

CONFIDENTIAL

ORIGINAL

CONFIDENTIAL

DRILLSTEM TESTS

Fannie Jennings #1-19

Sec. 19-29S-38W

Grant County, Kansas

API#15-067-21214

RELEASED

JUN 2 8 1995

FROM CONFIDENTIAL

DST #1 (5700'-5726')

15(30)120(120)

BLOW: Weak inc to 9 inches.

BLOW: Weak inc to strong off bottom of bucket in 30 minutes.

IH: 2779

IFP: 57/148

ISIP: 512

FFP: 189/423

FSIP: 512

FH: 2694

T: 146

REC: 175' slightly oil and water cut mud + 720' formation water.

COPY

RECEIVED
KANSAS CORPORATION COMMISSION

MAY 19 1993

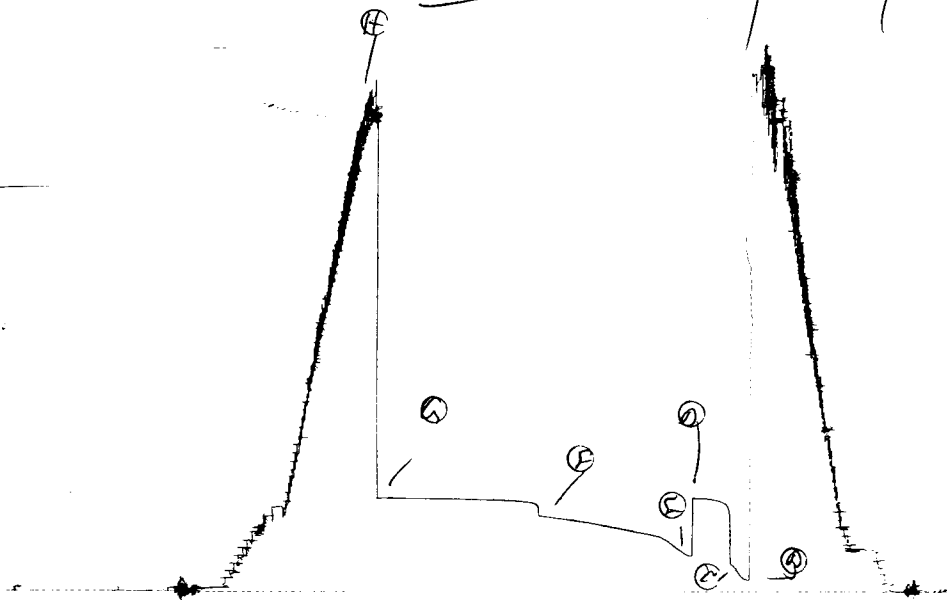
CONSERVATION DIVISION
WICHITA, KS

KT 18980

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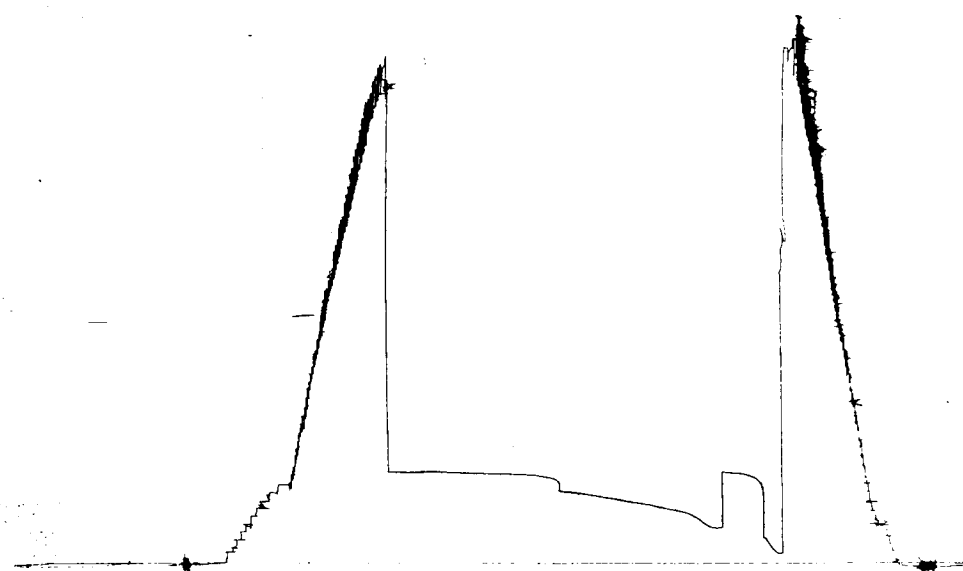


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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 18980

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

Elevation 3157 A.B. Formation St. Louis Eff. Pay 8 Ft.

