

15-055-20947

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

29-22s-33w

Drill-Stem Test Data

EXTRA

Well Name & No.	GARDEN CITY "A" #1-29	Test No.	1	Date	11/17/90
Company	BEREXCO INC	Zone Tested	MORROW		
Address	970 4TH FINANCIAL CNTR WICHITA KS 67202	Elevation	2915 KB		
Co. Rep./Geo.	MR CHARLIE SPRADLIN	Cont.	BEREDCO DRLG #2	Est. Ft. of Pay	6
Location: Sec.	29	Twp.	22S	Rge.	33W
		Co.	FINNEY	State	KANSAS

Interval Tested	4669-4702	Drill Pipe Size	4.5" XH
Anchor Length	33	Top Choke — 1"	Bottom Choke — ¾"
Top Packer Depth	4664	Hole Size — 7 7/8"	Rubber Size — 6 3/4"
Bottom Packer Depth	4669	Wt. Pipe I.D. — 2.7 Ft. Run	0
Total Depth	4702	Drill Collar — 2.25 Ft. Run	635
Mud Wt.	9.1	lb/gal.	Viscosity 52 Filtrate 6.4
Tool Open @	10:05	Initial Blow	STRONG BLOW-BOTTOM OF BUCKET IN 1
	MINUTE-ISI: BLED OFF BLOW-FAIR BLOW -BOTTOM OF BUCKET 3 MIN		
Final Blow	BOTTOM OF BUCKET SOON AS TOOL OPEN-GAS TO SURFACE IN 20		
	MINUTES-FSI: OFF BOTTOM THROUGHOUT-GAUGED @3.73 MCF		
Recovery — Total Feet	3450	Flush Tool?	NO
Rec.	3350	Feet of	CLEAN GASSY OIL-60%OIL/40%GAS
Rec.	100	Feet of	GASSY MUD CUT OIL-50%GAS/30%OIL/20%MUD
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	
BHT	118	%F Gravity	33
		%API @	70
		%F Corrected Gravity	32
		%API	
RW	@	%F Chlorides	1300
		ppm Recovery	5495
(A) Initial Hydrostatic Mud	2188.7	PSI	AK1 Recorder No. 5495 Range 4200
(B) First Initial Flow Pressure	312.3	PSI	@ (depth) 4673 w/Clock No. 17640
(C) First Final Flow Pressure	489.3	PSI	AK1 Recorder No. 13337 Range 3975
(D) Initial Shut-In Pressure	1265.0	PSI	@ (depth) 4699 w/Clock No. 27566
(E) Second Initial Flow Pressure	540.6	PSI	AK1 Recorder No. 0 Range 0
(F) Second Final Flow Pressure	1191.1	PSI	@ (depth) 0 w/Clock No. 0
(G) Final Shut-In Pressure	1258.7	PSI	Initial Opening 15
(H) Final Hydrostatic Mud	2140.2	PSI	Initial Shut-In 30
			Final Flow 120
			Final Shut-In 120

MR TOM HORACEK

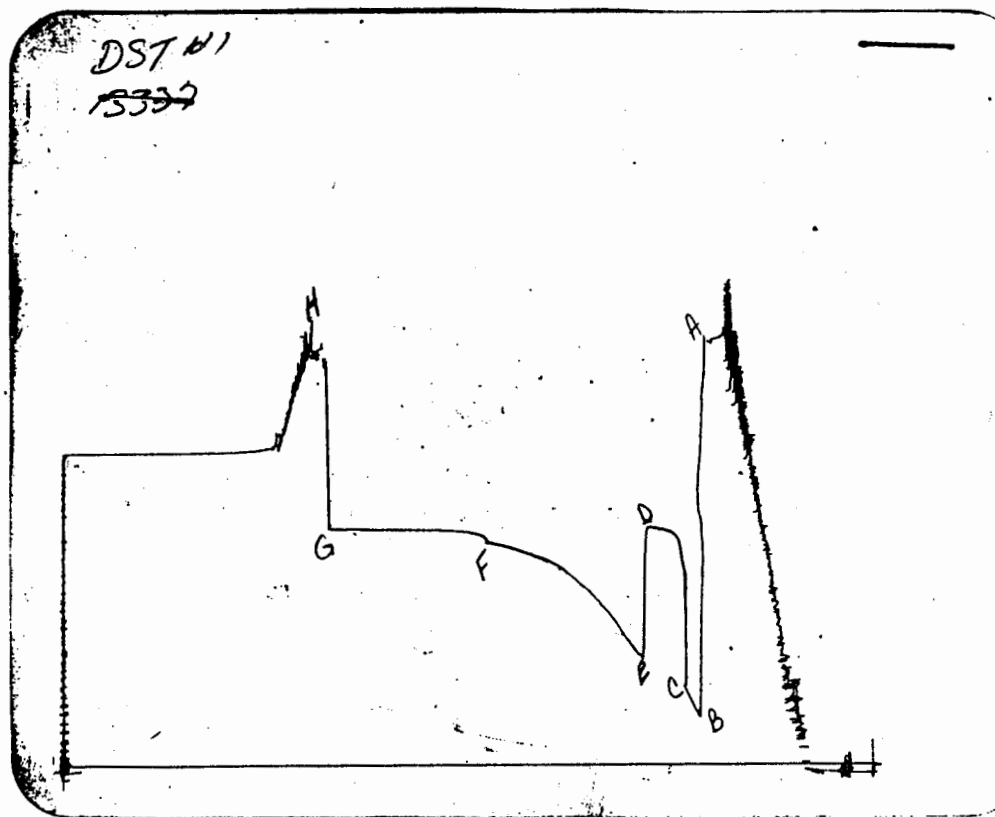
800

Our Representative _____

TOTAL PRICE \$ _____

DST# 1

RECORDER# 13337



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2196	2188.7 PSI
(B) First Initial Flow Pressure	310	312.3 PSI
(C) First Final Flow Pressure	493	489.3 PSI
(D) Initial Closed-In Pressure	1256	1265.0 PSI
(E) Second Initial Flow Pressure	525	540.6 PSI
(F) Second-Final Flow Pressure	1182	1191.1 PSI
(G) Final Closed-In Pressure	1235	1258.7 PSI
(H) Final Hydrostatic Mud	2143	2140.2 PSI

CALCULATED RECOVERY ANALYSIS

DST # 1 TICKET # 2619

SAMPLE #	TOTAL FEET	GAS %	FEET	OIL %	FEET	WATER %	FEET	MUD %	FEET
DRILL 1	2815	40	1126	60	1689		0		0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			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	535	40	214	60	321		0		0
COLLAR 2	100	50	50	30	30	0	0	20	20
3			0		0		0		0
4			0		0		0		0
TOTAL			1390		2040		0		20

HRS OPEN 88L/DAY

BBL OIL= 33.99318 * 2.25 362.593

BBL WATER 0 *

BBL MUD= 0.0978

INITIAL FLOW

RECORDER # 5495
DST #1

DT(MIN)	PRESSURE	<> PRESSURE
0	312.3	312.3
3	370.8	58.5
6	405.4	34.60001
9	457.1	51.70001
12	465.6	8.5
15	489.3	23.69998

FINAL FLOW

RECORDER # 5495
DST #1

DT(MIN)	PRESSURE	<> PRESSURE
0	540.6	540.6
6	585.5	44.90003
12	649.4	63.90003
18	751.3	101.9
24	800	48.70001
30	859.3	59.29999
36	899.5	40.20001
42	933.3	33.79999
48	967.1	33.79999
54	1007.3	40.20001
60	1036.9	29.60004
66	1064.3	27.40003
72	1083.3	19
78	1098.1	14.79993
84	1112.9	14.80005
90	1131.9	19
96	1144.6	12.69995
102	1155.2	10.59998
108	1167.9	12.70007
114	1176.3	8.400024
120	1186.9	10.59998
126	1191.1	4.199951

