



WESTERN TESTING CO., INC.
FORMATION TESTING

Didn't find
TICKET No 16670

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

Elevation 1025 EST GL Formation K.C Eff. Pay Ft.

District Augusta Date 1-7-82 Customer Order No. -

COMPANY NAME Three D. Oil Inc.

ADDRESS Box 10 Eldorado Ks 67042

LEASE AND WELL NO. Mann A #3 COUNTY Clk STATE Ks. Sec. 32 Twp 31 S Rge. 13 E

Mail Invoice To Same No. Copies Requested 1

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 1 Interval Tested From 768 ft. to 777 ft. Total Depth 777 ft.

Packer Depth 768 ft. Size 5 1/2 in. Packer Depth - ft. Size - in.

Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 770 ft. Recorder Number 13268 Cap. 4200

Bottom Recorder Depth (Outside) 773 ft. Recorder Number 11019 Cap. 4500

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Fred Jones Oil #3 Drill Collar Length 22 I. D. 1 3/8 in.

Mud Type Chem Viscosity 32 Weight Pipe Length - I. D. - in.

Weight 8.7 Water Loss 20 cc. Drill Pipe Length 731 I. D. 2.4 in.

Chlorides 1400 P.P.M. Test Tool Length 15 ft. Tool Size 4 1/2 in.

Jars: Make - Serial Number - Anchor Length 9 ft. Size 4 1/2 in.

Did Well Flow? - Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 6 1/4 in. Tool Joint Size 2 7/8 in.

Blow: 2 shock surge on opening tool

Recovered 85 ft. of water 2000 PPM Chlorides

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time On Location 1:30 P.M. Time Pick Up Tool 5:00 P.M. Time Off Location 8:30 1-7 P.M.

Time Set Packer(s) 6:00 P.M. Time Started Off Bottom 7:30 P.M. Maximum Temperature -

Initial Hydrostatic Pressure (A) 350 P.S.I.

Initial Flow Period Minutes 15 (B) 50 P.S.I. to (C) 50 P.S.I.

Initial Closed In Period Minutes 30 (D) 200 P.S.I.

Final Flow Period Minutes 15 (E) 85 P.S.I. to (F) 65 P.S.I.

Final Closed In Period Minutes 30 (G) 180 P.S.I.

Final Hydrostatic Pressure (H) 340 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: Charles M. Kuhl
Signature of Customer or his authorized representative

Western Representative: Norman Allen

FIELD INVOICE

Open Hole Test	\$ 600.00
Misrun	\$
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$
Standby	\$
Evaluation	\$
Extra Packer	\$
Circ. Sub.	\$
Mileage	\$
Fluid Sampler	\$
Extra Charts	\$
Insurance	\$
Telecopier	\$
TOTAL	\$ 600.00

WESTERN TESTING CO., INC.

Pressure Data

Date: 1-7 Test Ticket No. 16670
 Recorder No. 13268 Capacity 4200 Location 770
 Clock No. --- Elevation 1025 AR Well Temperature ---

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>338</u> P.S.I.	Open Tool	<u>6:00 P</u>	<u>M</u>
B First Initial Flow Pressure	<u>51</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>10</u> Mins.
C First Final Flow Pressure	<u>53</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>192</u> P.S.I.	Second Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
E Second Initial Flow Pressure	<u>68</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>68</u> P.S.I.			
G Final Closed-in Pressure	<u>177</u> P.S.I.			
H Final Hydrostatic Mud	<u>338</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 2 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 10 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

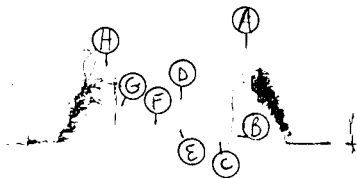
Second Flow Pressure
 Breakdown: 3 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 10 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>51</u>	0	<u>53</u>	0	<u>68</u>	0	<u>68</u>
P 2 5	<u>52</u>	3	<u>61</u>	5	<u>68</u>	3	<u>73</u>
P 3 10	<u>53</u>	6	<u>89</u>	10	<u>68</u>	6	<u>90</u>
P 4 15		9	<u>118</u>	15	<u>68</u>	9	<u>108</u>
P 5 20		12	<u>141</u>	20		12	<u>124</u>
P 6 25		15	<u>157</u>	25		15	<u>139</u>
P 7 30		18	<u>169</u>	30		18	<u>151</u>
P 8 35		21	<u>178</u>	35		21	<u>160</u>
P 9 40		24	<u>186</u>	40		24	<u>168</u>
P10 45		27	<u>189</u>	45		27	<u>174</u>
P11 50		30	<u>192</u>	50		30	<u>177</u>
P12 55		33		55		33	
P13 60		36		60		36	
P14		39		65		39	
P15		42		70		42	
P16		45		75		45	
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

