

15-067-21182

TRILOBITE TESTING COMPANY, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name MLP COHEN A #1 (Scott "A" #2) Test No. 1 Date 3/30/92
 Company OXY USA INC. Zone Tested N/A
 Address BOX 26100 OKLAHOMA CITY OK 73126-0100 Elevation 2900
 Co. Rep./Geo. HAROLD JONES Cont. CHEYENNE #4 Est. Ft. of Pay _____
 Location: Sec. 26 Twp. 30S Rge. 35W Co. GRANT State KS

Interval Tested 4496-4514 Drill Pipe Size 4.5 XH
 Anchor Length 18 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 4496 Drill Collar - 2.25 Ft. Run 7.00
 Bottom Packer Depth 4514
 Total Depth 4554

Mud Wt. 9.1 lb / gal. Viscosity 42 Filtrate 10.4

Tool Open @ 8:40 PM Initial Blow WEAK 1/2" BLOW BUILT TO 5" IN BUCKET
bled off: NO BLOW BACK
 Final Blow WEAK 1/4" BLOW THROUGHOUT
bled off: NO BLOW BACK

Recovery - Total Feet 600 Flush Tool? NO

Rec. 120 Feet of GAS IN PIPE

Rec. 120 Feet of MUDDY WATER

Rec. 300 Feet of GASSY OIL CUT MUD-25%GAS/5%OIL/20%WTR/50%MUD

Rec. 180 Feet of CLEAN WATER

Rec. _____ Feet of _____
 BHT 124 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW 0.103 @ 85 °F Chlorides 47000 ppm Recovery Chlorides 1000 ppm System

(A) Initial Hydrostatic Mud 2140.7 PSI Ak1 Recorder No. 13851 Range 4425

(B) First Initial Flow Pressure 44.9 PSI @ (depth) 4500 w/Clock No. 26191

(C) First Final Flow Pressure 87.1 PSI Ak1 Recorder No. _____ Range _____

(D) Initial Shut-in Pressure 1340.9 PSI @ (depth) 4510 w/Clock No. 27585

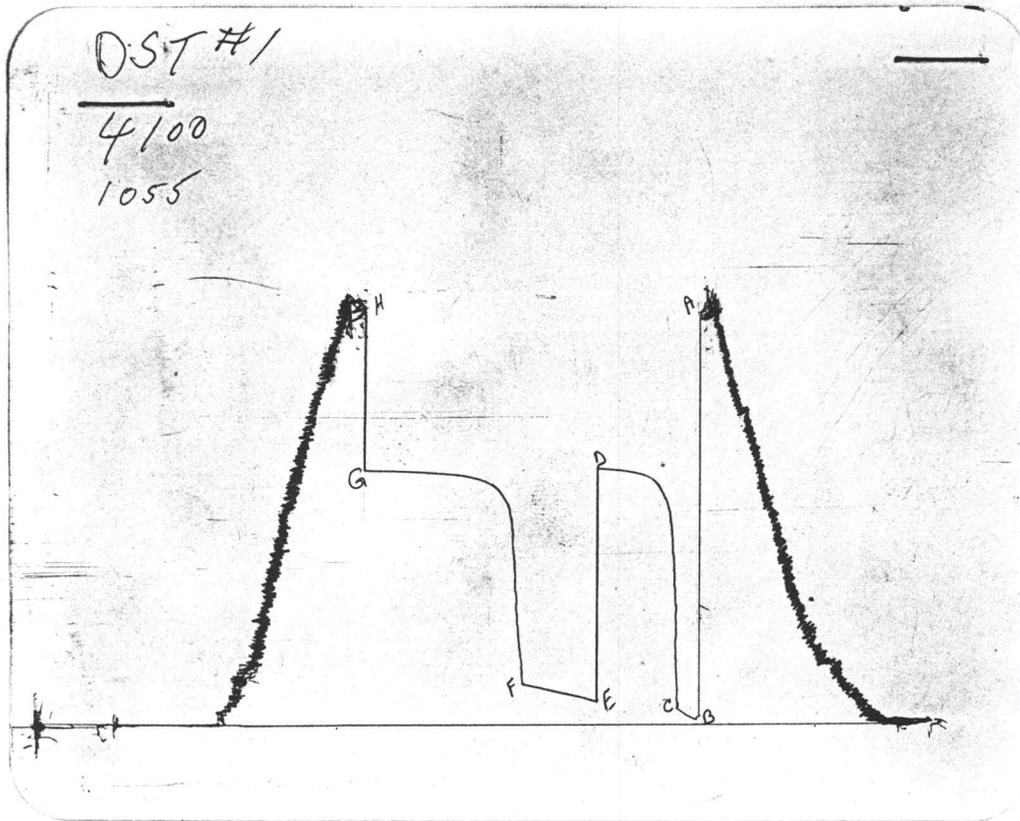
(E) Second Initial Flow Pressure 120.4 PSI Ak1 Recorder No. 13850 Range 4325