District Garden City Date 2-23-93 Customer Order No. _____

COMPANY NAME Bereco Inc.
ADDRESS 970 Fourth Financial Center Wichita, KS. 67202
LEASE AND WELL NO. Fannie Jennings 1-19 COUNTY Grant STATE KS. Sec. 19 Twp. 29S. Rge. 38W.
Mail Invoice To Bereco Inc. Address FANNIE JENNINGS 1-19 No. Copies Requested Ref.
Co. Name _____ Address _____
Mail Charts To See Dist. Sheet No. Copies Requested 5

Formation Test No. 1 Interval Tested From 5700 ft. to 5726 ft. Total Depth 5726 ft.
Packer Depth 5695 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 5700 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5712 ft. Recorder Number 3849 Cap. 4200
Bottom Recorder Depth (Outside) 5715 ft. Recorder Number 2604 Cap. 4150
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor Bereco Rig 4 Drill Collar Length 603 I. D. 2 1/4 in.
Mud Type Chem. Viscosity 55 Weight Pipe Length _____ I. D. _____ in.
Weight 8.9 Water Loss 8.0 cc. Drill Pipe Length 5069 I. D. 3.8 in.
Chlorides 900 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 in.
Jars: Make W.T.C. Serial Number 408 Anchor Length 26 ft. Size 5 1/2 in.
Did Well Flow? No Reversed Out No Surface Choke Size 3 1/4 in. Bottom Choke Size 3 1/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 X.H. in.

Blow Weak 1/2" built to 9" in Bucket 15 min. I.F.
Surface blow to Strong, B.O.B. in 30 min. F.F.

Recovered 175 ft. of 5 1/2" Oil, Hully WTR cut mud 4% oil 4 1/2" WTR 55% mud
Recovered 720 ft. of WTR 24,000 P.P.M.
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Chlorides 24,000 P.P.M. Sample Jars used _____ Remarks: _____
Total Fluid Rec. 895'

MAR 03 1993

Time On Location 7:15 A.M. Time Pick Up Tool 11:20 A.M. Time Off Location _____ A.M.
Time Set Packer(s) 12:55 P.M. Time Started Off Bottom 5:40 A.M. Maximum Temperature 146°F
Initial Hydrostatic Pressure _____ (A) 2779 P.S.I.
Initial Flow Period _____ Minutes 15 (B) 57 P.S.I. to (C) 148 P.S.I.
Initial Closed In Period _____ Minutes 30 (D) 512 P.S.I.
Final Flow Period _____ Minutes 120 (E) 189 P.S.I. to (F) 423 P.S.I.
Final Closed In Period _____ Minutes 120 (G) 512 P.S.I.
Final Hydrostatic Pressure _____ (H) 2694 P.S.I.

COMPANY TERMS

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

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

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

Western Representative [Signature]

FIELD INVOICE

Open Hole Test ☒ \$ 200.00
Misrun \$ _____
Straddle Test \$ _____
Jars ☒ \$ 225.00
Selective Zone \$ _____
Safety Joint ☒ \$ 250.00
Standby \$ _____
Evaluation \$ _____
Extra Packers \$ _____
Circ. Sub. ☒ \$ 300.00
Mileage \$ _____
Fluid Sampler \$ _____
Extra Charts \$ 5.00

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: MARCH 3, 1993

WELL NAME & NUMBER: FANNIE JENNINGS #1-19

TEST NUMBERS: 1 & 2

LOCATION: GRANT 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)

JOINT INTEREST OPERATIONS
MIO/477-23
ARCO OIL AND GAS COMPANY
P.O. DRAWER 1610
MIDLAND, TX 79702
ATTN: CARL LUNDGREN
(2 COPIES)

DISTRIBUTION SHEET

WELL Fannie Jennings #1-19
 LOCATION Sec. 19-29S-38W, Grant Co., KS

TELECOPY (ORDER)	TYPED GEOLOGIC REPORTS	MUD LOG PRINTS	DST	ELECTRIC LOG (INC. SAMPLE LOG) PRINTS	COMPANY
Yes (1)	3	2	2	5	BEREXCO INC. 5101 N. Classen Suite 205 Oklahoma City, OK 73118 Attn: Pete Wilson (405) 848-1165 Fax (405) 842-6539 Night Fax (405) 341-3138
Yes (3)	2	2	2	3	BEREXCO INC. 970 Fourth Financial Center Wichita, KS 67202 316-265-3311 Fax (316) 265-2994
Yes (2)	2	4	2	5	Joint Interest Operations MIO/477-23 ARCO Oil and Gas Company P. O. Drawer 1610 Midland, TX 79702 Attn: Carl Lundgren (915) 688-5727 Fax (915) 688-5616

Alternate Fax #
 915-688-5757

WESTERN TESTING CO., INC.

