

ORIGINAL

CONFIDENTIAL

18-13S-14W

LEASE: Holland "B"	WELL: - 4	COUNTY: Russell	STATE: Kansas
PROSPECT:	YEAR:	API#: 15-167-23079	
WELL LOCATION: 50' E W2 SE NW NW		SEC. 28	TWSP 13S RNG 14W
OPERATOR: BEREXCO Inc.		ELEVATION: 1840' GL	1845' KB
CONTRACTOR: Emphasis Oil Operations		ENGINEER: Bruce Meyer	
DEVELOPMENT WELL: YES		PROSPECT TEST WELL: NO	
OWNERSHIP: OKMAR-SKB-RMB (60-20-20)		IDENTIFICATION: 100% W.I.	
SPECIAL:		RIG#: 6	
		SPUD: 5:00 PM, 12/20/93	
		TOOLPUSHER: Larry Langhoffer	

DST # 1- L-KC "C-D" - 3036 - 3055 5(30)60(120)

Initial Blow - very weak build to 6"

Final Blow - very weak build to 10"

Recovery: 200' Salt Water with scum of oil (CI - 160,000 ppm)

Pressures: Field Office

HP 1490 / 1480

FP 75-50 / 75-135

SIP 690 / 655

Temp - 95°F

CI in mud system - 8,000 ppm

DST # 2- L-KC "I & J" - 3154 - 3207 5(60)60(90)

Initial Blow - very weak build to 1"

Final Blow - very weak build to 2"

Recovery: 30' Gas In Pipe

3' Free Oil (40° Gravity at 60°F)

55' OCM (50% Oil, 50% mud)

Pressures: Field Office

HP 1635 / 1625

FP 95-75 / 85-80

SIP 280 / 280

Temp - 95°F

DST # 3 L-KC "K" - 3200 - 3238 5(60)30(60)

Initial Blow - very weak 1/4"

Final Blow - no blow

Recovery: 15' Mud (trace oil spots)

Pressures: Field Office

HP 1635 / 1625

FP 75-50 / 95-65

SIP 355 / 165

Temp - 96°F

DST # 4 Arbuckle - 3249 - 3267 5(60)60(60)

Initial Blow - OBB immediately

Final Blow - OBB immediately

Recovery: 25' Free Oil (35° Gravity at 60°F)

170' OCXW (17% Oil, 83% water)

2,005' XW (CI - 25,000 ppm)

2,200' Total Fluid (2.45% Oil, 97.55% water; overall)

Pressures: Field Office

HP 1675 / 1665

FP 230-260 / 345-990

SIP 1060 / 1070

Temp - 104°F

RELEASED

APR 22 1996

FROM CONFIDENTIAL

RECEIVED
KANSAS CORPORATION COMMISSION

MAR 29 1994

CONSERVATION DIVISION
WICHITA, KS

CONFIDENTIAL

KCC

MAR 28

CONFIDENTIAL

ORIGINAL

CONFIDENTIAL

LEASE: Holland B	WELL: - 4	COUNTY: Russell	STATE: Kansas
PROSPECT:	YEAR:	API#: 15-167-23079	
WELL LOCATION: 50' E W2 SE NW NW	SEC. 28	TWSP 13S	RNG 14W
OPERATOR: BEREXCO Inc.	ELEVATION:	1840' GL	1845' KB
CONTRACTOR: Emphasis Oil Operations	ENGINEER: Bruce Meyer		
DEVELOPMENT WELL: YES	PROSPECT TEST WELL: NO		
OWNERSHIP: OKMAR-SKB-RMB (60-20-20)	IDENTIFICATION: 100% W.I.		
	RIG#: 6		
SPECIAL:	SPUD: 5:00 PM, 12/20/93		
	TOOLPUSHER: Larry Langhoffer		

Tarkio (1st ss.) Sandstone - fine to medium grain, clusters, fair porosity, no show of free oil, no odor, slight show of gas; SHOW TOO POOR TO DST

Topeka (top bench) Limestone - medium crystalline, good show of free oil, faint odor, fair porosity, less than 5% in one sample with this show; TOO FEW PIECES WITH SHOW TO DST (Note: When this zone was drilled, the drill pipe had a hole. Will DST this zone with the "70 foot zone" if the "70 foot zone" warrants testing.)

Plattsmouth Limestone - chalky to crystalline, slightly fossiliferous, very slight show of free oil and fair porosity in less than 10% of one sample, no odor

L-KC A Trace stain

L-KC B Trace stain

L-KC C-D Limestone - crystalline, oolitic, oomoldic porosity, good show of free oil, fair odor (show in 15% of the 3050' sample, decreasing percentages in the circulation samples taken at 3055')

Drilling break from 3039 to 3042

L-KC F No show

Upper L-KC G Limestone - buff, very fine grained crystalline, slightly oolitic, poor porosity, No show of oil, no odor, 5 to 10% with spotty stain

Lower L-KC G Limestone - abundant oomoldic porosity, no show of oil, no odor, trace with spotty stain, 99% barren oomoldic porosity

L-KC H No show of oil, no odor, trace spotty stain

L-KC I Limestone - crystalline, poor porosity, very slight show of free oil, very faint odor, spotty stain, show was in 5% of sample

No drilling break

L-KC J Limestone - white crystalline, fossiliferous, fair porosity, slight show of free oil, light overall stain, faint odor, show in 15% of sample by volume

L-KC K Limestone - white to buff, crystalline, oolitic, fair to poor porosity, scattered variable light to dark stain, slight show of free oil, faint odor, show in 10 to 12% of sample by volume

Slight drilling break

RECEIVED
KANSAS CORPORATION COMMISSION
MAR 29 1994
CONSERVATION DIVISION
WICHITA, KS
APR 22 1996
APR 22 1996

FROM CONFIDENTIAL

KCC

MAR 28

CONFIDENTIAL

ORIGINAL

CONFIDENTIAL

LEASE: Holland "B"	WELL: - 4	COUNTY: Russell	STATE: Kansas
PROSPECT:	YEAR:	API#: 15-167-23079	
WELL LOCATION: 50' E W2 SE NW NW		SEC. 28	TWSP 13S RNG 14W
OPERATOR: BEREXCO Inc.		ELEVATION: 1840' GL	1845' KB
CONTRACTOR: Emphasis Oil Operations		ENGINEER: Bruce Meyer	
DEVELOPMENT WELL: YES		PROSPECT TEST WELL: NO	
OWNERSHIP: OKMAR-SKB-RMB (60-20-20)		IDENTIFICATION: 100% W.I.	
		RIG#: 6	
SPECIAL:		SPUD: 5:00 PM; 12/20/93	
		TOOLPUSHER: Larry Langhoffer	

Arbuckle

Dolomite - white, fine to medium crystalline, poor porosity, very slight show of free oil, very faint odor, show in 10% of sample by volume