(F) Second Final Flow Pressure 228.7 PSI @ (depth) 4551 w/Clock No. 25814

(G) Final Shut-in Pressure 1340.9 PSI Initial Opening 15 Final Flow 60

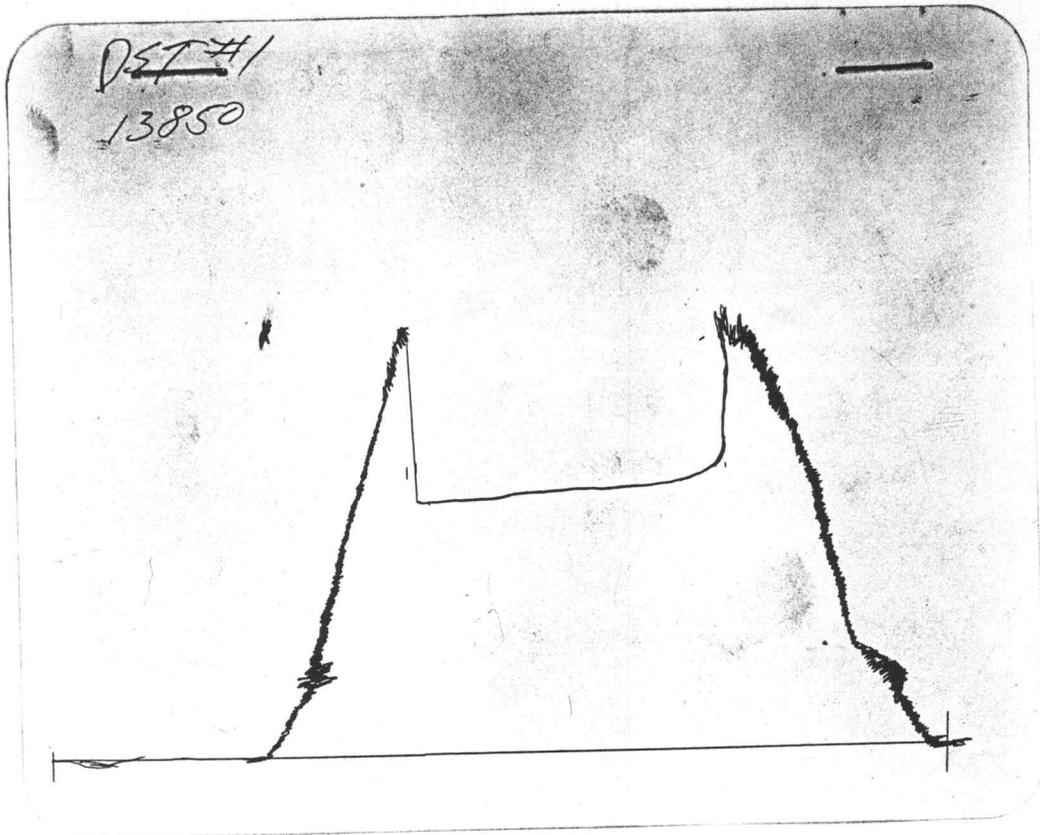
(H) Final Hydrostatic Mud 2020.8 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative DANNY MORGAN TOTAL PRICE \$ 1400



