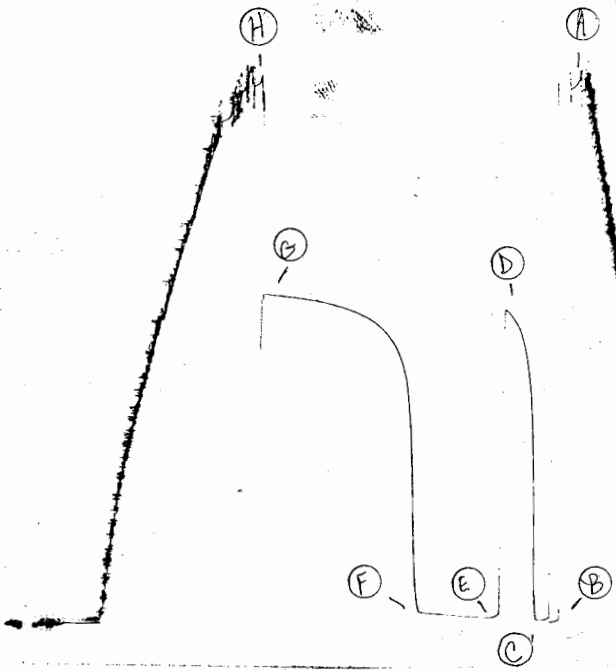


TKT 19986

0

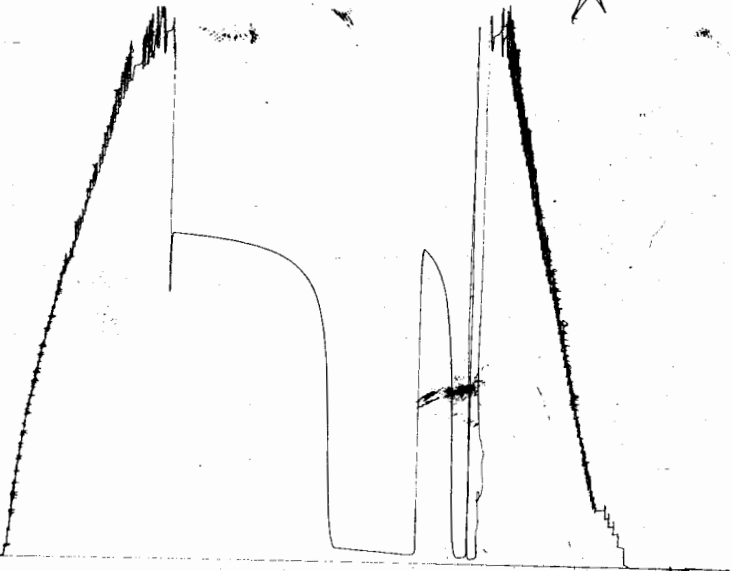
DST#1
13266



TKT 19986

I

DST#1
10242
★





WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET N° 19986

P. O. BOX 1599 PHONE (316) 262-5861 WICHITA, KANSAS 67201

Elevation 3033 Formation Marlow Eff. Pay Ft.

District Hasaton Date 12-26-93 Customer Order No.

COMPANY NAME Berxco Inc

ADDRESS 100 N. Broadway, Suite 970 Wichita KS 67202-2209

LEASE AND WELL NO. Thuron 1-13 COUNTY Stevens STATE KS Sec. 13 Twp. 31 Rge. 30W

Mail Invoice To Co. Name SAME Address SAME No. Copies Requested 145

Mail Charts To Address # 1-13 THURON No. Copies Requested 105

Formation Test No. 1 Interval Tested From 5815 ft. to 5827 ft. Total Depth 5827 ft.

Packer Depth 5810 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Packer Depth 5815 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 5817 ft. Recorder Number 10242 Cap. 4100

Bottom Recorder Depth (Outside) 5820 ft. *Recorder Number 13266 Cap. 4000

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Berxco #2 Drill Collar Length 607 I. D. 2 1/4 in.

Mud Type Chem Viscosity 58 Weight Pipe Length I. D. in.

Weight 9.2 Water Loss 7.2 cc. Drill Pipe Length 5176 I. D. 3-8 in.

Chlorides 1000 P.P.M. Test Tool Length 32 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 415 Anchor Length 12 ft. Size 5 1/2 in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 x 1 1/2 in.

Blow: NO Blow - 10 min INTO WEAR SURFACE IF WEAR SURFACE

Recovered 100 ft. of mud cut WTR 30% mud 70% WTR

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides 30,000 P.P.M. Sample Jars used Remarks: Flush tool 10 min INTO IF. Tot Fl Rec. 100'

READ OUTSIDE CHART

Time On Location 5:00 AM Time Pick Up Tool 8:30 AM Time Off Location AM

Time Set Packer(s) 11:05 PM Time Started Off Bottom 2:50 AM Maximum Temperature 138°

Initial Hydrostatic Pressure (A) 2996 P.S.I.