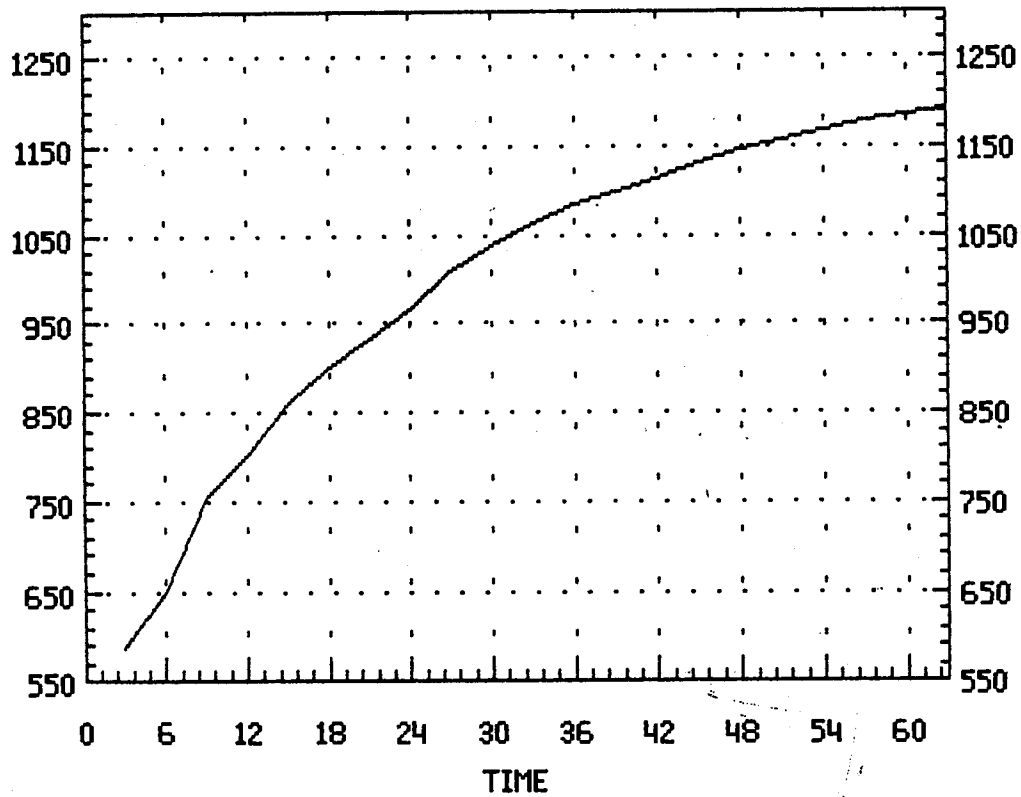
DELTA T DELTA P

DST #1 FINAL FLOW

RECORDER # 5495

PRESSURE

PRESSURE



INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE

298.2287 BBL/DAY

DELTA T DELTA P

DST #1 INITIAL & FINAL SHUTIN

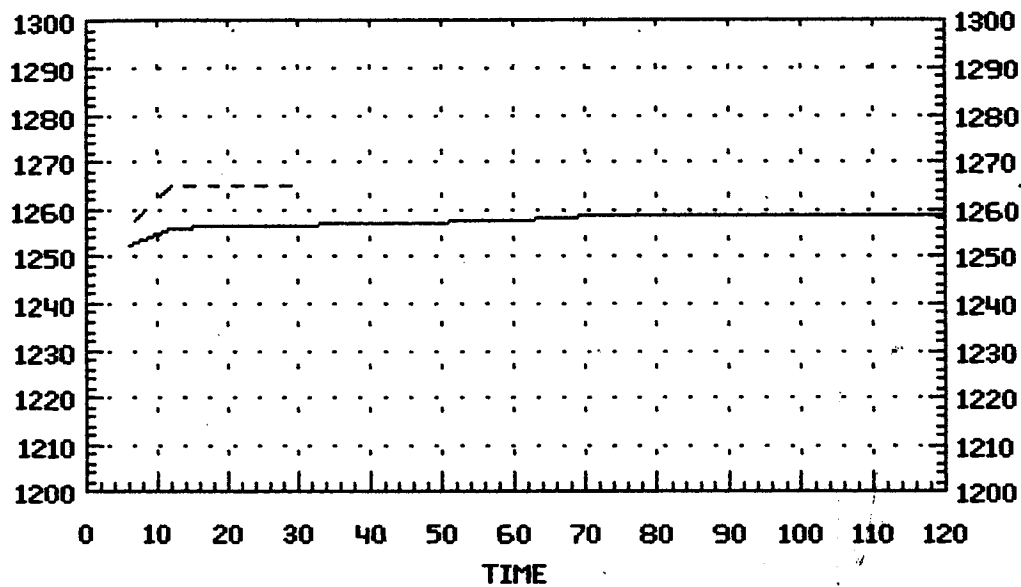
RECORDER # 5495

FINAL

INITIAL

PRESSURE

PRESSURE



GARDEN CITY DST #1

INITIAL SHUTIN

15 INITIAL FLOW TIME

Slope -16.81 psi/cycle

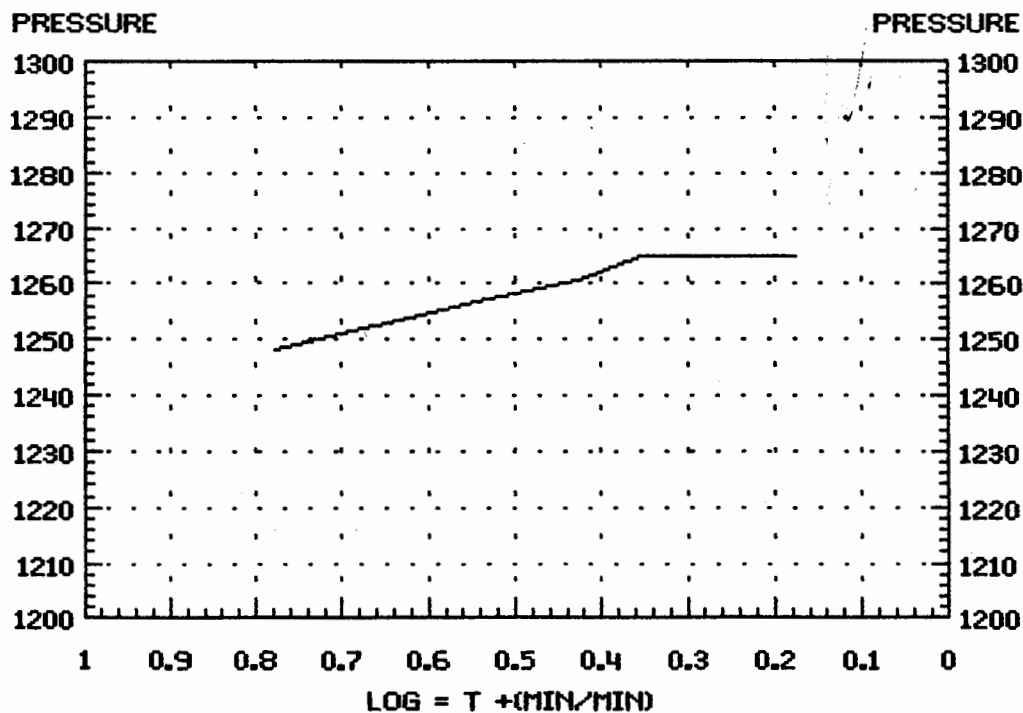
P * 1,268 psi

	TIME(MIN)	Pws (psi)	Horn T	Log Horn T	<> PRESSURE
	3	1248.1	6	0.778	1248.1
	6	1256.6	4	0.544	8.5
X	9	1260.8	3	0.426	4.2
	12	1265.0	2	0.352	4.2
	15	1265.0	2	0.301	0.0
	18	1265.0	2	0.263	0.0
	21	1265.0	2	0.234	0.0
	24	1265.0	2	0.211	0.0
	27	1265.0	2	0.192	0.0
X	30	1265.0	2	0.176	0.0