POINT This is an actual photograph of recorder chart
 PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2136	2140.7
(B) FIRST INITIAL FLOW PRESSURE	43	44.9
(C) FIRST FINAL FLOW PRESSURE	86	87.1
(D) INITIAL CLOSED-IN PRESSURE	1337	1340.9
(E) SECOND INITIAL FLOW PRESSURE	118	120.4
(F) SECOND FINAL FLOW PRESSURE	224	228.7
(G) FINAL CLOSED-IN PRESSURE	1337	1340.9
(H) FINAL HYDROSTATIC MUD	2115	2020.8



POINT This is an actual photograph of recorder chart
PRESSURE

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

TRILOBITE TESTING COMPANY

, L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 4815 Date 3/30/92
Company Name OXY USA INC.
Lease MLP COHEN A #1 Test No. 1
County GRANT Sec. 26 Twp. 30S Rng. 35W

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud _____ ML
Water 3200 ML
Other _____ ML
Pressure 0 PSI
Total 3200 ML

PIT MUD ANALYSIS

Chlorides 1000 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 42
Mud Weight 9.1
Filtrate 10.4
Other _____

SAMPLER ANALYSIS

Resistivity 0.103 ohms @ 85 F
Chlorides 47000 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
BOTTOM
Resistivity 0.103 ohms @ 85 F
Chlorides 47000 ppm.

TRILOBITE TESTING COMPANY L.L.C.

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FLUID SAMPLER DATA

Ticket No. 4815 Date 3/30/92
Company Name OXY USA INC.
Lease MCP Cohen A - #1 Test No. one
County _____ Sec. 26 Twp. 30S Rng. 35W

SAMPLER RECOVERY

Gas 0 ML
Oil _____ ML
Mud _____ ML
Water 3200 ML
Other _____ ML
Pressure 0 PSI
Total 3200 ML

PIT MUD ANALYSIS

Chlorides 1000 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 42
Mud Weight 9.1
Filtrate 10.4
Other _____

SAMPLER ANALYSIS

Resistivity .103 ohms @ 85 F
Chlorides 47,000 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity .103 ohms @ 85 F
Chlorides 47,000 ppm.

TRILOBITE TESTING COMPANY L.L.C.

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Test Ticket

No 4815

Well Name & No. MCP Cohen A #1 Test No. one Date 3/30/92
 Company Oxy USA Inc. Zone Tested _____
 Address Box 26100 OKLA city 73126-0100 Elevation 2900
 Co. Rep./Geo. Harold Jones Cont. Cheyenne #4 Est. Ft. of Pay _____
 Location: Sec. 26 Twp. 30s Rge. 35w Co. Grant State Ks.
 No. of Copies 12 Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 4496 - 4514 Drill Pipe Size 4 1/2 X-14
 Anchor Length 18 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 4496 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 4514 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 4554 Drill Collar — 2.25 Ft. Run 700
 Mud Wt. 9.1 lb/gal. Viscosity 42 Filtrate 10.4
 Tool Open @ 8:40 P Initial Blow Weak 1/2" Blow Built to 5" in Bucket
Bled off: No blow Back

Final Blow Weak 1/4" blow throughout
Bled off: No blow Back

Recovery — Total Feet 600 Feet of Gas in Pipe 120 Flush Tool? No

Rec.	Feet Of	%gas	%oil	%water	%mud
<u>120</u>	<u>Muddy Water</u>				
<u>300</u>	<u>Gassy O-C-M</u>	<u>25</u>	<u>5</u>	<u>20</u>	<u>50</u>
<u>180</u>	<u>Clean Water</u>			<u>100</u>	
____	____	%gas	%oil	%water	%mud
____	____	%gas	%oil	%water	%mud

BHT 124 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW -103 @ 85 °F Chlorides 47,000 ppm Recovery Chlorides 1000 ppm System