Pressure Data

Date 2-25-22Test Ticket No. 18980Recorder No. 5849 Capacity _____ Location _____ Ft. _____

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2824</u> P.S.I.		
B First Initial Flow Pressure	<u>65</u> P.S.I.		
C First Final Flow Pressure	<u>154</u> P.S.I.		
D Initial Closed-in Pressure	<u>521</u> P.S.I.		
E Second Initial Flow Pressure	<u>199</u> P.S.I.		
F Second Final Flow Pressure	<u>422</u> P.S.I.		
G Final Closed-in Pressure	<u>521</u> P.S.I.		
H Final Hydrostatic Mud	<u>2209</u> P.S.I.		

Open Tool	M
First Flow Pressure	<u>15</u> Mins.
Initial Closed-in Pressure	<u>30</u> Mins.
Second Flow Pressure	<u>15</u> Mins.
Final Closed-in Pressure	<u>10</u> Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: _____ Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: _____ Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: _____ Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: _____ Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>65</u>	0	<u>154</u>	0	<u>199</u>	0	<u>422</u>
P 2 5	<u>80</u>	3	<u>475</u>	5	<u>206</u>	3	<u>490</u>
P 3 10	<u>131</u>	6	<u>495</u>	10	<u>225</u>	6	<u>497</u>
P 4 15	<u>154</u>	9	<u>505</u>	15	<u>265</u>	9	<u>500</u>
P 5 20		12	<u>508</u>	20	<u>292</u>	12	<u>502</u>
P 6 25		15	<u>512</u>	25	<u>310</u>	15	<u>504</u>
P 7 30		18	<u>516</u>	30	<u>317</u>	18	<u>506</u>
P 8 35		21	<u>518</u>	35	<u>325</u>	21	<u>507</u>
P 9 40		24	<u>519</u>	40	<u>332</u>	24	<u>508</u>
P10 45		27	<u>520</u>	45	<u>339</u>	27	<u>509</u>
P11 50		30	<u>521</u>	50	<u>346</u>	30	<u>510</u>
P12 55		33		55	<u>353</u>	33	<u>511</u>
P13 60		36		60	<u>362</u>	36	<u>512</u>
P14 65		39		65	<u>369</u>	39	<u>5</u>
P15 70		42		70	<u>376</u>	42	<u>5</u>
P16 75		45		75	<u>382</u>	45	<u>514</u>
P17 80		48		80	<u>389</u>	48	<u>512</u>
P18 85		51		85	<u>396</u>	51	<u>512</u>
P19 90		54		90	<u>401</u>	54	<u>514</u>
P20 95		57		95	<u>404</u>	57	<u>5</u>
100		60		100	<u>409</u>	60	<u>514</u>

WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 18980

Recorder No. _____ Capacity _____ Location _____ Ft.

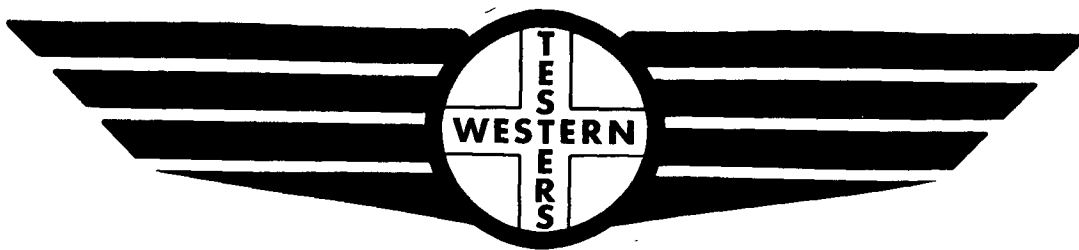
Clock No. _____ Elevation _____ Well Temperature _____ °F

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	415	63	515
P 2 110		66		110	421	66	515
P 3 115		69		115	428	69	516
P 4 120		72		120		72	516
P 5 125		75		125		75	517
P 6 130		78		130		78	517
P 7 135		81		135		81	517
P 8 140		84		140		84	518
P 9 145		87		145		87	518
P10 150		90		150		90	518
P11 155		93		155		93	518
P12 160		96		160		96	519
P13 165		99		165		99	519
P14 170		102		170		102	519
P15 175		105		175		105	519
P16 180		108		180		108	520
P17 185		111		185		111	520
P18 190		114		190		114	521
P19 195		117		195		117	521
P20 200		120		200		120	521

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

COMPANY BEREXCO, INC.