HORNER PLOT

DST #1 INITIAL SHUTIN

RECORDER # 5495



GARDEN CITY DST #1

FINAL

SHUTIN

135 TOTAL FLOW TIME

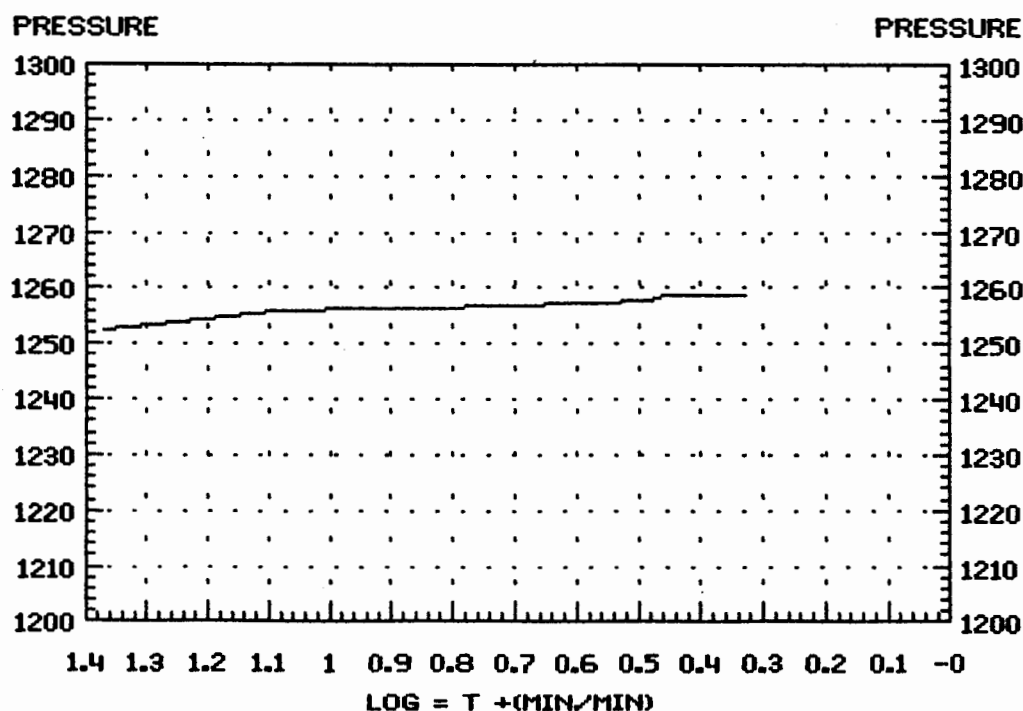
Slope -5.12 psi/cycle
P * 1,260 psi

TIME(MIN)	Pws (psi)	Horn T	Log Horn T	<> PRESSURE
6	1252.4	24	1.371	1252.4
12	1256.1	12	1.088	3.7
18	1256.3	9	0.929	0.2
24	1256.5	7	0.821	0.2
30	1256.7	6	0.740	0.2
36	1256.9	5	0.677	0.2
42	1257.1	4	0.625	0.2
48	1257.3	4	0.581	0.2
54	1257.5	4	0.544	0.2
60	1257.7	3	0.512	0.2
66	1257.9	3	0.484	0.2
72	1258.7	3	0.459	0.8
78	1258.7	3	0.436	0.0
84	1258.7	3	0.416	0.0
90	1258.7	3	0.398	0.0
96	1258.7	2	0.381	0.0
102	1258.7	2	0.366	0.0
108	1258.7	2	0.352	0.0
114	1258.7	2	0.339	0.0
120	1258.7	2	0.327	0.0

HORNER PLOT

DST #1 FINAL SHUTIN

RECORDER # 5495





GAS VOLUME REPORT

DST NO.

Remarks:

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

N^o 2619

Well Name & No.	Garden City A #1-29	Test No.	1	Date	11-17-90
Company	Berexco Inc.	Zone Tested	Morrow		
Address	970 4th Financial Center, Wichita, KS, 67202	Elevation	2915	(KB)	
Co. Rep. / Geo.	Charlie Spradlin	Cont.	Berexco Drilling #2	Est. Ft. of Pay	6
Location: Sec.	29	Twp.	22 S	Rge.	33 W
		Co.	Finney	State	KS
No. of Copies	9	Distribution Sheet	X	Yes	No
		Turnkey		Yes	No

Interval Tested	4669-4702	Drill Pipe Size	4.5 x H
Anchor Length	33'	Top Choke — 1"	Bottom Choke — 3/4"
Top Packer Depth	4664	Hole Size — 7 7/8"	Rubber Size — 6 3/4"
Bottom Packer Depth	4669	Wt. Pipe I.D. — 2.7 Ft. Run	—
Total Depth	4702	Drill Collar — 2.25 Ft. Run	635'
Mud Wt.	9.1	lb / gal.	Viscosity 52
			Filtrate 6.4

Tool Open @	10:05	Initial Blow	strong blow - bottom of bucket 1 min.
IST -	bled off blow - fair blow - bottom of bucket 3 min.		
Final Blow	bottom of bucket soon as tool open. Gas to surface 20 min.		
FSI -	off bottom through out	Gauged @	3.73 mcf
Recovery — Total Feet	3450'	Flush Tool?	no

Rec.		Feet of	
Rec.		Feet of	
Rec.	3350'	Feet of	clean gassy oil 60% oil - 40% gas
Rec.	100'	Feet of	Gassy mud cut oil 50% gas - 30% oil - 20% mud
Rec.		Feet of	

BHT	118°	°F	Gravity	33	°API @	70	°F	Corrected Gravity	32	°API
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RW		@	°F	Chlorides		ppm	Recovery	Chlorides	1300	ppm	System
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(A) Initial Hydrostatic Mud	2196	PSI	AK1 Recorder No.	5495	Range	4200
(B) First Initial Flow Pressure	310	PSI	@ (depth)	4673	w/Clock No.	17640
(C) First Final Flow Pressure	493	PSI	AK1 Recorder No.	13337	Range	3975
(D) Initial Shut-In Pressure	1256	PSI	@ (depth)	4699	w/Clock No.	29566
(E) Second Initial Flow Pressure	525	PSI	AK1 Recorder No.		Range	
(F) Second Final Flow Pressure	1182	PSI	@ (depth)		w/Clock No.	
(G) Final Shut-In Pressure	1235	PSI	Initial Opening	15	Test	550.00
(H) Final Hydrostatic Mud	2143	PSI	Initial Shut-In	30	Jars	X 200.00
			Final Flow	120	Safety Joint	X 50.00
			Final Shut-In	120	Straddle	

Approved By	Charles B. Spradlin	Circ. Sub	
Our Representative	Tom Horacek	Sampler	
		Extra Packer	
		Other	
		TOTAL PRICE \$	800.00

