

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name CLARK UNIT #2 Test No. 1 Date 11/11/93
Company MOBIL OIL CO. Zone COUNCIL GROV
Address 2319 N KANSAS (P O BOX 2173) LIBERAL KS 67901 Elevation 3023
Co. Rep./Geo. BENNY BRIGGS Cont. CHEYENNE DRLG RIG #4 Est. Ft. of Pay _____
Location: Sec. 20 Twp. 28S Rge. 34W Co. HASKELL State KS

Interval Tested 2903-2918 Drill Pipe Size 4.5 FH
Anchor Length 15 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 2895 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 2903 Mud Wt. 1.24 lb/Gal.
Total Depth 2918 Viscosity 86 Filtrate _____

Tool Open @ 7:50 AM Initial Blow STRONG BLOW - OPEN 2"

Final Blow STRONG BLOW - OPEN 2"

Recovery - Total Feet 120 Flush Tool? NO

Rec. 120 Feet of SOAPY WATER
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.151 @ 56 °F Chlorides 65000 ppm Recovery Chlorides 2400 ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. _____ Range _____

(B) First Initial Flow Pressure _____ PSI @ (depth) _____ w / Clock No. _____

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____

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

(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 _____ Final Flow _____

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

Our Representative TOM HORACEK

FLUID SAMPLER DATA

Ticket No.: 6665 Date: 11/11/93
Company: MOBIL OIL CO.
Lease: CLARK UNIT #2 Test No.: 1
County: HASKELL Sec.: 20 Twp.: 28S Rng.: 34W

SAMPLER RECOVERY

Gas 4000
Oil
Mud
Water
Other
Pressure 170
TOTAL 4000

SAMPLER ANALYSIS

Resistivity ohms@ F
Chlorides ppm.
Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 2400
Resistivity ohms@ F
Viscosity 86
Mud Wt. 1.24
Filtrate
Other FOAM

PIPE RECOVERY

TOP

Resistivity ohms@ F
Chlorides ppm

MIDDLE

Resistivity ohms@ F
Chlorides ppm

BOTTOM

Resistivity 0.151 ohms@ 56 F
Chlorides 65000 ppm

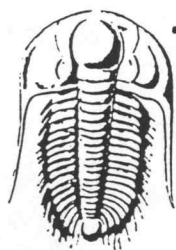
GAS VOLUME REPORT

MOBIL OIL CO.

CLARK UNIT #2

DST # 1

MIN	PSIG	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
5	26	0.125	2.69	5	20	0.375	15.9
10	32	0.125	2.99	10	18	0.375	15.1
15	36	0.125	3.17	15	17	0.375	14.7
20	38	0.125	3.25	20	15	0.375	13.9
25	40	0.125	3.34	25	13	0.375	12.9
30	40	0.125	3.34	30	12	0.375	12.4
				35	10	0.375	11.3
				40	10	0.375	11.3
				45	9	0.375	10.7
				50	9	0.375	10.7
				55	8	0.375	10.1
				60	8	0.375	10.1



TRILOBITE
TESTING L.L.C.

Shut-in tool 5'

Sampler 3'

Hydraulic tool 5'

AP carrier 4'

Jars 5'

Safety Jt. 2'

Shale Packer 8'

Shale Packer 8'

5'

5'

5'

REC.

Total depth

2918'

Recorder

Clark Unit #2

DST #1

2895'

2903'

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 6665 Date 11-11-93
Company Name Mobil Oil Corp.
Lease Clark Unit #2 Test No. 41
County Haskell Ks. Sec. 20 Twp. 28 Rng. 34

SAMPLER RECOVERY

Gas 4000 ML
Oil _____ ML
Mud _____ ML
Water _____ ML
Other _____ ML
Pressure 170 PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides 2400 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 86
Mud Weight 1.24
Filtrate _____
Other _____

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity 151 ohms @ 56 F
Chlorides 65000 ppm.



GAS VOLUME REPORT

Mobil Oil Corp.