LEASE & WELL NO. FANNIE JENNINGS

#1-19

SEC. 19 TWP. 29S RGE. 38W TEST NO. 1 DATE 2/23/93

DST REPORT

GENERAL INFORMATION

DATE	: 2/23/93	TICKET	: 18980
CUSTOMER	: BEREXCO, INC.	LEASE	: FANNIE JENNINGS
WELL	: 1-19	TEST: 1	GEOLOGIST: GRIEVES
ELEVATION	: 3157 KB	FORMATION	: ST. LOIUS
SECTION	: 19	TOWNSHIP	: 29S
RANGE	: 38W	COUNTY: GRANT	STATE : KS
GAUGE SN#	: 3849	RANGE : 4200	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	5700.00 ft	TO:	5726.00 ft	TVD:	5726.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	5712.0 ft		5715.0 ft		
TEMPERATURE:	146.0				
DRILL COLLAR LENGTH:	603.0 ft	I.D.:	2.250 in		
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in		
DRILL PIPE LENGTH :	5069.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	28.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	26.0 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:	5695.0 ft	SIZE:	6.630 in		
PACKER DEPTH:	5700.0 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 4	VISCOSITY :	55.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	8.000 cc
WEIGHT :	8.900 ppg		
CHLORIDES :	900 ppm	SERIAL NUMBER:	408
JARS-MAKE :	W.T.C.	REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK 1/2 INCH BLOW, BUILT TO A
9 INCH BLOW IN BUCKET IN 15 MINUTES. FINAL FLOW
PERIOD SURFACE BLOW TO A STRONG BLOW, BOTTOM OF

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

BUCKET IN 30 MINUTES.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
175.0	4.0	0.0	41.0	55.0	SLY OIL, HVY WTR CUT MUD
720.0	0.0	0.0	100.0	0.0	WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 24000 P.P.M.

RATE INFORMATION

OIL VOLUME:	0.0982 STB	
GAS VOLUME:	0.0000 SCF	
MUD VOLUME:	1.3500 STB	
WATER VOLUME:	5.6127 STB	
TOTAL FLUID :	7.0609 STB	
		TOTAL FLOW TIME: 130.0000 min.
		AVERAGE OIL RATE: 2.4168 STB/D
		AVERAGE WATER RATE: 75.7966 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2779.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	57.00	148.00
INITIAL SHUT-IN	30.00		512.00
FINAL FLOW	120.00	189.00	423.00
FINAL SHUT-IN	120.00		512.00

FINAL HYDROSTATIC PRESSURE: 2694.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2824.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	65.00	154.00
INITIAL SHUT-IN	30.00		521.00
FINAL FLOW	115.00	199.00	423.00
FINAL SHUT-IN	120.00		521.00

FINAL HYDROSTATIC PRESSURE: 2709.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 2/23/93	TICKET : 18980
CUSTOMER : BEREXCO, INC.	LEASE : FANNIE JENNINGS
WELL : 1-19	GEOLOGIST: GRIEVES
ELEVATION: 3157 KB	FORMATION: ST. LOIUS
SECTION : 19	TOWNSHIP : 29S
RANGE : 38W	STATE : KS
GAUGE SN#: 3849	CLOCK : 12
TEST: 1	
COUNTY: GRANT	
RANGE : 4200	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	65.00	65.00
5.00	80.00	15.00
10.00	131.00	51.00
15.00	154.00	23.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	479.00	479.00	0.00
6.00	495.00	16.00	0.00
9.00	505.00	10.00	0.00
12.00	508.00	3.00	0.00
15.00	513.00	5.00	0.00
18.00	516.00	3.00	0.00
21.00	518.00	2.00	0.00
24.00	519.00	1.00	0.00
27.00	520.00	1.00	0.00
30.00	521.00	1.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	199.00	199.00
5.00	206.00	7.00
10.00	235.00	29.00
15.00	265.00	30.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
57.00	514.00	0.00	0.00
60.00	514.00	0.00	0.00
63.00	515.00	1.00	0.00
66.00	515.00	0.00	0.00
69.00	516.00	1.00	0.00
72.00	516.00	0.00	0.00
75.00	517.00	1.00	0.00
78.00	517.00	0.00	0.00
81.00	517.00	0.00	0.00
84.00	518.00	1.00	0.00
87.00	518.00	0.00	0.00
90.00	518.00	0.00	0.00
93.00	518.00	0.00	0.00
96.00	519.00	1.00	0.00
99.00	519.00	0.00	0.00
102.00	519.00	0.00	0.00
105.00	519.00	0.00	0.00
108.00	520.00	1.00	0.00
111.00	520.00	0.00	0.00
114.00	521.00	1.00	0.00
117.00	521.00	0.00	0.00
120.00	521.00	0.00	0.00

KT 18981

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(D)