Slight drilling break

RECEIVED
KANSAS CORPORATION COMMISSION
MAR 29 1994
CONSERVATION DIVISION
WICHITA, KS

RELEASED

APR 22 1996

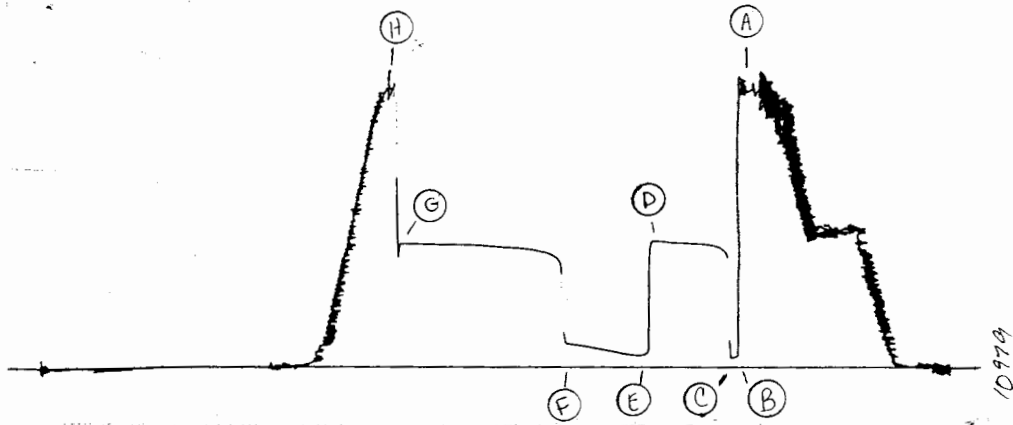
FROM CONFIDENTIAL

KCC

MAR 28

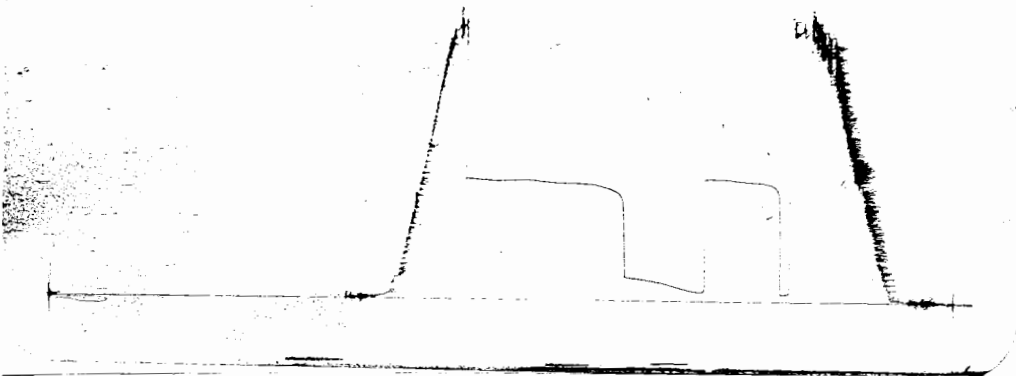
CONFIDENTIAL

TKT 20208
I



TKT 20208
O

3354





WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET N^o 20208P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201Elevation 1855 Ks Formation lansing Eff. Pay _____ Ft.District Augusta Date 12-28-93 Customer Order No. _____COMPANY NAME Bereyco IncADDRESS 100 North Broadway Suite 970 Wichita Ks 67202-2209LEASE AND WELL NO. Holland B #4 COUNTY Russell STATE Ks Sec. 28 Twp. 13 Rge. 14 W

Mail Invoice To _____ No. Copies Requested _____

Co. Name _____ Address #4 HOLLAND B No. Copies Requested _____

Mail Charts To _____ Address _____

Formation Test No. RST #1 Interval Tested From 3036 ft. to 3055 ft. Total Depth 3055 ft.Packer Depth 3031 ft. Size 6 7/8 in. Packer Depth _____ ft. Size _____ in.Packer Depth 3036 ft. Size 6 7/8 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3049 ft. Recorder Number 10999 Cap. 4100Bottom Recorder Depth (Outside) 3052 ft. Recorder Number 3354 Cap. 4200

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor Empress Rig Co Drill Collar Length _____ I. D. _____ in.Mud Type Chen Viscosity 47 Weight Pipe Length _____ I. D. _____ in.Weight 9.2 Water Loss 8.8 cc. Drill Pipe Length 2016 I. D. 3.8 in.Chlorides 8000 P.P.M. Test Tool Length 20 ft. Tool Size 5/200 in.Jars: Make _____ Serial Number _____ Anchor Length 15 ft. Size 5/200 in.Did Well Flow? _____ Reversed Out _____ 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 + H in.Blow: Work below 6' into locust on (FFP) Work below 10' into locust downing to 6' into
on (FFP)Recovered 200 ft. of Salt water with a thumb of oil

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Chlorides 160,000 P.P.M. Sample Jars used _____ Remarks: _____Time On Location 4:00 A.M. Time Pick Up Tool 8:00 A.M. Time Off Location _____ A.M.Time Set Packer(s) 9:00 A.M. Time Started Off Bottom 1:05 A.M. Maximum Temperature 95°FInitial Hydrostatic Pressure _____ (A) 1490 P.S.I.Initial Flow Period _____ Minutes 5 (B) 75 P.S.I. to (C) 50 P.S.I.Initial Closed In Period _____ Minutes 60 (D) 690 P.S.I.Final Flow Period _____ Minutes 60 (E) 75 P.S.I. to (F) 135 P.S.I.Final Closed In Period _____ Minutes 120 (G) 655 P.S.I.Final Hydrostatic Pressure _____ (H) 1480 P.S.I. 10979

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 Dan Shuman
Signature of Customer or his authorized representativeWestern Representative Jeff H. Patten

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 12-28-93

Test Ticket No. 20208

Recorder No. 10979

Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1494</u> P.S.I.	Open Tool	M	
B First Initial Flow Pressure	P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>55</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>1483</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>63</u>	0	<u>53</u>	0	<u>73</u>	0	<u>360</u>
P 2 5	<u>53</u>	3	<u>584</u>	5	<u>73</u>	3	<u>473</u>
P 3 10		6	<u>632</u>	10	<u>78</u>	6	<u>592</u>
P 4 15		9	<u>648</u>	15	<u>83</u>	9	<u>605</u>
P 5 20		12	<u>657</u>	20	<u>94</u>	12	<u>619</u>
P 6 25		15	<u>662</u>	25	<u>100</u>	15	<u>628</u>
P 7 30		18	<u>664</u>	30	<u>106</u>	18	<u>633</u>
P 8 35		21	<u>666</u>	35	<u>111</u>	21	<u>637</u>
P 9 40		24	<u>667</u>	40	<u>120</u>	24	<u>641</u>
P10 45		27	<u>668</u>	45	<u>129</u>	27	<u>645</u>
P11 50		30	<u>669</u>	50	<u>133</u>	30	<u>649</u>
P12 55		33	<u>671</u>	55	<u>136</u>	33	<u>651</u>
P13 60		36	<u>673</u>	60		36	<u>653</u>
P14 65		39	<u>674</u>	65		39	<u>655</u>
P15 70		42	<u>675</u>	70		42	<u>657</u>
P16 75		45	<u>676</u>	75		45	<u>658</u>
P17 80		48	<u>678</u>	80		48	<u>660</u>
P18 85		51	<u>680</u>	85		51	<u>662</u>
P19 90		54	<u>682</u>	90		54	<u>664</u>
P20 95		57	<u>684</u>	95		57	<u>666</u>
100		60	<u>685</u>	100		60	<u>668</u>

WESTERN TESTING CO., INC.

Pressure Data

Date: _____ Test Ticket No. _____

Recorder No. _____ Capacity _____ Location _____ Ft.

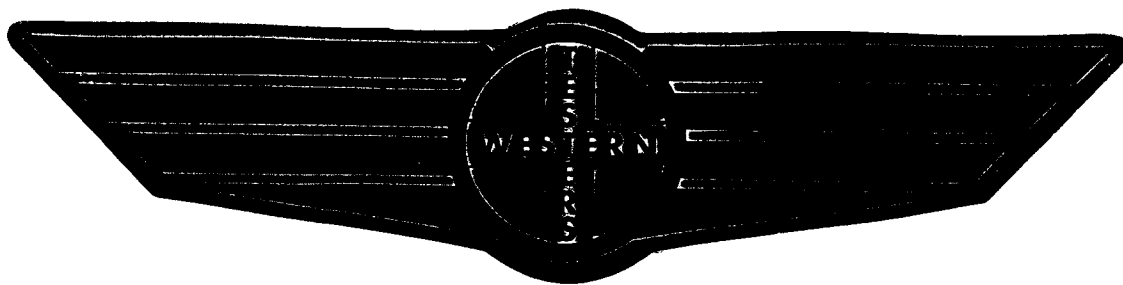
Clock No. _____ Elevation _____ Well Temperature _____ °F

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

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of _____ mins. and a		of _____ mins. and a		of _____ mins. and a		of _____ mins. and a	
final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 105		63		105		63	669
P 2 110		66		110		66	670
P 3 115		69		115		69	671
P 4 120		72		120		72	672
P 5 125		75		125		75	673
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	673
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	673
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	673
						123	673

