TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name J.L. SANDER #1 Test No. 1 Date 8-8-93

Company N-B COMPANY FOR OIL QUEST Zone LANSING "F"

Address PO BOX 506 RUSSELL KS 67665-0506 Elevation 1975

Co. Rep./Geo. RON NELSON Cont. EMPHASIS RIG #8 Est. Ft. of Pay

Location: Sec. 33 Twp. 6S Rge. 18W Co. ROOKS State KS

Interval Tested 3235-3260

Anchor Length 25

Top Packer Depth 3230

Bottom Packer Depth 3235

Total Depth 3260

Drill Pipe Size 4.5" XH

Wt. Pipe I.D. - 2.7 Ft. Run

Drill Collar – 2.25 Ft. Run

Mud Wt. 9.5 lb/Gal.

Viscosity 50 Filtrate 10.6

Tool Open @ 8:50 PM Initial Blow WEAK BLOW (1/4")

Final Blow NO BLOW

Recovery - Total Feet 20 Flush Tool? NO

Rec. 20 Feet of WATERY DRILLING MUD 12%WATER/88%MUD

Rec. Feet of WITH A FEW OIL SPECKS

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 104 °F Gravity °API @ °F Corrected Gravity °API

RW 2.11 @ 82 °F Chlorides 3500 ppm Recovery Chlorides 1600 ppm System

(A) Initial Hydrostatic Mud 1664.2 PSI AK1 Recorder No. 13278 Range 4400

(B) First Initial Flow Pressure 39.6 PSI @ (depth) 3257 w / Clock No. 22993

(C) First Final Flow Pressure 49.5 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 1165.2 PSI @ (depth) 3252 w / Clock No. 30410

(E) Second Initial Flow Pressure 36.2 PSI AK1 Recorder No. Range

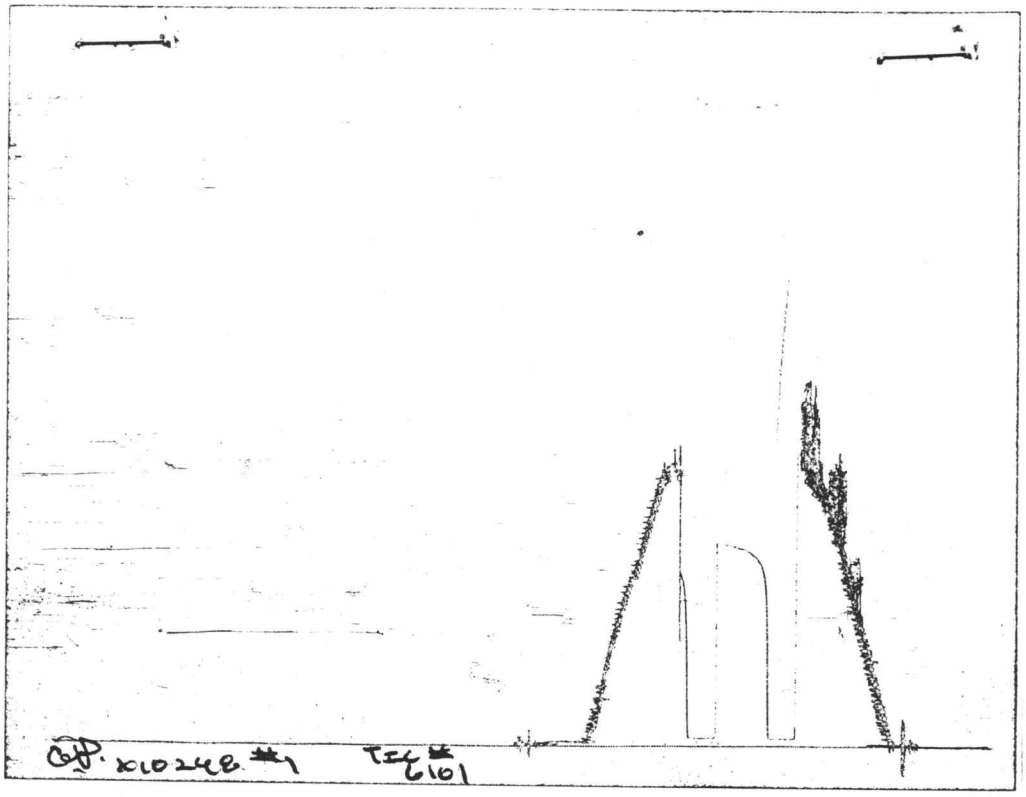
(F) Second Final Flow Pressure 36.2 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 1002.4 PSI Initial Opening 20 Final Flow 20

