

TRIOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

1-325-37w

RELEASED

FEB 9 5 1992

Drill-Stem Test Data

ANL 15-189-21464

Computer Inventoried

CONFIDENTIAL

Well Name & No. <u>BROWER UNIT 1#3</u>	Test No. <u>1</u>	Date <u>1/13/91</u>
Company <u>MOBIL OIL CORPORATION</u>	Zone Tested <u>LWR MORROW</u>	
Address <u>2319 NORTH KANSAS LIBERAL KS 67801</u>	Elevation <u>3136 KB</u>	
Co. Rep./Geo. <u>MR JAY CUNNINGHAM</u>	Cont. <u>UNIT #19</u>	Est. Ft. of Pay <u>0</u>
Location: Sec. <u>1</u>	Twp. <u>32S</u>	Rge. <u>37W</u> Co. <u>STEVENS</u> State <u>KANSAS</u>

Interval Tested <u>5905-5986</u>	Drill Pipe Size <u>4.5"XH</u>
Anchor Length <u>81</u>	Top Choke — 1" <u>Bottom Choke — 3/4"</u>
Top Packer Depth <u>5900</u>	Hole Size — 77/8" <u>Rubber Size — 63/4"</u>
Bottom Packer Depth <u>5905</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>0</u>
Total Depth <u>5986</u>	Drill Collar — 2.25 Ft. Run <u>780</u>
Mud Wt. <u>9.0</u> lb/gal.	Viscosity <u>47</u> Filtrate <u>12.0</u>
Tool Open @ <u>N/A</u> Initial Blow <u>SURFACE BLOW SLOWLY BUILT TO 2"</u>	
<u>THROUGHOUT-ISI: BLED OFF BLOW-NO RETURN</u>	
Final Blow <u>SURFACE BLOW @1/2" IN BUCKET STAYED STEADY THROUGHOUT</u>	
<u>FSI: BLED OFF BLOW-NO RETURN</u>	

Recovery — Total Feet <u>90</u>	Flush Tool? <u>NO</u>
Rec. <u>90</u> Feet of <u>DRILLING MUD</u>	
Rec. <u>0</u> Feet of <u></u>	
Rec. <u>0</u> Feet of <u></u>	
Rec. <u>0</u> Feet of <u></u>	
Rec. <u>0</u> Feet of <u></u>	
BHT <u>136</u> °F Gravity <u></u> °API @ <u>0</u> °F Corrected Gravity <u>0</u> °API	
RW <u>2.93</u> @ <u>70</u> °F Chlorides <u>2000</u> ppm Recovery Chlorides <u>1100</u> ppm System	
(A) Initial Hydrostatic Mud <u>2799.6</u> PSI AK1 Recorder No. <u>13309</u> Range <u>4700</u>	
(B) First Initial Flow Pressure <u>71.3</u> PSI @ (depth) <u>5910</u> w/Clock No. <u>27567</u>	
(C) First Final Flow Pressure <u>71.3</u> PSI AK1 Recorder No. <u>13339</u> Range <u>4025</u>	
(D) Initial Shut-In Pressure <u>151.6</u> PSI @ (depth) <u>5981</u> w/Clock No. <u>30418</u>	
(E) Second Initial Flow Pressure <u>71.3</u> PSI AK1 Recorder No. <u>0</u> Range <u>0</u>	
(F) Second Final Flow Pressure <u>71.3</u> PSI @ (depth) <u>0</u> w/Clock No. <u>0</u>	
(G) Final Shut-In Pressure <u>170.5</u> PSI Initial Opening <u>15</u>	
(H) Final Hydrostatic Mud <u>2780.6</u> PSI Initial Shut-In <u>30</u>	
	Final Flow <u>60</u>
	Final Shut-In <u>120</u>