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	: 20208
CUSTOMER	: BEREXCO, INC.	LEASE	: HOLLAND B
WELL	: #4	TEST: 1	GEOLOGIST: SHUNN ?
ELEVATION	: 1855 KB	FORMATION	: LANSING
SECTION	: 28	TOWNSHIP	: 13S
RANGE	: 14W	COUNTY: RUSSELL	STATE : KS
GAUGE SN#	: 10979	RANGE : 4100	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	3036.00 ft	TO:	3055.00 ft	TVD:	3055.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	3049.0 ft		3052.0 ft		
TEMPERATURE:	95.0				
DRILL COLLAR LENGTH:	0.0 ft	I.D.:		0.000 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	3016.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	19.0 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:	3031.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	3036.0 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. :	EMPHASIS RIG 6	VISCOSITY :	47.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	8.800 cc
WEIGHT :	9.200 ppg	SERIAL NUMBER:	
CHLORIDES :	8000 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW - 6 INCHES INTO
BUCKET. FINAL FLOW PRIOD WEAK BLOW - 10 INCHES
INTO BUCKET DIMINISHING TO 5 INCH BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
200.0	0.0	0.0	100.0	0.0	SALTWATER W/SHOW OF OIL
0.0	0.0	0.0	0.0	0.0	CHLORIDES 160000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000	STB		
GAS VOLUME:	0.0000	SCF		
MUD VOLUME:	0.0000	STB		
WATER VOLUME:	2.8053	STB		
TOTAL FLUID :	2.8053	STB		
			TOTAL FLOW TIME:	60.0000 min.
			AVERAGE OIL RATE:	0.0000 STB/D
			AVERAGE WATER RATE:	67.3265 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1490.00

Description	Duration	p1	p End
INITIAL FLOW	5.00	75.00	50.00
INITIAL SHUT-IN	60.00		690.00
FINAL FLOW	60.00	75.00	135.00
FINAL SHUT-IN	120.00		655.00

FINAL HYDROSTATIC PRESSURE: 1480.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1494.00

Description	Duration	p1	p End
INITIAL FLOW	5.00	63.00	53.00
INITIAL SHUT-IN	60.00		685.00
FINAL FLOW	55.00	73.00	136.00
FINAL SHUT-IN	123.00		673.00

FINAL HYDROSTATIC PRESSURE: 1483.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 12/28/93	TICKET : 20208
CUSTOMER : BEREXCO, INC.	LEASE : HOLLAND B
WELL : #4	GEOLOGIST: SHUNN ?
ELEVATION: 1855 KB	FORMATION: LANSING
SECTION : 28	TOWNSHIP : 13S
RANGE : 14W	STATE : KS
GAUGE SN#: 10979	CLOCK : 12
TEST: 1	
COUNTY: RUSSELL	
RANGE : 4100	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	63.00	63.00
5.00	53.00	-10.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	584.00	584.00	0.00
6.00	632.00	48.00	0.00
9.00	648.00	16.00	0.00
12.00	657.00	9.00	0.00
15.00	662.00	5.00	0.00
18.00	664.00	2.00	0.00
21.00	666.00	2.00	0.00
24.00	667.00	1.00	0.00
27.00	668.00	1.00	0.00
30.00	669.00	1.00	0.00
33.00	671.00	2.00	0.00
36.00	673.00	2.00	0.00
39.00	674.00	1.00	0.00
42.00	675.00	1.00	0.00
45.00	676.00	1.00	0.00
48.00	678.00	2.00	0.00
51.00	680.00	2.00	0.00
54.00	682.00	2.00	0.00
57.00	684.00	2.00	0.00
60.00	685.00	1.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	73.00	73.00
5.00	73.00	0.00
10.00	78.00	5.00
15.00	83.00	5.00
20.00	94.00	11.00
25.00	100.00	6.00
30.00	106.00	6.00
35.00	111.00	5.00
40.00	120.00	9.00
45.00	129.00	9.00
50.00	133.00	4.00
55.00	136.00	3.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	473.00	473.00	0.00
6.00	592.00	119.00	0.00
9.00	605.00	13.00	0.00
12.00	619.00	14.00	0.00
15.00	628.00	9.00	0.00
18.00	633.00	5.00	0.00
21.00	637.00	4.00	0.00
24.00	641.00	4.00	0.00
27.00	645.00	4.00	0.00
30.00	649.00	4.00	0.00
33.00	651.00	2.00	0.00
36.00	653.00	2.00	0.00
39.00	655.00	2.00	0.00
42.00	657.00	2.00	0.00
45.00	658.00	1.00	0.00
48.00	660.00	2.00	0.00
51.00	662.00	2.00	0.00
54.00	664.00	2.00	0.00
57.00	666.00	2.00	0.00
60.00	668.00	2.00	0.00
63.00	669.00	1.00	0.00
66.00	670.00	1.00	0.00
69.00	671.00	1.00	0.00
72.00	672.00	1.00	0.00
75.00	673.00	1.00	0.00
78.00	673.00	0.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

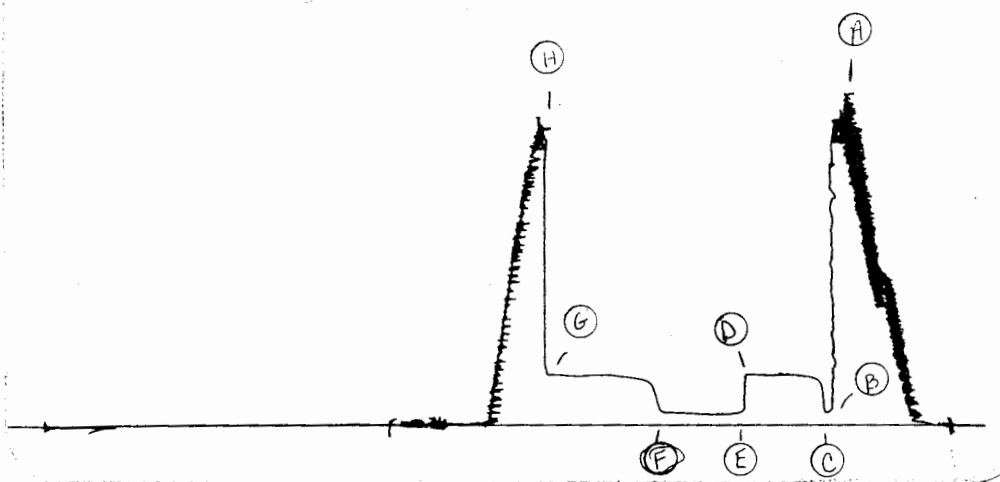
FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
81.00	673.00	0.00	0.00
84.00	673.00	0.00	0.00
87.00	673.00	0.00	0.00
90.00	673.00	0.00	0.00
93.00	673.00	0.00	0.00
96.00	673.00	0.00	0.00
99.00	673.00	0.00	0.00
102.00	673.00	0.00	0.00
105.00	673.00	0.00	0.00
108.00	673.00	0.00	0.00
111.00	673.00	0.00	0.00
114.00	673.00	0.00	0.00
117.00	673.00	0.00	0.00
120.00	673.00	0.00	0.00
123.00	673.00	0.00	0.00

0975

TKI 20209

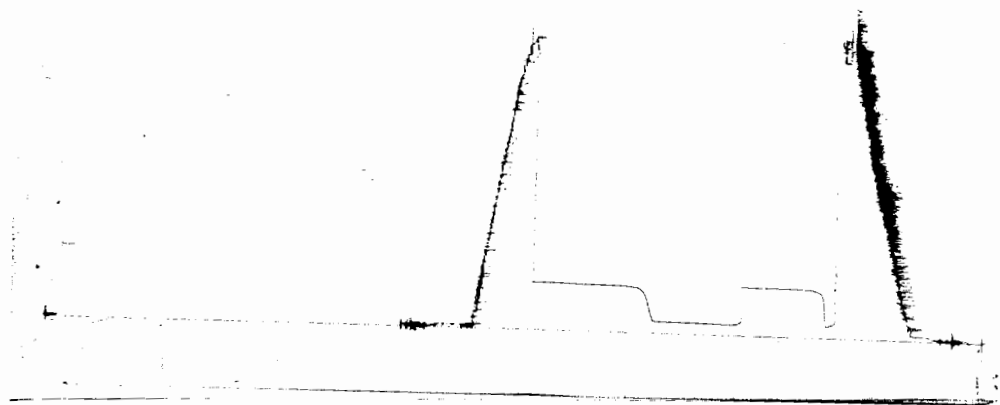
I



3354

TKI 20209

O





WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET N^o 20209P. O. BOX 1599
WICHITA, KANSAS 67201Elevation 1845 HB Formation _____ Eff. Pay _____ Ft.District Augusta Date 12-29-83 Customer Order No. _____COMPANY NAME Burgeo IncADDRESS 100 North Broadway, Suite 770LEASE AND WELL NO. Holland #4 9 1/8" COUNTY Russell STATE KS Sec 28 Twp 13 Rge. 14WMail Invoice To Same No. Copies Requested 1