TKT # 16670

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Company Three D Oil, Inc. Lease & Well No. #3 Mann "A"
 Elevation 1025 Est. Ground Level Formation Kansas City Effective Pay --- Ft. Ticket No. 16670
 Date 1/ 7 /83 Sec. 32 Twp. 31S Range 13E County Elk State Kansas
 Test Approved by Charles M. Kuhl Western Representative Norman Allen

Formation Test No. 1 Interval Tested from 768 ft. to 777 ft. Total Depth 777 ft.
 Packer Depth 768 ft. Size 5 1/2 in. Packer Depth - ft. Size - in.
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 770 ft. Recorder Number 13268 Cap. 4200
 Bottom Recorder Depth (Outside) 773 ft. Recorder Number 11019 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Fred Jones Drlg. Rig #3 Drill Collar Length 22 I. D. 1 7/8 in.
 Mud Type chemical Viscosity 32 Weight Pipe Length - I. D. - in.
 Weight 8.7 Water Loss 20 cc. Drill Pipe Length 731 I. D. 2.4 in.
 Chlorides 1,400 P.P.M. Test Tool Length 15 ft. Tool Size 4 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 9 ft. Size 4 1/2 OD in.
 Did Well Flow? - Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 6-1/4 in. Tool Joint Size 2-7/8 in.

Blow: Weak surge on opening tool

Recovered 85 ft. of water Chlorides 2,000 ppm
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 6:00 AM Time Started Off Bottom 7:30 AM Maximum Temperature ---
 Initial Hydrostatic Pressure (A) 338 P.S.I.
 Initial Flow Period Minutes 10 (B) 51 P.S.I. to (C) 53 P.S.I.
 Initial Closed In Period Minutes 30 (D) 192 P.S.I.
 Final Flow Period Minutes 15 (E) 68 P.S.I. to (F) 68 P.S.I.
 Final Closed In Period Minutes 30 (G) 177 P.S.I.
 Final Hydrostatic Pressure (H) 338 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 1/7/83 Test Ticket No. 16670
 Recorder No. 13268 Capacity 4200 Location 770 Ft.
 Clock No. --- Elevation 1025 Ground Level Well Temperature --- °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>338</u>	P.S.I.	<u>6:00P</u>	<u>M</u>
B First Initial Flow Pressure	<u>51</u>	P.S.I.	<u>15</u>	<u>10</u>
C First Final Flow Pressure	<u>53</u>	P.S.I.	<u>30</u>	<u>30</u>
D Initial Closed-in Pressure	<u>192</u>	P.S.I.	<u>15</u>	<u>15</u>
E Second Initial Flow Pressure	<u>68</u>	P.S.I.	<u>30</u>	<u>30</u>
F Second Final Flow Pressure	<u>68</u>	P.S.I.		
G Final Closed-in Pressure	<u>177</u>	P.S.I.		
H Final Hydrostatic Mud	<u>338</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 2 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 10 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 3 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 10 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 <u>0</u>	<u>51</u>	<u>0</u>	<u>53</u>	<u>0</u>	<u>68</u>	<u>0</u>	<u>68</u>
P 2 <u>5</u>	<u>52</u>	<u>3</u>	<u>61</u>	<u>5</u>	<u>68</u>	<u>3</u>	<u>73</u>
P 3 <u>10</u>	<u>53</u>	<u>6</u>	<u>89</u>	<u>10</u>	<u>68</u>	<u>6</u>	<u>90</u>
P 4 _____	_____	<u>9</u>	<u>118</u>	<u>15</u>	<u>68</u>	<u>9</u>	<u>108</u>
P 5 _____	_____	<u>12</u>	<u>141</u>	_____	_____	<u>12</u>	<u>124</u>
P 6 _____	_____	<u>15</u>	<u>157</u>	_____	_____	<u>15</u>	<u>139</u>
P 7 _____	_____	<u>18</u>	<u>169</u>	_____	_____	<u>18</u>	<u>151</u>
P 8 _____	_____	<u>21</u>	<u>178</u>	_____	_____	<u>21</u>	<u>160</u>
P 9 _____	_____	<u>24</u>	<u>186</u>	_____	_____	<u>24</u>	<u>168</u>
P10 _____	_____	<u>27</u>	<u>189</u>	_____	_____	<u>27</u>	<u>174</u>
P11 _____	_____	<u>30</u>	<u>192</u>	_____	_____	<u>30</u>	<u>177</u>
P12 _____	_____	_____	_____	_____	_____	_____	_____
P13 _____	_____	_____	_____	_____	_____	_____	_____
P14 _____	_____	_____	_____	_____	_____	_____	_____
P15 _____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____



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

WESTERN TESTING CO., INC. *Didn't Find*
 FORMATION TESTING
 TICKET No 16671

Elevation *1025 EST GL* Formation *Pawnee* Eff. Pay _____ Ft.