Initial Flow Period Minutes 15 (B) 35 P.S.I. to (C) 39 P.S.I.

Initial Closed In Period Minutes 30 (D) 1721 P.S.I.

Final Flow Period Minutes 30 (E) 49 P.S.I. to (F) 70 P.S.I.

Final Closed In Period Minutes 60 120 (G) 1779 P.S.I.

Final Hydrostatic Pressure (H) 2989 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [Signature] Signature of Customer or his authorized representative

Western Representative [Signature]

FIELD INVOICE

- Open Hole Test \$
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
Telecopier \$
TOTAL \$

WESTERN TESTING CO., INC.
Pressure Data

Date 12-26-93 Test Ticker No. 19986
 Recorder No. 10242 13260 Capacity _____ Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	2870 2920 P.S.I.			M
B First Initial Flow Pressure	_____ P.S.I.	First Flow Pressure	15 Mins	15 Mins
C First Final Flow Pressure	_____ P.S.I.	Initial Closed-in Pressure	30 Mins	27 Mins
D Initial Closed-in Pressure	_____ P.S.I.	Second Flow Pressure	60 Mins	55 Mins
E Second Initial Flow Pressure	_____ P.S.I.	Final Closed-in Pressure	120 Mins	120 Mins
F Second Final Flow Pressure	_____ P.S.I.			
G Final Closed-in Pressure	_____ P.S.I.			
H Final Hydrostatic Mud	2909 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	51	0	51	0	64	0	83
P 2 5	44	3	157	5	64	3	215
P 3 10	54	6	1210	10	64	6	800
P 4 15	51	9	1396	15	64	9	1109
P 5 20		12	1484	20	66	12	1248
P 6 25		15	1554	25	68	15	1349
P 7 30		18	1597	30	71	18	1409
P 8 35		21	1625	35	74	21	1457
P 9 40		24	1651	40	76	24	1492
P10 45		27	1666	45	78	27	1520
P11 50		30		50	81	30	1542
P12 55		33		55	83	33	1562
P13 60		36		60		36	1580
P14 65		39		65		39	1596
P15 70		42		70		42	1611
P16 75		45		75		45	1619
P17 80		48		80		48	1629
P18 85		51		85		51	1637
P19 90		54		90		54	1645
P20 95		57		95		57	1655
100		60		100		60	1659

WESTERN TESTING CO., INC.
Pressure Data

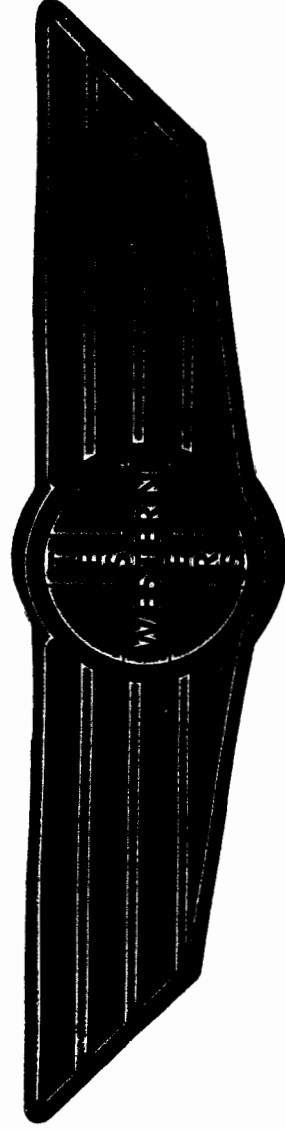
Date: 12-26-93 Test Ticket No. 19986
 Recorder No. 10242 13266 Capacity _____ Location _____ Ft. _____
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud _____	P.S.I.	Open Tool	_____	M _____
B First Initial Flow Pressure _____	P.S.I.	First Flow Pressure	_____	Mins. _____ Mins.
C First Final Flow Pressure _____	P.S.I.	Initial Closed-in Pressure	_____	Mins. _____ Mins.
D Initial Closed-in Pressure _____	P.S.I.	Second Flow Pressure	_____	Mins. _____ Mins.
E Second Initial Flow Pressure _____	P.S.I.	Final Closed-in Pressure	_____	Mins. _____ Mins.
F Second Final Flow Pressure _____	P.S.I.			
G Final Closed-in Pressure _____	P.S.I.			
H Final Hydrostatic Mud _____	P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In		Second Flow Pressure		Final Shut-In		
	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	105		63		105		63	11666
P 2	110		66		110		66	11674
P 3	115		69		115		69	11678
P 4	120		72		120		72	11682
P 5	125		75		125		75	11688
P 6	130		78		130		78	11694
P 7	135		81		135		81	11698
P 8	140		84		140		84	1700
P 9	145		87		145		87	1702
P10	150		90		150		90	1705
P11	155		93		155		93	1708
P12	160		96		160		96	1711
P13	165		99		165		99	1714
P14	170		102		170		102	1716
P15	175		105		175		105	1718
P16	180		108		180		108	1720
P17	185		111		185		111	1722
P18	190		114		190		114	1724
P19	195		117		195		117	1726
P20	200		120		200		120	1728

FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201
P.O. Box 1599 Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE : 12/26/93	TICKET : 19986
CUSTOMER : BEREXCO, INC.	LEASE : THUROW
WELL : #1-13 TEST: 1	GEOLOGIST: GRIEVES
ELEVATION: 3033 KB	FORMATION: MORROW
SECTION : 13	TOWNSHIP : 31S
RANGE : 36W COUNTY: STEVENS	STATE : KS
GAUGE SN#: 13266 RANGE : 4000	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 5815.00 ft	TO: 5827.00 ft	TVD: 5827.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: OIL
DEPTH OF RECORDERS: 5817.0 ft	5820.0 ft	
TEMPERATURE: 138.0		
DRILL COLLAR LENGTH: 607.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH : 0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH : 5176.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 32.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 12.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE : 0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE : 7.875 in	TOOL JOINT SIZE :	4.5XH
PACKER DEPTH: 5810.0 ft	SIZE:	6.630 in
PACKER DEPTH: 5815.0 ft	SIZE:	6.630 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : BEREDCO RIG 2	
MUD TYPE : CHEMICAL	VISCOSITY : 58.00 cp
WEIGHT : 9.200 ppg	WATER LOSS: 7.200 cc
CHLORIDES : 1000 ppm	
JARS-MAKE : WTC	SERIAL NUMBER: 415
DID WELL FLOW?: NO	REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD NO BLOW - FLUSHED TOOL 10
MINUTES INTO FLOW. WEAK SURFACE BLOW.
FINAL FLOW PERIOD WEAK SURFACE BLOW.

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

READ OUTSIDE CHART

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
100.0	0.0	0.0	70.0	30.0	MUD CUT WATER CHLORIDES 30000 PPM
0.0	0.0	0.0	0.0	0.0	

RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	70.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	0.0000 STB/D
MUD VOLUME:	0.1475 STB	AVERAGE WATER RATE:	10.1160 STB/D
WATER VOLUME:	0.3442 STB		
TOTAL FLUID :	0.4917 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2996.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	35.00	39.00
INITIAL SHUT-IN	30.00		1721.00
FINAL FLOW	60.00	49.00	70.00
FINAL SHUT-IN	120.00		1779.00

FINAL HYDROSTATIC PRESSURE: 2989.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2920.00

<u>Description</u>	<u>Duration</u>	<u>p1</u>	<u>p End</u>
INITIAL FLOW	15.00	51.00	51.00
INITIAL SHUT-IN	27.00		1666.00
FINAL FLOW	55.00	64.00	83.00
FINAL SHUT-IN	120.00		1728.00

FINAL HYDROSTATIC PRESSURE: 2909.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 12/26/93	TICKET : 19986
CUSTOMER : BEREXCO, INC.	LEASE : THURLOW
WELL : #1-13 TEST: 1	GEOLOGIST: GRIEVES
ELEVATION: 3033 KB	FORMATION: MORROW
SECTION : 13	TOWNSHIP : 31S
RANGE : 36W COUNTY: STEVENS	STATE : KS
GAUGE SN#: 13266 RANGE : 4000	CLOCK : 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	51.00	51.00
5.00	44.00	-7.00
10.00	54.00	10.00
15.00	51.00	-3.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	757.00	757.00	0.00
6.00	1216.00	459.00	0.00
9.00	1396.00	180.00	0.00
12.00	1484.00	88.00	0.00
15.00	1554.00	70.00	0.00
18.00	1597.00	43.00	0.00
21.00	1625.00	28.00	0.00
24.00	1651.00	26.00	0.00
27.00	1666.00	15.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	64.00	64.00
5.00	64.00	0.00
10.00	64.00	0.00
15.00	64.00	0.00
20.00	66.00	2.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
25.00	68.00	2.00
30.00	71.00	3.00
35.00	74.00	3.00
40.00	76.00	2.00
45.00	78.00	2.00
50.00	81.00	3.00
55.00	83.00	2.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	215.00	215.00	0.00
6.00	800.00	585.00	0.00
9.00	1109.00	309.00	0.00
12.00	1248.00	139.00	0.00
15.00	1349.00	101.00	0.00
18.00	1409.00	60.00	0.00
21.00	1457.00	48.00	0.00
24.00	1492.00	35.00	0.00
27.00	1520.00	28.00	0.00
30.00	1542.00	22.00	0.00
33.00	1562.00	20.00	0.00
36.00	1580.00	18.00	0.00
39.00	1596.00	16.00	0.00
42.00	1611.00	15.00	0.00
45.00	1619.00	8.00	0.00
48.00	1629.00	10.00	0.00
51.00	1637.00	8.00	0.00
54.00	1645.00	8.00	0.00
57.00	1655.00	10.00	0.00
60.00	1659.00	4.00	0.00
63.00	1666.00	7.00	0.00
66.00	1674.00	8.00	0.00
69.00	1678.00	4.00	0.00
72.00	1682.00	4.00	0.00
75.00	1688.00	6.00	0.00
78.00	1694.00	6.00	0.00
81.00	1698.00	4.00	0.00
84.00	1700.00	2.00	0.00
87.00	1702.00	2.00	0.00
90.00	1705.00	3.00	0.00
93.00	1708.00	3.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