Co. Name _____ Address _____

Mail Charts To Same No. Copies Requested 5

Address _____

Formation Test No. DST #2 Interval Tested From 3154 ft. to 3207 ft. Total Depth 3207 ft.Packer Depth 3149 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.Packer Depth 3154 ft. Size 6 7/8 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3201 ft. Recorder Number 10979 Cap. 4100Bottom Recorder Depth (Outside) 3204 ft. Recorder Number 3354 Cap. 4200

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor Emporis Ry 7 Drill Collar Length _____ I. D. _____ in.Mud Type Chan Viscosity 47 Weight Pipe Length _____ I. D. _____ in.Weight 9.2 Water Loss 9.6 cc. Drill Pipe Length 3134 I. D. 3.8 in.Chlorides 10,000 P.P.M. Test Tool Length 20 ft. Tool Size 5/3200 in.Jars: Make _____ Serial Number _____ Anchor Length 53-31 1/2 x 1 1/4 Size 5/3200 + 31 1/2 x 1 1/4 in.Did Well Flow? _____ Reversed Out _____ Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.Main Hole Size 7 1/8 in. Tool Joint Size 4 1/2 x 1 1/4 in.Blow: Very Weak Blow 1" into beach at 60 (EFP) Very Weak Blow 2" into beachon (EFP)Recovered 30 ft. of gas in pipeRecovered 55 ft. of Oil Cut mud 50% Oil 50% mudRecovered 3 ft. of free Oil 40% gravel at 60

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Chlorides _____ P.P.M. Sample Jars used 2 Remarks: _____Time On Location 11:00 A.M. Time Pick Up Tool 12:01 A.M. Time Off Location _____ A.M.Time Set Packer(s) 1:00 A.M. Time Started Off Bottom 4:35 A.M. Maximum Temperature 95°Initial Hydrostatic Pressure _____ (A) 1635 P.S.I.Initial Flow Period _____ Minutes 5 (B) 95 P.S.I. to (C) 75 P.S.I.Initial Closed In Period _____ Minutes 60 (D) 280 P.S.I.Final Flow Period _____ Minutes 60 (E) 85 P.S.I. to (F) 280 P.S.I.Final Closed In Period _____ Minutes 90 (G) 85 P.S.I.Final Hydrostatic Pressure _____ (H) 1625 P.S.I. 10979

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 Dan I. Shum
Signature of Customer or his authorized representativeWestern Representative Jeffrey A. Patton

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 12-29-93

Test Ticket No. 20209

Recorder No. 10979

Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud <u>1645</u>	P.S.I.		M
B First Initial Flow Pressure _____	P.S.I.	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure _____	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure _____	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure _____	P.S.I.	<u>90</u> Mins.	<u>87</u> Mins.
F Second Final Flow Pressure _____	P.S.I.		
G Final Closed-in Pressure _____	P.S.I.		
H Final Hydrostatic Mud <u>1590</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 <u>0</u>	<u>95</u>	<u>0</u>	<u>78</u>	<u>0</u>	<u>74</u>	<u>0</u>	<u>74</u>
P 2 <u>5</u>	<u>78</u>	<u>3</u>	<u>224</u>	<u>5</u>	<u>74</u>	<u>3</u>	<u>99</u>
P 3 <u>10</u>		<u>6</u>	<u>256</u>	<u>10</u>	<u>74</u>	<u>6</u>	<u>173</u>
P 4 <u>15</u>		<u>9</u>	<u>265</u>	<u>15</u>	<u>74</u>	<u>9</u>	<u>220</u>
P 5 <u>20</u>		<u>12</u>	<u>271</u>	<u>20</u>	<u>74</u>	<u>12</u>	<u>238</u>
P 6 <u>25</u>		<u>15</u>	<u>273</u>	<u>25</u>	<u>74</u>	<u>15</u>	<u>246</u>
P 7 <u>30</u>		<u>18</u>	<u>275</u>	<u>30</u>	<u>74</u>	<u>18</u>	<u>254</u>
P 8 <u>35</u>		<u>21</u>	<u>276</u>	<u>35</u>	<u>74</u>	<u>21</u>	<u>257</u>
P 9 <u>40</u>		<u>24</u>	<u>277</u>	<u>40</u>	<u>74</u>	<u>24</u>	<u>259</u>
P10 <u>45</u>		<u>27</u>	<u>278</u>	<u>45</u>	<u>74</u>	<u>27</u>	<u>261</u>
P11 <u>50</u>		<u>30</u>	<u>279</u>	<u>50</u>	<u>74</u>	<u>30</u>	<u>263</u>
P12 <u>55</u>		<u>33</u>		<u>55</u>	<u>74</u>	<u>33</u>	<u>265</u>
P13 <u>60</u>		<u>36</u>		<u>60</u>	<u>74</u>	<u>36</u>	<u>267</u>
P14 <u>65</u>		<u>39</u>		<u>65</u>		<u>39</u>	<u>269</u>
P15 <u>70</u>		<u>42</u>		<u>70</u>		<u>42</u>	<u>270</u>
P16 <u>75</u>		<u>45</u>	<u>279</u>	<u>75</u>		<u>45</u>	<u>271</u>
P17 <u>80</u>		<u>48</u>		<u>80</u>		<u>48</u>	
P18 <u>85</u>		<u>51</u>		<u>85</u>		<u>51</u>	
P19 <u>90</u>		<u>54</u>		<u>90</u>		<u>54</u>	
P20 <u>95</u>		<u>57</u>		<u>95</u>		<u>57</u>	
<u>100</u>		<u>60</u>	<u>279</u>	<u>100</u>		<u>60</u>	<u>271</u>

WESTERN TESTING CO., INC.

Pressure Data

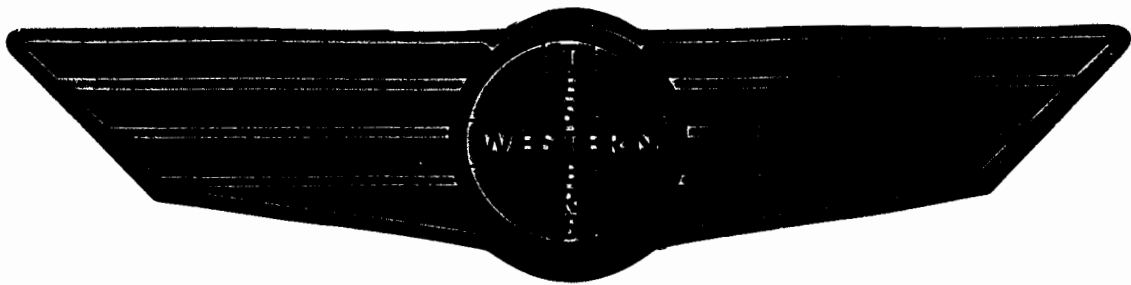
Date 12-29-93 Test Ticket No. 20209
 Recorder No. 10979 Capacity _____ Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

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

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of _____ mins. and a		of _____ mins. and a		of _____ mins. and a		of <u>3</u> mins. and a	
final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>105</u>		<u>63</u>		<u>105</u>		<u>63</u>	<u>271</u>
P 2 <u>110</u>		<u>66</u>		<u>110</u>		<u>66</u>	
P 3 <u>115</u>		<u>69</u>		<u>115</u>		<u>69</u>	
P 4 <u>120</u>		<u>72</u>		<u>120</u>		<u>72</u>	
P 5 <u>125</u>		<u>75</u>		<u>125</u>		<u>75</u>	<u>271</u>
P 6 <u>130</u>		<u>78</u>		<u>130</u>		<u>78</u>	
P 7 <u>135</u>		<u>81</u>		<u>135</u>		<u>81</u>	
P 8 <u>140</u>		<u>84</u>		<u>140</u>		<u>84</u>	
P 9 <u>145</u>		<u>87</u>		<u>145</u>		<u>87</u>	<u>271</u>
P10 <u>150</u>		<u>90</u>		<u>150</u>		<u>90</u>	
P11 <u>155</u>		<u>93</u>		<u>155</u>		<u>93</u>	
P12 <u>160</u>		<u>96</u>		<u>160</u>		<u>96</u>	
P13 <u>165</u>		<u>99</u>		<u>165</u>		<u>99</u>	
P14 <u>170</u>		<u>102</u>		<u>170</u>		<u>102</u>	
P15 <u>175</u>		<u>105</u>		<u>175</u>		<u>105</u>	
P16 <u>180</u>		<u>108</u>		<u>180</u>		<u>108</u>	
P17 <u>185</u>		<u>111</u>		<u>185</u>		<u>111</u>	
P18 <u>190</u>		<u>114</u>		<u>190</u>		<u>114</u>	
P19 <u>195</u>		<u>117</u>		<u>195</u>		<u>117</u>	
P20 <u>200</u>		<u>120</u>		<u>200</u>		<u>120</u>	