Clark Unit # 2

WELL NAME AND NO.

DST NO.

Remarks:

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 6665

Well Name & No. <u>Clark Unit # 2</u>	Test No. <u>#1</u>	Date <u>11-11-93</u>
Company <u>Mobil Oil Corp.</u>	Zone Tested <u>Council Grove</u>	
Address <u>Box 2173 Liberal Ks. 67905</u>	Elevation <u>3023</u>	
Co. Rep./Geo. <u>Benny Briggs</u>	Cont. <u>Cheyenne Drils #4</u>	Est. Ft. of Pay _____
Location: Sec. <u>20</u> Twp. <u>28</u> Rge. <u>34</u>	Co. <u>Haskell</u> State <u>KS.</u>	
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested <u>2903-2918</u>	Drill Pipe Size <u>4.5 F-Hole</u>
Anchor Length <u>15'</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>2895</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>2903</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>2918</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>1.24</u> lb/gal.	Viscosity <u>86</u> Filtrate _____
Tool Open @ <u>7:50 AM</u>	Initial Blow <u>Strong blow - open 2 in.</u>

Final Blow Strong blow - open 2 in.

Recovery — Total Feet <u>120'</u>	Feet of Gas in Pipe _____	Flush Tool? <u>NO</u>
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. <u>120'</u> Feet Of <u>soapy water</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW .151 @ 56 °F Chlorides 65000 ppm Recovery Chlorides 2400 ppm System

(A) Initial Hydrostatic Mud _____	PSI Ak1 Recorder No. _____	Range _____
(B) First Initial Flow Pressure _____	PSI @ (depth) _____	w/Clock No. _____
(C) First Final Flow Pressure _____	PSI AK1 Recorder No. _____	Range _____
(D) Initial Shut-In Pressure _____	PSI @ (depth) _____	w/Clock No. _____
(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 _____	Test <u>600.00</u>
(H) Final Hydrostatic Mud _____	PSI Initial Shut-In _____	Jars <u>200.00</u>

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 [Signature]
 Our Representative Tom Horack

Final Flow _____	Safety Joint <u>50.00</u>
Final Shut-In _____	Straddle <u>50.00</u>
	Stand By <u>200.00</u>
	Clamp Sub _____
	Sampler <u>200.00</u>
	SHALE _____
	Extra Packers <u>200.00 (2)</u>
	HP Carrier <u>50.00</u>
	Other _____

1550

TRILOBITE TESTING, L.L.C.

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Drill-Stem Test Data

Well Name CLARK UNIT #2 Test No. 2 Date 11/12/93
Company MOBIL OIL CO. Zone COUNCIL GROV
Address 2319 N KANSAS (P O BOX 2173) LIBERAL KS 67901 Elevation 3023
Co. Rep./Geo. BENNY BRIGGS Cont. CHEYENNE DRLG RIG #4 Est. Ft. of Pay _____
Location: Sec. 20 Twp. 28S Rge. 34W Co. HASKELL State KS

Interval Tested <u>2944-2953</u>	Drill Pipe Size <u>4.5 FH</u>
Anchor Length <u>9</u>	Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth <u>2936</u>	Drill Collar - 2.25 Ft. Run <u>491</u>
Bottom Packer Depth <u>2944</u>	Mud Wt. _____ lb/Gal.
Total Depth <u>2953</u>	Viscosity <u>88</u> Filtrate _____

Tool Open @ 10:12 PM Initial Blow 1" BLOW - OPEN 2"

Final Blow NO BLOW

Recovery - Total Feet 30 Flush Tool? NO

Rec. <u>30</u>	Feet of <u>SOAPY WATER</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT _____ °F Gravity 58 °API @ _____ °F Corrected Gravity _____ °API
RW 0.201 @ _____ °F Chlorides 45000 ppm Recovery Chlorides 900 ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. _____ Range _____