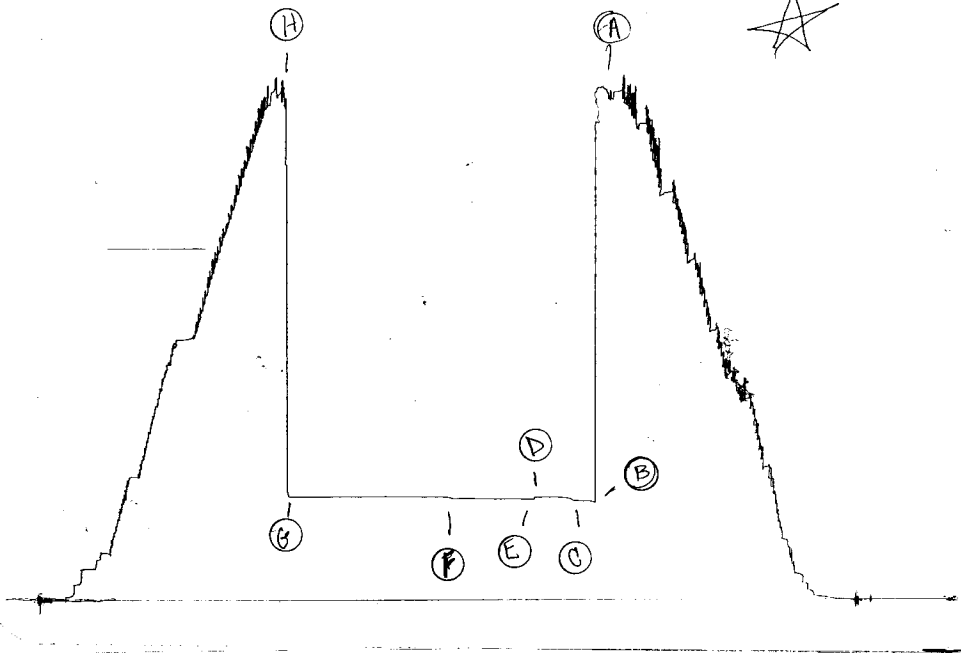
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
96.00	1711.00	3.00	0.00
99.00	1714.00	3.00	0.00
102.00	1716.00	2.00	0.00
105.00	1718.00	2.00	0.00
108.00	1720.00	2.00	0.00
111.00	1722.00	2.00	0.00
114.00	1724.00	2.00	0.00
117.00	1726.00	2.00	0.00
120.00	1728.00	2.00	0.00