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 12/29/93	TICKET	: 20209
CUSTOMER	: BEREXCO, INC.	LEASE	: HOLLAND B
WELL	: #4	TEST: 2	GEOLOGIST: SHUNN ?
ELEVATION	: 1845 KB	FORMATION:	
SECTION	: 28	TOWNSHIP	: 13S
RANGE	: 14W	STATE	: KS
GAUGE SN#	: 10979	RANGE	: 4100
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	3154.00 ft	TO:	3207.00 ft	TVD:	3207.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	3201.0 ft		3204.0 ft		
TEMPERATURE:	95.0				
DRILL COLLAR LENGTH:	0.0 ft	I.D.:		0.000 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	3134.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	53.0 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:	3149.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	3154.0 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. :	EMPHASIS RIG 6	VISCOSITY :	47.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	9.600 cc
WEIGHT :	9.200 ppg		
CHLORIDES :	10000 ppm	SERIAL NUMBER:	
JARS-MAKE :		REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD VERY WEAK BLOW - 1 INCH INTO
BUCKET. FINAL FLOW PERIOD VERY WEAK BLOW - 2
INCHES INTO BUCKET.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	30 FT GAS ABOVE FLUID
55.0	50.0	0.0	0.0	50.0	OIL CUT MUD
3.0	100.0	0.0	0.0	0.0	FREE OIL
0.0	0.0	0.0	0.0	0.0	40 GRAVITY @ 60 DEGREES F

RATE INFORMATION

OIL VOLUME:	0.4278 STB	TOTAL FLOW TIME:	65.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	18.0228 STB/D
MUD VOLUME:	0.3857 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.8135 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1635.00

Description	Duration	p1	p End
INITIAL FLOW	5.00	95.00	75.00
INITIAL SHUT-IN	60.00		280.00
FINAL FLOW	60.00	85.00	85.00
FINAL SHUT-IN	90.00		280.00

FINAL HYDROSTATIC PRESSURE: 1625.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1645.00

Description	Duration	p1	p End
INITIAL FLOW	5.00	95.00	78.00
INITIAL SHUT-IN	60.00		279.00
FINAL FLOW	60.00	74.00	74.00
FINAL SHUT-IN	87.00		271.00

FINAL HYDROSTATIC PRESSURE: 1590.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 12/29/93	TICKET : 20209
CUSTOMER : BEREXCO, INC.	LEASE : HOLLAND B
WELL : #4	GEOLOGIST: SHUNN ?
ELEVATION: 1845 KB	FORMATION:
SECTION : 28	TOWNSHIP : 13S
RANGE : 14W	STATE : KS
GAUGE SN#: 10979	CLOCK : 12
TEST: 2	
COUNTY: RUSSELL	
RANGE : 4100	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	95.00	95.00
5.00	78.00	-17.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	224.00	224.00	2.67
6.00	256.00	32.00	1.83
9.00	265.00	9.00	1.56
12.00	271.00	6.00	1.42
15.00	273.00	2.00	1.33
18.00	275.00	2.00	1.28
21.00	276.00	1.00	1.24
24.00	277.00	1.00	1.21
27.00	278.00	1.00	1.19
30.00	279.00	1.00	1.17
33.00	279.00	0.00	1.15
36.00	279.00	0.00	1.14
39.00	279.00	0.00	1.13
42.00	279.00	0.00	1.12
45.00	279.00	0.00	1.11
48.00	279.00	0.00	1.10
51.00	279.00	0.00	1.10
54.00	279.00	0.00	1.09
57.00	279.00	0.00	1.09
60.00	279.00	0.00	1.08

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	74.00	74.00
5.00	74.00	0.00
10.00	74.00	0.00
15.00	74.00	0.00
20.00	74.00	0.00
25.00	74.00	0.00
30.00	74.00	0.00
35.00	74.00	0.00
40.00	74.00	0.00
45.00	74.00	0.00
50.00	74.00	0.00
55.00	74.00	0.00
60.00	74.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	99.00	99.00	21.00
6.00	173.00	74.00	11.00
9.00	220.00	47.00	7.67
12.00	238.00	18.00	6.00
15.00	246.00	8.00	5.00
18.00	254.00	8.00	4.33
21.00	257.00	3.00	3.86
24.00	259.00	2.00	3.50
27.00	261.00	2.00	3.22
30.00	263.00	2.00	3.00
33.00	265.00	2.00	2.82
36.00	267.00	2.00	2.67
39.00	269.00	2.00	2.54
42.00	270.00	1.00	2.43
45.00	271.00	1.00	2.33
48.00	271.00	0.00	2.25
51.00	271.00	0.00	2.18
54.00	271.00	0.00	2.11
57.00	271.00	0.00	2.05
60.00	271.00	0.00	2.00
63.00	271.00	0.00	1.95
66.00	271.00	0.00	1.91
69.00	271.00	0.00	1.87
72.00	271.00	0.00	1.83
75.00	271.00	0.00	1.80

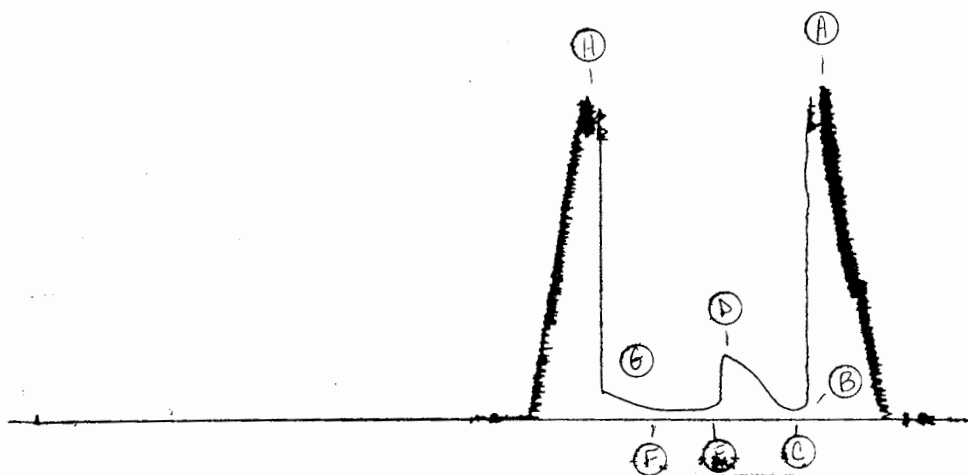
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
78.00	271.00	0.00	1.77
81.00	271.00	0.00	1.74
84.00	271.00	0.00	1.71
87.00	271.00	0.00	1.69

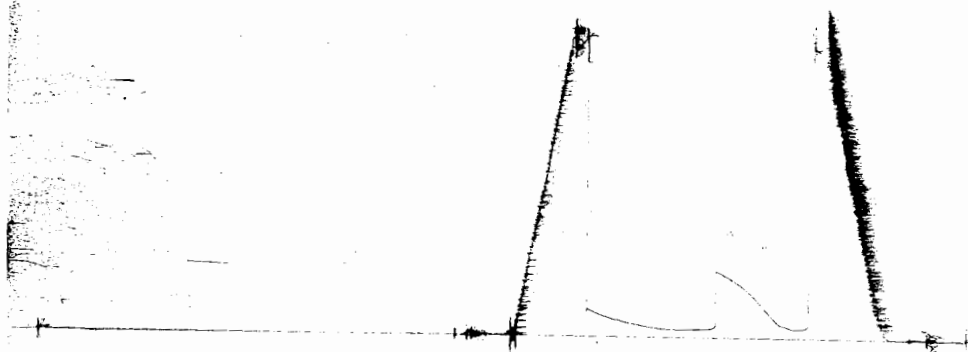
10979

TKT 20210
I



3354

TKT 20210
O





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 20210

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

Elevation 1845 KB Formation _____ Eff. Pay _____ Ft.

