

RECEIVED  
KANSAS CORPORATION COMMISSION

ORIGINAL  
KCC

MAY 25 1993

MAY 25

CONFIDENTIAL

CONSERVATION DIVISION  
WICHITA, KS

DRILLSTEM TESTS

Isabelle #1-19

Sec. 19-23S-34W

Finney Co., Kansas

API#15-055-21176

CONFIDENTIAL

DST #1 (4395'-4411')  
15(30)30(60)  
BLOW: Weak blow.  
BLOW: No blow.  
IH: 2211  
IFP: 50/50  
ISIP: 1303  
FFP: 60/60  
FSIP: 1203  
FH: 2112  
T: 108  
REC: 20' mud with few spots of oil in tool.

COPY

DST #2 (4733'-4754')  
15 (30)120(120)  
BLOW: Very weak blow inc to 1.5 inches at end of period.  
BLOW: Weak blow inc to strong (off bottom of bucket in 40 min.).  
IH: 2280  
IFP: 40/40  
ISIP: 500  
FFP: 50/80  
FSIP: 539  
FH: 2270  
T: 116  
REC: 495' gas in pipe + 113' heavily oil cut mud or muddy oil (45% oil, 55% mud).

DST #3 (4789'-4800')  
15(30)120(120)  
BLOW: Weak to 1-1/4".  
BLOW: Weak to strong bottom bucket/45".  
IH: 2290  
IFP: 50/50  
ISIP: 1025  
FFP: 60/80  
FSIP: 1035  
FH: 2280  
T: 119  
REC: 520' gas in pipe + 120' oil cut mud (45% oil, 55% mud)

RELEASED

JUN 2 8 1995

FROM CONFIDENTIAL

TO: BEREXCO INC.  
5101 N. CLASSEN BLVD. STE. 205  
OKLAHOMA CITY, OKLAHOMA 73118

FROM: WESTERN TESTING CO., INC.  
P.O. BOX 1599  
WICHITA, KANSAS 67201-1599

SUBJECT: COPIES OF DRILL STEM TEST MAILED TO INTEREST OWNERS.

DATE: FEBRUARY 4, 1993

WELL NAME & NUMBER: #1-19 ISABELLE

TEST NUMBERS: 1 AND 2

LOCATION: FINNEY COUNTY, KANSAS

COPIES MAILED TO:

BEREXCO INC.  
5101 N. CLASSEN BLVD. STE. 205  
OKLAHOMA CITY, OKLAHOMA 73118  
ATTN: PETE WILSON  
(ORIGINAL & 1 COPY)

BEREXCO, INC.  
970 FOURTH FINANCIAL CENTER  
WICHITA, KANSAS 67202  
(INVOICE & 2 COPIES)

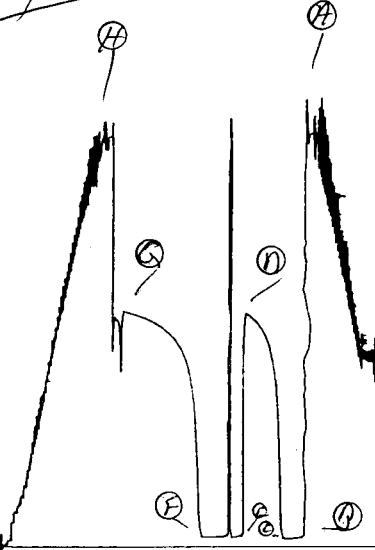
MCCOY PETROLEUM CORPORATION  
110 S. MAIN, SUITE 500  
WICHITA, KANSAS 67202  
ATTN: KEVIN MCCOY  
(2 COPIES)

UNION PACIFIC RESOURCES  
PO BOX 7  
FT WORTH, TEXAS 76101-0007  
ATTN: JERRY DRAKE  
(2 COPIES)

KT 19598

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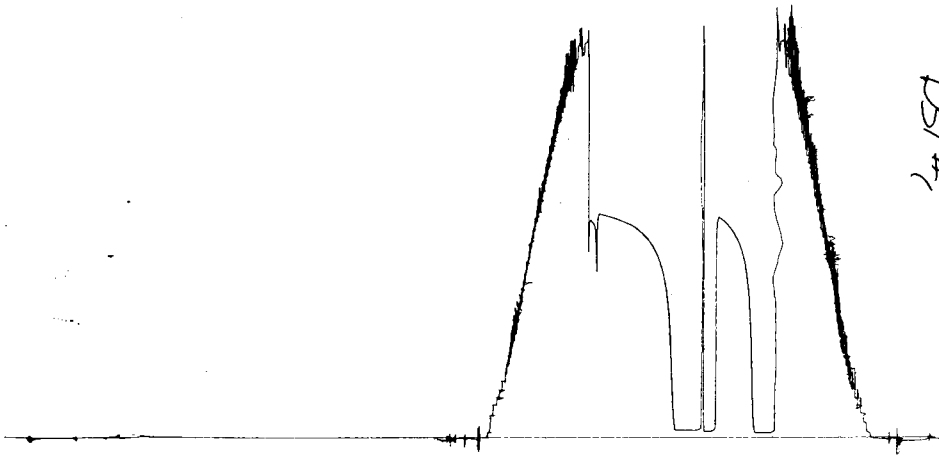


~~★~~ DST# 1562

KA 9598

8

0



DST # 10242

ORIGINAL

*will file*

To: Mr. Robert M. Beren

From: Edwin H. Grieves

Re: DST Lenghts  
BEREXCO INC.  
#1-19 Isabelle  
NW SW NE Sec. 19  
T23S-R34W  
Finney Co., Kansas

API #15-055-21176

COPY

CONFIDENTIAL

RECEIVED  
KANSAS CORPORATION COMMISSION

Spud Date: 1/25/93  
Comp Date: 2/6/93  
Memo Date: 2/7/93

MAY 25 1993

CONSERVATION DIVISION  
WICHITA, KS

DST #1                    16 hrs 9 min  
DST #2                    20 hrs 56 min  
DST #3                    21 hrs 37 min

- x1. One motor down took longer to come out of hole
- 2. Long time intervals on test
- 1. Long time intervals on test
- 2. Time to condition hole and eliminate gas bubble

Thank you,



Edwin H. Grieves

RELEASED

JUN 28 1995

FROM CONFIDENTIAL



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 19398

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

Elevation KB 2990 Formation Pawnee Eff. Pay Ft.

District Garden City Date 1-31-93 Customer Order No.

COMPANY NAME Berexco Inc.

ADDRESS 970 Fourth Financial Center, Wichita Ks, 67202

LEASE AND WELL NO. Isabelle #1 COUNTY Finney STATE KS, Sec. 19 Twp. 23 Rge. 34

Mail Invoice To See Dis. Sheet #1-19 Isabelle No. Copies Requested 8

Mail Charts To Co. Name Address No. Copies Requested 8

Formation Test No. 1 Interval Tested From 4395 ft. to 4411 ft. Total Depth 4411 ft.

Packer Depth 4390 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Packer Depth 4395 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4402 ft. Recorder Number 1562 Cap. 3900

Bottom Recorder Depth (Outside) 4405 ft. Recorder Number 10242 Cap. 4100

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Beredan #1 Drill Collar Length 608 I. D. 2 1/4 in.

Mud Type Chemical Viscosity 52 Weight Pipe Length I. D. in.

Weight 9.0 Water Loss 9.2 cc. Drill Pipe Length 3759 I. D. 3.8 in.

Chlorides 4,000 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 od in.

Jars: Make Serial Number Anchor Length 16 ft. Size 5 1/2 od 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 6 in.

Blow: Weak 3/4" Blow F/ 30 min F.F.P. (Flushed TOOL 10 min Into 2nd open) no Blow

Recovered 20' ft. of Drtg mud

Recovered ft. of

Recovered ft. of FEB 04 1993

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used Remarks (Total Fluid 20')

(Very slight show of oil @ top)

Time On Location 2:00 P.M. Time Pick Up Tool 4:30 P.M. Time Off Location A.M. P.M.

Time Set Packer(s) 5:56 P.M. Time Started Off Bottom 8:11 P.M. Maximum Temperature 108 F

Initial Hydrostatic Pressure (A) 2122 P.S.I.

Initial Flow Period Minutes 15 (B) 50 P.S.I. to (C) 50 P.S.I.

Initial Closed In Period Minutes 30 (D) 1203 P.S.I.

Final Flow Period Minutes 30 (E) 60 P.S.I. to (F) 60 P.S.I.

Final Closed In Period Minutes 60 (G) 1203 P.S.I.

Final Hydrostatic Pressure (H) 2112 P.S.I. 1562

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. Brad Boy Thank you

FIELD INVOICE

Table with 2 columns: Item, Amount. Includes Open Hole Test, Safety Joint, Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, and TOTAL.