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No.	GARDEN CITY "A" #1-29	Test No.	2	Date	11/18/90
Company	BEREXCO INC	Zone Tested	MORROW		
Address	970 4TH FINANCIAL CNTR WICHITA KS 67202	Elevation	2915 KB		
Co. Rep./Geo.	MR CHARLIE SPRADLIN	Cont.	BEREDCO DRLG #2	Est. Ft. of Pay	5
Location: Sec.	29	Twp.	22S	Rge.	33W
		Co.	FINNEY	State	KANSAS

Interval Tested	4726-4735	Drill Pipe Size	4.5" XH			
Anchor Length	9	Top Choke — 1"	Bottom Choke — 3/4"			
Top Packer Depth	4721	Hole Size — 77/8"	Rubber Size — 63/4"			
Bottom Packer Depth	4726	Wt. Pipe I.D. — 2.7 Ft. Run	0			
Total Depth	4735	Drill Collar — 2.25 Ft. Run	635			
Mud Wt.	9.0	lb/gal.	Viscosity	60	Filtrate	6.4
Tool Open @	9:20 PM	Initial Blow	WEAK-BLOW-DEAD IN 12 MINUTES			

Final Blow NO BLOW

Recovery — Total Feet	10	Flush Tool?	NO
Rec.	10	Feet of	SLIGHTLY OIL CUT MUD-10%OIL/90%MUD
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	

BHT 118 °F Gravity °API @ 0 °F Corrected Gravity 0 °API

RW @ °F Chlorides ppm Recovery Chlorides 2600 ppm System

(A) Initial Hydrostatic Mud 2210.2 PSI Ak1 Recorder No. 5495 Range 4200

(B) First Initial Flow Pressure 12.4 PSI @ (depth) 4728 w/Clock No. 17640

(C) First Final Flow Pressure 14.6 PSI AK1 Recorder No. 13337 Range 3975

(D) Initial Shut-In Pressure 701.4 PSI @ (depth) 4732 w/Clock No. 27566

(E) Second Initial Flow Pressure 10.8 PSI AK1 Recorder No. 0 Range 0

(F) Second Final Flow Pressure 11.6 PSI @ (depth) 0 w/Clock No. 0

(G) Final Shut-In Pressure 1141.2 PSI Initial Opening 15

(H) Final Hydrostatic Mud 2177.8 PSI Initial Shut-In 30

Final Flow 60

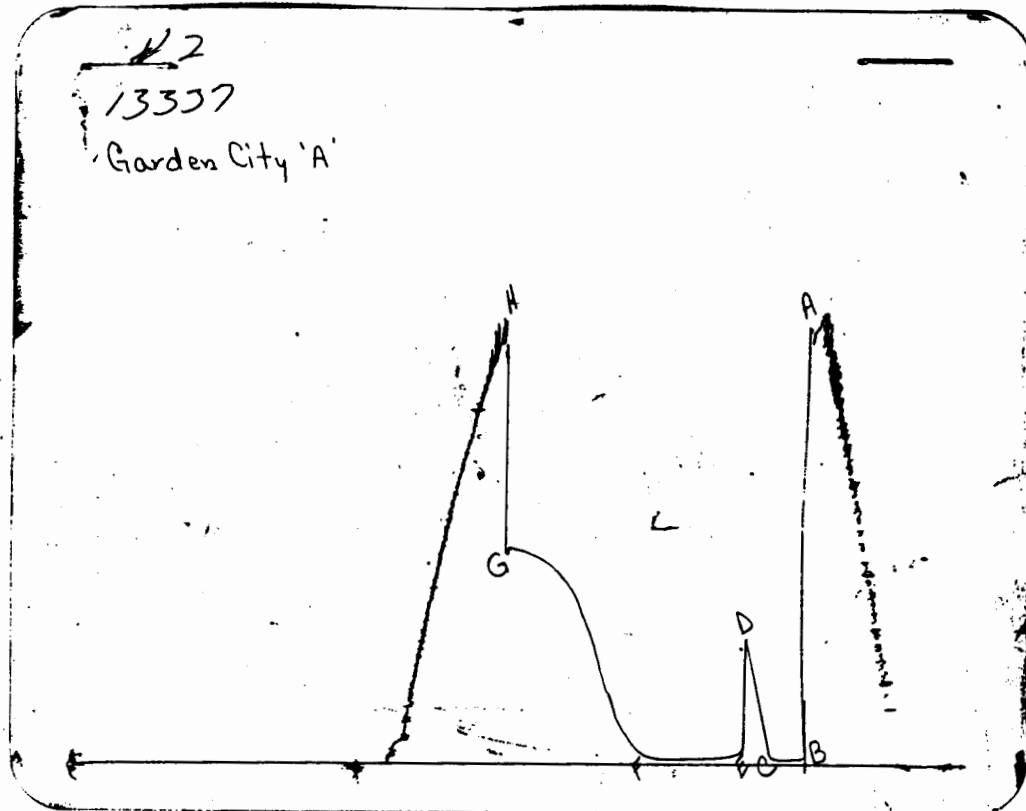
Final Shut-In 120

MR TOM HORACEK

800

Our Representative

TOTAL PRICE \$

DST# 2RECORDER# 13337

This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2207	2210.2
(B) First Initial Flow Pressure	11	12.4
(C) First Final Flow Pressure	11	14.6
(D) Initial Closed-In Pressure	696	701.4
(E) Second Initial Flow Pressure	11	10.8
(F) Second-Final Flow Pressure	11	11.6
(G) Final Closed-In Pressure	1140	1141.2
(H) Final Hydrostatic Mud	2175	2177.8

CALCULATED RECOVERY ANALYSIS

DST # 2 TICKET # 2620

SAMPLE #	TOTAL FEET	GAS %	FEET	OIL %	FEET	WATER %	FEET	MUD %	FEET
DRILL 1			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
WEIGHT 1			0		0		0		0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRILL 1	10	0	0	10	1	0	0	90	9
COLLAR 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
TOTAL			0		1		0		9

HRS OPEN BBL/DAY

BBL OIL= 0.00489 * 1.25 0.09388
 BBL WATER 0 * 0
 BBL MUD= 0.04401

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

No. 2620

Well Name & No.	Garden City "A" #1-29	Test No.	2	Date	11-18-90
Company	Berexco Inc.	Zone Tested	Morrow		
Address	970 4th Financial Center, Wichita, KS 67202	Elevation	2915 (KB)		
Co. Rep. / Geo.	Charlie Spradlin	cont.	Beredco Drilling #2	Est. Ft. of Pay	5
Location: Sec.	29	Twp.	22S	Rge.	33W
		Co.	Finney	State	KS
No. of Copies	9	Distribution Sheet	X	Yes	No
		Turnkey		Yes	No

Interval Tested 4726 - 4735 Drill Pipe Size 4.5 xH
Anchor Length 9' Top Choke — 1" Bottom Choke — ¾"
Top Packer Depth 4721 Hole Size — 7 7/8" Rubber Size — 6 3/4"
Bottom Packer Depth 4726 Wt. Pipe I.D. — 2.7 Ft. Run —
Total Depth 4735 Drill Collar — 2.25 Ft. Run 635'
Mud Wt. 9.0 lb/gal. Viscosity 60 Filtrate 6.4
Tool Open @ 9:20 pm Initial Blow weak blow - dead in 12 min.