District Augusta Date 12 30 93 Customer Order No. _____

COMPANY NAME Burkeco Inc

ADDRESS 100 North Broadway, Suite 970 Wichita KS 67202-2209

LEASE AND WELL NO. Holland 8 #4 COUNTY Russell STATE KS Sec 28 Twp 13 Rge 14 W

Mail Invoice To Same Co. Name _____ Address _____ No. Copies Requested 1

Mail Charts To Same Address _____ No. Copies Requested 5

Formation Test No. 15743 Interval Tested From 3200 ft. to 3238 ft. Total Depth 3238 ft.

Packer Depth 3195 ft. Size 6 7/8 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 3200 ft. Size 6 7/8 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3232 ft. Recorder Number 10979 Cap. 4100

Bottom Recorder Depth (Outside) 3225 ft. Recorder Number 3354 Cap. 4200

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor Empress Rig Drill Collar Length _____ I. D. _____ in.

Mud Type Cham Viscosity 49 Weight Pipe Length _____ I. D. _____ in.

Weight 91 Water Loss 10.4 cc. Drill Pipe Length 31.00 I. D. 3.8 in.

Chlorides 10,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make _____ Serial Number _____ Anchor Length 38 ft. Size 5 1/2 in.

Did Well Flow? _____ 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 in.

Blow: Very Weak Blow 1/4" into bucket on (FFP) NO Blow on (FFP)

Recovered 15 ft. of drilling mud with Oil Spots

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Chlorides _____ P.P.M. Sample Jars used _____ Remarks: _____

Time On Location Standby A.M. P.M. Time Pick Up Tool 2:00 A.M. P.M. Time Off Location _____ A.M. P.M.

Time Set Packer(s) 3:00 A.M. P.M. Time Started Off Bottom 5:35 A.M. P.M. Maximum Temperature 96°

Initial Hydrostatic Pressure _____ (A) 1635 P.S.I.

Initial Flow Period _____ Minutes 5 (B) 75 P.S.I. to (C) 50 P.S.I.

Initial Closed In Period _____ Minutes 60 (D) 355 P.S.I.

Final Flow Period _____ Minutes 30 (E) 95 P.S.I. to (F) 65 P.S.I.

Final Closed In Period _____ Minutes 60 (G) 165 P.S.I.

Final Hydrostatic Pressure _____ (H) 1625 P.S.I. 10979

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 David Spence
Signature of Customer or his authorized representative

Western Representative Jeffrey H. Patten

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 12-30-93

Test Ticker No. 20210

Recorder No. 10979

Capacity _____ Location _____ Ft.

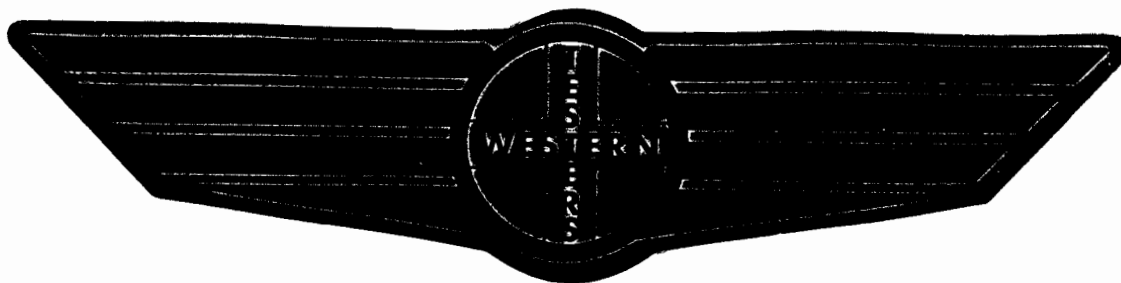
Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud <u>1650</u>	P.S.I.		M
B First Initial Flow Pressure _____	P.S.I.	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure _____	P.S.I.	<u>60</u> Mins.	<u>54</u> Mins.
D Initial Closed-in Pressure _____	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure _____	P.S.I.	<u>60</u> Mins.	<u>54</u> Mins.
F Second Final Flow Pressure _____	P.S.I.		
G Final Closed-in Pressure _____	P.S.I.		
H Final Hydrostatic Mud <u>1627</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 <u>0</u>	<u>81</u>	<u>0</u>	<u>64</u>	<u>0</u>	<u>105</u>	<u>0</u>	<u>64</u>
P 2 <u>5</u>	<u>64</u>	<u>3</u>	<u>64</u>	<u>5</u>	<u>77</u>	<u>3</u>	
P 3 <u>10</u>		<u>6</u>	<u>65</u>	<u>10</u>	<u>64</u>	<u>6</u>	
P 4 <u>15</u>		<u>9</u>	<u>70</u>	<u>15</u>	<u>64</u>	<u>9</u>	
P 5 <u>20</u>		<u>12</u>	<u>82</u>	<u>20</u>	<u>64</u>	<u>12</u>	
P 6 <u>25</u>		<u>15</u>	<u>100</u>	<u>25</u>	<u>64</u>	<u>15</u>	<u>64</u>
P 7 <u>30</u>		<u>18</u>	<u>123</u>	<u>30</u>	<u>64</u>	<u>18</u>	<u>67</u>
P 8 <u>35</u>		<u>21</u>	<u>155</u>	<u>35</u>		<u>21</u>	<u>78</u>
P 9 <u>40</u>		<u>24</u>	<u>185</u>	<u>40</u>		<u>24</u>	<u>76</u>
P10 <u>45</u>		<u>27</u>	<u>214</u>	<u>45</u>		<u>27</u>	83 <u>82</u>
P11 <u>50</u>		<u>30</u>	<u>236</u>	<u>50</u>		<u>30</u>	88 <u>89</u>
P12 <u>55</u>		<u>33</u>	<u>258</u>	<u>55</u>		<u>33</u>	<u>97</u>
P13 <u>60</u>		<u>36</u>	<u>276</u>	<u>60</u>		<u>36</u>	<u>107</u>
P14 <u>65</u>		<u>39</u>	<u>297</u>	<u>65</u>		<u>39</u>	<u>117</u>
P15 <u>70</u>		<u>42</u>	<u>312</u>	<u>70</u>		<u>42</u>	<u>126</u>
P16 <u>75</u>		<u>45</u>	<u>324</u>	<u>75</u>		<u>45</u>	<u>133</u>
P17 <u>80</u>		<u>48</u>	<u>339</u>	<u>80</u>		<u>48</u>	<u>141</u>
P18 <u>85</u>		<u>51</u>	<u>349</u>	<u>85</u>		<u>51</u>	<u>152</u>
P19 <u>90</u>		<u>54</u>	<u>357</u>	<u>90</u>		<u>54</u>	<u>161</u>
P20 <u>95</u>		<u>57</u>		<u>95</u>		<u>57</u>	
100		60		100		60	

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

COMPANY BEREXCO, INC.