# WESTERN TESTING CO., INC.

## Pressure Data

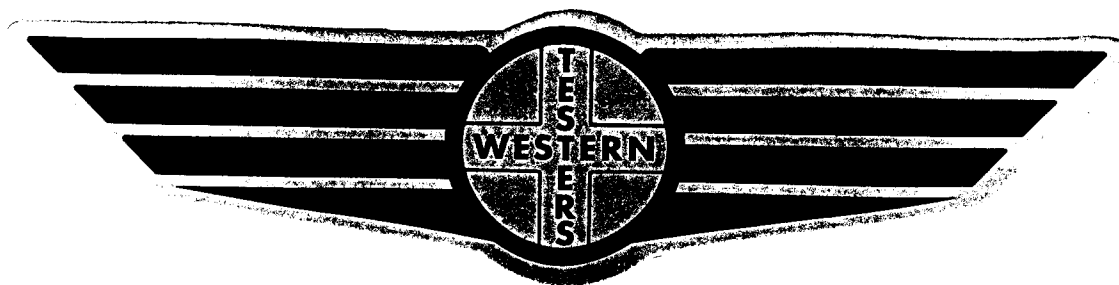
Date 1-31-92 Test Ticket No. 2298  
 Recorder No. 1562 Capacity \_\_\_\_\_ Location \_\_\_\_\_ Ft. \_\_\_\_\_  
 Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2117</u>	P.S.I.		M
B First Initial Flow Pressure	<u>46</u>	P.S.I.	Mins. <u>15</u>	Mins.
C First Final Flow Pressure	<u>46</u>	P.S.I.	Mins. <u>30</u>	Mins.
D Initial Closed-in Pressure	<u>1195</u>	P.S.I.	Mins. <u>20</u>	Mins.
E Second Initial Flow Pressure	<u>60</u>	P.S.I.	Mins. <u>20</u>	Mins.
F Second Final Flow Pressure	<u>51</u>	P.S.I.		
G Final Closed-in Pressure	<u>1204</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2098</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>46</u>	0	<u>46</u>	0	<u>60</u>	0	<u>51</u>
P 2 5	<u>46</u>	3	<u>51</u>	5	<u>52</u>	3	<u>54</u>
P 3 10	<u>46</u>	6	<u>720</u>	10	<u>57.5</u>	6	<u>601</u>
P 4 15	<u>46</u>	9	<u>920</u>	15	<u>56</u>	9	<u>812</u>
P 5 20		12	<u>1019</u>	20	<u>52</u>	12	<u>917</u>
P 6 25		15	<u>1058</u>	25	<u>51</u>	15	<u>980</u>
P 7 30		18	<u>1113</u>	30	<u>51</u>	18	<u>1017</u>
P 8 35		21	<u>1142</u>	35		21	<u>1052</u>
P 9 40		24	<u>1164</u>	40		24	<u>1076</u>
P10 45		27	<u>1182</u>	45		27	<u>1075</u>
P11 50		30	<u>1195</u>	50		30	<u>1116</u>
P12 55		33		55		33	<u>1121</u>
P13 60		36		60		36	<u>1144</u>
P14 65		39		65		39	<u>1154</u>
P15 70		42		70		42	<u>1164</u>
P16 75		45		75		45	<u>1172</u>
P17 80		48		80		48	<u>1182</u>
P18 85		51		85		51	<u>1189</u>
P19 90		54		90		54	<u>1194</u>
P20 95		57		95		57	<u>1199</u>
100		60		100		60	<u>1204</u>

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone **1 - 800 - 688 - 7021**

DST REPORT

GENERAL INFORMATION

DATE : 1/31/93  
CUSTOMER : BEREXCO, INC.  
WELL : 1-19 TEST: 1  
ELEVATION: 2990 KB  
SECTION : 19  
RANGE : 34W COUNTY: FINNEY  
GAUGE SN#: 1562 RANGE : 3900  
TICKET : 19398  
LEASE : ISABELLE  
GEOLOGIST: GRIEVES  
FORMATION: PAWNEE  
TOWNSHIP : 23S  
STATE : KS  
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4395.00 ft TO: 4411.00 ft TVD: 4411.0 ft  
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL  
DEPTH OF RECORDERS: 4402.0 ft 4405.0 ft  
TEMPERATURE: 108.0  
DRILL COLLAR LENGTH: 608.0 ft I.D.: 2.250 in  
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in  
DRILL PIPE LENGTH : 3759.0 ft I.D.: 3.800 in  
TEST TOOL LENGTH : 28.0 ft TOOL SIZE : 5.500 in  
ANCHOR LENGTH : 16.0 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: 4390.0 ft SIZE: 6.630 in  
PACKER DEPTH: 4395.0 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 1  
MUD TYPE : CHEMICAL  
WEIGHT : 9.000 ppg  
CHLORIDES : 4000 ppm  
JARS-MAKE :  
DID WELL FLOW?: NO  
VISCOSITY : 52.00 cp  
WATER LOSS: 9.200 cc  
SERIAL NUMBER:  
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK 3/4 INCH BLOW FOR 30  
MINUTES. FINAL FLOW PERIOD NO BLOW, FLUSHED TOOL  
IN 10 MINUTES, NO BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
20.0	0.0	0.0	0.0	100.0	DRILLING MUD
0.0	0.0	0.0	0.0	0.0	V SLY SHOW OF OIL @ TOOL

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	45.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.0983	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.0983	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2122.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	50.00	50.00
INITIAL SHUT-IN	30.00		1203.00
FINAL FLOW	30.00	60.00	60.00
FINAL SHUT-IN	60.00		1203.00

FINAL HYDROSTATIC PRESSURE: 2112.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2117.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	46.00	46.00
INITIAL SHUT-IN	30.00		1195.00
FINAL FLOW	30.00	60.00	51.00
FINAL SHUT-IN	60.00		1204.00

FINAL HYDROSTATIC PRESSURE: 2098.00

**PRESSURE TRANSIENT REPORT**

**GENERAL INFORMATION**

DATE : 1/31/93	TICKET : 19398
CUSTOMER : BEREXCO, INC.	LEASE : ISABELLE
WELL : 1-19	TEST: 1
ELEVATION: 2990 KB	GEOLOGIST: GRIEVES
SECTION : 19	FORMATION: PAWNEE
RANGE : 34W	TOWNSHIP : 23S
COUNTY: FINNEY	STATE : KS
Gauge SN#: 1562	RANGE : 3900
	CLOCK : 12

**INITIAL FLOW**

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	46.00	46.00
5.00	46.00	0.00
10.00	46.00	0.00
15.00	46.00	0.00

**INITIAL SHUT IN**

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	311.00	311.00	7.67
6.00	770.00	459.00	4.33
9.00	923.00	153.00	3.22
12.00	1019.00	96.00	2.67
15.00	1078.00	59.00	2.33
18.00	1113.00	35.00	2.11
21.00	1142.00	29.00	1.95
24.00	1164.00	22.00	1.83
27.00	1182.00	18.00	1.74
30.00	1195.00	13.00	1.67

**FINAL FLOW**

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	60.00	60.00
5.00	53.00	-7.00
10.00	57.00	4.00
15.00	56.00	-1.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

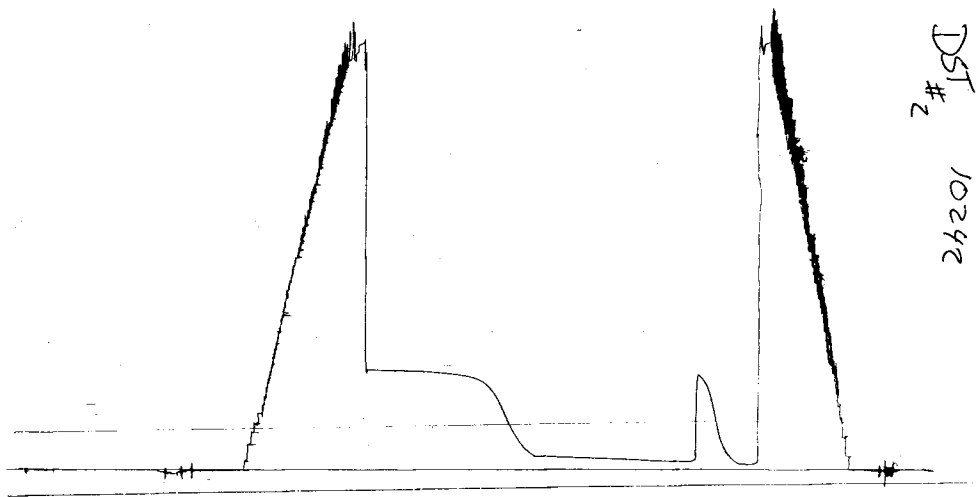
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
20.00	53.00	-3.00
25.00	51.00	-2.00
30.00	51.00	0.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	246.00	246.00	42.67
6.00	601.00	355.00	21.83
9.00	813.00	212.00	14.89
12.00	917.00	104.00	11.42
15.00	980.00	63.00	9.33
18.00	1017.00	37.00	7.94
21.00	1052.00	35.00	6.95
24.00	1076.00	24.00	6.21
27.00	1095.00	19.00	5.63
30.00	1116.00	21.00	5.17
33.00	1131.00	15.00	4.79
36.00	1144.00	13.00	4.47
39.00	1154.00	10.00	4.21
42.00	1164.00	10.00	3.98
45.00	1172.00	8.00	3.78
48.00	1183.00	11.00	3.60
51.00	1189.00	6.00	3.45
54.00	1194.00	5.00	3.31
57.00	1199.00	5.00	3.19
60.00	1204.00	5.00	3.08

KT 19299  
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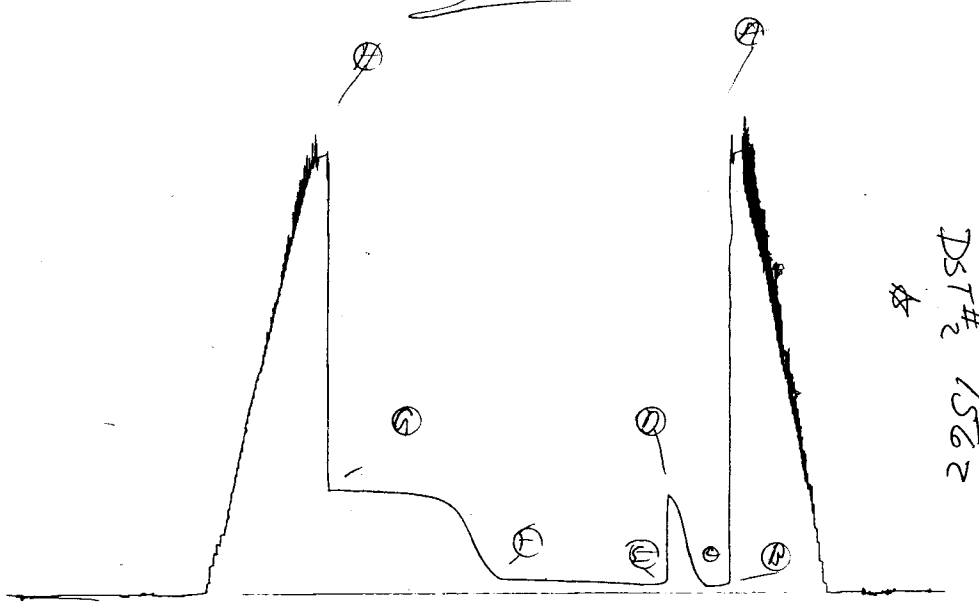
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DST #<sub>2</sub> 10242

KT 19299

8



DST #<sub>2</sub> 1562



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

No 19399

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

Elevation KB 2990 Formation Morrow Eff. Pay Ft.