(H) Final Hydrostatic Mud 1618.5 PSI Initial Shut-in 40 Final Shut-in 8

Our Representative GARY PEVOTEAUX

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1659	1664.2
(B) FIRST INITIAL FLOW PRESSURE	27	39.6
(C) FIRST FINAL FLOW PRESSURE	30	49.5
(D) INITIAL CLOSED-IN PRESSURE	1154	1165.2
(E) SECOND INITIAL FLOW PRESSURE	30	36.2
(F) SECOND FINAL FLOW PRESSURE	30	36.2
(G) FINAL CLOSED-IN PRESSURE	979	1002.4
(H) FINAL HYDROSTATIC MUD	1613	1618.5

FLUID SAMPLER DATA

Ticket No.: 6101 Date: 8-8-93

Company: N-B COMPANY FOR OIL QUEST

Lease: J.L. SANDER #1 Test No.: 1

County: ROOKS Sec.: 33 Twp.: 6S Rng.: 18W

SAMPLER RECOVERY

Gas	
Oil	TRACE
Mud	1600
Water	1600
Other	
Pressure	40
TOTAL	3200

SAMPLER ANALYSIS

Resistivity	0.149	ohms@	82	F
Chlorides	54000			ppm.
Gravity			corrected @60F	

PIT MUD ANALYSIS

Chlorides	1600			
Resistivity	4.34	ohms@	81	F
Viscosity	50			
Mud Wt.	9.5			
Filtrate	10.6			
Other				

PIPE RECOVERY

TOP

Resistivity		ohms@	F
Chlorides			ppm

MIDDLE

Resistivity		ohms@	F
Chlorides			ppm

BOTTOM

Resistivity	2.11	ohms@	82	F
Chlorides	3500			ppm

TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 6101 Date 8-8-93

Company Name N-B Co. For Oil Quest

Lease J.L. Sander #1 Test No. 1

County Rooks Ks. Sec. 33 Twp. 6S Rng. 18W

SAMPLER RECOVERY

Gas None ML

Oil trace ML

Mud 1,600 ML

Water 1,600 ML

Other ~ ML

Pressure 40 PSI

Total 3,200 ML

PIT MUD ANALYSIS

Chlorides 1,600 ppm.

Resistivity 4.34 ohms @ 81 F

Viscosity 50

Mud Weight 9.5

Filtrate 10.6 cc.

Other

SAMPLER ANALYSIS

Resistivity 0.149 ohms @ 82 F

Chlorides 54,000 ppm.

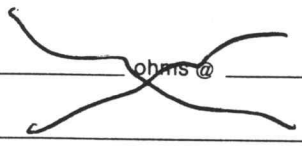
Gravity N.A. corrected @ 60 F

PIPE RECOVERY

TOP

Resistivity ohms @ F

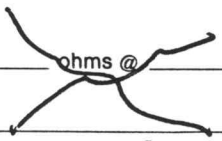
Chlorides ppm.



MIDDLE

Resistivity ohms @ F

Chlorides ppm.



BOTTOM 20' of W.M. (w oil specs.

Resistivity 2.11 ohms @ 82 F

Chlorides 3,500 ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 6101

Well Name & No. J.L. SANDER #1 Test No. 1 Date 8-8-93

Company N-B COMPANY INC. FOR OILQUEST Zone Tested LANS "F"

Address P.O. BOX 506 RUSSELL KS. 67665-0506 Elevation 1975 K.B.

Co. Rep./Geo. RON NELSON Cont. EMPHASIS OILOPR. #8 Est. Ft. of Pay

Location: Sec. 33 Twp. 6S Rge. 18W Co. ROOKS State KS.

No. of Copies 5 Distribution Sheet ____ Yes ____ No Turnkey ✓ Yes ____ No ____ Evaluation

Interval Tested 3235-3260' Drill Pipe Size 4 1/2" X.H.