Final Blow no blow

Recovery — Total Feet 10' Flush Tool? no

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. 10' Feet of 50cm 10% oil 90% mud

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 118° °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2600 ppm System

(A) Initial Hydrostatic Mud 2207 PSI AK1 Recorder No. 5495 Range 4200

(B) First Initial Flow Pressure 11 PSI @ (depth) 4728 w/Clock No. 17640

(C) First Final Flow Pressure 11 PSI AK1 Recorder No. 13337 Range 3975

(D) Initial Shut-In Pressure 696 PSI @ (depth) 4732 w/Clock No. 27566

(E) Second Initial Flow Pressure 11 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 11 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-In Pressure 1140 PSI Initial Opening 15 Test 550.00

(H) Final Hydrostatic Mud 2175 PSI Initial Shut-In 30 Jars x 200.00

Final Flow 60 Safety Joint x 50.00

Final Shut-In 120 Straddle _____

Approved By Charlie Spradlin

Our Representative Tom Horacek

Circ. Sub _____

Sampler _____

Extra Packer _____

Other _____

TOTAL PRICE \$ 200.00

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No.	GARDEN CITY "A" #1-29	Test No.	3	Date	11/19/90
Company	BEREXCO INC	Zone Tested	ST LOUIS		
Address	970 4TH FINANCIAL CNTR WICHITA KS 67202	Elevation	2915 KB		
Co. Rep./Geo.	MR CHARLIE SPRADLIN	Cont.	BEREDCO DRLG #2	Est. Ft. of Pay	7
Location: Sec.	29	Twp.	22S	Rge.	33W
		Co.	FINNEY	State	KANSAS

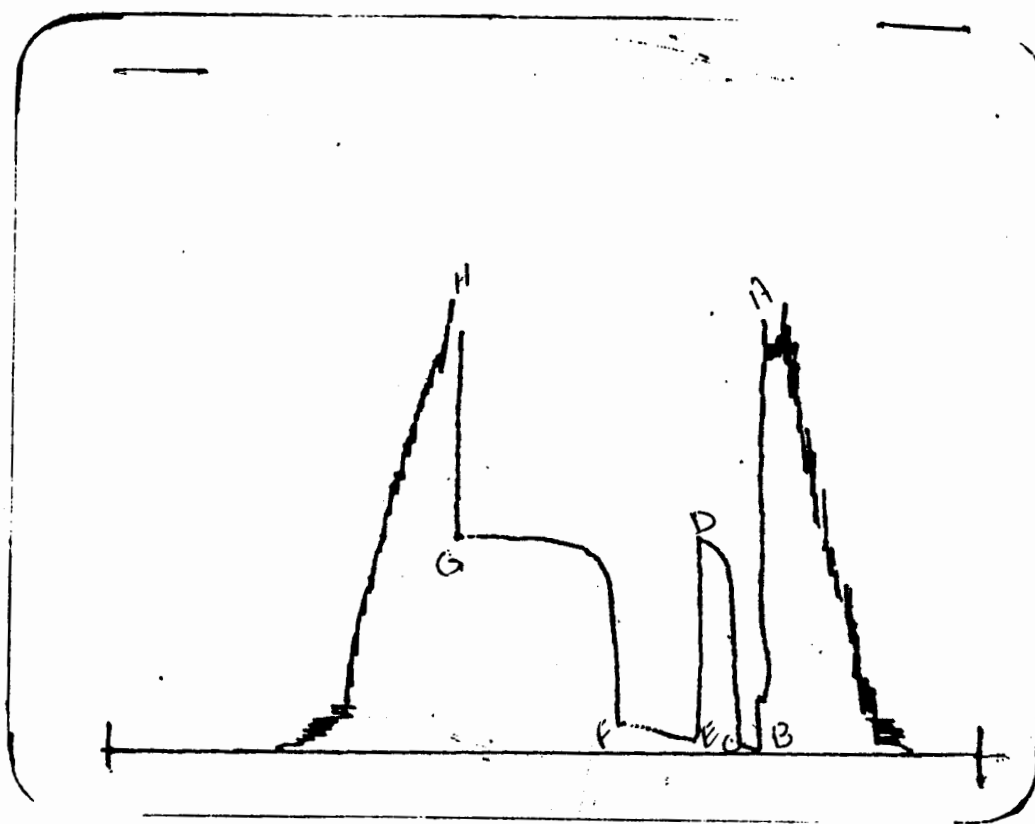
Interval Tested	4777-4798	Drill Pipe Size	4.5" XH
Anchor Length	21	Top Choke — 1"	Bottom Choke — ¾"
Top Packer Depth	4772	Hole Size — 7 7/8"	Rubber Size — 6 3/4"
Bottom Packer Depth	4777	Wt. Pipe I.D. — 2.7 Ft. Run	0
Total Depth	4798	Drill Collar — 2.25 Ft. Run	635
Mud Wt.	8.9	lb/gal.	Viscosity 65 Filtrate 6.0
Tool Open @	7:10 PM	Initial Blow	WEAK BLOW BUILT TO 10"
ISI: BLED OFF BLOW-NO BLOW			
Final Blow	FAIR BLOW - BOTTOM OF BUCKET IN 25 MINUTES		
FSI: BLED OFF BLOW-WEAK BLOW - BUILT TO 8"			
Recovery — Total Feet	460	Flush Tool?	NO
Rec.	Feet of		
Rec.	550	Feet of	GAS IN PIPE
Rec.	460	Feet of	CLEAN GASSY OIL-50%GAS/50%OIL
Rec.	0	Feet of	
Rec.	0	Feet of	
BHT	121	°F Gravity	26 °API @ 74 °F Corrected Gravity 25 °API
RW	@	°F Chlorides	ppm Recovery Chlorides 2000 ppm System
(A) Initial Hydrostatic Mud	2255.6	PSI	Ak1 Recorder No. 5495 Range 4200
(B) First Initial Flow Pressure	40.6	PSI	@ (depth) 4781 w/Clock No. 17640
(C) First Final Flow Pressure	58.6	PSI	Ak1 Recorder No. 13337 Range 3975
(D) Initial Shut-In Pressure	1203.8	PSI	@ (depth) 4795 w/Clock No. 27566
(E) Second Initial Flow Pressure	87.7	PSI	Ak1 Recorder No. 0 Range 0
(F) Second Final Flow Pressure	172.1	PSI	@ (depth) 0 w/Clock No. 0
(G) Final Shut-In Pressure	1231.2	PSI	Initial Opening 15
(H) Final Hydrostatic Mud	2230.7	PSI	Initial Shut-In 30
		Final Flow	60
		Final Shut-In	120

MR TOM HORACEK

800

Our Representative _____

TOTAL PRICE \$ _____

DST# 3 RECORDER# 5495


This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2249	2255.6 PSI
(B) First Initial Flow Pressure	33	40.6 PSI
(C) First Final Flow Pressure	45	58.6 PSI
(D) Initial Closed-In Pressure	1193	1203.8 PSI
(E) Second Initial Flow Pressure	67	87.7 PSI
(F) Second-Final Flow Pressure	156	172.1 PSI
(G) Final Closed-In Pressure	1214	1231.1 PSI
(H) Final Hydrostatic Mud	2228	2230.7 PSI

CALCULATED RECOVERY ANALYSIS

DST # 3 TICKET # 2621

SAMPLE #	TOTAL FEET	GAS Z	OIL Z	WATER Z	MUD Z
		FEET	FEET	FEET	FEET
DRILL 1		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
WEIGHT 1		0	0	0	0
PIPE 2		0	0	0	0
3		0	0	0	0
4		0	0	0	0
DRILL 1	460	50	230	50	230
COLLAR 2		0	0	0	0
3		0	0	0	0
4		0	0	0	0
TOTAL		230	230	0	0

HRS OPEN BBL/DAY

BBL OIL= 1.1247 * 1.25 21.5942
BBL WATER 0 * 0
BBL MUD= 0

COMPUTER EVALUATION BY TRILOBITE TESTING
BEREXCO INC
REPORT FOR DST#3 FOR THE GARDEN CITY "A" #1-29
29-22S-33W FINNEY KANSAS