District Garden City Date 2-2-93 Customer Order No.

COMPANY NAME Berexco Inc.

ADDRESS 970 Fourth Financial Center, Wichita Ks, 67202

LEASE AND WELL NO. Isabelle COUNTY Finney STATE KS Sec. 19 Twp. 23 Rge. 34

Mail Invoice To See Dist. Sheet No. Copies Requested 8

Mail Charts To Co. Name #1-19 Isabelle Address No. Copies Requested 8

Formation Test No. 2 Interval Tested From 4733 ft. to 4754 ft. Total Depth 4754 ft.

Packer Depth 4728 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Packer Depth 4733 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4745 ft. Recorder Number 1562 Cap. 3900

Bottom Recorder Depth (Outside) 4748 ft. Recorder Number 10242 Cap. 4100

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Bredex E Drill Collar Length 608 I. D. 2 1/4 in.

Mud Type Chemical Viscosity 46 Weight Pipe Length I. D. in.

Weight 9.5 Water Loss 7.6 cc. Drill Pipe Length 4097 I. D. 3.8 in.

Chlorides 2100 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 od in.

Jars: Make WTC Serial Number 405 Anchor Length 21 ft. Size 5 1/2 od 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: Weak 1 1/2" Blow Fl 15 min I.F.P. Weak to strong Bottom bucket in 40 min F.F.P. (NO Blow Back)

Recovered 495' ft. of gas in pipe

Recovered 113' ft. of mud cut oil 55% mud 45% oil 32 gravity @ 60°F

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used Remarks: (Total Fluid 113')

FEB 04 1993

Time On Location 4:00 AM P.M. Time Pick Up Tool 6:00 AM P.M. Time Off Location AM P.M.

Time Set Packer(s) 8:00 AM P.M. Time Started Off Bottom 12:45 AM P.M. Maximum Temperature 116°F

Initial Hydrostatic Pressure (A) 2280 P.S.I.

Initial Flow Period Minutes 15 (B) 40 P.S.I. to (C) 40 P.S.I.

Initial Closed In Period Minutes 30 (D) 500 P.S.I.

Final Flow Period Minutes 120 (E) 50 P.S.I. to (F) 80 P.S.I.

Final Closed In Period Minutes 120 (G) 539 P.S.I.

Final Hydrostatic Pressure (H) 2270 P.S.I. 1562

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 Brad Boy Thank you

FIELD INVOICE

- Open Hole Test \$1600
Misrun \$
Straddle Test \$
Jars \$225
Selective Zone \$
Safety Joint \$25
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$15
Insurance \$
Telecopier \$
TOTAL \$

DISTRIBUTION SHEET

WELL Isabelle #1-19  
 LOCATION Sec. 19-23S-34W, Finney Co., KS

TELECOPY (ORDER)	TYPED GEOLOGIC REPORTS	MUD LOG PRINTS	DST	ELECTRIC LOG (INC. SAMPLE LOG) PRINTS	COMPANY
Yes (1)	3	3	2	5	BEREXCO INC. 5101 N. Classen Suite 205 Oklahoma City, OK 73118 (405) 848-1165 Fax (405) 842-6539
Yes (3)	2	2	2	3	BEREXCO INC. 970 Fourth Financial Center Wichita, KS 67202 316-265-3311 Fax (316) 265-2994
Yes (4)	2	2	2	2	Union Pacific Resources P. O. Box 7 Fort Worth, TX 76101-0007 Attn: Jerry Drake Phone: 817-877-6747 Fax: 817-877-7309
Yes (2)	2	2	2	6	McCoy Petroleum Corporation 110 South Main, Suite 500 Wichita, KS 67202 Attn: Kevin McCoy Fax (316) 265-8530

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 2-2-52 Test Ticket No. 1959  
 Recorder No. 1562 Capacity \_\_\_\_\_ Location \_\_\_\_\_ Ft.  
 Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2267</u> P.S.I.	Open Tool		M
B First Initial Flow Pressure	<u>41</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>35</u> P.S.I.	Initial Closed-in Pressure	<u>20</u> Mins.	<u>22</u> Mins.
D Initial Closed-in Pressure	<u>508</u> P.S.I.	Second Flow Pressure	<u>140</u> Mins.	<u>140</u> Mins.
E Second Initial Flow Pressure	<u>49</u> P.S.I.	Final Closed-in Pressure	<u>140</u> Mins.	<u>149</u> Mins.
F Second Final Flow Pressure	<u>76</u> P.S.I.			
G Final Closed-in Pressure	<u>539</u> P.S.I.			
H Final Hydrostatic Mud	<u>2256</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>41</u>	0	<u>25</u>	0	<u>49</u>	0	<u>76</u>
P 2 5	<u>41</u>	3	<u>41</u>	5	<u>76</u>	3	<u>82</u>
P 3 10	<u>38</u>	6	<u>62</u>	10	<u>76</u>	6	<u>94</u>
P 4 15	<u>35</u>	9	<u>84</u>	15	<u>76</u>	9	<u>118</u>
P 5 20		12	<u>112</u>	20	<u>49</u>	12	<u>148</u>
P 6 25		15	<u>122</u>	25	<u>50</u>	15	<u>125</u>
P 7 30		18	<u>262</u>	30	<u>51</u>	18	<u>212</u>
P 8 35		21	<u>301</u>	35	<u>52</u>	21	<u>255</u>
P 9 40		24	<u>421</u>	40	<u>54</u>	24	<u>301</u>
P10 45		27	<u>472</u>	45	<u>54</u>	27	<u>347</u>
P11 50		30	<u>498</u>	50	<u>58</u>	30	<u>388</u>
P12 55		33	<u>508</u>	55	<u>59</u>	33	<u>414</u>
P13 60		36		60	<u>100</u>	36	<u>440</u>
P14 65		39		65	<u>61</u>	39	<u>460</u>
P15 70		42		70	<u>62</u>	42	<u>472</u>
P16 75		45		75	<u>64</u>	45	<u>481</u>
P17 80		48		80	<u>66</u>	48	<u>496</u>
P18 85		51		85	<u>68</u>	51	<u>500</u>
P19 90		54		90	<u>70</u>	54	<u>504</u>
P20 95		57		95	<u>71</u>	57	<u>507</u>
100		60		100	<u>72</u>	60	<u>512</u>

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date \_\_\_\_\_

Test Ticket No. 19299

Recorder No. \_\_\_\_\_ Capacity \_\_\_\_\_ Location \_\_\_\_\_ Ft.

Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F

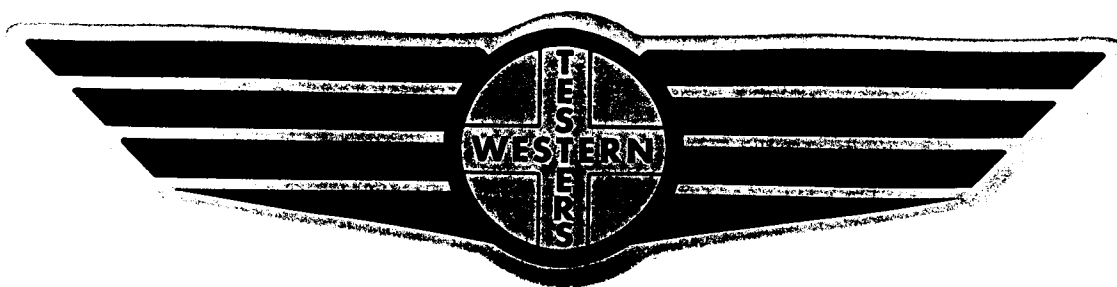
Point	Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud _____ P.S.I.	Open Tool	_____ M	
B	First Initial Flow Pressure _____ P.S.I.	First Flow Pressure	_____ Mins.	_____ Mins.
C	First Final Flow Pressure _____ P.S.I.	Initial Closed-in Pressure	_____ Mins.	_____ Mins.
D	Initial Closed-in Pressure _____ 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.	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.
	Press.	Point Minutes	Press.	Point Minutes
P 1	105	63	105	63
P 2	110	66	110	66
P 3	115	69	115	69
P 4	120	72	120	72
P 5	125	75	125	75
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
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
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

*Handwritten pressure breakdown values:*  
 P1: 72, 517  
 P2: 74, 519  
 P3: 75, 521  
 P4: 76, 522  
 P5: 75, 525  
 P6: 78, 526  
 P7: 82, 527  
 P8: 84, 528  
 P9: 87, 529  
 P10: 89, 530  
 P11: 91, 531  
 P12: 94, 532  
 P13: 97, 533  
 P14: 101, 534  
 P15: 105, 535  
 P16: 109, 536  
 P17: 113, 537  
 P18: 117, 538  
 P19: 121, 539  
 P20: 125, 540