District *Augusta* Date *1-8-83* Customer Order No. _____

COMPANY NAME *Three D Oil Co.*
 ADDRESS *P.O. Box 10 Eldorado Ks 67042*
 LEASE AND WELL NO. *Mann A#3* COUNTY *Ch* STATE *Ks* Sec. *32* Twp *3 1/2* Rge. *13E*
 Mail Invoice To *Same* No. Copies Requested *1*
 Mail Charts To *Same* Address _____ No. Copies Requested *5*

Formation Test No. *2* Interval Tested From *1168* ft. to *1180* ft. Total Depth *1180* ft.
 Packer Depth *1168* ft. Size *5 1/2* in. Packer Depth _____ ft. Size _____ in.
 Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) *1173* ft. Recorder Number *13268* Cap. *4225*
 Bottom Recorder Depth (Outside) *1176* ft. Recorder Number *2608* Cap. *4175*
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor *J. Jones Only #3* Drill Collar Length *22* I. D. *1 3/8* in.
 Mud Type *Chem* Viscosity *32* Weight Pipe Length _____ I. D. _____ in.
 Weight *8.9* Water Loss *28* cc. Drill Pipe Length *1131* I. D. *2.4* in.
 Chlorides *2000* P.P.M. Test Tool Length *15* ft. Tool Size *4 1/2* in.
 Jars: Make _____ Serial Number _____ Anchor Length *12* ft. Size *4 1/2* in.
 Did Well Flow? *No* Reversed Out *No* Surface Choke Size *3/4* in. Bottom Choke Size *3/4* in.
 Main Hole Size *6 1/4* in. Tool Joint Size *2 7/8* in.

Blow: _____
 Recovered *360* ft. of *Drilling mud.*
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: *Leak in Drill pipe - Damaged Packer rubber.*

Time On Location *9:00* P.M. Time Pick Up Tool *9:30* P.M. Time Off Location _____ A.M.
 Time Set Packer(s) *10:30* P.M. Time Started Off Bottom *12:15* P.M. Maximum Temperature *80*
 Initial Hydrostatic Pressure _____ (A) _____ P.S.I.
 Initial Flow Period _____ Minutes *30* (B) *NO* P.S.I. to (C) _____ P.S.I.
 Initial Closed In Period _____ Minutes *30* (D) _____ P.S.I.
 Final Flow Period _____ Minutes *15* (E) *Pressured* P.S.I. to (F) _____ P.S.I.
 Final Closed In Period _____ Minutes *30* (G) _____ P.S.I.
 Final Hydrostatic Pressure _____ (H) _____ P.S.I.

COMPANY TERMS

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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.

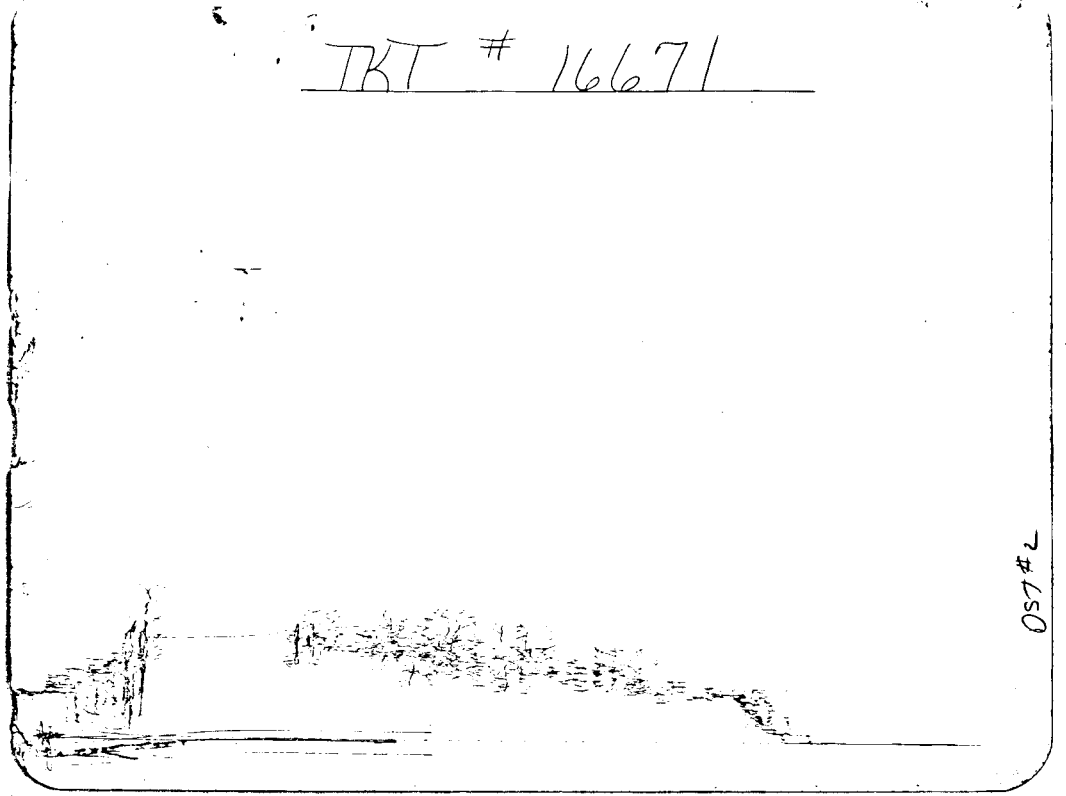
Test Approved By *Charles M. Kull*
 Signature of Customer or his authorized representative