(B) First Initial Flow Pressure _____ PSI @ (depth) _____ w / Clock No. _____

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____

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

(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 _____ Final Flow _____

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

Our Representative TOM HORACEK

FLUID SAMPLER DATA

Ticket No.: 6666 Date: 11/12/93
 Company: MOBIL OIL CO.
 Lease: CLARK UNIT #2 Test No.: 2
 County: HASKELL Sec.: 20 Twp.: 28S Rng.: 34W

SAMPLER RECOVERY

Gas
 Oil
 Mud
 Water 4000
 Other
 Pressure 5
 TOTAL 4000

PIT MUD ANALYSIS

Chlorides 900
 Resistivity ohms@ F
 Viscosity 88
 Mud Wt. 0.98
 Filtrate
 Other FOAM

SAMPLER ANALYSIS

Resistivity 0.201 ohms@ 58 F
 Chlorides 45000 ppm.
 Gravity corrected @60F

PIPE RECOVERY

TOP

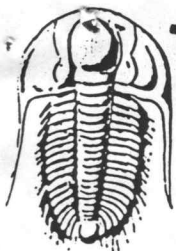
Resistivity ohms@ F
 Chlorides ppm

MIDDLE

Resistivity ohms@ F
 Chlorides ppm

BOTTOM

Resistivity 0.201 ohms@ 58 F
 Chlorides 45000 ppm



TRILOBITE
TESTING L.L.C.

Shut-in tool 5' →

Sampler 3' →

Hydraulic tool 5' →

AP carrier 4' →

Jars 5' →

Safety Jt. 2' →

Shale Packer 8' →

Shale Packer 8' →

4' →	0 0 0
	0 0 0
	0 0 0
5' →	0 0 0
	0 0 0
	0 0 0

↑
REC.

Total depth 2953'

Clark Unit #2
DST #2

↑
RECORDER

2936'

29114'

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 6666 Date 11-12-93
Company Name Mobil Oil Corp.
Lease Clark Unit #2 Test No. #2
County Haskell KS. Sec. 20 Twp. 28 Rng. 34

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud _____ ML
Water soapy water 4000 ML
Other _____ ML
Pressure 5 PSI
Total 4000 ML

SAMPLER ANALYSIS

Resistivity .201 ohms @ 58 F
Chlorides 45,000 ppm.
Gravity _____ corrected @ 60 F

PIT MUD ANALYSIS

Chlorides 900 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 88
Mud Weight .98
Filtrate _____
Other _____

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity .201 ohms @ 58 F
Chlorides 45,000 ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 6666

Well Name & No. <u>Clark Unit #2</u>	Test No. <u>#2</u>	Date <u>11-12-93</u>
Company <u>Mobil Oil Corp.</u>	Zone Tested <u>Council Grove</u>	
Address <u>Box 2966, Midland, TX 79702</u>	Elevation <u>3023</u>	
Co. Rep./Geo. <u>Benny Briggs</u>	Cont. <u>Cheyenne Dr #4</u>	Est. Ft. of Pay _____
Location: Sec. <u>20</u> Twp. <u>28</u> Rge. <u>34</u> Co. <u>Haskell</u> State <u>Ks.</u>		
No. of Copies _____ Distribution Sheet _____ Yes ☒ No _____ Turnkey _____ Yes ☒ No _____ Evaluation _____		

Interval Tested <u>2944-2953</u>	Drill Pipe Size <u>4.5-F-Hole</u>
Anchor Length <u>9'</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>2936</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>2944</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>2953</u>	Drill Collar — 2.25 Ft. Run <u>491'</u>
Mud Wt. <u>1.98</u> lb/gal.	Viscosity <u>88</u> Filtrate _____
Tool Open @ <u>10:12 pm</u> Initial Blow <u>lin blow - open 2 in.</u>	

Final Blow No blow

Recovery — Total Feet <u>30'</u>	Feet of Gas in Pipe _____	Flush Tool? <u>NO</u>
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. <u>30'</u> Feet Of <u>soapy water</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 1.201 @ 58 °F Chlorides 45000 ppm Recovery Chlorides 900 ppm System