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

DST REPORT

GENERAL INFORMATION

DATE : 2/2/93  
CUSTOMER : BEREXCO, INC.  
WELL : 1-19 TEST: 2  
ELEVATION: 2990 KB  
SECTION : 19  
RANGE : 34W COUNTY: FINNEY  
GAUGE SN#: 1562 RANGE : 3900  
TICKET : 19399  
LEASE : ISABELLE  
GEOLOGIST: GRIEVES  
FORMATION: MORROW  
TOWNSHIP : 23S  
STATE : KS  
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4733.00 ft TO: 4754.00 ft TVD: 4754.0 ft  
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL  
DEPTH OF RECORDERS: 4745.0 ft 4748.0 ft  
TEMPERATURE: 116.0  
DRILL COLLAR LENGTH: 608.0 ft I.D.: 2.250 in  
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in  
DRILL PIPE LENGTH : 4097.0 ft I.D.: 3.800 in  
TEST TOOL LENGTH : 28.0 ft TOOL SIZE : 5.500 in  
ANCHOR LENGTH : 21.0 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: 4728.0 ft SIZE: 6.630 in  
PACKER DEPTH: 4733.0 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 1  
MUD TYPE : CHEMICAL VISCOSITY : 46.00 cp  
WEIGHT : 9.500 ppg WATER LOSS: 7.600 cc  
CHLORIDES : 2100 ppm  
JARS-MAKE : W.T.C. SERIAL NUMBER: 405  
DID WELL FLOW?: NO REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK 1 1/2 INCH BLOW FOR 15  
MINUTES. FINAL FLOW PERIOD WEAK TO A STRONG BLOW,  
BOTTOM OF BUCKET IN 40 MINUTES. NO BLOW BACK.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
113.0	45.0	0.0	0.0	55.0	MUD CUT OIL
0.0	0.0	0.0	0.0	0.0	32 GRAVITY AT 60 DEGREES
0.0	0.0	0.0	0.0	0.0	495' OF GAS ABOVE FLUID

RATE INFORMATION

OIL VOLUME:	0.2501	STB			
GAS VOLUME:	0.0000	SCF			
MUD VOLUME:	0.3056	STB			
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.5557	STB			
			TOTAL FLOW TIME:	135.0000	min.
			AVERAGE OIL RATE:	5.9272	STB/D
			AVERAGE WATER RATE:	0.0000	STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2280.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	40.00	40.00
INITIAL SHUT-IN	30.00		500.00
FINAL FLOW	120.00	50.00	80.00
FINAL SHUT-IN	120.00		539.00

FINAL HYDROSTATIC PRESSURE: 2270.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2267.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	41.00	35.00
INITIAL SHUT-IN	33.00		508.00
FINAL FLOW	120.00	49.00	76.00
FINAL SHUT-IN	129.00		539.00

FINAL HYDROSTATIC PRESSURE: 2256.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 2/2/93	TICKET	: 19399
CUSTOMER	: BEREXCO, INC.	LEASE	: ISABELLE
WELL	: 1-19	TEST: 2	GEOLOGIST: GRIEVES
ELEVATION	: 2990 KB	FORMATION	: MORROW
SECTION	: 19	TOWNSHIP	: 23S
RANGE	: 34W	COUNTY: FINNEY	STATE : KS
GAUGE SN#	: 1562	RANGE : 3900	CLOCK : 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	41.00	41.00
5.00	41.00	0.00
10.00	38.00	-3.00
15.00	35.00	-3.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	41.00	41.00	0.00
6.00	62.00	21.00	0.00
9.00	84.00	22.00	0.00
12.00	127.00	43.00	0.00
15.00	192.00	65.00	0.00
18.00	263.00	71.00	0.00
21.00	361.00	98.00	0.00
24.00	431.00	70.00	0.00
27.00	472.00	41.00	0.00
30.00	498.00	26.00	0.00
33.00	508.00	10.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	49.00	49.00
5.00	49.00	0.00
10.00	49.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
15.00	49.00	0.00
20.00	49.00	0.00
25.00	50.00	1.00
30.00	51.00	1.00
35.00	52.00	1.00
40.00	54.00	2.00
45.00	56.00	2.00
50.00	58.00	2.00
55.00	59.00	1.00
60.00	60.00	1.00
65.00	61.00	1.00
70.00	62.00	1.00
75.00	64.00	2.00
80.00	66.00	2.00
85.00	68.00	2.00
90.00	70.00	2.00
95.00	71.00	1.00
100.00	72.00	1.00
105.00	73.00	1.00
110.00	74.00	1.00
115.00	75.00	1.00
120.00	76.00	1.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	83.00	83.00	0.00
6.00	94.00	11.00	0.00
9.00	118.00	24.00	0.00
12.00	148.00	30.00	0.00
15.00	175.00	27.00	0.00
18.00	213.00	38.00	0.00
21.00	255.00	42.00	0.00
24.00	301.00	46.00	0.00
27.00	347.00	46.00	0.00
30.00	388.00	41.00	0.00
33.00	414.00	26.00	0.00
36.00	440.00	26.00	0.00
39.00	460.00	20.00	0.00
42.00	472.00	12.00	0.00
45.00	481.00	9.00	0.00
48.00	491.00	10.00	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>
51.00	500.00	9.00	0.00
54.00	504.00	4.00	0.00
57.00	507.00	3.00	0.00
60.00	512.00	5.00	0.00
63.00	517.00	5.00	0.00
66.00	519.00	2.00	0.00
69.00	521.00	2.00	0.00
72.00	523.00	2.00	0.00
75.00	525.00	2.00	0.00
78.00	526.00	1.00	0.00
81.00	527.00	1.00	0.00
84.00	528.00	1.00	0.00
87.00	529.00	1.00	0.00
90.00	530.00	1.00	0.00
93.00	531.00	1.00	0.00
96.00	532.00	1.00	0.00
99.00	533.00	1.00	0.00
102.00	534.00	1.00	0.00
105.00	535.00	1.00	0.00
108.00	536.00	1.00	0.00
111.00	537.00	1.00	0.00
114.00	538.00	1.00	0.00
117.00	539.00	1.00	0.00
120.00	539.00	0.00	0.00
123.00	539.00	0.00	0.00
126.00	539.00	0.00	0.00
129.00	539.00	0.00	0.00



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No. 19400

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

Elevation KB 2990 Formation Morrow Eff. Pay Ft.

District Garden City Date 2-3-93 Customer Order No.

COMPANY NAME Berexco Inc.
ADDRESS 970 Fourth Financial Center Wichita KS, 67202
LEASE AND WELL NO. Isabelle #1 COUNTY Finney STATE KS Sec. 19 Twp. 23 Rge. 34
Mail Invoice To "See Dist. sheet." # 1-19 No. Copies Requested
Co. Name " Address Isabelle No. Copies Requested

Formation Test No. 3 Interval Tested From 4789 ft. to 4800 ft. Total Depth 4800 ft.
Packer Depth 4784 ft. Size 6 5/8 in. Packer Depth ft. Size in.
Packer Depth 4789 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Depth of Selective Zone Set
Top Recorder Depth (Inside) 4791 ft. Recorder Number 1562 Cap. 3900
Bottom Recorder Depth (Outside) 4794 ft. Recorder Number 10242 Cap. 4100
Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Berexco Drls #1 Drill Collar Length 608 I. D. 2 1/4 in.
Mud Type Chemical Viscosity 50 Weight Pipe Length I. D. in.
Weight 9.0 Water Loss 6.4 cc. Drill Pipe Length 4153 I. D. 3.8 in.
Chlorides 2,000 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 od in.
Jars: Make 405 WTC Serial Number 405 Anchor Length 11 ft. Size 5 1/2 od in.
Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Weak 1 1/4" Blow Fl 15 min I.F.P.
Weak to strong Blow, Bottom bucket In 45 min. F.F.P. No Blow Back

Recovered 520' ft. of gas in pipe.
Recovered 120' ft. of oil cut mud 55% mud 45% oil 30 gravity @ 60°F
Recovered ft. of
Recovered ft. of
Recovered ft. of
Chlorides P.P.M. Sample Jars used Remarks: (Total Fluid 120') FEB 08 1993

Time On Location 7:00 AM P.M. Time Pick Up Tool 10:30 AM P.M. Time Off Location AM P.M.
Time Set Packer(s) 12:08 AM P.M. Time Started Off Bottom 4:53 AM P.M. Maximum Temperature 119°F
Initial Hydrostatic Pressure (A) 2290 P.S.I.
Initial Flow Period Minutes 15 (B) 50 P.S.I. to (C) 50 P.S.I.
Initial Closed In Period Minutes 30 (D) 1025 P.S.I.
Final Flow Period Minutes 120 (E) 60 P.S.I. to (F) 80 P.S.I.
Final Closed In Period Minutes 120 (G) 1035 P.S.I.
Final Hydrostatic Pressure (H) 2280 P.S.I. 1562

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 Brad Borg Thank you

FIELD INVOICE
Open Hole Test \$ 1100
Misrun \$
Straddle Test \$
Jars \$ 225
Selective Zone \$
Safety Joint \$ 25
Standby \$
Evaluation \$ 50
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$ 15

TO: BEREXCO INC.  
5101 N. CLASSEN BLVD. STE. 205  
OKLAHOMA CITY, OKLAHOMA 73118

FROM: WESTERN TESTING CO., INC.  
P.O. BOX 1599  
WICHITA, KANSAS 67201-1599

SUBJECT: COPIES OF DRILL STEM TEST MAILED TO INTEREST OWNERS.