TEST PARAMETERS

ELEVATION:	2915 KB	EST. PAY:	7 FT
DATUM:	-1867	ZONE TESTED:	ST LOUIS
TEST INTERVAL:	4777-4798		
RECORDER DEPTH:	4781	TIME INTERVALS:	15-30-60-120
BOTTOM HOLE TEMP:	121	VISCOSITY:	21.806 CP
		HOLE SIZE:	7.875 IN

CALCULATIONS

CUBIC FEET OF GAS IN PIPE: 34.75428

TOTAL FEET OF RECOVERY: 460
BARRELS IN DRILL COLLARS: 2.2494
GAS OIL RATIO: 15.45047 CU.FT./BBL
BUBBLE POINT PRESSURE: ; .4320899
TOTAL BARRELS OF RECOVERY: 2.2494

API GRAVITY: 24
UNCORR. INIT. PROD.: 43.18848 BBL/DAY

CORRECTED PIPE FILLUP: 436.8021
FLUID GRADIENT: .394

INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE: 40.93517 BBL/DAY
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE
28.1113

INITIAL SLOPE 592.8 PSI/CYCLE
INITIAL P* 1300 PSI

FINAL SLOPE 169.11 PSI/CYCLE
FINAL P* 1267 PSI

TRANSMISSIBILITY	39.35935 (MD.-FT./CP.)
PERMEABILITY	122.61 (MD.)
INDICATED FLOW CAPACITY	858.27 (MD.FT)
PRODUCTIVITY INDEX	4.447606E-02 (BARRELS/DAY/PSI)
DAMAGE RATIO	1.184831
RADIUS OF INVESTIGATION	95.89447 (FT.)
THEORETICAL POTENTIAL FROM FINAL FLOW PRESSURE	48.50124 BBL/DAY
THEORETICAL POTENTIAL FROM PSEUDO STEADY FLOW STATE	33.30713 BBL/DAY
POTENTIOMETRIC SURFACE	1072.173 (FT.)
DRAWDOWN FACTOR	2.538461 (%)

INITIAL FLOW

RECORDER # 5495
DST #3

DT(MIN)	PRESSURE	<> PRESSURE
0	40.6	40.6
3	47.3	6.700001
6	49.6	2.299999
9	51.8	2.200001
12	54.1	2.299999
15	58.6	4.5

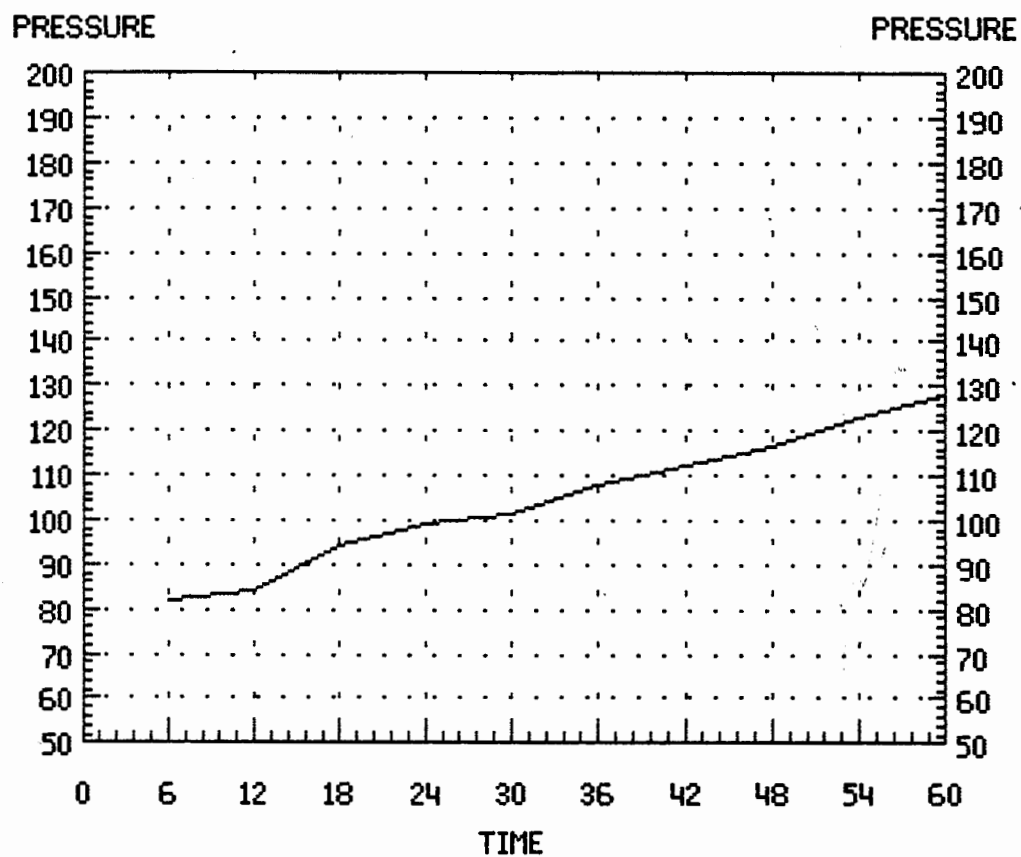
FINAL FLOW

RECORDER # 5495
DST #3

DT(MIN)	PRESSURE	<> PRESSURE
0	87.7	87.7
3	82.1	-5.599999
6	84.3	2.200005
9	94.4	10.1
12	98.9	4.5
15	101.1	2.199997
18	107.8	6.700005
21	112.2	4.399994
24	116.7	4.5
27	123.3	6.600006
30	127.8	4.5
33	134.5	6.699997
36	139.1	4.600006
39	143.3	4.199997
42	147.8	4.5
45	151.1	3.300003
48	156.6	5.5
51	159.9	3.299988
54	164.4	4.5
57	169.9	5.5
60	172.1	2.200012

DELTA T DELTA P

DST #3 FINAL FLOW
RECORDER # 5495



INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE 28.1113 BBL/DAY

DELTA T DELTA P

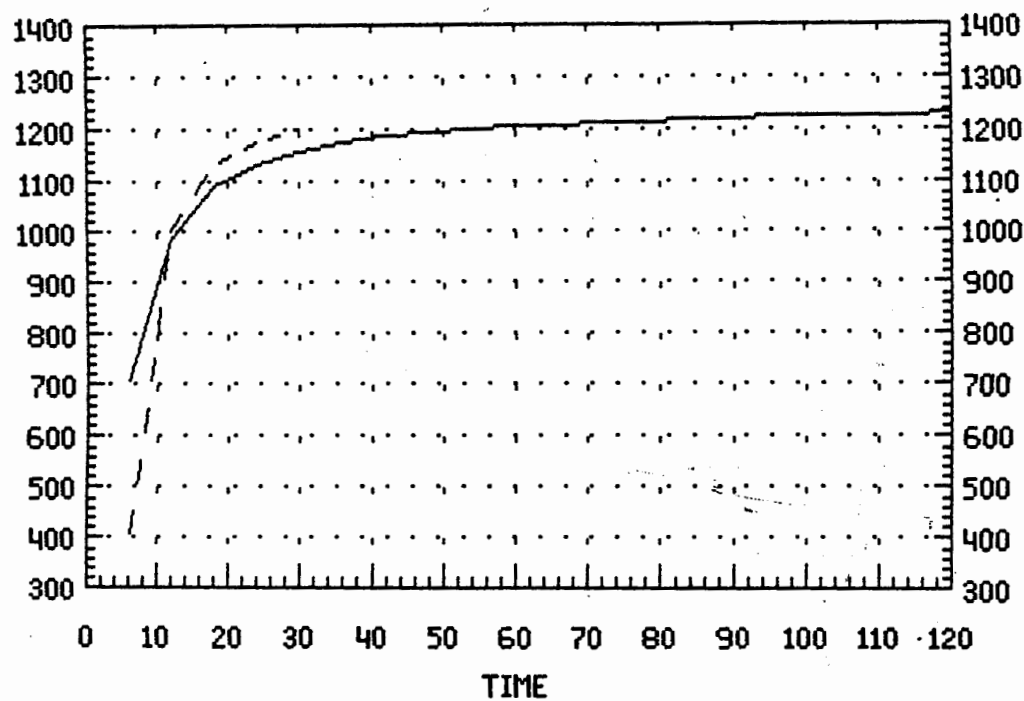
DST #3 INITIAL & FINAL SHUTIN
RECORDER # 5495