(A) Initial Hydrostatic Mud 2136 PSI Ak1 Recorder No. 13851 Range 4425
 (B) First Initial Flow Pressure 43 PSI @ (depth) 4500 w/Clock No. 26191
 (C) First Final Flow Pressure 86 PSI AK1 Recorder No. _____ Range _____
 (D) Initial Shut-In Pressure 1337 PSI @ (depth) 4510 w/Clock No. 27585
 (E) Second Initial Flow Pressure 118 PSI AK1 Recorder No. 13850 Range 4325
 (F) Second Final Flow Pressure 224 PSI @ (depth) 4551 w/Clock No. 25814
 (G) Final Shut-In Pressure 1337 PSI Initial Opening 15 Test _____ X
 (H) Final Hydrostatic Mud 2115 PSI Initial Shut-In 60 Jars _____ X

TRILOBITE TESTING COMPANY 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 SUBSTAINED, 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.

Final Flow 60 Safety Joint _____ X
 Final Shut-In 120 Straddle _____ X
 Circ. Sub _____
 Sampler _____ X
 Extra Packer _____ X

Approved By Mark Peter
 Our Representative Danny W. Morgan

Other _____
 TOTAL PRICE \$ _____

15-067-21182

TRILOBITE TESTING COMPANY, L.L.C.

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Drill-Stem Test Data

Well Name MLP COHEN A #1 Test No. 2 Date 4/1/92
 Company OXY USA INC. Zone Tested UPR MORROW
 Address BOX 26100 OKLAHOMA CITY OK 73126-0100 Elevation 2900
 Co. Rep./Geo. HAROLD JONES Cont. CHEYENNE #4 Est. Ft. of Pay 20
 Location: Sec. 26 Twp. 30S Rge. 35W Co. GRANT State KS

Interval Tested 5208-5289 Drill Pipe Size 4.5 XH
 Anchor Length 81 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 5202 Drill Collar - 2.25 Ft. Run 700
 Bottom Packer Depth 5208
 Total Depth 5289

Mud Wt. 8.9 lb / gal. Viscosity 46 Filtrate 8.8

Tool Open @ 4:45 PM Initial Blow BOTTOM OF BUCKET IN 10 SECONDS/GAS TO SURFACE
IN 11 MINUTES-FLOWED OIL IN 14 MINUTES/GAUGED @1274
ISI:2 1/4 HR-REVERSED OIL & GAS OUT

Recovery - Total Feet 5200 Flush Tool? NO

Rec. 5200 Feet of GASSY OIL/80%GAS/20%OIL

Rec. _____ Feet of _____

BHT 132 °F Gravity 42 °API @ 50 °F Corrected Gravity 43 °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1000 ppm System