DATE: FEBRUARY 8, 1993

WELL NAME & NUMBER: #1-19 ISABELLE

TEST NUMBER: 3

LOCATION: FINNEY COUNTY, KANSAS

COPIES MAILED TO:

BEREXCO INC.  
5101 N. CLASSEN BLVD. STE. 205  
OKLAHOMA CITY, OKLAHOMA 73118  
ATTN: PETE WILSON  
(ORIGINAL & 1 COPY)

BEREXCO, INC.  
970 FOURTH FINANCIAL CENTER  
WICHITA, KANSAS 67202  
(INVOICE & 2 COPIES)

MCCOY PETROLEUM CORPORATION  
110 S. MAIN, SUITE 500  
WICHITA, KANSAS 67202  
ATTN: KEVIN MCCOY  
(2 COPIES)

UNION PACIFIC RESOURCES  
PO BOX 7  
FT WORTH, TEXAS 76101-0007  
ATTN: JERRY DRAKE  
(2 COPIES)

PAGE 1  
WESTERN TESTING CO., INC.  
Pressure Data

Order No. 2-4-93      Test Ticket No. 19400  
 Order No. 1562      Capacity 3900      Location 4791  
 Job No. 0010      Elevation KB. 2990      Well Temperature \_\_\_\_\_ °F

<p>Initial Pressure _____</p> <p>Initial Hydrostatic Mod. <del>2290</del> <u>2290</u> P.S.I.</p> <p>First Initial Flow Pressure <u>40</u> P.S.I.</p> <p>First Final Flow Pressure <u>40</u> P.S.I.</p> <p>Initial Chord-to Pressure <u>1021</u> P.S.I.</p> <p>Second Initial Flow Pressure <u>52</u> P.S.I.</p> <p>Second Final Flow Pressure <u>80</u> P.S.I.</p> <p>Final Chord-to Pressure <u>1037</u> P.S.I.</p> <p>Final Hydrostatic Mod. <del>2290</del> <u>2270</u> P.S.I.</p>	<p>Open Tool _____</p> <p>First Flow Pressure <u>15</u> Min. <u>20</u> Min.</p> <p>Initial Chord-to Pressure <u>30</u> Min. <u>30</u> Min.</p> <p>Second Flow Pressure <u>120</u> Min. <u>125</u> Min.</p> <p>Final Chord-to Pressure <u>120</u> Min. <u>123</u> Min.</p>
---	---

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ In.		Breakdown: _____ In.		Breakdown: _____ In.		Breakdown: _____ In.	
of <u>5</u> min. and a		of <u>3</u> min. and a		of <u>5</u> min. and a		of <u>3</u> min. 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 Min.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0 40	0 40	40	0 52	52	0 80	80
P 2	5 40	3 60	60	5 52	52	3 94	94
P 3	10 40	6 90	90	10 54	54	6 110	110
P 4	15 40	9 180	180	15 58	58	9 135	134
P 5	20 40	12 352	352	20 58	58	12 156	156
P 6	25	15 592	591	25 58	58	15 195	196
P 7	30	18 810	807	30 58	58	18 245	246
P 8	35	21 925	922	35 58	58	21 306	306
P 9	40	24 976	972	40 58	58	24 388	388
P 10	45	27 1010	1005	45 58	58	27 484	484
P 11	50	30 1025	1021	50 58	58	30 564	563
P 12	55	33		55 60	60	33 630	628
P 13	60	36		60 60	60	36 <del>648</del> <sup>656</sup>	694
P 14	65	39		65 64	64	39 744	742
P 15	70	42		70 66	66	42 788	785
P 16	75	45		75 66	66	45 822	819
P 17	80	48		80 66	<del>66</del> 66	48 850	847
P 18	85	51		85 68	68	51 870	867
P 19	90	54		90 68	68	54 890	886
P 20	95	57		95 70	70	57 905	900
	100	60		100 70	70	60 920	916

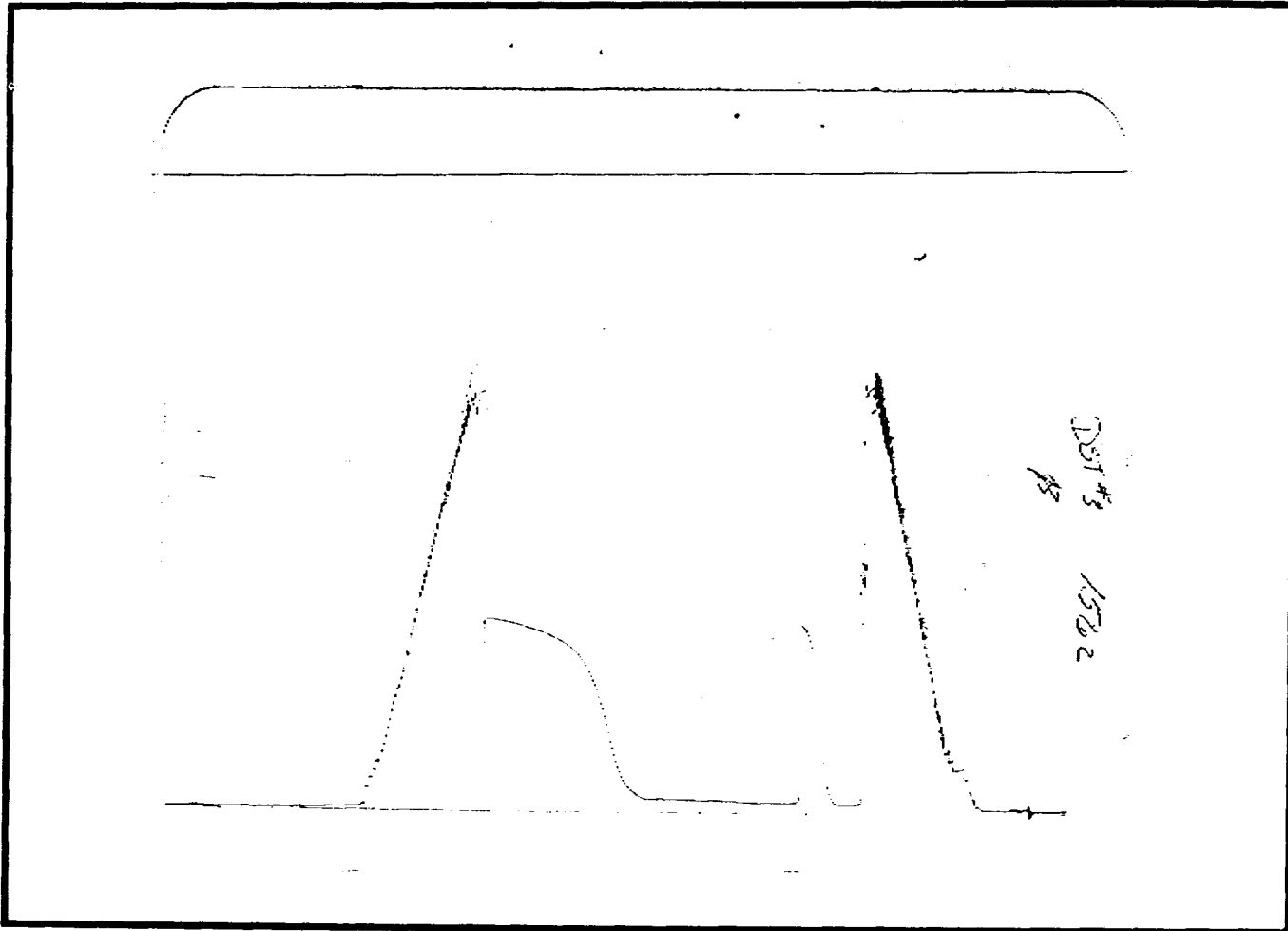
M76E 2  
WESTERN TESTING CO., INC.  
Pressure Data

Date: 2-4-93 Test Ticket No. 19400  
 Recorder No. 1562 Capacity 3900 Location 4791 Ft.  
 Clock No. 0010 Elevation KB 2990 Well Temperature 119°F °F