Anchor Length 25' Top Choke — 1" ✓ Bottom Choke — 3/4" ✓

Top Packer Depth 3230' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓

Bottom Packer Depth 3235' Wt. Pipe I.D. — 2.7 Ft. Run NONE

Total Depth 3260' Drill Collar — 2.25 Ft. Run NONE

Mud Wt. 9.5 lb/gal. Viscosity 50 Filtrate 10.6 cc.

Tool Open @ 8:50 P.M. Initial Blow Weak blow. (1/4")

Final Blow No blow.

Recovery — Total Feet 20 Feet of Gas in Pipe NONE. Flush Tool? No

Rec. 20 Feet Of W. Drlg. Mud @ ~ %gas ~ %oil 12 %water 88 %mud

Rec. ____ Feet Of a few oil specs. %gas %oil %water %mud

Rec. ____ Feet Of ____ %gas %oil %water %mud

Rec. ____ Feet Of ____ %gas %oil %water %mud

Rec. ____ Feet Of ____ %gas %oil %water %mud

BHT 104 °F Gravity N.A. °API @ ~ °F Corrected Gravity N.A. °API

RW 2.11 @ 82 °F. Chlorides 3,500 ppm Recovery Chlorides 14,600 ppm System

(A) Initial Hydrostatic Mud	1659 PSI	AK1 Recorder No.	13278	Range	4400
(B) First Initial Flow Pressure	27 PSI	@ (depth)	3257'	w/Clock No.	22993
(C) First Final Flow Pressure	30 PSI	AK1 Recorder No.	10248	Range	4400
(D) Initial Shut-In Pressure	1154 PSI	@ (depth)	3252'	w/Clock No.	30410
(E) Second Initial Flow Pressure	30 PSI	AK1 Recorder No.	~	Range	~
(F) Second Final Flow Pressure	30 PSI	@ (depth)	~	w/Clock No.	~
(G) Final Shut-In Pressure	979 PSI	Initial Opening	20	Test	✓ 600.00
(H) Final Hydrostatic Mud	1613 PSI	Initial Shut-In	40	Jars	
		Final Flow	20	Safety Joint	
		Final Shut-In	8	Straddle	
				Circ. Sub	
				Sampler	✓ 200.00
				Extra Packer	
				Other	
				TOTAL PRICE $	✓ 800.00

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF 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, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Ron Nelson

Our Representative Corey Pinkston

Printcraft Printers - Hays, KS

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name J.L. SANDER #1 Test No. 2 Date 8-10-93

Company N-B COMPANY FOR OIL QUEST Zone LANSING "G"

Address PO BOX 506 RUSSELL KS 67665-0506 Elevation 1975

Co. Rep./Geo. RON NELSON Cont. EMPHASIS RIG #8 Est. Ft. of Pay

Location: Sec. 33 Twp. 6S Rge. 18W Co. ROOKS State KS

Interval Tested 3232-3303 Drill Pipe Size 4.5" XH

Anchor Length 71 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 3227&3232 Drill Collar – 2.25 Ft. Run

Bottom Packer Depth 3303 Mud Wt. 9.5 lb/Gal.

Total Depth 3580 Viscosity 44 Filtrate 10.2

Tool Open @ 10:36 AM Initial Blow FAIR BLOW (1-8 1/2" IN WATER)

Final Blow WEAK TO FAIR BLOW (SURFACE TO 9" IN WATER)

Recovery - Total Feet 210 Flush Tool? NO

Rec. 90 Feet of HEAVY DRILLING MUD

Rec. 120 Feet of MUDDY SALT WATER 84%WATER/16%MUD

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 108 °F Gravity °API @ °F Corrected Gravity °API

RW 0.09 @ 85 °F Chlorides 78000 ppm Recovery Chlorides 1600 ppm System

(A) Initial Hydrostatic Mud 1679.5 PSI AK1 Recorder No. 13278 Range 4400

(B) First Initial Flow Pressure 59.6 PSI @ (depth) 3236 w / Clock No. 27785

(C) First Final Flow Pressure 96.8 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 1216.2 PSI @ (depth) 3299 w / Clock No. 30410