LEASE & WELL NO. #4 HOLLAND B

SEC. 28 TWP. 13S RGE. 14W TEST NO. 3

DATE 12/30/93

DST REPORT

GENERAL INFORMATION

DATE	: 12/30/93	TICKET	: 20210
CUSTOMER	: BEREXCO, INC.	LEASE	: HOLLAND B
WELL	: #4	TEST: 3	GEOLOGIST: SHUNN ?
ELEVATION	: 1845 KB	FORMATION:	
SECTION	: 28	TOWNSHIP	: 13S
RANGE	: 14W	STATE	: KS
GAUGE SN#	: 10979	RANGE	: 4100
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	3200.00 ft	TO:	3238.00 ft	TVD:	3238.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	3232.0 ft		3225.0 ft		
TEMPERATURE:	96.0				
DRILL COLLAR LENGTH:	0.0 ft	I.D.:		0.000 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	3180.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	38.0 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:	3195.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	3200.0 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. :	EMPHASIS RIG 6	VISCOSITY :	49.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	10.400 cc
WEIGHT :	9.100 ppg	SERIAL NUMBER:	
CHLORIDES :	10000 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD VERY WEAK BLOW - 1/4 INCH INTO
BUCKET. FINAL FLOW PERIOD NO BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
15.0	0.0	0.0	0.0	100.0	DRILLING MUD W/OIL SPOTS

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	35.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.2104	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.2104	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1635.00

Description	Duration	p1	p End
INITIAL FLOW	5.00	75.00	50.00
INITIAL SHUT-IN	60.00		355.00
FINAL FLOW	30.00	95.00	65.00
FINAL SHUT-IN	60.00		165.00

FINAL HYDROSTATIC PRESSURE: 1625.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1650.00

Description	Duration	p1	p End
INITIAL FLOW	5.00	81.00	64.00
INITIAL SHUT-IN	54.00		356.00
FINAL FLOW	30.00	105.00	64.00
FINAL SHUT-IN	54.00		161.00

FINAL HYDROSTATIC PRESSURE: 1627.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 12/30/93	TICKET	: 20210
CUSTOMER	: BEREXCO, INC.	LEASE	: HOLLAND B
WELL	: #4	TEST: 3	GEOLOGIST: SHUNN ?
ELEVATION	: 1845 KB	FORMATION:	
SECTION	: 28	TOWNSHIP	: 13S
RANGE	: 14W	STATE	: KS
GAUGE SN#	: 10979	RANGE	: 4100
		CLOCK	: 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	81.00	81.00
5.00	64.00	-17.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	64.00	64.00	0.00
6.00	65.00	1.00	0.00
9.00	70.00	5.00	0.00
12.00	82.00	12.00	0.00
15.00	100.00	18.00	0.00
18.00	123.00	23.00	0.00
21.00	155.00	32.00	0.00
24.00	185.00	30.00	0.00
27.00	214.00	29.00	0.00
30.00	236.00	22.00	0.00
33.00	258.00	22.00	0.00
36.00	276.00	18.00	0.00
39.00	297.00	21.00	0.00
42.00	312.00	15.00	0.00
45.00	324.00	12.00	0.00
48.00	339.00	15.00	0.00
51.00	349.00	10.00	0.00
54.00	356.00	7.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	105.00	105.00
5.00	77.00	-28.00
10.00	64.00	-13.00
15.00	64.00	0.00
20.00	64.00	0.00
25.00	64.00	0.00
30.00	64.00	0.00

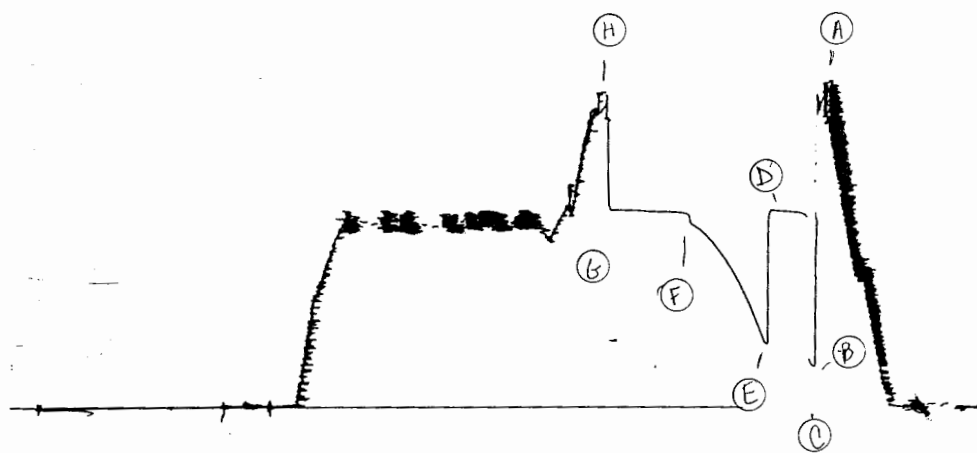
FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	64.00	64.00	0.00
6.00	64.00	0.00	0.00
9.00	64.00	0.00	0.00
12.00	64.00	0.00	0.00
15.00	64.00	0.00	0.00
18.00	67.00	3.00	0.00
21.00	71.00	4.00	0.00
24.00	75.00	4.00	0.00
27.00	82.00	7.00	0.00
30.00	89.00	7.00	0.00
33.00	97.00	8.00	0.00
36.00	107.00	10.00	0.00
39.00	117.00	10.00	0.00
42.00	126.00	9.00	0.00
45.00	133.00	7.00	0.00
48.00	141.00	8.00	0.00
51.00	152.00	11.00	0.00
54.00	161.00	9.00	0.00

10079

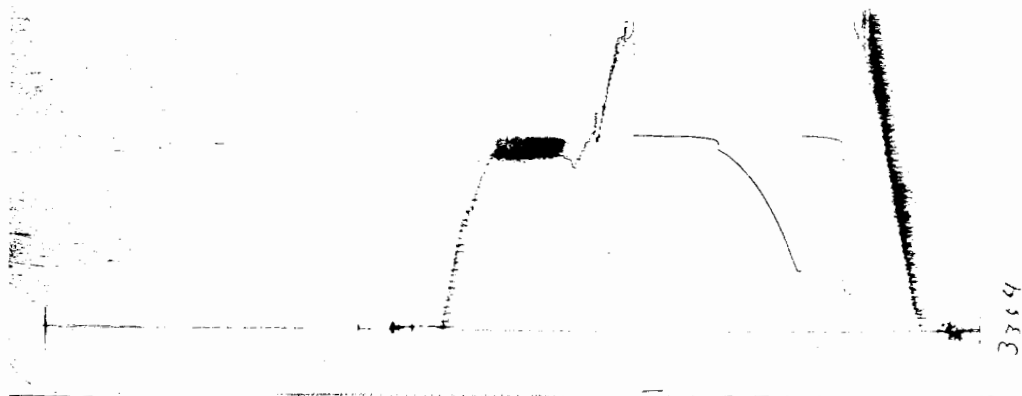
TKT 20211

I



TKT 20211

0





WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET N° 20211

P. O. BOX 1599 PHONE (316) 262-5861

WICHITA, KANSAS 67201

Elevation

1845 HB

Formation

Crb

Eff. Pay Ft.

District

Augusta

Date 12-30-93

Customer Order No.

COMPANY NAME

Berexco Inc

ADDRESS

100 North Broadway Suite 970 Wichita Ks 67202-2209

LEASE AND WELL NO.

Holland 15" #4

COUNTY

Russell

STATE

Ks

Sec.

28

Twp

13

Rge

14W

Mail Invoice To

Same

No. Copies Requested 1

Mail Charts To

Same

Address

54 HOLLAND B

No. Copies Requested 5

Formation Test No.

ASTM

Interval Tested From

3249

ft. to

3267

ft. Total

Depth

3267

ft.

Packer Depth

3244

ft.

Size

6 3/8

in.

Packer Depth

-

ft.

Size

-

in.

Packer Depth

3249

ft.

Size

6 3/8

in.

Packer Depth

-

ft.

Size

-

in.

Depth of Selective Zone Set

Top Recorder Depth (Inside)

3260

ft.

Recorder Number

10979

Cap.

4100

Bottom Recorder Depth (Outside)

3263

ft.

Recorder Number

3354

Cap.

4200

Below Straddle Recorder Depth

-

ft.

Recorder Number

-

Cap.

-

Drilling Contractor

Emphasis Rig 6

Drill Collar Length

-

I. D.

-

in.

Mud Type

Chem

Viscosity

49

Weight Pipe Length

-

I. D.

-

in.

Weight

9.1

Water Loss

10.4

cc.

Drill Pipe Length

3229

I. D.

3 8

in.

Chlorides

13,000

P.P.M.

Test Tool Length

20

ft.

Tool Size

5 1/2 00

in.

Jars: Make

-

Serial Number

-

Anchor Length

18

ft.

Size

5 1/2 00

in.

Did Well Flow?

-

Reversed Out

Yes

Surface Choke Size

34

in.

Bottom Choke Size

24

in.

Main Hole Size

7 1/2

in.

Tool Joint Size

4 6 x 4

in.