(A) Initial Hydrostatic Mud _____	PSI Ak1 Recorder No. _____ Range _____
(B) First Initial Flow Pressure _____	PSI @ (depth) _____ w/Clock No. _____
(C) First Final Flow Pressure _____	PSI AK1 Recorder No. _____ Range _____
(D) Initial Shut-In Pressure _____	PSI @ (depth) _____ w/Clock No. _____
(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 _____ Test <u>600.00</u>
(H) Final Hydrostatic Mud _____	PSI Initial Shut-In _____ Jars <u>200.00</u>

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Final Flow _____	Safety Joint <u>50.00</u>
Final Shut-In _____	P.R. Rec. <u>50.00</u>
	Standby <u>200.00</u>
	Clean Out <u>200.00</u>
	Sampler <u>200.00</u>
	Shale Packers <u>200.00</u>
	Air Carrier <u>50.00</u>
	Other _____

Approved By [Signature]
 Our Representative Tom Horacek

TOTAL PRICE \$ 1550.00

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name CLARK UNIT #2 Test No. 3 Date 11/14/93
Company MOBIL OIL CO. Zone COUNCIL GRV
Address 2319 N KANSAS (P O BOX 2173) LIBERAL KS 67901 Elevation 3023
Co. Rep./Geo. BENNY BRIGGS Cont. CHEYENNE DRLG RIG #4 Est. Ft. of Pay _____
Location: Sec. 20 Twp. 28S Rge. 34W Co. HASKELL State KS

Interval Tested <u>2945-2953</u>	Drill Pipe Size <u>4.5 FH</u>
Anchor Length <u>8</u>	Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth <u>2937</u>	Drill Collar - 2.25 Ft. Run <u>491</u>
Bottom Packer Depth <u>2945</u>	Mud Wt. <u>1.2</u> lb/Gal.
Total Depth <u>2953</u>	Viscosity <u>86</u> Filtrate _____

Tool Open @ 8:38 AM Initial Blow 1.5" BLOW - OPEN 2"

Final Blow NO BLOW

Recovery - Total Feet 30 Flush Tool? NO

Rec. <u>30</u>	Feet of <u>SOAPY WATER</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT _____ °F Gravity 59 °API @ _____ °F Corrected Gravity _____ °API
RW 0.2 @ _____ °F Chlorides 45000 ppm Recovery Chlorides 900 ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. _____ Range _____

(B) First Initial Flow Pressure _____ PSI @ (depth) _____ w / Clock No. _____

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____

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

(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 _____ Final Flow _____

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

Our Representative TOM HORACEK

FLUID SAMPLER DATA

Ticket No.: 6667 Date: 11/14/93
Company: MOBIL OIL CO.
Lease: CLARK UNIT #2 Test No.: 3
County: HASKELL Sec.: 20 Twp.: 28S Rng.: 34W

SAMPLER RECOVERY

Gas
Oil
Mud
Water 4000
Other
Pressure 5
TOTAL 4000

SAMPLER ANALYSIS

Resistivity 0.2 ohms@ 59 F
Chlorides 45000 ppm.
Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 900
Resistivity ohms@ F
Viscosity 86
Mud Wt. 1.2
Filtrate
Other FOAM

PIPE RECOVERY

TOP

Resistivity ohms@ F
Chlorides ppm

MIDDLE

Resistivity ohms@ F
Chlorides ppm

BOTTOM

Resistivity 0.2 ohms@ 59 F
Chlorides 45000 ppm



TRILOBITE
TESTING L.L.C.