(E) Second Initial Flow Pressure 102.3 PSI AK1 Recorder No. 13224 Range 4350

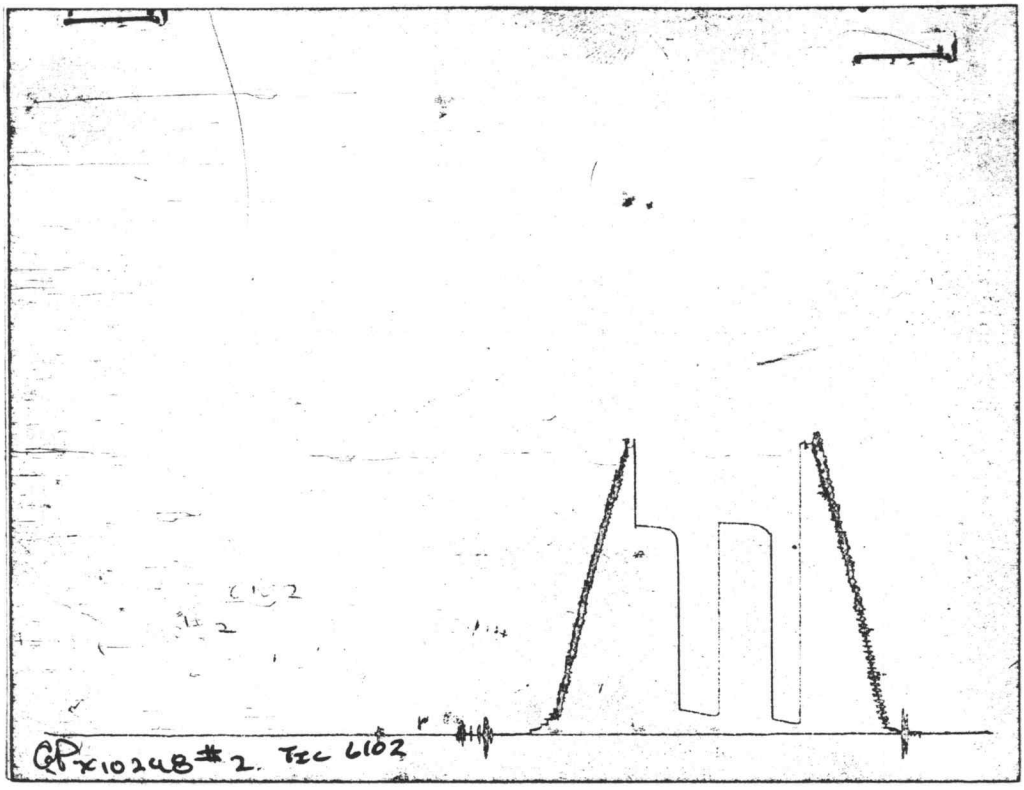
(F) Second Final Flow Pressure 145.2 PSI @ (depth) 3577 w / Clock No. 22993