TKT 19987

I

DST #2

10242

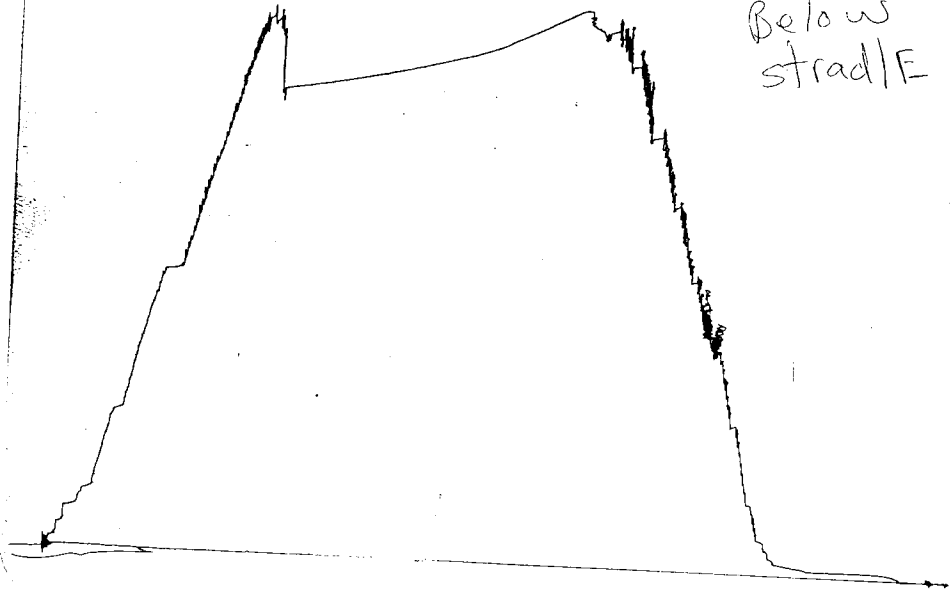


TKT 19987
BELOW STRADDLE

DST #2

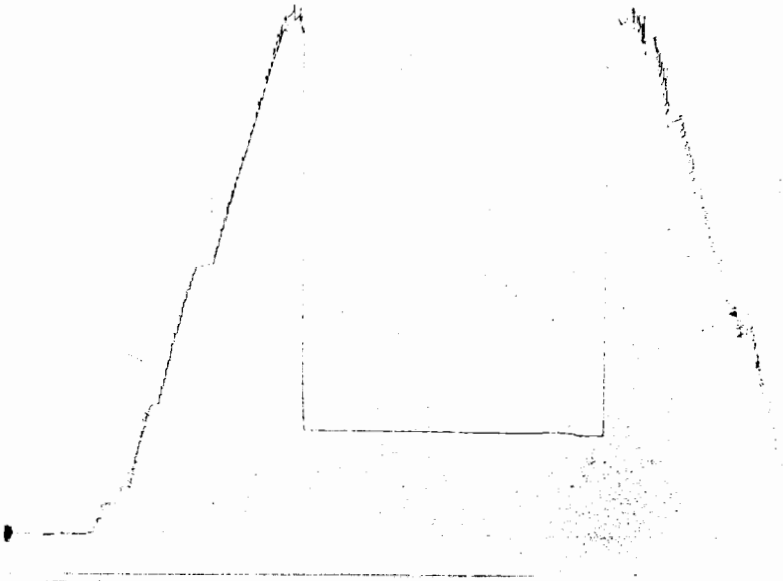
1562

Below
straddle



TKT 19987
0

DST#2
13266





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 19987

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 3033 Formation Upper Morrow Eff. Pay _____ Ft.

District Hucston Date 12-28-93 Customer Order No. _____

COMPANY NAME Berexco Inc.
ADDRESS 100 N. Broadway Suite 970 Wichita KS 67202-2209

LEASE AND WELL NO Thurrow 1-13 COUNTY Stevens STATE Ks Sec 13 Twp 31 Rge 36W

Mail Invoice To SA MF No. Copies Requested Res
Co. Name '' Address ''

Mail Charts To _____ No. Copies Requested Res
Address _____

Formation Test No. 2 Interval Tested From 5466 ft. to 5598 ft. Total Depth 6250 ft.
Packer Depth 5461 ft. Size 6 5/8 in. Packer Depth 5598 ft. Size 6 5/8 in.
Packer Depth 5466 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set 5811
Top Recorder Depth (Inside) 5503 ft. Recorder Number 10242 Cap. 4100
Bottom Recorder Depth (Outside) 5502 ft. Recorder Number 13266 Cap. 4000
Below Straddle Recorder Depth 5603 ft. Recorder Number 1562 Cap. 3900

Drilling Contractor Berexco #2 Drill Collar Length 260 I. D. 2 1/4 in.
Mud Type Chem. Viscosity 64 Weight Pipe Length _____ I. D. _____ in.
Weight 9.3 Water Loss 8.0 cc. Drill Pipe Length 5394 I. D. _____ in.
Chlorides 1000 P.P.M. Test Tool Length 25 ft. Tool Size 5 1/2 in.
Jars: Make WTC Serial Number 415 Anchor Length (95 + 37) 132 ft. Size 6 + 5 1/2 in.
Did Well Flow? yes Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 X H in.

Blow: strong B.O.B 1 m in 60TS 5 min - see flow chart IF
strong B.O.B Immediately - see flow chart . F.F.