Blow: Very Strong Blow Bottom bucket Inserted 1 min on (FFP) & (FFP)

Recovered

25

ft. of

Grey Oil 35% greasy at 60°

Recovered

170

ft. of

Oil Cut Salt brine 17% Oil 83% Water

Recovered

2005

ft. of

Salt water

Recovered

-

ft. of

Recovered

-

ft. of

Chlorides

25,000

P.P.M. Sample Jars used

Remarks:

Time On Location

Stand by

A.M.

Time Pick Up Tool

3:30

A.M.

Time Off Location

-

Time Set Packer(s)

4:25

A.M.

Time Started Off Bottom

7:00

A.M.

Maximum Temperature

104°2

Initial Hydrostatic Pressure

(A) 1675

P.S.I.

Initial Flow Period

5

Minutes

(B) 230

P.S.I. to (C)

260

P.S.I.

Initial Closed In Period

30

Minutes

(D) 1060

P.S.I.

Final Flow Period

60

Minutes

(E) 345

P.S.I. to (F)

990

P.S.I.

Final Closed In Period

60

Minutes

(G) 1070

P.S.I.

Final Hydrostatic Pressure

(H) 1665

P.S.I.

10979

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 of Customer or his authorized representative

Western Representative

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

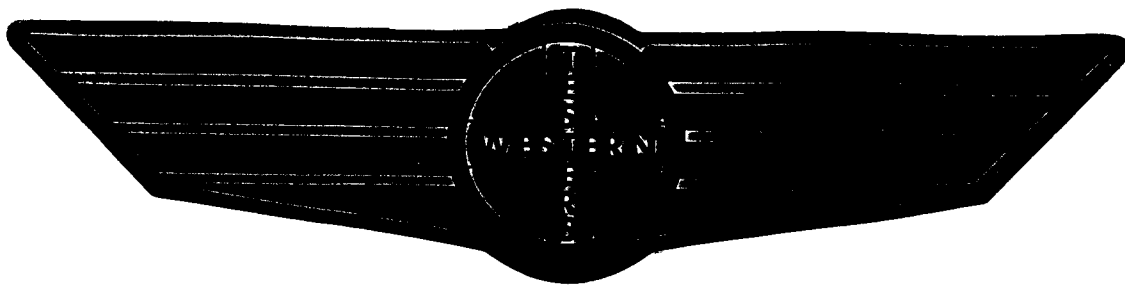
Date 12-30-93 Test Ticket No. 20211
 Recorder No. 10979 Capacity _____ Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud <u>1677</u>	P.S.I.	Open Tool	M	
B First Initial Flow Pressure	P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</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>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	P.S.I.			
G Final Closed-in Pressure	P.S.I.			
H Final Hydrostatic Mud <u>1638</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	230	0	262	0	350	0	986
P 2 5	262	3	1028	5	390	3	1046
P 3 10		6	1045	10	478	6	1050
P 4 15		9	1051	15	562	9	1052
P 5 20		12	1054	20	633	12	1054
P 6 25		15	1056	25	701	15	1056
P 7 30		18	1058	30	761	18	1057
P 8 35		21	1059	35	813	21	1058
P 9 40		24	1060	40	860	24	1058
P10 45		27	1061	45	905	27	1059
P11 50		30	1062	50	940	30	1059
P12 55		33		55	970	33	1060
P13 60		36		60	986	36	1060
P14 65		39		65		39	1061
P15 70		42		70		42	1061
P16 75		45		75		45	1062
P17 80		48		80		48	1062
P18 85		51		85		51	1063
P19 90		54		90		54	1063
P20 95		57		95		57	1064
100		60		100		60	1064

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 12/30/93	TICKET	: 20211
CUSTOMER	: BEREXCO, INC.	LEASE	: HOLLAND B
WELL	: #4	TEST: 4	GEOLOGIST: SHUNN ?
ELEVATION	: 1845 KB	FORMATION	: ARBUCKLE
SECTION	: 28	TOWNSHIP	: 13S
RANGE	: 14W	COUNTY: RUSSELL	STATE : KS
GAUGE SN#	: 10979	RANGE : 4100	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	3249.00 ft	TO:	3267.00 ft	TVD:	3267.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	3260.0 ft		3263.0 ft		
TEMPERATURE:	104.0				
DRILL COLLAR LENGTH:	0.0 ft	I.D.:		0.000 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	3229.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	18.0 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:	3244.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	3249.0 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. :	EMPHASIS RIG 6	VISCOSITY :	49.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	10.400 cc
WEIGHT :	9.100 ppg		
CHLORIDES :	13000 ppm	SERIAL NUMBER:	
JARS-MAKE :		REVERSED OUT?:	YES
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD VERY STRONG BLOW - BOTTOM OF
BUCKET LESS THAN 1 MINUTE. FINAL FLOW PERIOD
VERY STRONG BLOW - BOTTOM OF BUCKET IN LESS THAN

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

1 MINUTE.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
25.0	100.0	0.0	0.0	0.0	FREE OIL
0.0	0.0	0.0	0.0	0.0	35 GRAVITY @ 60 DEGREES F
170.0	17.0	0.0	83.0	0.0	OIL CUT SALTWATER
2005.0	0.0	0.0	100.0	0.0	SALTWATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 25000 PPM

RATE INFORMATION

OIL VOLUME: 0.7560 STB
 GAS VOLUME: 0.0000 SCF
 MUD VOLUME: 0.0000 STB
 WATER VOLUME: 30.1020 STB
 TOTAL FLUID : 30.8580 STB

TOTAL FLOW TIME: 65.0000 min.
 AVERAGE OIL RATE: 16.7488 STB/D
 AVERAGE WATER RATE: 666.8742 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1675.00

Description	Duration	p1	p End
INITIAL FLOW	5.00	230.00	260.00
INITIAL SHUT-IN	30.00		1060.00
FINAL FLOW	60.00	345.00	990.00
FINAL SHUT-IN	60.00		1070.00
FINAL HYDROSTATIC PRESSURE:	1665.00		

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1677.00

Description	Duration	p1	p End
INITIAL FLOW	5.00	230.00	262.00
INITIAL SHUT-IN	30.00		1062.00
FINAL FLOW	60.00	350.00	986.00
FINAL SHUT-IN	60.00		1064.00

FINAL HYDROSTATIC PRESSURE: 1638.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 12/30/93	TICKET	: 20211
CUSTOMER	: BEREXCO, INC.	LEASE	: HOLLAND B
WELL	: #4	GEOLOGIST	: SHUNN ?
ELEVATION	: 1845 KB	FORMATION	: ARBUCKLE
SECTION	: 28	TOWNSHIP	: 13S
RANGE	: 14W	STATE	: KS
GAUGE SN#	: 10979	CLOCK	: 12
TEST	: 4	COUNTY	: RUSSELL
		RANGE	: 4100

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	230.00	230.00
5.00	262.00	32.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	1028.00	1028.00	2.67
6.00	1045.00	17.00	1.83
9.00	1051.00	6.00	1.56
12.00	1054.00	3.00	1.42
15.00	1056.00	2.00	1.33
18.00	1058.00	2.00	1.28
21.00	1059.00	1.00	1.24
24.00	1060.00	1.00	1.21
27.00	1061.00	1.00	1.19
30.00	1062.00	1.00	1.17

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	350.00	350.00
5.00	390.00	40.00
10.00	478.00	88.00
15.00	562.00	84.00
20.00	633.00	71.00
25.00	701.00	68.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

Time (min)	Pressure	Delta P
30.00	761.00	60.00
35.00	813.00	52.00
40.00	860.00	47.00
45.00	905.00	45.00
50.00	940.00	35.00
55.00	970.00	30.00
60.00	986.00	16.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	1046.00	1046.00	21.00
6.00	1050.00	4.00	11.00
9.00	1052.00	2.00	7.67
12.00	1054.00	2.00	6.00
15.00	1056.00	2.00	5.00
18.00	1057.00	1.00	4.33
21.00	1058.00	1.00	3.86
24.00	1058.00	0.00	3.50
27.00	1059.00	1.00	3.22
30.00	1059.00	0.00	3.00
33.00	1060.00	1.00	2.82
36.00	1060.00	0.00	2.67
39.00	1061.00	1.00	2.54
42.00	1061.00	0.00	2.43
45.00	1062.00	1.00	2.33
48.00	1062.00	0.00	2.25
51.00	1063.00	1.00	2.18
54.00	1063.00	0.00	2.11
57.00	1064.00	1.00	2.05
60.00	1064.00	0.00	2.00