Western Representative *Norman Allen*

FIELD INVOICE

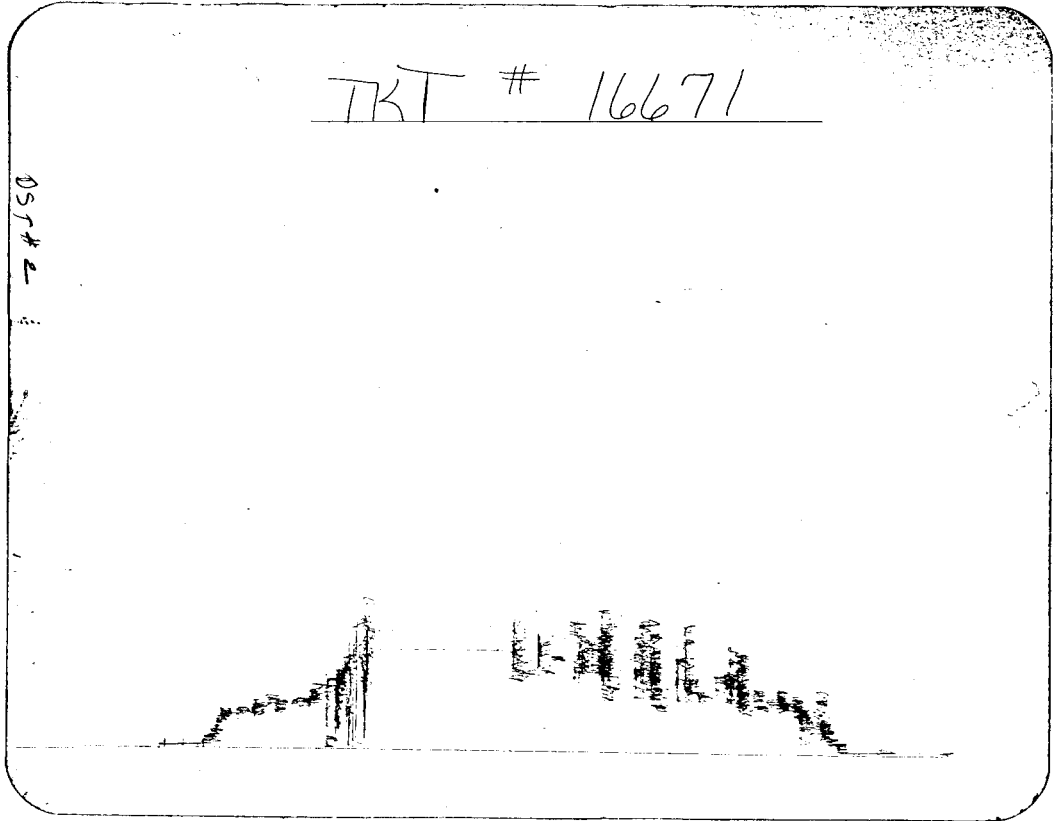
Open Hole Test	\$	
<u>Misrun</u>	\$	<i>400.00</i>
Straddle Test	\$	
Jars	\$	
Selective Zone	\$	
Safety Joint	\$	
Standby	\$	
Evaluation	\$	
Extra Packer	\$	
Circ. Sub.	\$	
Mileage	\$	
Fluid Sampler	\$	
Extra Charts	\$	
Insurance	\$	
Telecopier	\$	
TOTAL	\$	<i>400.00</i>

TKT # 16671



OST # 2

TKT # 16671



OST # 2

Company Three D Oil, Inc. Lease & Well No. #3 Mann "A"
 Elevation 1025 Est. Ground Level Formation Pawnee Effective Pay --- Ft. Ticket No. 16671
 Date 1/8/83 Sec. 32 Twp. 31S Range 13E County Elk State Kansas
 Test Approved by Charles M. Kuhl Western Representative Norman Allen

Formation Test No. 2 Interval Tested from 1168 ft. to 1180 ft. Total Depth 1180 ft.
 Packer Depth 1168 ft. Size 5 1/2 in. Packer Depth - ft. Size - in.
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 1173 ft. Recorder Number 13268 Cap. 4200
 Bottom Recorder Depth (Outside) 1176 ft. Recorder Number 11019 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Fred Jones Drlg. Rig #3 Drill Collar Length 22 I. D. 1 7/8 in.
 Mud Type chemical Viscosity 32 Weight Pipe Length - I. D. - in.
 Weight 8.9 Water Loss 28 cc. Drill Pipe Length 1131 I. D. 2.4 in.
 Chlorides 2,000 P.P.M. Test Tool Length 15 ft. Tool Size 4 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 12 ft. Size 4 1/2 OD in.
 Did Well Flow? - Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 6-1/4 in. Tool Joint Size 2-7/8 in.