FINAL

INITIAL

PRESSURE

PRESSURE



GARDEN CITY DST #3

FINAL SHUTIN

75 TOTAL FLOW TIME

Slope -169.11 psi/cycle

P * 1,267 psi

TIME(MIN)	Pws (psi)	Horn T	Log	<> PRESSURE
			Horn T	
6	711.0	14	1.130	711.0
12	985.1	7	0.860	274.1
18	1089.7	5	0.713	104.6
24	1134.0	4	0.615	44.3
30	1159.4	4	0.544	25.4
36	1175.2	3	0.489	15.8
42	1186.9	3	0.445	11.7
48	1193.2	3	0.409	6.3
54	1199.5	2	0.378	6.3
60	1207.3	2	0.352	7.8
66	1210.1	2	0.330	2.8
72	1214.3	2	0.310	4.2
78	1216.4	2	0.293	2.1
84	1220.7	2	0.277	4.3
90	1222.8	2	0.263	2.1
96	1224.9	2	0.251	2.1
102	1227.0	2	0.239	2.1
108	1229.1	2	0.229	2.1
114	1230.1	2	0.220	1.0
120	1231.2	2	0.211	1.1

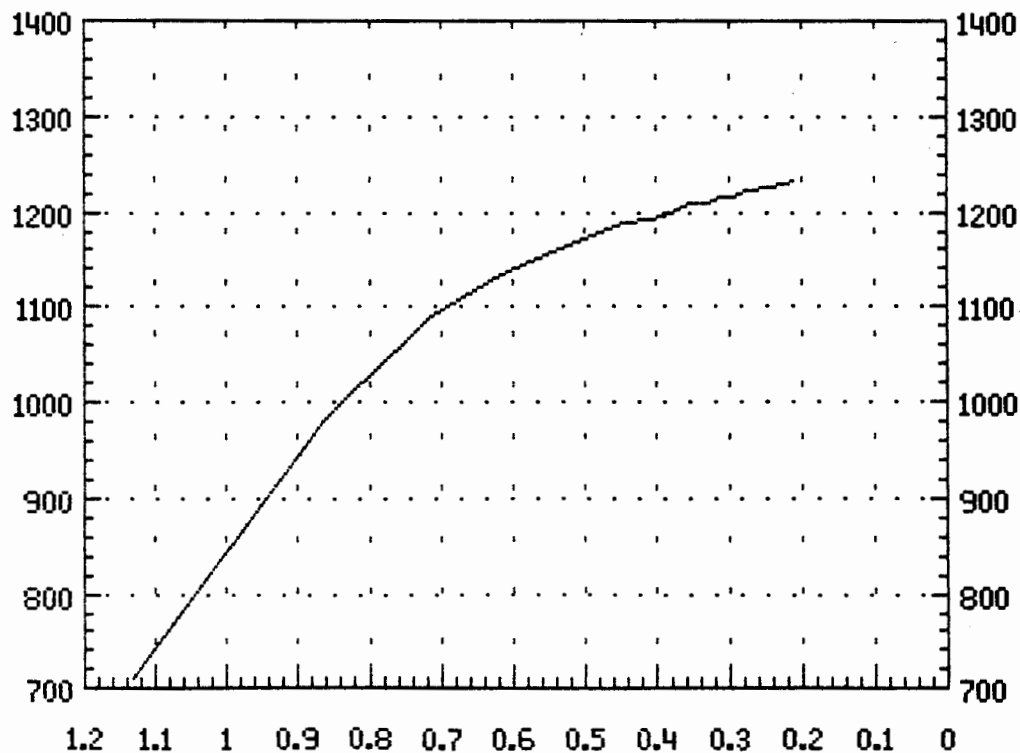
HORNER PLOT

DST #3 FINAL SHUTIN

RECORDER # 5495

PRESSURE

PRESSURE



TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

Nº 2621

Well Name & No.	Garden City "A" #1-29	Test No.	3	Date	11-19-90			
Company	Berexo Inc.	Zone Tested	St. Louis					
Address	970 4th Financial Center Wichita KS 67202	Elevation	2915 (KB)					
Co. Rep./Geo.	Charlie Spradlin	cont.	Bereda Drly #2	Est. Ft. of Pay	7			
Location: Sec.	29	Twp.	22s	Rge.	33w			
			Co.	Finney	State	KS		
No. of Copies	9	Distribution Sheet	X	Yes	No	Turnkey	Yes	No

Interval Tested	4777 - 4798	Drill Pipe Size	4.5 x H			
Anchor Length	21'	Top Choke — 1"	Bottom Choke — 3/4"			
Top Packer Depth	4772	Hole Size — 77/8"	Rubber Size — 63/4"			
Bottom Packer Depth	4777	Wt. Pipe I.D. — 2.7 Ft. Run	—			
Total Depth	4798	Drill Collar — 2.25 Ft. Run	635'			
Mud Wt.	8.9	lb/gal.	Viscosity	65	Filtrate	6.0
Tool Open @	7:10 pm	Initial Blow	weak blow built to 10 in.			
	ISJ - bled off blow - no blow					
Final Blow	fair blow - bottom of bucket 25 min.					
	FSI - bled off blow - weak blow - built to 8 in.					

Recovery — Total Feet	460'	Flush Tool?	no
Rec.	Feet of	550 GIP	

Rec.	Feet of	
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Rec.	460'	Feet of	Clean gassy oil	50% gas	50% oil
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Rec.	Feet of	
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Rec.	Feet of	
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BHT	121°	°F Gravity	26	°API @	74	°F Corrected Gravity	25	°API
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RW	@	°F Chlorides	ppm Recovery	Chlorides	2000	ppm System
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(A) Initial Hydrostatic Mud	2249	PSI	AK1 Recorder No.	5495	Range	4200
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(B) First Initial Flow Pressure	33	PSI	@ (depth)	4781	w/Clock No.	17640
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(C) First Final Flow Pressure	45	PSI	AK1 Recorder No.	13337	Range	3975
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(D) Initial Shut-In Pressure	1193	PSI	@ (depth)	4795	w/Clock No.	27566
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(E) Second Initial Flow Pressure	67	PSI	AK1 Recorder No.		Range	
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(F) Second Final Flow Pressure	156	PSI	@ (depth)		w/Clock No.	
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(G) Final Shut-In Pressure	1214	PSI	Initial Opening	15	Test	550.00
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(H) Final Hydrostatic Mud	2228	PSI	Initial Shut-In	30	Jars	X 200.00
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Final Flow	60	Safety Joint	X 50.00
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Final Shut-In	120	Straddle	
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Circ. Sub	
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Approved By		Sampler	
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Our Representative	Tom Horvath	Extra Packer	
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Other	
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TOTAL PRICE \$	800.00
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TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No.	GARDEN CITY "A" #1-29	Test No.	4	Date	11/20/90
Company	BEREXCO INC	Zone Tested	ST LOUIS		
Address	970 4TH FINANCIAL CNTR WICHITA KS 67202	Elevation	2915 KB		
Co. Rep./Geo.	MR CHARLIE SPRADLIN	Cont.	BEREDCO DRLG #2	Est. Ft. of Pay	8
Location: Sec.	29	Twp.	22S	Rge.	33W
		Co.	FINNEY	State	KANSAS