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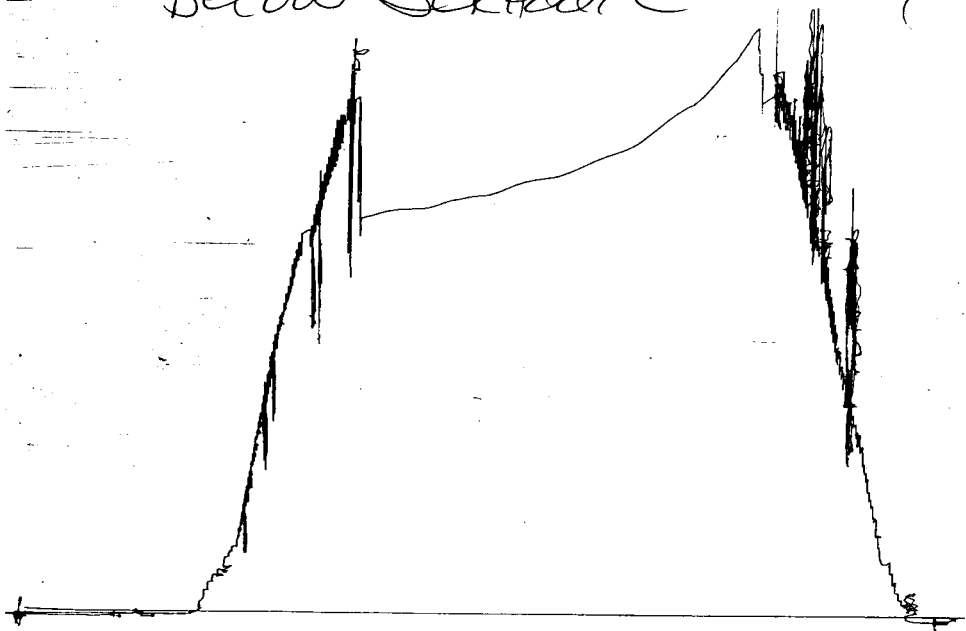
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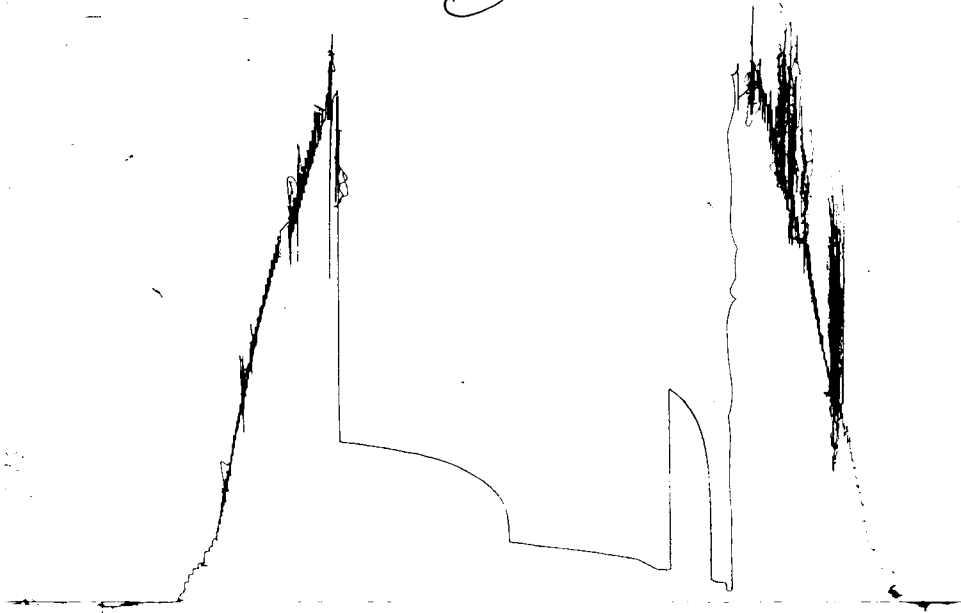
HK+ 18981 2605 0572
Below-Straddle



KT 18981

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2604 DST 21





WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

No 18981

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201Elevation 3157 A.B. Formation St Louis Eff. Pay 11 Ft8 1/2 % PermeabilityDistrict Garden City Date 2-25-93 Customer Order No. _____COMPANY NAME Berexco Inc.ADDRESS 970 Fourth Financial Center Wichita, KS. 67202LEASE AND WELL NO. Fannie Jennings 1-A COUNTY Grant STATE KS. Sec. 19 Twp 25S Rge. 38EMail Invoice To Berexco Inc. Co. Name Same Address Same No. Copies Requested 1Mail Charts To See Dist. Sheet. Address FANNIE JENNINGS No. Copies Requested 2Formation Test No. 2 Interval Tested From 5780 ft. to 5804 ft. Total Depth 5880 ft.Packer Depth 5775 ft. Size 6 5/8 in.Packer Depth 5804 ft. Size 6 5/8 in.Packer Depth 5780 ft. Size 6 5/8 in.

Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5787 ft.Recorder Number 38419 Cap. 4200Bottom Recorder Depth (Outside) 5790 ft.Recorder Number 2604 Cap. 4150Below Straddle Recorder Depth 5813 ft.Recorder Number 2605 Cap. 4150Drilling Contractor Berexco Rig 4Drill Collar Length 546 I. D. 2 1/4 in.Mud Type Chem. Viscosity 6.2

Weight Pipe Length _____ I. D. _____ in.

Weight 9.1 Water Loss 8.0 cc.Drill Pipe Length 5206 I. D. 3.8 in.Chlorides 1000 P.P.M.Test Tool Length 28 ft. Tool Size 5 1/2 in.Jars: Make W.T.C. Serial Number 408Anchor Length 24 ft. Size 5 1/2 in.Did Well Flow? No Reversed Out NoSurface Choke Size 3/4 in. Bottom Choke Size 3/4 in.Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 X-H in.Blow: Very weak, slowly built to 6" in Bucket I.E. 15 min.Surface slowly built to B.O.B. in 64 min. F.E.Recovered 30 ft. of MudRecovered 90 ft. of 5 1/2" Mud cut WTR 18% Mud 82% WTRRecovered 640 ft. of WTR 22,000 P.P.M.

MAR 03 1993

Recovered _____ ft. of _____

Recovered _____ ft. of Total Fluid Rec. 760'Chlorides 22,000 P.P.M. Sample Jars used _____ Remarks: Tail Pipe = 19' of 5 1/2" 57' of 6 1/8" Total = 76'Time On Location 1:00 A.M. Time Pick Up Tool 3:00 A.M. Time Off Location _____ A.M.Time Set Packer(s) 5:05 A.M. Time Started Off Bottom 9:50 A.M. Maximum Temperature 147°FInitial Hydrostatic Pressure _____ (A) 2836 P.S.I.Initial Flow Period _____ Minutes 15 (B) 31 P.S.I. to (C) 108 P.S.I.Initial Closed In Period _____ Minutes 30 (D) 1167 P.S.I.Final Flow Period _____ Minutes 120 (E) 142 P.S.I. to (F) 338 P.S.I.Final Closed In Period _____ Minutes 120 (G) 874 P.S.I.Final Hydrostatic Pressure _____ (H) 2741 P.S.I.

COMPANY TERMS

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

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

Test Approved By [Signature]
Signature of Customer or his authorized representativeWestern Representative [Signature]

FIELD INVOICE

Open Hole Test	\$ <u>✓ 100.00</u>
Misrun	\$ _____
Straddle Test	\$ <u>✓ 250.00</u>
Jars	\$ <u>✓ 225.00</u>
Selective Zone	\$ _____
Safety Joint	\$ <u>✓ 25.00</u>
Standby	\$ _____
Evaluation	\$ _____
Extra Packer	\$ <u>✓ 150.00</u>
Circ. Sub.	\$ <u>300.00</u>
Mileage	\$ _____
Fluid Sampler	\$ _____
Extra Charts	\$ <u>5.00</u>
Insurance	\$ _____
Telecopier	\$ _____
TOTAL	\$ <u>1390.00</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 2-25-92

Test Ticket No. 18981

Recorder No. 5849 Capacity _____ Location _____ Ft. _____

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud <u>2871</u> P.S.I.			
B First Initial Flow Pressure <u>39</u> P.S.I.			
C First Final Flow Pressure <u>110</u> P.S.I.			
D Initial Closed-in Pressure <u>1171</u> P.S.I.			
E Second Initial Flow Pressure <u>159</u> P.S.I.			
F Second Final Flow Pressure <u>340</u> P.S.I.			
G Final Closed-in Pressure <u>882</u> P.S.I.			
H Final Hydrostatic Mud <u>2778</u> P.S.I.			

Open Tool	M
First Flow Pressure	Mins. <u>15</u> Mins.
Initial Closed-in Pressure	Mins. <u>27</u> Mins.
Second Flow Pressure	Mins. <u>15</u> Mins.
Final Closed-in Pressure	Mins. <u>20</u> Mins.