Shut-in tool 5'

Sampler 3'

Hydraulic tool 5'

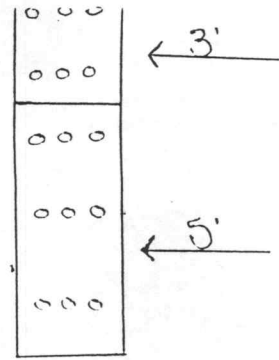
AP carrier 4'

Jars 5'

Safety Jt. 2'

Shale Packer 8'

Shale Packer 8'



Total depth 2953'

Recorder

Clark Unit #3
DST #3

2937'

2945'

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 6667 Date 11-14-93
Company Name Mobil Oil Corp.
Lease Clark Unit #2 Test No. #3
County Haskell KS. Sec. _____ Twp. _____ Rng. _____

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud _____ ML
Water Seepy water 4000 ML
Other _____ ML
Pressure 5 PSI
Total 4000 ML

SAMPLER ANALYSIS

Resistivity 1200 ohms @ 59 F
Chlorides 45,000 ppm.
Gravity _____ corrected @ 60 F

PIT MUD ANALYSIS

Chlorides 900 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 86
Mud Weight 1.2
Filtrate _____
Other _____

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity 1200 ohms @ 59 F
Chlorides 45,000 ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 6667

Well Name & No. <u>Clark unit #2</u>	Test No. <u>3</u>	Date <u>11-14-93</u>
Company <u>Mobil Oil Corp.</u>	Zone Tested <u>Council Grove</u>	
Address <u>Box 2966 Midland Tx, 79702</u>	Elevation <u>3023</u>	
Co. Rep./Geo. <u>Benny Briggs</u>	Cont. <u>Cheyenne Drlg #4</u>	Est. Ft. of Pay _____
Location: Sec. <u>20</u> Twp. <u>28</u> Rge. <u>34</u>	Co. <u>Haskell</u> State <u>KS.</u>	
No. of Copies _____	Distribution Sheet _____	Yes ☒ No ☐ Turnkey _____
		Yes ☒ No ☐ Evaluation _____

Interval Tested <u>2945-2953</u>	Drill Pipe Size <u>4.5 F-Hole</u>
Anchor Length <u>8'</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>2937</u>	Hole Size — 77/8" _____ Rubber Size — 63/4" _____
Bottom Packer Depth <u>2945</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>2953</u>	Drill Collar — 2.25 Ft. Run <u>491'</u>
Mud Wt. <u>1.2</u> lb/gal.	Viscosity <u>86</u> Filtrate _____
Tool Open @ <u>8:38 Am</u>	Initial Blow <u>1 1/2 in blow - Open 2 in.</u>

Final Blow No blow

Recovery — Total Feet <u>30'</u>	Feet of Gas in Pipe _____	Flush Tool? <u>NO</u>
Rec. _____ Feet Of _____	%gas _____ %Oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %Oil _____ %water _____ %mud _____	
Rec. <u>30'</u> Feet Of <u>Soapy water</u>	%gas _____ %Oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %Oil _____ %water _____ %mud _____	

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

RW 1.200 @ 59 °F Chlorides 4500 ppm Recovery Chlorides 900 ppm System

(A) Initial Hydrostatic Mud _____	PSI	AK1 Recorder No. _____	Range _____
(B) First Initial Flow Pressure _____	PSI	@ (depth) _____	w/Clock No. _____
(C) First Final Flow Pressure _____	PSI	AK1 Recorder No. _____	Range _____
(D) Initial Shut-In Pressure _____	PSI	@ (depth) _____	w/Clock No. _____
(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 _____	Test <u>600.00</u>
(H) Final Hydrostatic Mud _____	PSI	Initial Shut-In _____	Jars <u>200.00</u>

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.

Final Flow _____	Safety Joint <u>50.00</u>
Final Shut-In _____	Pin Rec <u>50.00</u>
	Stand by <u>200.00</u>
	Glossud <u>200.00</u>
	Sampler <u>200.00</u>
	Shale <u>315.00</u>
	Extra Packers <u>50.00</u>
	AP Camir <u>50.00</u>
	Other _____
	TOTAL PRICE \$ <u>1665.00</u>

Approved By [Signature]