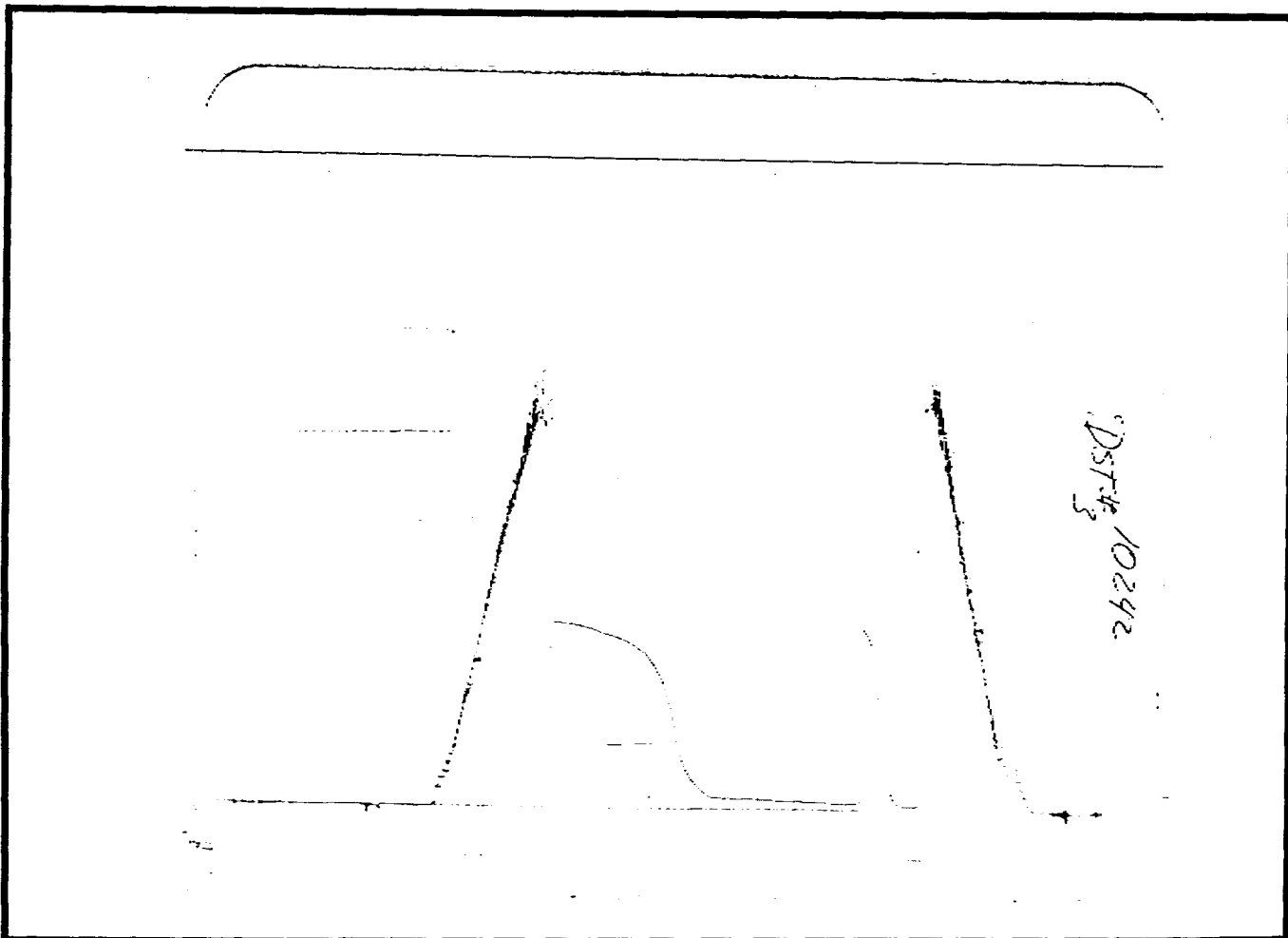
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud <del>2290</del> )	<u>2290</u>	P.S.I.	<u>12:08 AM</u>	<u>4:53 AM</u>
B First Initial Flow Pressure	<u>40</u>	P.S.I.	<u>15</u> Mins.	<u>20</u> Mins.
C First Final Flow Pressure	<u>40</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1021</u>	P.S.I.	<u>120</u> Mins.	<u>125</u> Mins.
E Second Initial Flow Pressure	<u>52</u>	P.S.I.	<u>120</u> Mins.	<u>123</u> Mins.
F Second Final Flow Pressure	<u>80</u>	P.S.I.		
G Final Closed-in Pressure	<u>1037</u>	P.S.I.		
H Final Hydrostatic Mud <del>2290</del> )	<u>2270</u>	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 _____ mins. and a final inc. of _____ Min.
	Press.	Point Minutes	Press.	Point Minutes
P 1	<u>105</u>	<u>63</u>	<u>72</u>	<u>930</u>
P 1/2	<u>110</u>	<u>66</u>	<u>76</u>	<u>940</u>
P 3	<u>115</u>	<u>69</u>	<u>76</u>	<u>950</u>
P 4	<u>120</u>	<u>72</u>	<u>76</u>	<u>958</u>
P 5	<u>125</u>	<u>75</u>	<u>80</u>	<u>964</u>
P 6	<u>130</u>	<u>78</u>	<u>130</u>	<u>970</u>
P 7	<u>135</u>	<u>81</u>	<u>135</u>	<u>980</u>
P 8	<u>140</u>	<u>84</u>	<u>140</u>	<u>986</u>
P 9	<u>145</u>	<u>87</u>	<u>145</u>	<u>992</u>
P 10	<u>150</u>	<u>90</u>	<u>150</u>	<u>1000</u>
P 11	<u>155</u>	<u>93</u>	<u>155</u>	<u>1005</u>
P 12	<u>160</u>	<u>96</u>	<u>160</u>	<u>1010</u>
P 13	<u>165</u>	<u>99</u>	<u>165</u>	<u>1020</u>
P 14	<u>170</u>	<u>102</u>	<u>170</u>	<u>1025</u>
P 15	<u>175</u>	<u>105</u>	<u>175</u>	<u>1025</u>
P 16	<u>180</u>	<u>108</u>	<u>180</u>	<u>1025</u>
P 17	<u>185</u>	<u>111</u>	<u>185</u>	<u>1035</u>
P 18	<u>190</u>	<u>114</u>	<u>190</u>	<u>1035</u>
P 19	<u>195</u>	<u>117</u>	<u>195</u>	<u>1035</u>
P 20	<u>200</u>	<u>120</u>	<u>200</u>	<u>1042</u>
				<u>1037</u>
				<u>1037</u>



Inside Recorder

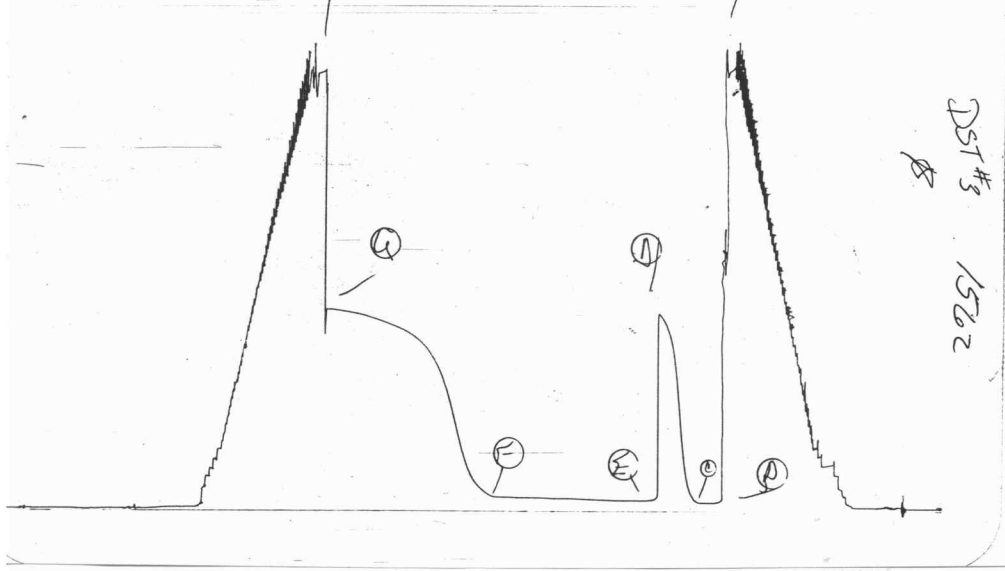


Outside Recorder

KT 19400

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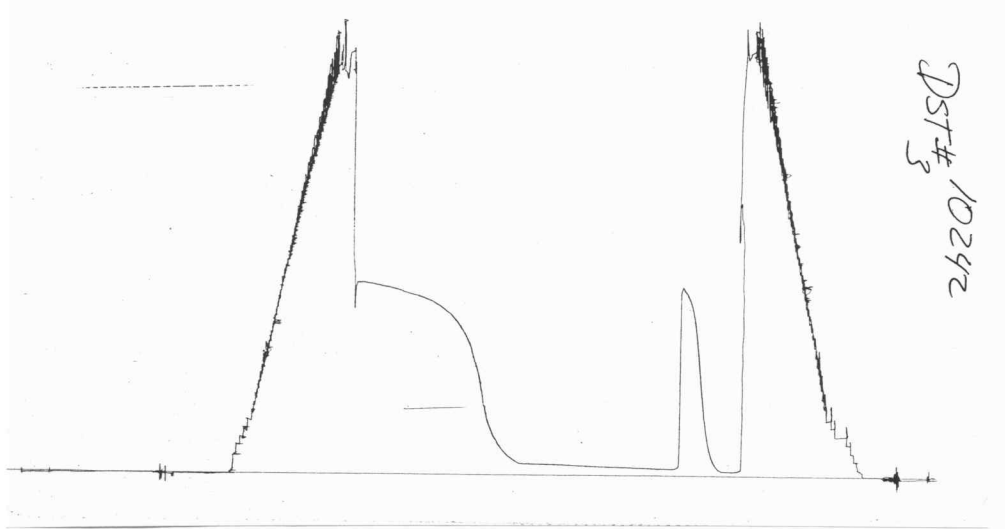


DST# 1522

KT 19400

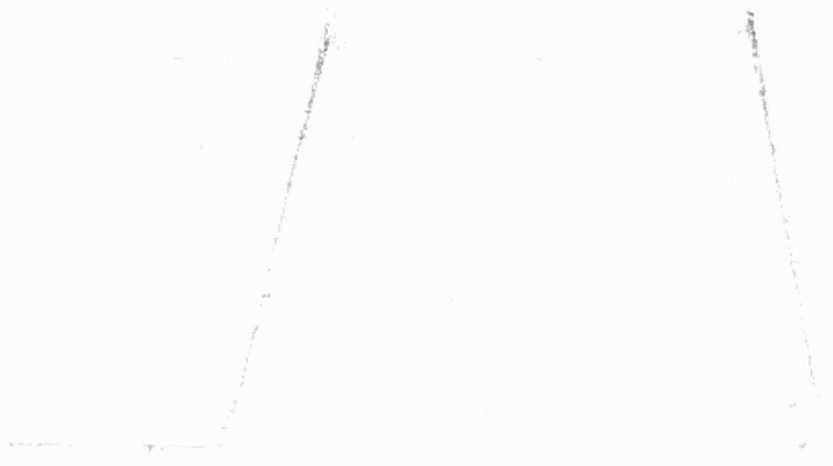
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DST# 10242

DIST# 10242



DIST# 1522



MESSAGE CONFIRMATION  
TRANSMISSION

FEB-04-'93 THU 14:43

TERM ID: WESTERN TESTING  
TEL NO.: 316-262-7096

P-9999

NO.	DATE	ST. TIME	TOTAL TIME	ABBF SBD	ID	DEPT CODE	#PGS
083	02-04	14:37	00:06:32		316 262 2994		OK-11 NG- 0

MESSAGE CONFIRMATION  
TRANSMISSION:

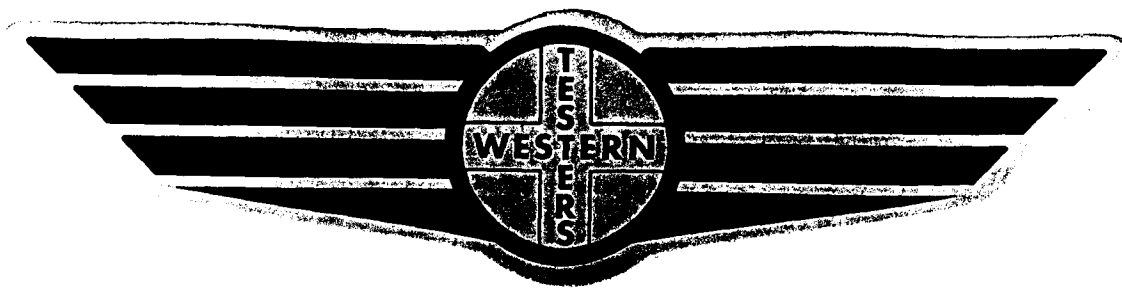
FEB-04-1993 THU 14:53

TERM ID: WESTERN TESTING  
TEL NO.: 316-263-7096

R-9999

NO.	DATE	ST. TIME	TOTAL TIME	ABBP SBD	ID	DEPT CODE	#PGS
084	02-04	14:45	00:06:14		316 263 8530		01-11 16- 0

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone **1 - 800 - 688 - 7021**

COMPANY BEREXCO, INC.

LEASE & WELL NO. #1-19 ISABELLE

SEC. 19 TWP . 23S RGE . 34W TEST NO. 3 DATE

2/3/93



Home Office: Wichita, Kansas 67201  
P.O. Box 1599 (316) 262-5861  
(FAX # 1-316-262-7096)

THIS IS A FAX FROM WESTERN TESTING CO., INC.

ATTENTION: Macy Petroleum Corp.

DRILL STEM TEST # 3

DATE SENT 2/4/03

LEASE & WELL NUMBER #1-19 ISABELLE

COVER SHEET & 10 PAGES

IF YOU DO NOT RECEIVE THIS FAX OR DO NOT GET IT CLEARLY,  
PLEASE CALL US AT 1-316-262-5861 AND WE WILL RESEND IT.

DST REPORT

GENERAL INFORMATION

DATE : 2/3/93  
CUSTOMER : BEREXCO, INC.  
WELL : 1-19 TEST: 3  
ELEVATION: 2990 KB  
SECTION : 19  
RANGE : 34W COUNTY: FINNEY  
GAUGE SN#: 1562 RANGE : 3900  
TICKET : 19400  
LEASE : ISABELLE  
GEOLOGIST: GRIEVES  
FORMATION: MORROW  
TOWNSHIP : 23S  
STATE : KS  
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4789.00 ft TO: 4800.00 ft TVD: 4800.0 ft  
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL  
DEPTH OF RECORDERS: 4791.0 ft 4794.0 ft  
TEMPERATURE: 119.0  
DRILL COLLAR LENGTH: 608.0 ft I.D.: 2.250 in  
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in  
DRILL PIPE LENGTH : 4153.0 ft I.D.: 3.800 in  
TEST TOOL LENGTH : 28.0 ft TOOL SIZE : 5.500 in  
ANCHOR LENGTH : 11.0 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: 4784.0 ft SIZE: 6.630 in  
PACKER DEPTH: 4789.0 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 DRLG RIG 1  
MUD TYPE : CHEMICAL VISCOSITY : 50.00 cp  
WEIGHT : 9.000 ppg WATER LOSS: 6.400 cc  
CHLORIDES : 2000 ppm  
JARS-MAKE : W.T.C. SERIAL NUMBER: 405  
DID WELL FLOW?: NO REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK 1 1/4 INCH BLOW FOR 15  
MINUTES. FINAL FLOW PERIOD WEAK TO A STRONG BLOW,  
BOTTOM OF BUCKET IN 45 MINUTES. NO BLOW BACK.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
120.0	45.0	0.0	0.0	55.0	OIL CUT MUD
0.0	0.0	0.0	0.0	0.0	30 GRAVITY AT 60 DEGREES
0.0	0.0	0.0	0.0	0.0	520' OF GAS ABOVE FLUID

RATE INFORMATION

OIL VOLUME:	0.2655 STB		
GAS VOLUME:	0.0000 SCF	TOTAL FLOW TIME:	145.0000 min.
MUD VOLUME:	0.3246 STB	AVERAGE OIL RATE:	5.8603 STB/D
WATER VOLUME:	0.0000 STB	AVERAGE WATER RATE:	0.0000 STB/D
TOTAL FLUID :	0.5901 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2290.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	50.00	50.00
INITIAL SHUT-IN	30.00		1025.00
FINAL FLOW	120.00	60.00	80.00
FINAL SHUT-IN	120.00		1035.00

FINAL HYDROSTATIC PRESSURE: 2280.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2290.00

Description	Duration	p1	p End
INITIAL FLOW	20.00	40.00	40.00
INITIAL SHUT-IN	30.00		1021.00
FINAL FLOW	125.00	52.00	80.00
FINAL SHUT-IN	123.00		1037.00

FINAL HYDROSTATIC PRESSURE: 2270.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 2/3/93	TICKET : 19400
CUSTOMER : BEREXCO, INC.	LEASE : ISABELLE
WELL : 1-19                      TEST: 3	GEOLOGIST: GRIEVES
ELEVATION: 2990 KB	FORMATION: MORROW
SECTION : 19	TOWNSHIP : 23S
RANGE : 34W                      COUNTY: FINNEY	STATE : KS
GAUGE SN#: 1562                      RANGE : 3900	CLOCK : 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	40.00	40.00
5.00	40.00	0.00
10.00	40.00	0.00
15.00	40.00	0.00
20.00	40.00	0.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	60.00	60.00	7.67
6.00	90.00	30.00	4.33
9.00	180.00	90.00	3.22
12.00	352.00	172.00	2.67
15.00	591.00	239.00	2.33
18.00	807.00	216.00	2.11
21.00	922.00	115.00	1.95
24.00	972.00	50.00	1.83
27.00	1005.00	33.00	1.74
30.00	1021.00	16.00	1.67

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	52.00	52.00
5.00	52.00	0.00
10.00	53.00	1.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
15.00	54.00	1.00
20.00	55.00	1.00
25.00	56.00	1.00
30.00	57.00	1.00
35.00	58.00	1.00
40.00	58.00	0.00
45.00	59.00	1.00
50.00	59.00	0.00
55.00	60.00	1.00
60.00	62.00	2.00
65.00	64.00	2.00
70.00	66.00	2.00
75.00	67.00	1.00
80.00	67.00	0.00
85.00	68.00	1.00
90.00	69.00	1.00
95.00	70.00	1.00
100.00	71.00	1.00
105.00	72.00	1.00
110.00	74.00	2.00
115.00	76.00	2.00
120.00	78.00	2.00
125.00	80.00	2.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	94.00	94.00	42.67
6.00	110.00	16.00	21.83
9.00	134.00	24.00	14.89
12.00	156.00	22.00	11.42
15.00	196.00	40.00	9.33
18.00	246.00	50.00	7.94
21.00	306.00	60.00	6.95
24.00	388.00	82.00	6.21
27.00	484.00	96.00	5.63
30.00	563.00	79.00	5.17
33.00	628.00	65.00	4.79
36.00	694.00	66.00	4.47
39.00	742.00	48.00	4.21
42.00	785.00	43.00	3.98
45.00	819.00	34.00	3.78