(G) Final Shut-in Pressure 1206.7 PSI Initial Opening 20 Final Flow 30

(H) Final Hydrostatic Mud 1637.5 PSI Initial Shut-in 40 Final Shut-in 30

Our Representative GARY PEVOTEAUX

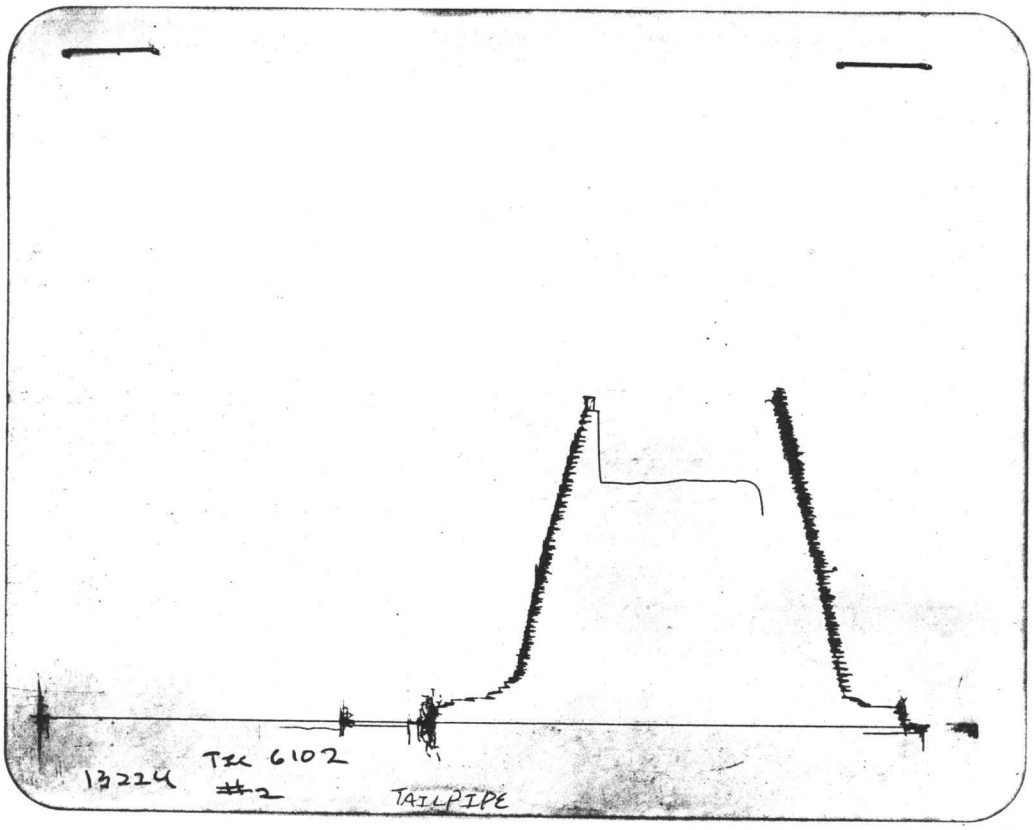
CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1668	1679.5
(B) FIRST INITIAL FLOW PRESSURE	46	59.6
(C) FIRST FINAL FLOW PRESSURE	82	96.8
(D) INITIAL CLOSED-IN PRESSURE	1202	1216.2
(E) SECOND INITIAL FLOW PRESSURE	91	102.3
(F) SECOND FINAL FLOW PRESSURE	134	145.2
(G) FINAL CLOSED-IN PRESSURE	1194	1206.7
(H) FINAL HYDROSTATIC MUD	1629	1637.5

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING

(A) INITIAL HYDROSTATIC MUD

(B) FIRST INITIAL FLOW PRESSURE

(C) FIRST FINAL FLOW PRESSURE

(D) INITIAL CLOSED-IN PRESSURE

(E) SECOND INITIAL FLOW PRESSURE

(F) SECOND FINAL FLOW PRESSURE

(G) FINAL CLOSED-IN PRESSURE

(H) FINAL HYDROSTATIC MUD

FLUID SAMPLER DATA

Ticket No.: 6102 Date: 8-10-93

Company: N-B COMPANY FOR OIL QUEST

Lease: J.L. SANDER #1 Test No.: 2

County: ROOKS Sec.: 33 Twp.: 6S Rng.: 18W

SAMPLER RECOVERY

Gas	
Oil	
Mud	320
Water	2880
Other	
Pressure	140
TOTAL	3200

SAMPLER ANALYSIS

Resistivity	0.09	ohms@	85	F
Chlorides	78000			ppm.
Gravity			corrected @60F	

PIT MUD ANALYSIS

Chlorides	1600			
Resistivity	4.29	ohms@	85	F
Viscosity	44			
Mud Wt.	9.5			
Filtrate	10.2			
Other				

PIPE RECOVERY

TOP

Resistivity	2.93	ohms@	86	F
Chlorides	2900			ppm

MIDDLE

Resistivity		ohms@		F
Chlorides				ppm

BOTTOM

Resistivity	0.09	ohms@	85	F
Chlorides	78000			ppm

TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 6102 Date 8-10-93

Company Name N-B. Co. Inc. For Oil Quest

Lease J.L. Sander #1 Test No. 2

County Rooks Ks. Sec. 33 Twp. 6S Rng. 18W

SAMPLER RECOVERY

Gas None ML

Oil None ML

Mud 320 ML

Water 2,880 ML

Other — ML

Pressure 140 PSI

Total 3,200 ML

PIT MUD ANALYSIS

Chlorides 1,600 ppm.