Our Representative Tom Horack

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name CLARK UNIT #2 Test No. 4 Date 11/15/93
Company MOBIL OIL CO. Zone COUNCIL GRV
Address 2319 N KANSAS (P O BOX 2173) LIBERAL KS 67901 Elevation 3023
Co. Rep./Geo. BENNY BRIGGS Cont. CHEYENNE DRLG RIG #4 Est. Ft. of Pay _____
Location: Sec. 20 Twp. 28S Rge. 34W Co. HASKELL State KS

Interval Tested 2967-2974
Anchor Length 7
Top Packer Depth 2959
Bottom Packer Depth 2967
Total Depth 2974

Drill Pipe Size 4.5 FH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar - 2.25 Ft. Run 491
Mud Wt. _____ lb/Gal.
Viscosity 88 Filtrate _____

Tool Open @ 7:48 PM Initial Blow 3" BLOW - OPEN 2"

Final Blow 1" BLOW - OPEN 2"

Recovery - Total Feet 130 Flush Tool? NO

Rec. 130 Feet of SOAPY WATER
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.201 @ 49 °F Chlorides 52000 ppm Recovery Chlorides 1600 ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. _____ Range _____

(B) First Initial Flow Pressure _____ PSI @ (depth) _____ w / Clock No. _____

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____

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

(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 _____ Final Flow _____

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

Our Representative TOM HORACEK

FLUID SAMPLER DATA

Ticket No.: 6668 Date: 11/15/93
Company: MOBIL OIL CO.
Lease: CLARK UNIT #2 Test No.: 4
County: HASKELL Sec.: 20 Twp.: 28S Rng.: 34W

SAMPLER RECOVERY

Gas 3600
Oil
Mud
Water 400
Other
Pressure 475
TOTAL 4000

SAMPLER ANALYSIS

Resistivity 0.201 ohms@ 49 F
Chlorides 52000 ppm.
Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 1600
Resistivity ohms@ F
Viscosity 88
Mud Wt. 8.5
Filtrate
Other FOAM

PIPE RECOVERY

TOP

Resistivity ohms@ F
Chlorides ppm

MIDDLE

Resistivity ohms@ F
Chlorides ppm

BOTTOM

Resistivity 0.201 ohms@ 49 F
Chlorides 52000 ppm

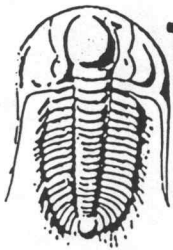
GAS VOLUME REPORT

MOBIL OIL CO.

CLARK UNIT #2

DST # 4

MIN	PSIG	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
5	12	0.125	1.83	5	12	0.125	1.83
10	14	0.125	1.98	10	14	0.375	1.98
15	16	0.125	2.11	15	16	0.375	2.11
20	16	0.125	2.11	20	20	0.375	2.36
25	16	0.125	2.11	25	22	0.375	2.48
30	16	0.125	2.11	30	22	0.375	2.48
				35	22	0.375	2.48
				40	22	0.375	2.48
				45	20	0.375	2.36
				50	20	0.375	2.36
				55	19	0.375	2.3
				60	19	0.375	2.3



TRILOBITE
TESTING L.L.C.

Shut-in tool 5'

Sampler 3'

Hydraulic tool 5'

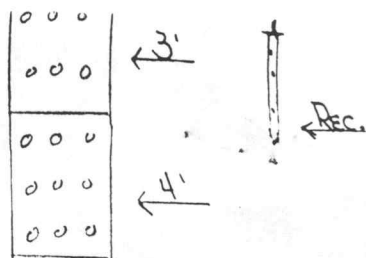
AP carrier 4'

Jars 5'

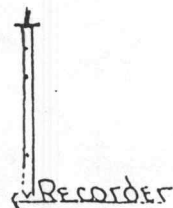
Safety Jt. 2'

Shale Packer 8'

Shale Packer 8'



Total depth 2974'



Clark Unit #2
DST #4

2959'

2967'



GAS VOLUME REPORT

Mobil Oil Corp

Clark Unit #2

WELL NAME AND NO.