5

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

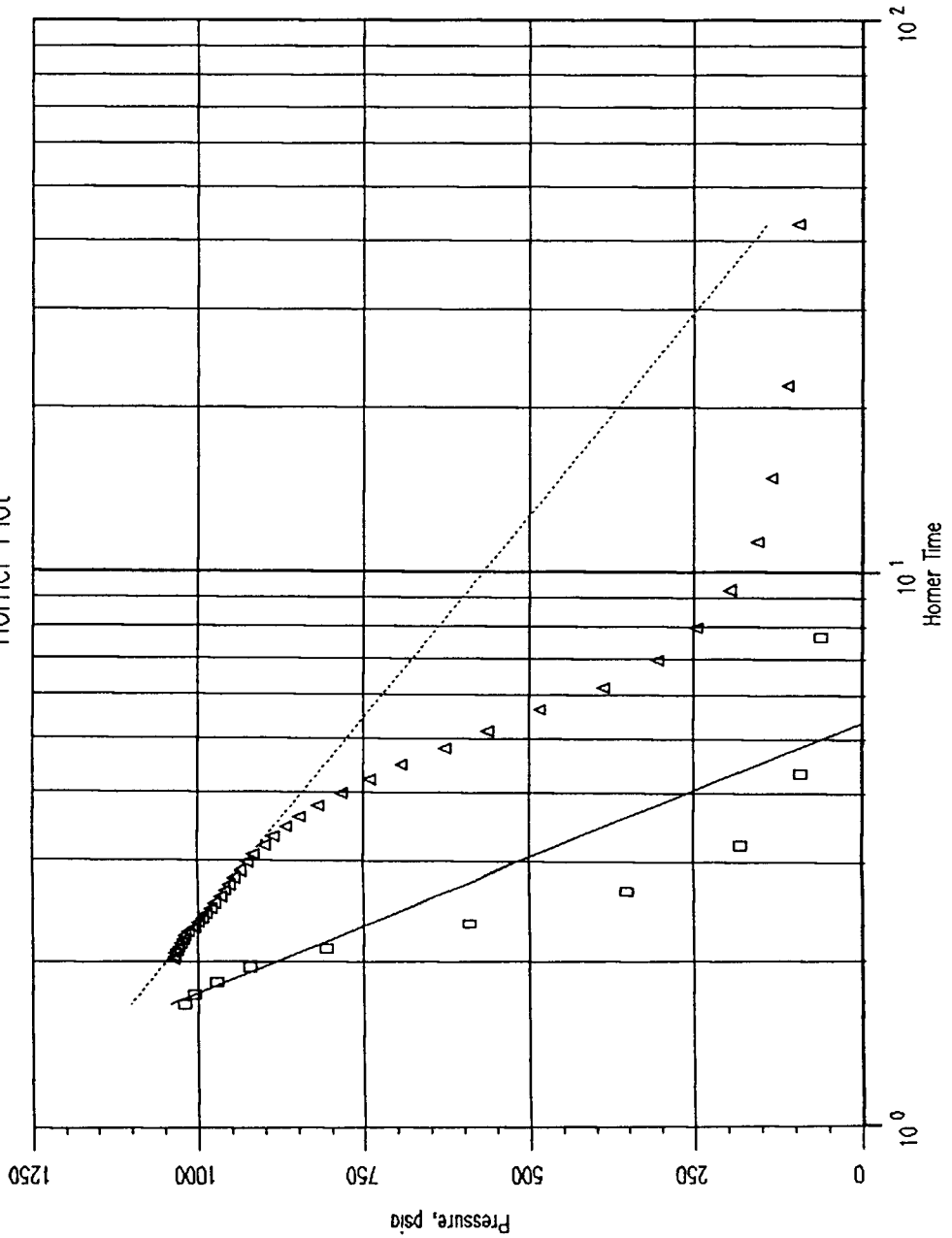
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
48.00	847.00	28.00	3.60
51.00	867.00	20.00	3.45
54.00	886.00	19.00	3.31
57.00	900.00	14.00	3.19
60.00	916.00	16.00	3.08
63.00	926.00	10.00	2.98
66.00	936.00	10.00	2.89
69.00	946.00	10.00	2.81
72.00	954.00	8.00	2.74
75.00	960.00	6.00	2.67
78.00	966.00	6.00	2.60
81.00	976.00	10.00	2.54
84.00	982.00	6.00	2.49
87.00	988.00	6.00	2.44
90.00	994.00	6.00	2.39
93.00	1000.00	6.00	2.34
96.00	1006.00	6.00	2.30
99.00	1015.00	9.00	2.26
102.00	1021.00	6.00	2.23
105.00	1023.00	2.00	2.19
108.00	1026.00	3.00	2.16
111.00	1029.00	3.00	2.13
114.00	1032.00	3.00	2.10
117.00	1035.00	3.00	2.07
120.00	1036.00	1.00	2.04
123.00	1037.00	1.00	2.02

DATE 2/3/93  
 CUSTOMER BEREXCO, INC.  
 WELL 1-19  
 ELEVATION 2990 KB  
 SECTION 19  
 RANGE 34W  
 GAUGE SN# 1562

TEST 3  
 COUNTY FINNEY  
 RANGE 3900

TICKET 19400  
 LEASE ISABELLE  
 GEOLOGIST GRIEVES  
 FORMATION MORROW  
 TOWNSHIP 23S  
 STATE KS  
 CLOCK 12

Horner Plot



Result

	#1	#2
tp, hrs	0.33	2.08
Slope	-2059.53	-681.90
Pstar, psig	1497.72	1251.77
P1hr, psig	1240.41	918.31
Skin	0.38	0.07
k, md	0.09	0.28
kh/u, md-ft/cp	0.55	1.67
ri, ft	0.68	2.95
DR, %	0.68	0.92
Drawdown Factor, %		-1.567
Drawdown P*, %		16.422

— BUILD 1  
 ..... BUILD 2

## HORNER ANALYSIS REPORT

### GENERAL INFORMATION

DATE : 2/3/93	TICKET : 19400
CUSTOMER : BEREXCO, INC.	LEASE : ISABELLE
WELL : 1-19      TEST: 3	GEOLOGIST: GRIEVES
ELEVATION: 2990 KB	FORMATION: MORROW
SECTION : 19	TOWNSHIP : 23S
RANGE : 34W      COUNTY: FINNEY	STATE : KS
GAUGE SN#: 1562      RANGE : 3900	CLOCK : 12

### Input Data

Porosity    0.110      Rw:            0.328 ft      h:            10.000 ft

qo            5.9 STB    GOR            325.0 SCF/STB

#### Pvt Data

Evaluation Pressure : 1021.0

Evaluation Temperature: 119.0

Oil Grav	30.00 API	Gas Grav	1.20 API	Pb	1021.00 PSIA
Bo	1.198 RBL/STB	Vis	1.000 cp	Ct	3.8321E-004 1/PSI

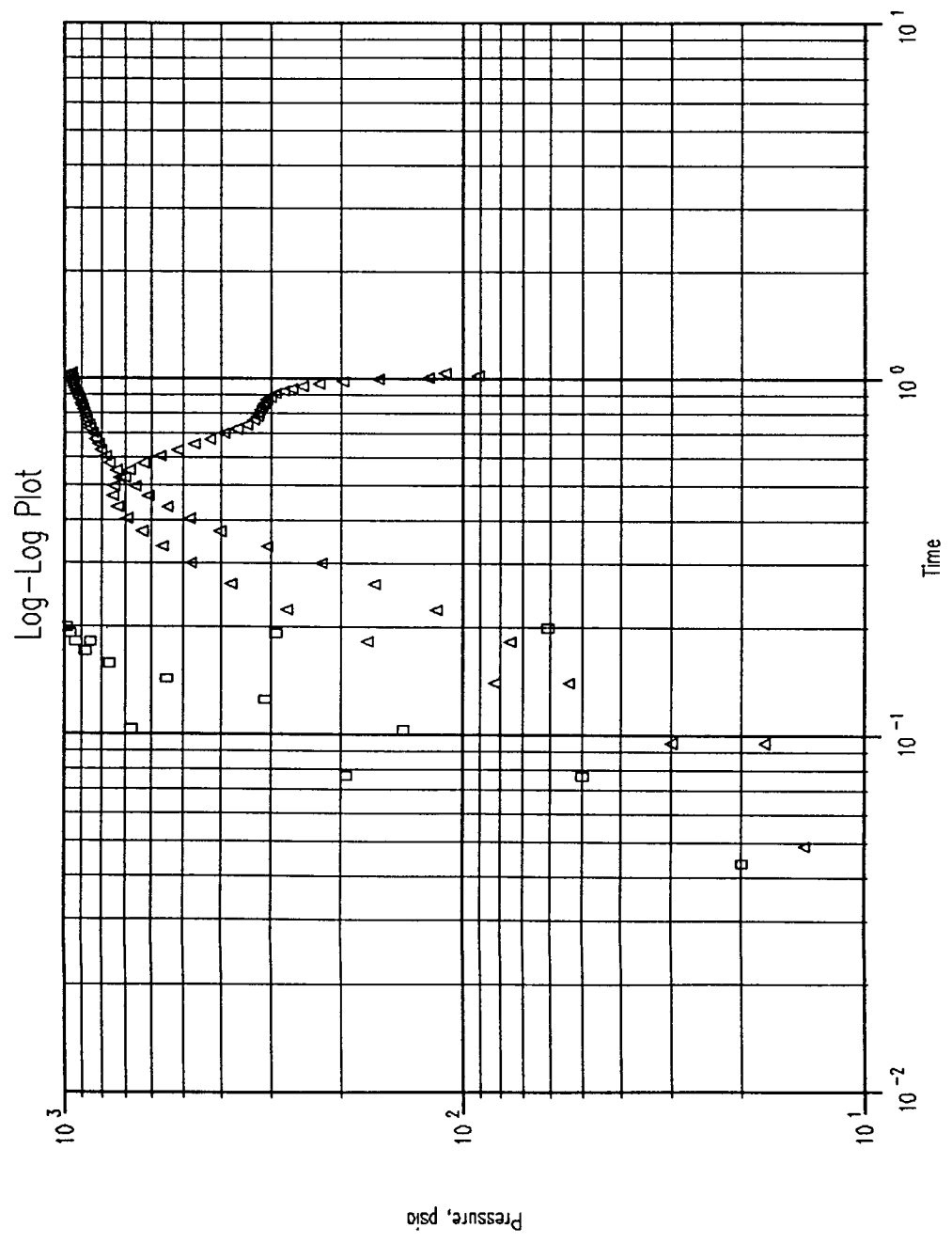
### Horner Results

	Initial Shut-In	Final Shut-In
pseudo pressure time	0.33 hrs	2.08 hrs
slope	-2059.53	-681.90
pstar	1497.72 psig	1251.77 psig
plhr	1240.41 psig	918.31 psig
skin	0.38	0.07
permeability	0.09 md	0.28 md
transmissability	0.55 md-ft/cp	1.67 md-ft/cp
radius of investigation	0.68 ft	2.95 ft
Damage-Ratio	0.68 percent	0.92 percent
Drawdown Factor		-1.567 percent
Drawdown P*		16.422 percent

DATE 2/3/93  
 CUSTOMER BEREXCO, INC.  
 WELL 1-19  
 ELEVATION 2990 KB  
 SECTION 19  
 RANGE 34W  
 GAUGE SN# 1562

TICKET 19400  
 LEASE ISABELLE  
 GEOLOGIST GRIEVES  
 FORMATION MORROW  
 TOWNSHIP 23S  
 STATE KS  
 CLOCK 12

TEST 3  
 COUNTY FINNEY  
 RANGE 3900



# Profile Plot

Total Test