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>39</u>	0	<u>120</u>	0	<u>159</u>	0	<u>340</u>
P 2 5	<u>76</u>	3	<u>847</u>	5	<u>167</u>	3	<u>530</u>
P 3 10	<u>91</u>	6	<u>947</u>	10	<u>194</u>	6	<u>576</u>
P 4 15	<u>150</u>	9	<u>1006</u>	15	<u>215</u>	9	<u>612</u>
P 5 20		12	<u>1054</u>	20	<u>222</u>	12	<u>639</u>
P 6 25		15	<u>1089</u>	25	<u>248</u>	15	<u>661</u>
P 7 30		18	<u>1120</u>	30	<u>254</u>	18	<u>680</u>
P 8 35		21	<u>1146</u>	35	<u>262</u>	21	<u>698</u>
P 9 40		24	<u>1160</u>	40	<u>269</u>	24	<u>712</u>
P10 45		27	<u>1171</u>	45	<u>277</u>	27	<u>727</u>
P11 50		30		50	<u>283</u>	30	<u>738</u>
P12 55		33		55	<u>288</u>	33	<u>749</u>
P13 60		36		60	<u>295</u>	36	<u>759</u>
P14 65		39		65	<u>298</u>	39	<u>768</u>
P15 70		42		70	<u>302</u>	42	<u>772</u>
P16 75		45		75	<u>305</u>	45	<u>782</u>
P17 80		48		80	<u>310</u>	48	<u>790</u>
P18 85		51		85	<u>318</u>	51	<u>797</u>
P19 90		54		90	<u>325</u>	54	<u>802</u>
P20 95		57		95	<u>329</u>	57	<u>810</u>
100		60		100	<u>333</u>	60	<u>815</u>

WESTERN TESTING CO., INC.

Pressure Data

Date: _____

Test Ticket No. 18981

Recorder No. _____ Capacity _____ Location _____ Ft. _____

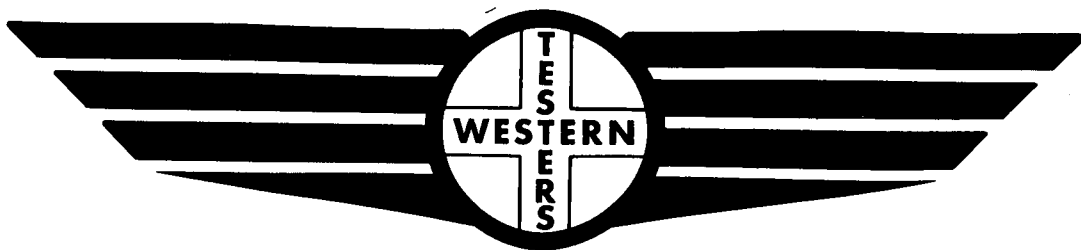
Clock No. _____ Elevation _____ Well Temperature _____ °F

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	<u>836</u>	63	<u>819</u>
P 2 110		66		110	<u>838</u>	66	<u>826</u>
P 3 115		69		115	<u>840</u>	69	<u>833</u>
P 4 120		72		120		72	<u>837</u>
P 5 125		75		125		75	<u>840</u>
P 6 130		78		130		78	<u>846</u>
P 7 135		81		135		81	<u>849</u>
P 8 140		84		140		84	<u>854</u>
P 9 145		87		145		87	<u>860</u>
P10 150		90		150		90	<u>862</u>
P11 155		93		155		93	<u>864</u>
P12 160		96		160		96	<u>867</u>
P13 165		99		165		99	<u>870</u>
P14 170		102		170		102	<u>873</u>
P15 175		105		175		105	<u>875</u>
P16 180		108		180		108	<u>877</u>
P17 185		111		185		111	<u>879</u>
P18 190		114		190		114	<u>880</u>
P19 195		117		195		117	<u>881</u>
P20 200		120		200		120	<u>882</u>

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 2/25/93	TICKET	: 18981
CUSTOMER	: BEREXCO, INC.	LEASE	: FANNIE JENNINGS
WELL	: 1-19	TEST: 2	GEOLOGIST: GRIEVES
ELEVATION	: 3157 KB	FORMATION	: ST. LOIUS
SECTION	: 19	TOWNSHIP	: 29S
RANGE	: 38W	STATE	: KS
GAUGE SN#	: 3849	RANGE	: 4200
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	5780.00 ft	TO:	5804.00 ft	TVD:	5880.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	5787.0 ft		5790.0 ft		
TEMPERATURE:	147.0				
DRILL COLLAR LENGTH:	546.0 ft	I.D.:	2.250 in		
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in		
DRILL PIPE LENGTH :	5206.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	28.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	24.0 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:	5775.0 ft	SIZE:	6.630 in		
PACKER DEPTH:	5780.0 ft	SIZE:	6.630 in		
PACKER DEPTH:	5804.0 ft	SIZE:	6.630 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		

MUD INFORMATION

DRILLING CON. :	BEREDCO RIG 4	VISCOSITY :	62.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	8.000 cc
WEIGHT :	9.100 ppg		
CHLORIDES :	1000 ppm	SERIAL NUMBER:	408
JARS-MAKE :	W.T.C.	REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD VERY WEAK BLOW, SLOWLY BUILT
TO A 6 INCH BLOW IN BUCKET IN 15 MINUTES.
FINAL FLOW PERIOD SURFACE BLOW, SLOWLY BUILT TO

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

BOTTOM OF BUCKET IN 64 MINUTES.
TAIL PIPE = 19' OF 5 1/2" - 57' OF 6 1/8" TOTAL=76'

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
30.0	0.0	0.0	0.0	100.0	MUD
90.0	0.0	0.0	82.0	18.0	SLY MUD CUT WATER
640.0	0.0	0.0	100.0	0.0	WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 22000 P.P.M.

RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	130.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	0.0000 STB/D
MUD VOLUME:	0.6480 STB	AVERAGE WATER RATE:	58.3288 STB/D
WATER VOLUME:	5.0386 STB		
TOTAL FLUID :	5.6866 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2836.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	31.00	108.00
INITIAL SHUT-IN	30.00		1167.00
FINAL FLOW	120.00	142.00	338.00
FINAL SHUT-IN	120.00		874.00

FINAL HYDROSTATIC PRESSURE: 2741.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2871.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	39.00	120.00
INITIAL SHUT-IN	27.00		1171.00
FINAL FLOW	115.00	159.00	340.00
FINAL SHUT-IN	120.00		882.00

FINAL HYDROSTATIC PRESSURE: 2778.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 2/25/93	TICKET : 18981
CUSTOMER : BEREXCO, INC.	LEASE : FANNIE JENNINGS
WELL : 1-19	GEOLOGIST: GRIEVES
ELEVATION: 3157 KB	FORMATION: ST. LOIUS
SECTION : 19	TOWNSHIP : 29S
RANGE : 38W	STATE : KS
GAUGE SN#: 3849	CLOCK : 12
TEST: 2	
COUNTY: GRANT	
RANGE : 4200	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	39.00	39.00
5.00	76.00	37.00
10.00	91.00	15.00
15.00	120.00	29.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	841.00	841.00	0.00
6.00	947.00	106.00	0.00
9.00	1006.00	59.00	0.00
12.00	1054.00	48.00	0.00
15.00	1089.00	35.00	0.00
18.00	1120.00	31.00	0.00
21.00	1146.00	26.00	0.00
24.00	1160.00	14.00	0.00
27.00	1171.00	11.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	159.00	159.00
5.00	167.00	8.00
10.00	194.00	27.00
15.00	215.00	21.00
20.00	233.00	18.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

Time (min)	Pressure	Delta P
25.00	248.00	15.00
30.00	254.00	6.00
35.00	262.00	8.00
40.00	269.00	7.00
45.00	277.00	8.00
50.00	283.00	6.00
55.00	288.00	5.00
60.00	295.00	7.00
65.00	298.00	3.00
70.00	302.00	4.00
75.00	305.00	3.00
80.00	310.00	5.00
85.00	318.00	8.00
90.00	325.00	7.00
95.00	329.00	4.00
100.00	333.00	4.00
105.00	336.00	3.00
110.00	338.00	2.00
115.00	340.00	2.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	530.00	530.00	0.00
6.00	576.00	46.00	0.00
9.00	612.00	36.00	0.00
12.00	639.00	27.00	0.00
15.00	661.00	22.00	0.00
18.00	680.00	19.00	0.00
21.00	698.00	18.00	0.00
24.00	713.00	15.00	0.00
27.00	727.00	14.00	0.00
30.00	738.00	11.00	0.00
33.00	749.00	11.00	0.00
36.00	759.00	10.00	0.00
39.00	768.00	9.00	0.00
42.00	773.00	5.00	0.00
45.00	782.00	9.00	0.00
48.00	790.00	8.00	0.00
51.00	797.00	7.00	0.00
54.00	803.00	6.00	0.00
57.00	810.00	7.00	0.00

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>
60.00	815.00	5.00	0.00
63.00	819.00	4.00	0.00
66.00	826.00	7.00	0.00
69.00	833.00	7.00	0.00
72.00	837.00	4.00	0.00
75.00	840.00	3.00	0.00
78.00	846.00	6.00	0.00
81.00	849.00	3.00	0.00
84.00	854.00	5.00	0.00
87.00	860.00	6.00	0.00
90.00	862.00	2.00	0.00
93.00	864.00	2.00	0.00
96.00	867.00	3.00	0.00
99.00	870.00	3.00	0.00
102.00	873.00	3.00	0.00
105.00	875.00	2.00	0.00
108.00	877.00	2.00	0.00
111.00	879.00	2.00	0.00
114.00	880.00	1.00	0.00
117.00	881.00	1.00	0.00
120.00	882.00	1.00	0.00