Blow: MISRUN

Recovered 360 ft. of drilling mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: Leak in drill pipe ; damaged packer rubber.

NO PRESSURES AVAILABLE

Time Set Packer(s) 10:30 ~~A.M.~~ P.M. Time Started Off Bottom 12:15 ~~A.M.~~ P.M. Maximum Temperature 80°
 Initial Hydrostatic Pressure (A) P.S.I.
 Initial Flow Period Minutes (B) P.S.I. to (C) P.S.I.
 Initial Closed In Period Minutes (D) P.S.I.
 Final Flow Period Minutes (E) P.S.I. to (F) P.S.I.
 Final Closed In Period Minutes (G) P.S.I.
 Final Hydrostatic Pressure (H) P.S.I.



WESTERN TESTING CO., INC.
FORMATION TESTING

Didn't Find
TICKET No. 16672

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

Elevation 1025 EST. GL Formation Pawnee Eff. Pay - Ft.

District Augusta Date 1-9-83 Customer Order No. -

COMPANY NAME Thee O. Oil Inc.

ADDRESS P.O. Box 10 Colorado Ks. 67042

LEASE AND WELL NO. Mann A# 3 COUNTY Clk STATE Ks Sec 32 Twp 31 Rge 13E

Mail Invoice To Same Co. Name _____ Address _____ No. Copies Requested 1

Mail Charts To _____ Address _____ No. Copies Requested 5

Formation Test No. 3 Interval Tested From 1169 ft. to 1180 ft. Total Depth 1180 ft.
Packer Depth 1169 ft. Size 5 1/2 in. Packer Depth _____ ft. Size _____ in.
Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 1173 ft. Recorder Number 13268 Cap. 4225
Bottom Recorder Depth (Outside) 1176 ft. Recorder Number 3354 Cap. 4200
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor J Jones Drilling # 3 Drill Collar Length 22 I. D. 1 7/8 in.
Mud Type Chem Viscosity 32 Weight Pipe Length _____ I. D. _____ in.
Weight 8.2 Water Loss 28 cc. Drill Pipe Length 1132 I. D. 2.4 in.
Chlorides 2000 P.P.M. Test Tool Length 15 ft. Tool Size 4 1/2 in.
Jars: Make _____ Serial Number _____ Anchor Length 11 ft. Size 4 1/2 in.
Did Well Flow? Yes Reversed Out _____ Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 6 1/4 in. Tool Joint Size 2 7/8 in.

Blow: 2kwh to very weak 5 minutes on IFP - 2kwh to very weak 30 mins on FFP

Recovered 2 ft. of Free oil
Recovered 22 ft. of Drilling mud. 1700 PPM Chlorides
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks: _____

Time On Location 9:00P 1-8 A.M. Time Pick Up Tool 8:00 A.M. Time Off Location _____ P.M.
Time Set Packer(s) 9:25 A.M. Time Started Off Bottom 11:20 A.M. Maximum Temperature 80
Initial Hydrostatic Pressure (A) 555 P.S.I.
Initial Flow Period _____ Minutes 25 (B) 20 P.S.I. to (C) 20 P.S.I.
Initial Closed In Period _____ Minutes 30 (D) 30 P.S.I.
Final Flow Period _____ Minutes 30 (E) 20 P.S.I. to (F) 20 P.S.I.
Final Closed In Period _____ Minutes 30 (G) 30 P.S.I.
Final Hydrostatic Pressure (H) 545 P.S.I.

COMPANY TERMS

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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 Charles M. Kehl
Signature of Customer or his authorized representative

Western Representative Norman Allen

FIELD INVOICE

Open Hole Test \$ 600.00
Misrun \$ _____
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage \$ _____
Fluid Sampler \$ _____
Extra Charts \$ _____
Insurance \$ _____
Telecopier \$ _____
TOTAL \$ 600.00

WESTERN TESTING CO., INC.

Pressure Data

ite. 1-9
 order No. 13268 Capacity 4225 Test Ticket No. 16672
 Location 1173 Ft.
 ock No. ----- Elevation 1025 AK Well Temperature 80 °F

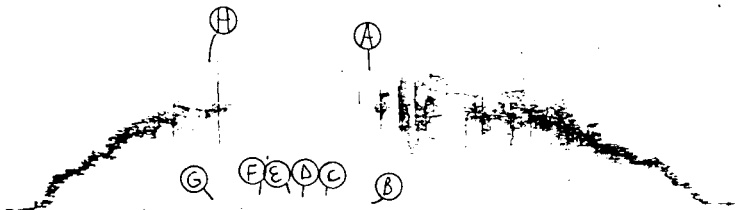
Point	Pressure	Open Tool	Time Given	Time Computed
Initial Hydrostatic Mud	<u>551</u> P.S.I.		<u>9:25 A</u> M	
First Initial Flow Pressure	<u>18</u> P.S.I.	First Flow Pressure	<u>25</u> Mins.	<u>25</u> Mins.
First Final Flow Pressure	<u>23</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>18</u> Mins.
Initial Closed-in Pressure	<u>34</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
Second Initial Flow Pressure	<u>25</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
Second Final Flow Pressure	<u>25</u> P.S.I.			
Final Closed-in Pressure	<u>32</u> P.S.I.			
Final Hydrostatic Mud	<u>551</u> P.S.I.			