Resistivity 4.29 ohms @ 85 F

Viscosity 44

Mud Weight 9.5 +

Filtrate 10.2 cc.

Other

SAMPLER ANALYSIS

Resistivity .09 ohms @ 85 F

Chlorides 78,000 ppm.

Gravity N.A. corrected @ 60 F

PIPE RECOVERY

TOP 90' of Heavy Drlg. Mud.

Resistivity 2.93 ohms @ 86 F

Chlorides 2,900 ppm.

MIDDLE

Resistivity ohms @ F

Chlorides ppm.

BOTTOM 120' of Muddy Salt Water

Resistivity .09 ohms @ 85 F

Chlorides 78,000 ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 6102

Well Name & No. J.L. SANDER #1 Test No. 2 STRADDLE Date 8-10-93

Company N-B COMPANY INC. FOR OIL QUEST Zone Tested LANS "G"

Address P.O. BOX 506 RUSSELL KS. 67665-0506 Elevation 1975 K.B.

Co. Rep./Geo. RON NELSON Cont. EMPHASIS OIL OPER. #8 Est. Ft. of Pay

Location: Sec. 33 Twp. 6S Rge. 18W Co. ROOKS State KS.

No. of Copies 5 Distribution Sheet ____ Yes ____ No Turnkey ✓ Yes ____ No ____ Evaluation

Interval Tested 3232 - 3303' Drill Pipe Size 4½" X.H.

Anchor Length 71' Top Choke — 1" ✓ Bottom Choke — ¾" ✓

Top Packer Depth 3227 & 3232' Hole Size — 7⅞" ✓ Rubber Size — 6¾" ✓

Bottom Packer Depth 3303' Wt. Pipe I.D. — 2.7 Ft. Run NONE

Total Depth 3580' Drill Collar — 2.25 Ft. Run NONE

Mud Wt. 9.5 + lb / gal. Viscosity 44 Filtrate 10.2 cc.

Tool Open @ 10:36 AM Initial Blow Fair blow (1 - 8½" in H2O)

Final Blow Weak to fair blow. (surface to 9" in H2O)

Recovery — Total Feet 210 Feet of Gas in Pipe ____ Flush Tool? No

Rec. 90	Feet Of Heavy Drlg Mud.	%gas	%oil	%water 100	%mud
Rec. 120	Feet Of Muddy Salt Water	%gas	%oil 84	%water 16	%mud
Rec. ____	Feet Of	%gas	%oil	%water	%mud
Rec. ____	Feet Of	%gas	%oil	%water	%mud
Rec. ____	Feet Of	%gas	%oil	%water	%mud

BHT 108 °F Gravity N.A. °API @ — °F Corrected Gravity N.A. °API

RW .09 @ 85 °F Chlorides 78,000 ppm Recovery Chlorides 1,600 ppm System

(A) Initial Hydrostatic Mud	1668 PSI	AK1 Recorder No. 13278	Range 4400
(B) First Initial Flow Pressure	46 PSI	@ (depth) 3236'	w/Clock No. 21785 18HR
(C) First Final Flow Pressure	82 PSI	AK1 Recorder No. 10248	Range 4400
(D) Initial Shut-In Pressure	1202 PSI	@ (depth) 3299'	w/Clock No. 30440
(E) Second Initial Flow Pressure	91 PSI	AK1 Recorder No. 13224	Range 4350
(F) Second Final Flow Pressure	134 PSI	@ (depth) 3577'	w/Clock No. 22993
(G) Final Shut-In Pressure	1194 PSI	Initial Opening 20	Test ✓ 600.00
(H) Final Hydrostatic Mud	1629 PSI	Initial Shut-In 40	Jars ____
		Final Flow 30	Safety Joint ____
		Final Shut-In 30	Straddle ✓ 250.00
			Circ. Sub ____
			Sampler ✓ 200.00
			Extra Packer ✓ 150.00
			Other ____
			TOTAL PRICE $ 1,200.00

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF 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, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By M. D. Helton

Our Representative Gary Pevoteaux

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