44

DST NO

Remarks:

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 6668 Date 11-15-93
Company Name Mobil oil corp.
Lease Clark Unit #2 Test No. #4
County Haskell Ks. Sec. 20 Twp. 28 Rng. 34

SAMPLER RECOVERY

Gas 3600 ML
Oil _____ ML
Mud _____ ML
Water 400 ML
Other _____ ML
Pressure 475 PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides 1600 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 88
Mud Weight .85
Filtrate _____
Other _____

SAMPLER ANALYSIS

Resistivity .201 ohms @ 49 F
Chlorides 52000 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
BOTTOM
Resistivity .201 ohms @ 49 F
Chlorides 52000 ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 6668

Well Name & No. <u>Clark Unit #2</u>	Test No. <u>#4</u>	Date <u>11-15-93</u>
Company <u>Mobil Oil Corp.</u>	Zone Tested <u>Council Grove</u>	
Address <u>Box 2966 Midland Tx. 79702</u>	Elevation <u>3023</u>	
Co. Rep./Geo. <u>Benny Briggs</u>	Cont. <u>Cheyenne Dig #4</u>	Est. Ft. of Pay _____
Location: Sec. <u>20</u> Twp. <u>28</u> Rge. <u>34</u>	Co. <u>Haskell</u> State <u>KS.</u>	
No. of Copies _____	Distribution Sheet _____	Yes ☒ No ☐ Turnkey _____
		Yes ☒ No ☐ Evaluation _____

Interval Tested <u>2967-2974</u>	Drill Pipe Size <u>4.5 F-Hole</u>
Anchor Length <u>2'</u>	Top Choke — 1" _____ Bottom Choke — 1/4" _____
Top Packer Depth <u>2959</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>2967</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>2974</u>	Drill Collar — 2.25 Ft. Run <u>491'</u>
Mud Wt. <u>1.85</u> lb/gal.	Viscosity <u>88</u> Filtrate _____
Tool Open @ <u>7:48 pm</u>	Initial Blow <u>3 in blow - open 2 in.</u>

Final Blow 1 in blow - open 2 in.

Recovery — Total Feet 130' Feet of Gas in Pipe _____ Flush Tool? NO

Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____
Rec. <u>130'</u> Feet Of <u>soapy water</u>	%gas _____ %oil _____ %water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____

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

RW 1201 @ 49 °F Chlorides 52000 ppm Recovery Chlorides 1600 ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. _____ Range _____

(B) First Initial Flow Pressure _____ PSI @ (depth) _____ w/Clock No. _____

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____

(D) Initial Shut-In Pressure _____ PSI @ (depth) _____ w/Clock No. _____

(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 _____ Test 600.00

(H) Final Hydrostatic Mud _____ PSI Initial Shut-In _____ Jars 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.

Final Flow _____ Safety Joint 50.00

Final Shut-In _____ P.R. 50.00

Shale _____ Standby _____ 200.00

Sampler 200.00

Shale _____ Extra Packers 315.00

Shale _____ H.P. Carrier 50.00

Other _____

TOTAL PRICE \$ 1665.00

Approved By Tom Huracek

Our Representative Tom Huracek

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name CLARK UNIT #2 Test No. 5 Date 11/17/93
Company MOBIL OIL CO. Zone COUNCIL GRV
Address 2319 N KANSAS (P O BOX 2173) LIBERAL KS 67901 Elevation 3023
Co. Rep./Geo. BENNY BRIGGS Cont. CHEYENNE DRLG RIG #4 Est. Ft. of Pay _____
Location: Sec. 20 Twp. 28S Rge. 34W Co. HASKELL State KS

Interval Tested 3013-3024
Anchor Length 11
Top Packer Depth 3005
Bottom Packer Depth 3013
Total Depth 3024

Drill Pipe Size 4.5 FH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar - 2.25 Ft. Run 491
Mud Wt. _____ lb/Gal.
Viscosity 86 Filtrate _____

Tool Open @ 6:22 PM Initial Blow 1/2" BLOW - OPEN 2"