PRESSURE BREAKDOWN

Point ins.	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 Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1	0	<u>18</u>	0	<u>23</u>	0	<u>25</u>	0	<u>25</u>
2	5	<u>18</u>	3	<u>24</u>	5		3	<u>25</u>
3	10	<u>19</u>	6	<u>25</u>	10		6	<u>25</u>
4	15	<u>20</u>	9	<u>27</u>	15		9	<u>26</u>
5	20	<u>21</u>	12	<u>29</u>	20		12	<u>27</u>
6	25	<u>23</u>	15	<u>31</u>	25		15	<u>28</u>
7	30		18	<u>34</u>	30	<u>25</u>	18	<u>29</u>
8	35		21		35		21	<u>30</u>
9	40		24		40		24	<u>31</u>
10	45		27		45		27	<u>32</u>
11	50		30		50		30	<u>32</u>
12	55		33		55		33	
13	60		36		60		36	
14			39		65		39	
15			42		70		42	
16			45		75		45	
17			48		80		48	
18			51		85		51	
19			54		90		54	
20			57				57	
21			60				60	

TKT # 16672

I



Company Three D Oil, Inc. Lease & Well No. #3 Mann "A"
 Elevation 1025 Est. Ground Level Formation Pawnee Effective Pay --- Ft. Ticket No. 16672
 Date 1/ 9/83 Sec. 32 Twp. 31S Range 13E County Elk State Kansas
 Test Approved by Charles M. Kuhl Western Representative Norman Allen

Formation Test No. 3 Interval Tested from 1169 ft. to 1180 ft. Total Depth 1180 ft.
 Packer Depth 1169 ft. Size 5 1/2 in. Packer Depth - ft. Size - in.
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 1173 ft. Recorder Number 13268 Cap. 4200
 Bottom Recorder Depth (Outside) 1176 ft. Recorder Number 11019 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Fred Jones Drlg. Rig #3 Drill Collar Length 22 I. D. 1 7/8 in.
 Mud Type chemical Viscosity 32 Weight Pipe Length - I. D. - in.
 Weight 8.2 Water Loss 28 cc. Drill Pipe Length 1132 I. D. 2.4 in.
 Chlorides 2,000 P.P.M. Test Tool Length 15 ft. Tool Size 4 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 11 ft. Size 4 1/2 OD in.
 Did Well Flow? - Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 6-1/4 in. Tool Joint Size 2-7/8 in.

Blow: Weak to very weak for five minutes on initial flow period. Weak to very weak for thirty minutes on final flow period.

Recovered 2 ft. of free oil
 Recovered 22 ft. of drilling mud Chlorides 1,700 ppm
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 9:25 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 11:20 ~~P.M.~~ ^{A.M.} Maximum Temperature 80°
 Initial Hydrostatic Pressure 551 P.S.I. (A)
 Initial Flow Period 25 Minutes (B) 18 P.S.I. to (C) 23 P.S.I.
 Initial Closed In Period 18 Minutes (D) 34 P.S.I.
 Final Flow Period 30 Minutes (E) 25 P.S.I. to (F) 25 P.S.I.
 Final Closed In Period 30 Minutes (G) 32 P.S.I.
 Final Hydrostatic Pressure 551 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 1/9/83 Test Ticket No. 16672
 Recorder No. 13268 Capacity 4225 Location 1173 Ft.
 Clock No. --- Elevation 1025 Ground Level Well Temperature 80 °F