(A) Initial Hydrostatic Mud 2460.9 PSI AK1 Recorder No. 13851 Range 4425

(B) First Initial Flow Pressure 1214.7 PSI @ (depth) 5214 w/Clock No. 27585

(C) First Final Flow Pressure 1298.7 PSI AK1 Recorder No. 13850 Range 4325

(D) Initial Shut-in Pressure 1750.8 PSI @ (depth) 5286 w/Clock No. 26191

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

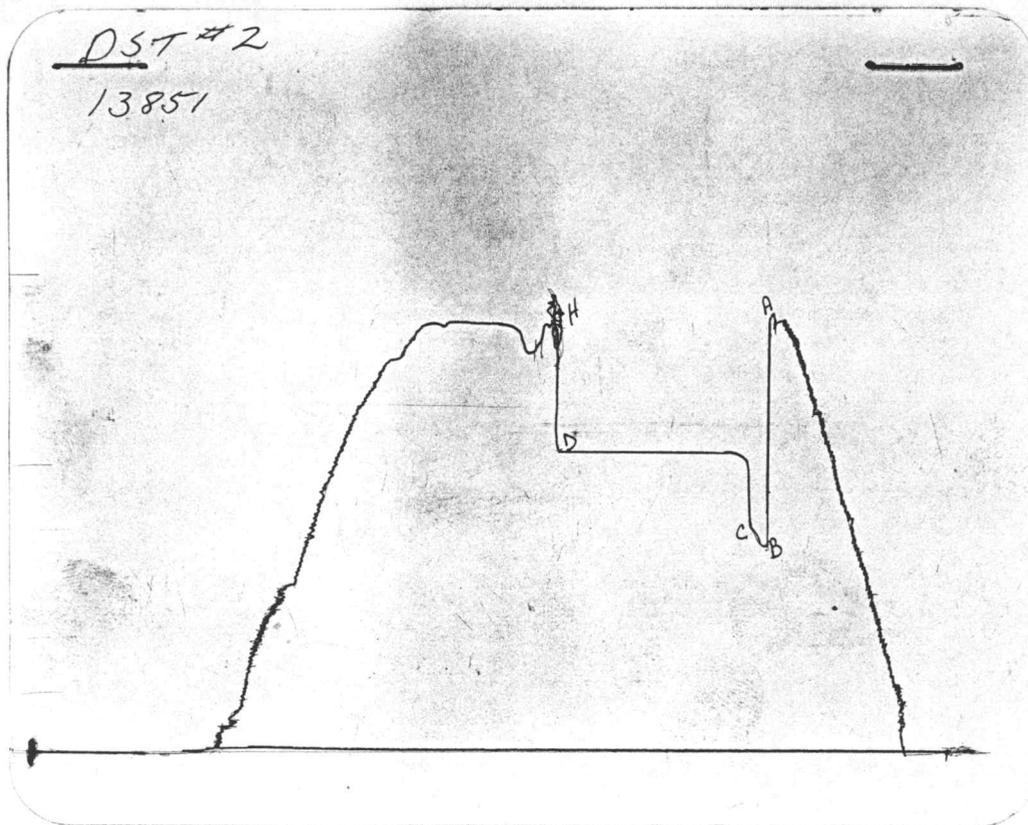
(F) Second Final Flow Pressure _____ PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure _____ PSI Initial Opening 15 Final Flow _____

(H) Final Hydrostatic Mud 2425.9 PSI Initial Shut-in 135 Final Shut-in _____

Our Representative DANNY MORGAN

TOTAL PRICE \$ 935



POINT This is an actual photograph of recorder chart PRESSURE

POINT	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2454	2460.9
(B) FIRST INITIAL FLOW PRESSURE	1206	1214.7
(C) FIRST FINAL FLOW PRESSURE	1293	1298.7
(D) INITIAL CLOSED-IN PRESSURE	1746	1750.8
(E) SECOND INITIAL FLOW PRESSURE		
(F) SECOND FINAL FLOW PRESSURE		
(G) FINAL CLOSED-IN PRESSURE		
(H) FINAL HYDROSTATIC MUD	2115	2425.9

CALCULATED RECOVERY ANALYSIS

DST #

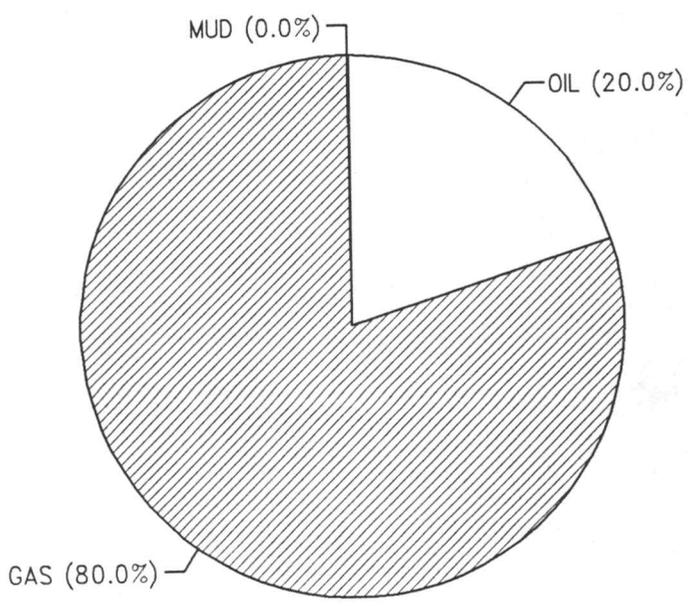
2

TICKET #

4816

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1	4500	80	3600	20	900	0	0	0	0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
WEIGHT 1			0		0		0		0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRILL 1	700	80	560	20	140	0	0	0	0
COLLAR 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	5200		4160		1040		0		0