Final Blow SURFACE BLOW - OPEN 2"

Recovery - Total Feet 500 Flush Tool? NO

Rec. 500 Feet of SOAPY WATER
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.135 @ 54 °F Chlorides 92000 ppm Recovery Chlorides 5320 ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. _____ Range _____

(B) First Initial Flow Pressure _____ PSI @ (depth) _____ w / Clock No. _____

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____

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

(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 _____ Final Flow _____

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

Our Representative TOM HORACEK

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 6669 Date 11-17-93
Company Name Mobil Oil Corp.
Lease Clark Unit #2 Test No. 45
County Haskell Ks. Sec. 20 Twp. 28 Rng. 34

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud _____ ML
Water Soapy water 4000 ML
Other _____ ML
Pressure 300 PSI
Total 4000 ML

SAMPLER ANALYSIS

Resistivity .134 ohms @ 54 F
Chlorides 92000 ppm.
Gravity _____ corrected @ 60 F

PIT MUD ANALYSIS

Chlorides 5320 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 86
Mud Weight 1.1
Filtrate _____
Other _____

PIPE RECOVERY

TOP
Resistivity .140 ohms @ 54 F
Chlorides 7,4000 ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity .135 ohms @ 54 F
Chlorides 92000 ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 6669

Well Name & No. <u>Clark Unit #2</u>	Test No. <u>5</u>	Date <u>11-17-93</u>
Company <u>Mobil Oil Corp.</u>	Zone Tested <u>Council Grove</u>	
Address <u>Box 2966 Midland Tx. 79702</u>	Elevation <u>3023</u>	
Co. Rep./Geo. <u>Mark Ellerbe</u>	Cont. <u>Cheyenne Dr. #4</u>	Est. Ft. of Pay _____
Location: Sec. <u>20</u>	Twp. <u>28</u>	Rge. <u>34</u>
Co. <u>Haskell</u>	State <u>Ks</u>	
No. of Copies _____	Distribution Sheet _____	Yes ☒ No ☐ Turnkey _____
Yes ☒ No ☐	Evaluation _____	

Interval Tested <u>3013-3024</u>	Drill Pipe Size <u>4.5 F-Hole</u>
Anchor Length <u>11'</u>	Top Choke — 1" _____ Bottom Choke — 1/4" _____
Top Packer Depth <u>3005</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3013</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3024</u>	Drill Collar — 2.25 Ft. Run <u>491'</u>
Mud Wt. <u>1.1</u> lb/gal.	Viscosity <u>86</u> Filtrate _____
Tool Open @ <u>6:22 pm</u>	Initial Blow <u>1/2 blow - open 2 in.</u>

Final Blow Surface blow open 2 in.

Recovery — Total Feet <u>500'</u>	Feet of Gas In Pipe _____	Flush Tool? <u>NO</u>
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. <u>500</u> Feet Of <u>Soapy water</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 135 @ 54 °F Chlorides 92000 ppm Recovery Chlorides 5320 ppm System

(A) Initial Hydrostatic Mud _____	PSI	AK1 Recorder No. _____	Range _____
(B) First Initial Flow Pressure _____	PSI	@ (depth) _____	w/Clock No. _____
(C) First Final Flow Pressure _____	PSI	AK1 Recorder No. _____	Range _____
(D) Initial Shut-In Pressure _____	PSI	@ (depth) _____	w/Clock No. _____
(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 _____	Test <u>600.00</u>
(H) Final Hydrostatic Mud _____	PSI	Initial Shut-In _____	Jars <u>200.00</u>

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Approved By Mark Ellerbe
 Our Representative Tom Horacek

Final Flow _____ Safety Joint 50.00
 Final Shut-In _____ Pin Re. 50.00
Straddle 200.00
Standby 200.00
Circ. Sub
 Sampler 200.00
 Shale 200.00
 Extra Packers 50.00
 Air Carrier _____ Other _____
 TOTAL PRICE \$ 1550.00