Recovered 510 ft. of Gas cut mud 6% gas 94% mud
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Chlorides _____ P.P.M. Sample Jars used _____ Remarks: Collars Perf. Tail pipe = 204.30 + 9.50 = 213.80

Time On Location 9:00 AM Time Pick Up Tool 10:30 AM Time Off Location _____ AM
Time Set Packer(s) 2:25 AM Time Started Off Bottom 6:10 AM Maximum Temperature 132°
Initial Hydrostatic Pressure _____ (A) 2844 P.S.I.
Initial Flow Period _____ Minutes 15 (B) 576 P.S.I. to (C) 588 P.S.I.
Initial Closed In Period _____ Minutes 30 (D) 601 P.S.I.
Final Flow Period _____ Minutes 60 (E) 597 P.S.I. to (F) 599 P.S.I.
Final Closed In Period _____ Minutes 120 (G) 606 P.S.I.
Final Hydrostatic Pressure _____ (H) 2836 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [Signature]
Signature of Customer or his authorized representative

Western Representative [Signature]

FIELD INVOICE

- Open Hole Test \$
- Misrun \$ _____
- Straddle Test \$
- Jars \$
- Selective Zone \$
- Safety Joint \$
- Standby \$ _____
- Evaluation \$ _____
- Extra Packer \$
- Circ. Sub. \$ _____
- Mileage \$ _____
- Fluid Sampler \$ _____
- Extra Charts \$ _____
- Insurance \$ _____
- Telecopier \$ _____
- TOTAL \$ _____



ATTN-DAVID

Nº 1161

GAS FLOW REPORT

Date 12-28-93 Ticket 19987 Company Berexco INC
 Well Name and No. Throw 1-13 Dst No. 2 Interval Tested 5466-5598
 County Stevens State KS Sec. 13 Twp. 31 Rg. 36 W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
PRE FLOW					
					GTS 5mm MCF PD
10	8	1 1/2			1,123,000
15	16	"			1,694,000 catch gas sample

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
SECOND FLOW					
					MCF PD
10	18	1 1/2			1,824,000 mist of condensate
20	20	"			1,949,000 mist of mud
30	24	"			2,200,000 " "
40	"	"			" " " " " "
50	"	"			" " " " " "
60	24	"			2,200,000 " "

GAS BOTTLE

Serial No. _____ Date Bottle Filled 12-28-93 Date to be Invoiced _____

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1 1/2% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Berexco Inc
 Authorized by Jim Brewer

WESTERN TESTING CO., INC.
Pressure Data

Date 12-28-93

Test Ticket No. 19987

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2839</u> P.S.I.	Open Tool	M	
B First Initial Flow Pressure	P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>123</u> Mins.
F Second Final Flow Pressure	P.S.I.			
G Final Closed-in Pressure	P.S.I.			
H Final Hydrostatic Mud	<u>2834</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>586</u>	0	<u>588</u>	0	<u>599</u>	0	<u>599</u>
P 2 5	<u>588</u>	3	<u>600</u>	5		3	<u>601</u>
P 3 10	<u>588</u>	6	<u>604</u>	10		6	<u>603</u>
P 4 15	<u>588</u>	9	<u>606</u>	15	<u>599</u>	9	<u>604</u>
P 5 20		12	<u>606</u>	20		12	<u>605</u>
P 6 25		15	<u>606</u>	25		15	<u>606</u>
P 7 30		18		30	<u>599</u>	18	
P 8 35		21		35		21	
P 9 40		24		40		24	
P10 45		27		45	<u>599</u>	27	
P11 50		30	<u>606</u>	50		30	<u>606</u>
P12 55		33		55		33	
P13 60		36		60	<u>599</u>	36	
P14 65		39		65		39	
P15 70		42		70		42	
P16 75		45		75		45	<u>606</u>
P17 80		48		80		48	
P18 85		51		85		51	
P19 90		54		90		54	
P20 95		57		95		57	
100		60		100		60	<u>606</u>

WESTERN TESTING CO., INC.