BBL OIL=	13.4826	*	HRS OPEN	0.25	BBL/DAY	1294.3296
BBL WATER=	0	*				0
BBL MUD=	0					
BBL GAS =	53.9304					



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Test Ticket

No 4816

Well Name & No. <u>M&P Cohen A#1</u>		Test No. <u>2</u>	Date <u>4/1/92</u>
Company <u>OXY USA Inc.</u>		Zone Tested <u>Upper pleroc</u>	
Address <u>Box 26100 OKLA. city 73126-0100</u>		Elevation <u>2900</u>	
Co. Rep./Geo. <u>Harold Jones</u>		Cont. <u>Cheyenne 4</u>	Est. Ft. of Pay <u>20</u>
Location: Sec. <u>26</u>	Twp. <u>30S</u>	Rge. <u>35W</u>	Co. <u>Grant</u> State <u>KS.</u>
No. of Copies <u>3</u>	Distribution Sheet	Yes <input type="checkbox"/> No <input type="checkbox"/>	Turnkey Yes <input type="checkbox"/> No <input type="checkbox"/>
		Yes <input type="checkbox"/> No <input type="checkbox"/>	Evaluation

Interval Tested <u>5208-5289</u>	Drill Pipe Size <u>4 1/2 X-H</u>
Anchor Length <u>81</u>	Top Choke — 1" Bottom Choke — 3/4"
Top Packer Depth <u>5202</u>	Hole Size — 7 7/8" Rubber Size — 6 3/4"
Bottom Packer Depth <u>5208</u>	Wt. Pipe I.D. — 2.7 Ft. Run
Total Depth <u>5289</u>	Drill Collar — 2.25 Ft. Run <u>700</u>
Mud Wt. <u>8.9</u> lb/gal.	Viscosity <u>46</u> Filtrate <u>8.8</u>
Tool Open @ <u>4:35 P</u>	Initial Blow <u>Bottom Bucket 10 seconds, BTB 11 min</u>
<u>Flowed oil in 14 min. Gauged @ 1274 / ISI: 2 1/4 hrs.</u>	
Final Blow	<u>Reversed oil + gas out</u>

Recovery — Total Feet <u>5200</u>	Feet of Gas in Pipe <u>oil + GAS to surface</u>	Flush Tool? <u>No</u>
Rec. <u>5200</u> Feet Of	<u>GLASSY oil 80</u> %gas <u>20</u> %oil	%water %mud
Rec. _____ Feet Of	%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 132 °F Gravity 42 °API @ 50 °F Corrected Gravity 43 °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1000 ppm System

- (A) Initial Hydrostatic Mud 2454 PSI Ak1 Recorder No. 13851 Range 4425
- (B) First Initial Flow Pressure 1206 PSI @ (depth) 5214 w/Clock No. 27585
- (C) First Final Flow Pressure 1217 PSI Ak1 Recorder No. 13850 Range 4325
- (D) Initial Shut-In Pressure 1746 PSI @ (depth) 5286 w/Clock No. 26191
- (E) Second Initial Flow Pressure _____ PSI Ak1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure _____ PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-In Pressure _____ PSI Initial Opening 15 Test
- (H) Final Hydrostatic Mud 2421 PSI Initial Shut-In 135 Jars

TRILOBITE TESTING COMPANY 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 SUBSTAINED, 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.

- Final Flow _____ Safety Joint
- Final Shut-In _____ Straddle _____
- Circ. Sub
- Sampler No chg' malfunction

Approved By Harold Jones

Our Representative Darryl W. Mazon

Extra Packer _____ Other _____

TOTAL PRICE \$ _____