Point	Pressure			Time Given	Time Computed
A. Initial Hydrostatic Mud	551	P.S.I.	Open Tool	9:25A	M
B. First Initial Flow Pressure	18	P.S.I.	First Flow Pressure	25	25
C. First Final Flow Pressure	23	P.S.I.	Initial Closed-in Pressure	30	18
D. Initial Closed-in Pressure	34	P.S.I.	Second Flow Pressure	30	30
E. Second Initial Flow Pressure	25	P.S.I.	Final Closed-in Pressure	30	30
F. Second Final Flow Pressure	25	P.S.I.			
G. Final Closed-in Pressure	32	P.S.I.			
H. Final Hydrostatic Mud	551	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>5</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Initial Shut-In Breakdown: <u>6</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>18</u>	<u>0</u>	<u>23</u>	<u>0</u>	<u>25</u>	<u>0</u>	<u>25</u>
P 2 <u>5</u>	<u>18</u>	<u>3</u>	<u>24</u>	<u>5</u>	<u>25</u>	<u>3</u>	<u>25</u>
P 3 <u>10</u>	<u>19</u>	<u>6</u>	<u>25</u>	<u>10</u>	<u>25</u>	<u>6</u>	<u>25</u>
P 4 <u>15</u>	<u>20</u>	<u>9</u>	<u>27</u>	<u>15</u>	<u>25</u>	<u>9</u>	<u>26</u>
P 5 <u>20</u>	<u>21</u>	<u>12</u>	<u>29</u>	<u>20</u>	<u>25</u>	<u>12</u>	<u>27</u>
P 6 <u>25</u>	<u>23</u>	<u>15</u>	<u>31</u>	<u>25</u>	<u>25</u>	<u>15</u>	<u>28</u>
P 7 _____		<u>18</u>	<u>34</u>	<u>30</u>	<u>25</u>	<u>18</u>	<u>29</u>
P 8 _____						<u>21</u>	<u>30</u>
P 9 _____						<u>24</u>	<u>31</u>
P10 _____						<u>27</u>	<u>32</u>
P11 _____						<u>30</u>	<u>32</u>
P12 _____							
P13 _____							
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							



WESTERN TESTING CO., INC. *Didn't Find*
FORMATION TESTING
TICKET No 16673

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

Elevation 1025 EST GL Formation Oswegu Eff. Pay - Ft.

District Augusta Date 1-10-83 Customer Order No. -

COMPANY NAME Three O Oil Co Inc
ADDRESS P.O. Box 10 Eldorado 12 67042
LEASE AND WELL NO Mann A# 3 COUNTY Clk. STATE Ks Sec 32 Twp 31 Rge 13E
Mail Invoice To Same Co. Name Address No. Copies Requested 1
Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 4 Interval Tested From 1244 ft. to 1255 ft. Total Depth 1255 ft.
Packer Depth 1244 ft. Size 5 1/2 in. Packer Depth - ft. Size - in.
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -

Top Recorder Depth (Inside) 1248 ft. Recorder Number 13268 Cap 4225
Bottom Recorder Depth (Outside) 1251 ft. Recorder Number 3354 Cap 4200
Below Straddle Recorder Depth - ft. Recorder Number - Cap -

Drilling Contractor H Jones Drilling Co #3 Drill Collar Length 22 I. D. 1 7/8 in.
Mud Type Chem Viscosity 31 Weight Pipe Length - I. D. - in.
Weight 8.9 Water Loss 20.8 cc. Drill Pipe Length 1207 I. D. 2 1/4 in.
Chlorides 1500 P.P.M. Test Tool Length 15 ft. Tool Size 4 1/2 in.
Jars: Make - Serial Number - Anchor Length 11 ft. Size 4 1/2 in.
Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 2 7/8 in.

Blow: No blow

Recovered 15 ft. of Drilling mud w show of oil
Recovered - ft. of -
Recovered - ft. of -
Recovered - ft. of -
Recovered - ft. of -

Remarks:

Note: Attempt to run tool in hole @ 9:00 PM 1-9-83 out of hole with fishing pipe

Time On Location 9:00 1-8 A.M. Time Pick Up Tool 2:30 1-10 A.M.
Time Set Packer(s) 5:00 A.M. Time Started Off Bottom 6:10 A.M. Maximum Temperature 81
Initial Hydrostatic Pressure (A) 575 P.S.I.
Initial Flow Period Minutes 20 (B) 50 P.S.I. to (C) 30 P.S.I.
Initial Closed In Period Minutes 20 (D) 40 P.S.I.
Final Flow Period Minutes 10 (E) 30 P.S.I. to (F) 30 P.S.I.
Final Closed In Period Minutes 20 (G) 40 P.S.I.
Final Hydrostatic Pressure (H) 555 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 Chuck M. Kuhl
Signature of Customer or his authorized representative

Western Representative Norman Alb

FIELD INVOICE

Open Hole Test	\$ <u>600⁰⁰</u>
Misrun	\$
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$
Standby	\$
Evaluation	\$
Extra Packer	\$
Circ. Sub.	\$
Mileage	\$
Fluid Sampler	\$
Extra Charts	\$
Insurance	\$
Telecopier	\$
TOTAL	\$ <u>600⁰⁰</u>

WESTERN TESTING CO., INC.