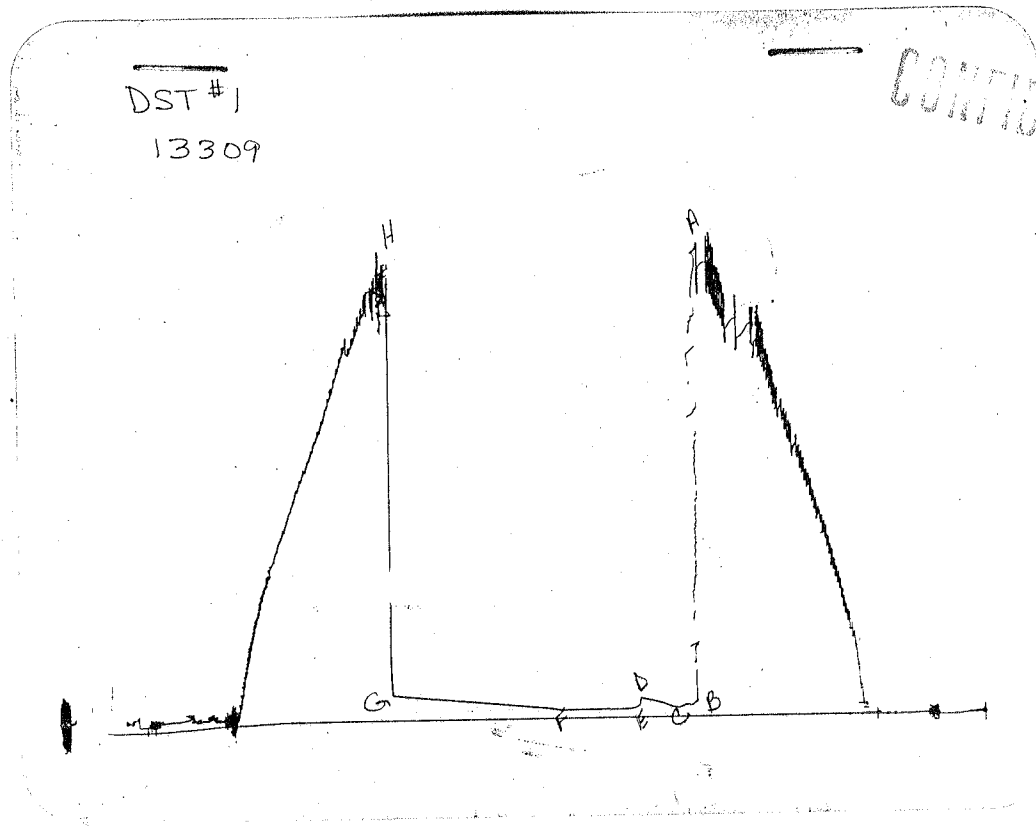
MR ROD STEINBRINK

1200

Our Representative _____

TOTAL PRICE \$ _____

DST# 1 RECORDER# 13309



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud.....	2810	2799.6
(B) First Initial Flow Pressure.....	72	71.3
(C) First Final Flow Pressure.....	72	71.3
(D) Initial Closed-In Pressure.....	145	151.6
(E) Second Initial Flow Pressure.....	72	71.3
(F) Second Final Flow Pressure.....	72	71.3
(G) Final Closed-In Pressure.....	166	170.5
(H) Final Hydrostatic Mud.....	2781	2780.6

TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

CONFIDENTIAL

Ticket No. 3019 Date 1/13/91
Company Name MOBIL OIL CORPORATION
Lease BROWER UNIT 1#3 Test No. 1
County STEVENS Sec. 1 Twp. 32S Rng. 37W

SAMPLER RECOVERY

Gas 0 CU.FT. 0 ML Chlorides 1100 ppm.
Oil 0 ML Resistivity 0 ohms @ 0 F
Mud 4000 ML Viscosity 47
Water 0 ML Mud Weight 9.0
Other 0 ML Filtrate 12.0
Pressure 100 PSI Other _____
Total 4000 ML _____

SAMPLER ANALYSIS

Resistivity 2.993 ohms @ 70 F
Chlorides 2000 ppm.
Gravity 0 corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity 0 ohms @ 0 F
Chlorides 0 ppm.
MIDDLE
Resistivity 0 ohms @ 0 F
Chlorides 0 ppm.
BOTTOM
Resistivity 2.93 ohms @ 70 F
Chlorides 2000 ppm.

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

CONFIDENTIAL

No 3019

Well Name & No.	Brower Unit #3	Test No.	1	Date	1-13-91
Company	Mobil Oil Corporation	Zone Tested	Lower Morrow		
Address	2319 North Kansas Liberal, KS. 67901	Elevation	3136 (KB)		
Co. Rep. / Geo.	Jay Cunningham	cont.	Unit #19	Est. Ft. of Pay	
Location: Sec.	1	Twp.	32 S	Rge.	37 W
		co.	Stevens	state KS.	
No. of Copies	5	Distribution Sheet	Yes	X No	Turnkey Yes X No

Interval Tested	5905 - 5986	Drill Pipe Size	4 1/2" XH
Anchor Length	81'	Top Choke - 1"	Bottom Choke - 3/4"
Top Packer Depth	5900	Hole Size - 7 7/8"	Rubber Size - 6 3/4"
Bottom Packer Depth	5905	Wt. Pipe I.D. - 2.7 Ft. Run	
Total Depth	5986	Drill Collar - 2.25 Ft. Run	780'
Mud Wt.	9.0 lb/gal.	Viscosity	47
		Filtrate	12.0
Tool Open @	Initial Blow Surface blow slowly built to 5" throughout.		
ISI:	Bled off blow - no return.		
Final Blow	Surface blow @ 1/2" in bucket stayed steady throughout.		
ESI:	Bled off blow - no return.		

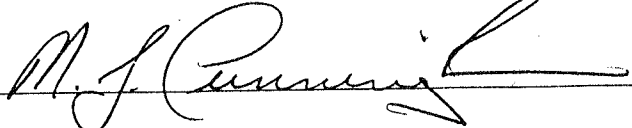
Recovery - Total Feet 90' Flush Tool? No.

Rec.	Feet of	
Rec. 90'	Feet of	Orlg. Mud
Rec.	Feet of	
Rec.	Feet of	
Rec.	Feet of	

BHT 136° °F Gravity °API @ °F Corrected Gravity °API

RW 2.93 @ 70° °F Chlorides 2,000 ppm Recovery Chlorides 1,100 ppm System

(A) Initial Hydrostatic Mud	2810	2781	PSI	AK1 Recorder No.	13309	Range	4700
(B) First Initial Flow Pressure	72	58	PSI	@ (depth)	5910	w/Clock No.	27567
(C) First Final Flow Pressure	72	58	PSI	AK1 Recorder No.	13339	Range	4025
(D) Initial Shut-In Pressure	145	129	PSI	@ (depth)	5981	w/Clock No.	30418
(E) Second Initial Flow Pressure	72	58	PSI	AK1 Recorder No.		Range	
(F) Second Final Flow Pressure	72	58	PSI	@ (depth)		w/Clock No.	
(G) Final Shut-In Pressure	166	153	PSI	Initial Opening	15	Test	750.00
(H) Final Hydrostatic Mud	2781	2746	PSI	Initial Shut-In	30	Jars	X 200.00
	Black	White		Final Flow	60	Safety Joint	X 50.00
				Final Shut-In	120	Straddle	

Approved By 

Our Representative Rod Steinbrink

Circ. Sub X n/c
 Sampler X 200.00
 Extra Packer
 Other
 TOTAL PRICE \$ 1200.00