Interval Tested	4801-4826	Drill Pipe Size	4.5" XH			
Anchor Length	25	Top Choke — 1"	Bottom Choke — ¾"			
Top Packer Depth	4796	Hole Size — 77/8"	Rubber Size — 63/4"			
Bottom Packer Depth	4801	Wt. Pipe I.D. — 2.7 Ft. Run	0			
Total Depth	4826	Drill Collar — 2.25 Ft. Run	635			
Mud Wt.	8.9	lb/gal.	Viscosity	54	Filtrate	6.4
Tool Open @	1:50 PM	Initial Blow	WEAK BLOW-DIED IN 10 MINUTES			

Final Blow NO BLOW

Recovery — Total Feet	500	Flush Tool?	NO									
Rec.	100	Feet of	DRILLING MUD W/ SPECKS OF OIL									
Rec.	400	Feet of	SALT WATER									
Rec.	0	Feet of										
Rec.	0	Feet of										
Rec.	0	Feet of										
BHT	121	°F	Gravity		°API @	0	°F	Corrected Gravity	0	°API		
RW	.23	@	74	°F	Chlorides	32000	ppm	Recovery	Chlorides	2200	ppm	System
(A) Initial Hydrostatic Mud	2261.2	PSI	AK1 Recorder No.	5495	Range	4200						
(B) First Initial Flow Pressure	34.5	PSI	@ (depth)	4804	w/Clock No.	17640						
(C) First Final Flow Pressure	60.9	PSI	AK1 Recorder No.	13337	Range	3975						
(D) Initial Shut-In Pressure	1225.7	PSI	@ (depth)	4823	w/Clock No.	27566						
(E) Second Initial Flow Pressure	81.4	PSI	AK1 Recorder No.	0	Range	0						
(F) Second Final Flow Pressure	270.8	PSI	@ (depth)	0	w/Clock No.	0						
(G) Final Shut-In Pressure	1230.6	PSI	Initial Opening	15								
(H) Final Hydrostatic Mud	2241.5	PSI	Initial Shut-In	30								
			Final Flow	60								
			Final Shut-In	120								

MR TOM HORACEK

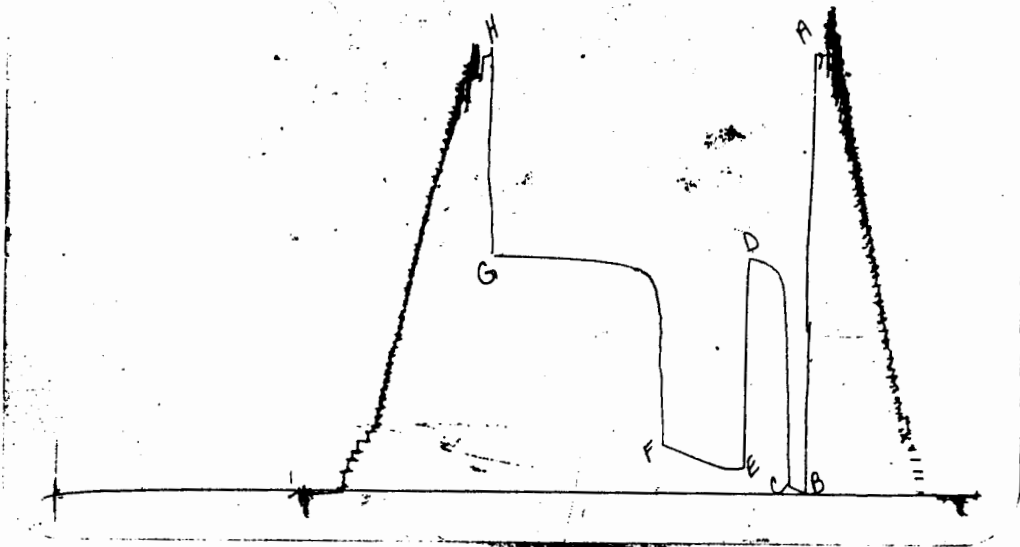
800

Our Representative

TOTAL PRICE \$

DST# 4RECORDER# 13337

~~A-4~~
13337
Garden City 'A'



This is an actual photograph of recorder chart.

PRESSURE

POINT	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2259	2261.2	PSI
(B) First Initial Flow Pressure	33	34.5	PSI
(C) First Final Flow Pressure	56	60.9	PSI
(D) Initial Closed-In Pressure	1224	1225.7	PSI
(E) Second Initial Flow Pressure	78	81.4	PSI
(F) Second Final Flow Pressure	266	270.8	PSI
(G) Final Closed-In Pressure	1224	1230.6	PSI
(H) Final Hydrostatic Mud	2238	2241.5	PSI

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

Nº 2622

Well Name & No.	Garden City "A" 41-29	Test No.	4	Date	11-20-90
Company	Berexo Inc.	Zone Tested	St. Louis		
Address	970 4th Financial Center Wichita, KS 67202	Elevation	2915 (KB)		
Co. Rep. / Geo.	Charlie Spradlin	Cont.	Berexo Dr. #2	Est. Ft. of Pay	8
Location: Sec.	29	Twp.	22S	Rge.	33 W
				Co.	Finnery
				State	Ks.
No. of Copies	9	Distribution Sheet	X Yes	No	Turnkey Yes No

Interval Tested 4801 - 4826 Drill Pipe Size 4.5 x 11
 Anchor Length 25' Top Choke — 1" Bottom Choke — 3/4"
 Top Packer Depth 4796 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Bottom Packer Depth 4801 Wt. Pipe I.D. — 2.7 Ft. Run —
 Total Depth 4826 Drill Collar — 2.25 Ft. Run 635'
 Mud Wt. 8.9 lb/gal. Viscosity 54 Filtrate 6.4
 Tool Open @ 1:50 pm Initial Blow weak blow - died in 10 min.

Final Blow no blow

Recovery — Total Feet 500' Flush Tool? no

Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. 100' Feet of Drly mud w/ specks of oil
 Rec. 400' Feet of salt water
 Rec. _____ Feet of _____

BHT 121° °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW .23 @ 74° °F Chlorides 32000 ppm Recovery Chlorides 2200 ppm System

(A) Initial Hydrostatic Mud 2259 PSI AK1 Recorder No. 5495 Range 4200

(B) First Initial Flow Pressure 33 PSI @ (depth) 4804 w/Clock No. 17640

(C) First Final Flow Pressure 56 PSI AK1 Recorder No. 13337 Range 3925

(D) Initial Shut-In Pressure 1224 PSI @ (depth) 4823 w/Clock No. 27566

(E) Second Initial Flow Pressure 78 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 266 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-In Pressure 1224 PSI Initial Opening 15 Test 550.00

(H) Final Hydrostatic Mud 2238 PSI Initial Shut-In 30 Jars 1 200.00

Final Flow 60 Safety Joint 1 50.00

Final Shut-In 120 Straddle _____

Approved By Chris Smith Circ. Sub _____

Our Representative Tom Horacek Sampler _____

Extra Packer _____

Other _____

TOTAL PRICE \$ 800.00