.286
19	1.084	1104.356

21	1.116	1136.48
22	1.131	1151.55
23	1.153	1173.642

1	0.32	332.6827
2	0.433	449.8892
3	0.48	498.384
4	0.523	542.1523
5	0.562	581.2654
6	0.602	621.2124
7	0.636	655.3707
8	0.677	696.4299
9	0.72	739.4914
10	0.758	777.5943
11	0.802	821.6089
12	0.847	866.7563
13	0.897	916.8013
14	0.94	959.928
15	0.977	996.9894
16	1.008	1028.043
17	1.036	1056.178
18	1.063	1083.286
19	1.084	1104.356
20	1.1	1120.4
21	1.116	1136.48
22	1.131	1151.55
23	1.153	1173.642

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Drill-Stem Test Data

Well Name WEBDELL #3-3 Test No. 5 Date 5/6/94
Company BEREXCO INC Zone MORROW
Address 970 FOURTH FINANCIAL CNTR WICHITA KS 67202 Elevation 2963
Co. Rep./Geo. CHARLIE SPRADLIN Cont. BEREDCO DRLG RIG #4 Est. Ft. of Pay 9
Location: Sec. 3 Twp. 23S Rge. 34W Co. FINNEY State KS

Interval Tested	<u>4683-4696</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>13</u>	Wt. Pipe I.D. - 2.7 Ft. Run	
Top Packer Depth	<u>4678</u>	Drill Collar - 2.25 Ft. Run	<u>612</u>
Bottom Packer Depth	<u>4683</u>	Mud Wt.	<u>9.2</u> lb/Gal.
Total Depth	<u>4696</u>	Viscosity	<u>44</u>
		Filtrate	<u>8.2</u>

Tool Open @ 7:15 AM Initial Blow WEAK SURFACE BLOW STEADY THROUGHOUT

Final Blow SURFACE RETURN GRADUALLY BUILT OFF BOTTOM IN 75 MIN
FSI: BLED OFF BLOW - NO RETURN

Recovery - Total Feet 90 Flush Tool? NO

Rec. <u>635</u>	Feet of	<u>GAS IN PIPE ABOVE FLUID</u>
Rec. <u>90</u>	Feet of	<u>GSY MUD CUT OIL- 20% GAS/ 50% OIL/ 30% MUD</u>
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____

BHT 120 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1550 ppm System

(A) Initial Hydrostatic Mud 2188.3 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 13.5 PSI @ (depth) 4686 w / Clock No. 19960

(C) First Final Flow Pressure 16.6 PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-in Pressure 914.8 PSI @ (depth) 4691 w / Clock No. 22992

(E) Second Initial Flow Pressure 47.8 PSI AK1 Recorder No. _____ Range _____

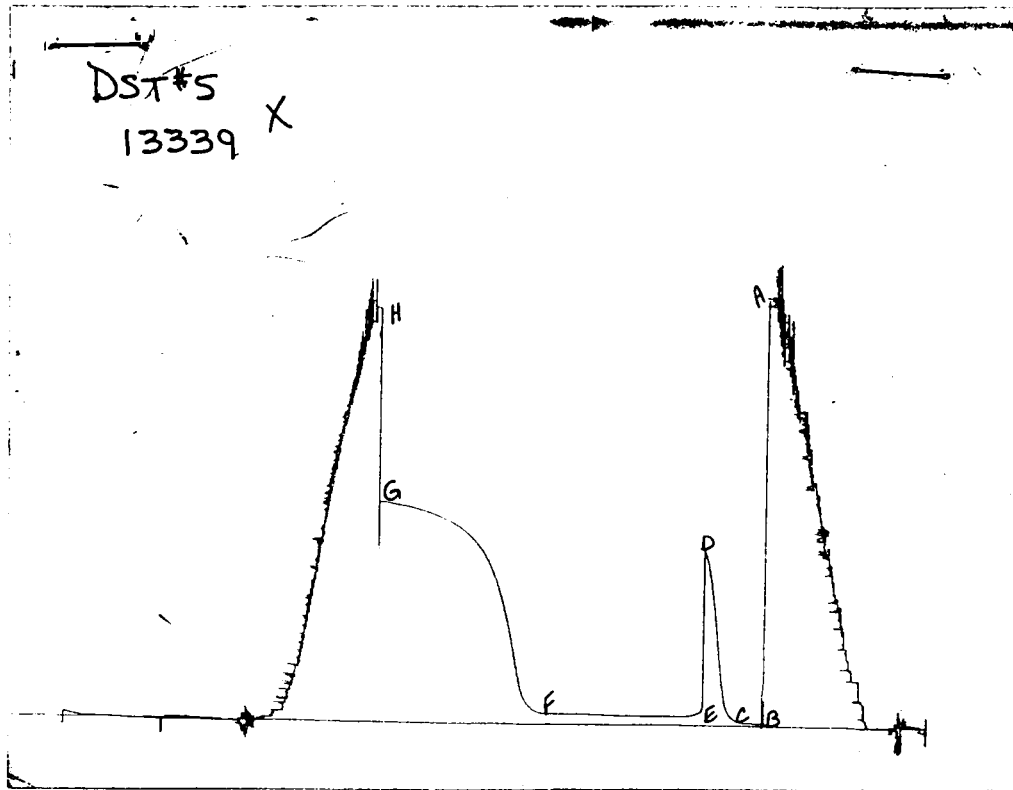
(F) Second Final Flow Pressure 58.2 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1160.5 PSI Initial Opening 15 Final Flow 120

(H) Final Hydrostatic Mud 2162.2 PSI Initial Shut-in 30 Final Shut-in 120

Our Representative ROD STEINBRINK

CHART PAGE



This is an actual photograph of recorder chart# 13339

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2173	2188.3
(B) FIRST INITIAL FLOW PRESSURE	31	13.5
(C) FIRST FINAL FLOW PRESSURE	31	16.6
(D) INITIAL CLOSED-IN PRESSURE	919	914.8
(E) SECOND INITIAL FLOW PRESSURE	41	47.8
(F) SECOND FINAL FLOW PRESSURE	62	58.2
(G) FINAL CLOSED-IN PRESSURE	1150	1160.5
(H) FINAL HYDROSTATIC MUD	2163	2162.2

DST #	5			TICKET			7059		
SAMPLE	TOTAL	GAS		OIL		WATER		MUD	
#	FEET	%	FEET	%	FEET	%	FEET	%	FEET
1	90	20	18	50	45	0	0	30	27
2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	90	20.00	18	50.00	45	0.00	0	30	27

			HRS OP	BBL/DAY
BBL OIL=	0.22005	*	2.25	2.3472
BBL WATER=	0	*		0
BBL MUD=	0.13203			
BBL GAS=	0.08802			

MUD
OIL
GAS
WTR