Pressure Data

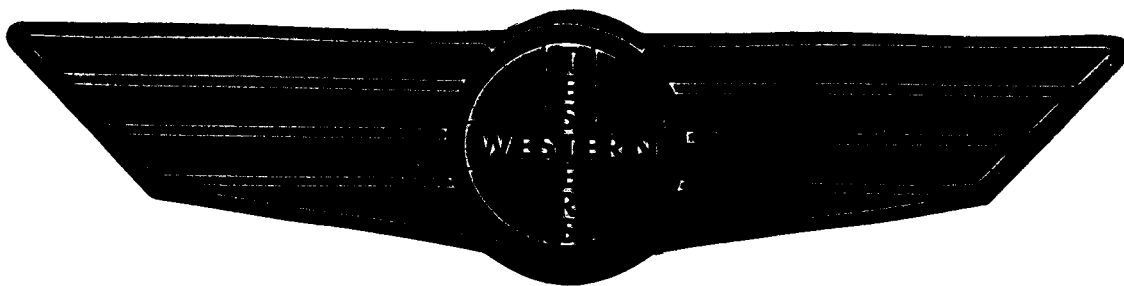
Date _____ Test Ticket No. _____
 Recorder No. _____ Capacity _____ Location _____ Ft. _____
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud _____	P.S.I. _____	_____	_____	M _____
B First Initial Flow Pressure _____	P.S.I. _____	First Flow Pressure _____	_____	Mins. _____ Mins. _____
C First Final Flow Pressure _____	P.S.I. _____	Initial Closed-in Pressure _____	_____	Mins. _____ Mins. _____
D Initial Closed-in Pressure _____	P.S.I. _____	Second Flow Pressure _____	_____	Mins. _____ Mins. _____
E Second Initial Flow Pressure _____	P.S.I. _____	Final Closed-in Pressure _____	_____	Mins. _____ Mins. _____
F Second Final Flow Pressure _____	P.S.I. _____			
G Final Closed-in Pressure _____	P.S.I. _____			
H Final Hydrostatic Mud _____	P.S.I. _____			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown: _____ Inc.	of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc.	of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc.	of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc.	of <u>3</u> mins. and a final inc. of _____ Min.
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1	105	_____	63	_____	105	_____	63	60/6
P 2	110	_____	66	_____	110	_____	66	
P 3	115	_____	69	_____	115	_____	69	
P 4	120	_____	72	_____	120	_____	72	
P 5	125	_____	75	_____	125	_____	75	60/6
P 6	130	_____	78	_____	130	_____	78	
P 7	135	_____	81	_____	135	_____	81	
P 8	140	_____	84	_____	140	_____	84	
P 9	145	_____	87	_____	145	_____	87	
P10	150	_____	90	_____	150	_____	90	60/6
P11	155	_____	93	_____	155	_____	93	
P12	160	_____	96	_____	160	_____	96	
P13	165	_____	99	_____	165	_____	99	
P14	170	_____	102	_____	170	_____	102	
P15	175	_____	105	_____	175	_____	105	60/6
P16	180	_____	108	_____	180	_____	108	
P17	185	_____	111	_____	185	_____	111	
P18	190	_____	114	_____	190	_____	114	
P19	195	_____	117	_____	195	_____	117	
P20	200	_____	120	_____	200	_____	120	60/6
							123	60/6

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 12/28/93	TICKET	: 19987		
CUSTOMER	: BEREXCO, INC.	LEASE	: THUROW		
WELL	: #1-13	TEST: 2	GEOLOGIST: GRIEVES		
ELEVATION:	3033 KB	FORMATION:	UPPER MORROW		
SECTION	: 13	TOWNSHIP	: 31S		
RANGE	: 36W	COUNTY: STEVENS	STATE	: KS	
GAUGE SN#:	10242	RANGE	: 4100	CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	5466.00 ft	TO:	5598.00 ft	TVD:	6250.0 ft
DEPTH OF SELECTIVE ZONE:	5811	TEST TYPE:	GAS		
DEPTH OF RECORDERS:	5505.0 ft		5502.0 ft		
TEMPERATURE:	132.0				
DRILL COLLAR LENGTH:	260.0 ft	I.D.:	2.250 in		
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in		
DRILL PIPE LENGTH :	5394.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	25.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	132.0 ft	ANCHOR SIZE:	5.500 in		
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:	0.750 in		
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :	4.5XH		
PACKER DEPTH:	5461.0 ft	SIZE:	6.630 in		
PACKER DEPTH:	5466.0 ft	SIZE:	6.630 in		
PACKER DEPTH:	5598.0 ft	SIZE:	6.630 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		

MUD INFORMATION

DRILLING CON. :	BEREDCO RIG 2	VISCOSITY :	64.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	8.000 cc
WEIGHT :	9.300 ppg	SERIAL NUMBER:	415
CHLORIDES :	1000 ppm	REVERSED OUT?:	NO
JARS-MAKE :	WTC		
DID WELL FLOW?:	YES		

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW - BOTTOM OF BUCKET
IN 1 MINUTE. GAS TO SURFACE IN 5 MINUTES.
FINAL FLOW PERIOD STRONG BLOW - BOTTOM OF BUCKET

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

IMMEDIATELY. SEE GAS SHEET ATTACHED.
 TAILPIPE 204.3 COLLAR + 9.50 PERF. = 213.8

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
510.0	0.0	6.0	0.0	94.0	GAS CUT MUD

RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	75.0000 min.
GAS VOLUME:	1.6121 SCF	AVERAGE OIL RATE:	0.0000 STB/D
MUD VOLUME:	4.4980 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	4.4980 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2844.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	576.00	588.00
INITIAL SHUT-IN	30.00		601.00
FINAL FLOW	60.00	597.00	599.00
FINAL SHUT-IN	120.00		606.00

FINAL HYDROSTATIC PRESSURE: 2836.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2839.00

<u>Description</u>	<u>Duration</u>	<u>p1</u>	<u>p End</u>
INITIAL FLOW	15.00	586.00	588.00
INITIAL SHUT-IN	30.00		606.00
FINAL FLOW	60.00	599.00	599.00
FINAL SHUT-IN	123.00		606.00

FINAL HYDROSTATIC PRESSURE: 2834.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 12/28/93	TICKET : 19987
CUSTOMER : BEREXCO, INC.	LEASE : THUROW
WELL : #1-13 TEST: 2	GEOLOGIST: GRIEVES
ELEVATION: 3033 KB	FORMATION: UPPER MORROW
SECTION : 13	TOWNSHIP : 31S
RANGE : 36W COUNTY: STEVENS	STATE : KS
GAUGE SN#: 10242 RANGE : 4100	CLOCK : 12

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN	MERLA	1.500	8 PSIG	1123000 SCF/D
15 MIN	MERLA	1.500	16 PSIG	1694000 SCF/D

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN	MERLA	1.500	18 PSIG	1824000 SCF/D
20 MIN	MERLA	1.500	20 PSIG	1949000 SCF/D
30 MIN	MERLA	1.500	24 PSIG	2200000 SCF/D
40 MIN	MERLA	1.500	24 PSIG	2200000 SCF/D
50 MIN	MERLA	1.500	24 PSIG	2200000 SCF/D
60 MIN	MERLA	1.500	24 PSIG	2200000 SCF/D

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 12/28/93	TICKET	: 19987
CUSTOMER	: BEREXCO, INC.	LEASE	: THUROW
WELL	: #1-13	TEST:	2
ELEVATION:	3033 KB	GEOLOGIST:	GRIEVES
SECTION	: 13	FORMATION:	UPPER MORROW
RANGE	: 36W	TOWNSHIP	: 31S
GAUGE SN#:	10242	STATE	: KS
		CLOCK	: 12
		COUNTY:	STEVENS
		RANGE	: 4100

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	586.00	586.00
5.00	588.00	2.00
10.00	588.00	0.00
15.00	588.00	0.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	600.00	600.00	6.00
6.00	604.00	4.00	3.50
9.00	606.00	2.00	2.67
12.00	606.00	0.00	2.25
15.00	606.00	0.00	2.00
18.00	606.00	0.00	1.83
21.00	606.00	0.00	1.71
24.00	606.00	0.00	1.63
27.00	606.00	0.00	1.56
30.00	606.00	0.00	1.50

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	599.00	599.00
5.00	599.00	0.00
10.00	599.00	0.00
15.00	599.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
20.00	599.00	0.00
25.00	599.00	0.00
30.00	599.00	0.00
35.00	599.00	0.00
40.00	599.00	0.00
45.00	599.00	0.00
50.00	599.00	0.00
55.00	599.00	0.00
60.00	599.00	0.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	601.00	601.00	21.00
6.00	603.00	2.00	11.00
9.00	604.00	1.00	7.67
12.00	605.00	1.00	6.00
15.00	606.00	1.00	5.00
18.00	606.00	0.00	4.33
21.00	606.00	0.00	3.86
24.00	606.00	0.00	3.50
27.00	606.00	0.00	3.22
30.00	606.00	0.00	3.00
33.00	606.00	0.00	2.82
36.00	606.00	0.00	2.67
39.00	606.00	0.00	2.54
42.00	606.00	0.00	2.43
45.00	606.00	0.00	2.33
48.00	606.00	0.00	2.25
51.00	606.00	0.00	2.18
54.00	606.00	0.00	2.11
57.00	606.00	0.00	2.05
60.00	606.00	0.00	2.00
63.00	606.00	0.00	1.95
66.00	606.00	0.00	1.91
69.00	606.00	0.00	1.87
72.00	606.00	0.00	1.83
75.00	606.00	0.00	1.80
78.00	606.00	0.00	1.77
81.00	606.00	0.00	1.74
84.00	606.00	0.00	1.71
87.00	606.00	0.00	1.69

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
90.00	606.00	0.00	1.67
93.00	606.00	0.00	1.65
96.00	606.00	0.00	1.63
99.00	606.00	0.00	1.61
102.00	606.00	0.00	1.59
105.00	606.00	0.00	1.57
108.00	606.00	0.00	1.56
111.00	606.00	0.00	1.54
114.00	606.00	0.00	1.53
117.00	606.00	0.00	1.51
120.00	606.00	0.00	1.50
123.00	606.00	0.00	1.49