Pressure Data

ite. 1-10
 order No. 13268 Capacity 4225 Test Ticket No. 16673
 Location 1248 Ft.
 Well Temperature 81 °F
 Elevation 1025 AR

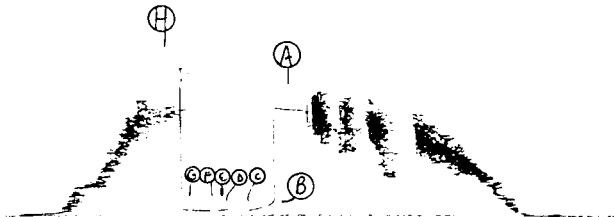
Point	Pressure	Open Tool	Time Given	Time Computed
Initial Hydrostatic Mud	<u>574</u> P.S.I.		<u>5:00 A.M.</u>	
First Initial Flow Pressure	<u>29</u> P.S.I.	First Flow Pressure	<u>20</u> Mins.	<u>20</u> Mins.
First Final Flow Pressure	<u>29</u> P.S.I.	Initial Closed-in Pressure	<u>20</u> Mins.	<u>15</u> Mins.
Initial Closed-in Pressure	<u>33</u> P.S.I.	Second Flow Pressure	<u>10</u> Mins.	<u>10</u> Mins.
Second Initial Flow Pressure	<u>29</u> P.S.I.	Final Closed-in Pressure	<u>20</u> Mins.	<u>21</u> Mins.
Second Final Flow Pressure	<u>29</u> P.S.I.			
Final Closed-in Pressure	<u>34</u> P.S.I.			
Final Hydrostatic Mud	<u>574</u> P.S.I.			

PRESSURE BREAKDOWN

Point	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
Initial Shut-In Breakdown: <u>4</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>5</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>2</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>7</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
0	<u>29</u>	0	<u>29</u>	0	<u>29</u>	0	<u>29</u>
2	<u>29</u>	3	<u>29</u>	5	<u>29</u>	3	<u>29</u>
3	<u>29</u>	6	<u>30</u>	10	<u>29</u>	6	<u>29</u>
4	<u>29</u>	9	<u>31</u>	15		9	<u>30</u>
5	<u>29</u>	12	<u>32</u>	20		12	<u>31</u>
6		15	<u>33</u>	25		15	<u>32</u>
7		18		30		18	<u>33</u>
8		21		35		21	<u>34</u>
9		24		40		24	
10		27		45		27	
11		30		50		30	
12		33		55		33	
13		36		60		36	
14		39		65		39	
15		42		70		42	
16		45		75		45	
17		48		80		48	
18		51		85		51	
19		54		90		54	
20		57				57	
21		60				60	

TKT # 16673

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Company Three D Oil, Inc. Lease & Well No. #3 Mann "A"
 Elevation 1025 Est. Ground Level Oswego Formation Effective Pay --- Ft. Ticket No. 16673
 Date 1/ 10/83 Sec. 32 Twp. 31S Range 13E County Elk State Kansas
 Test Approved by Charles M. Kuhl Western Representative Norman Allen

Formation Test No. 4 Interval Tested from 1244 ft. to 1255 ft. Total Depth 1255 ft.
 Packer Depth 1244 ft. Size 5 1/2 in. Packer Depth - ft. Size - in.
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 1248 ft. Recorder Number 13268 Cap. 4200
 Bottom Recorder Depth (Outside) 1251 ft. Recorder Number 11019 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Fred Jones Drlg. Rig #3 Drill Collar Length 22 I. D. 1 7/8 in.
 Mud Type chemical Viscosity 31 Weight Pipe Length - I. D. - in.
 Weight 8.9 Water Loss 20.8 cc. Drill Pipe Length 1207 I. D. 2.4 in.
 Chlorides 1,500 P.P.M. Test Tool Length 15 ft. Tool Size 4 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 11 ft. Size 4 1/2 OD in.
 Did Well Flow? - Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 6-1/4 in. Tool Joint Size 2-7/8 in.

Blow: No blow.

Recovered 15 ft. of drilling mud with show of oil
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: Note: attempt to run tool in hole @ 9:00PM 1/9/83: out of hole with leak in pipe

Time Set	Packer(s)	Time Started	Off Bottom	Maximum Temperature
	<u>5:00</u> <u>A.M.</u>	<u>6:10</u> <u>P.M.</u>		<u>81°</u>
Initial Hydrostatic Pressure		(A) <u>574</u>		<u>P.S.I.</u>
Initial Flow Period	Minutes	<u>20</u>	(B) <u>29</u>	<u>P.S.I. to (C) 29 P.S.I.</u>
Initial Closed In Period	Minutes	<u>15</u>	(D) <u>33</u>	<u>P.S.I.</u>
Final Flow Period	Minutes	<u>10</u>	(E) <u>29</u>	<u>P.S.I. to (F) 29 P.S.I.</u>
Final Closed In Period	Minutes	<u>21</u>	(G) <u>34</u>	<u>P.S.I.</u>
Final Hydrostatic Pressure		(H) <u>574</u>		<u>P.S.I.</u>

WESTERN TESTING CO., INC.
Pressure Data

Date 1/10/83

Test Ticket No. 16673

Recorder No. 13268

Capacity 4225

Location 1248 Ft.

Clock No. --- Elevation 1025 Ground Level

Well Temperature 81 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	574 P.S.I.	Open Tool	5:00A	M
B First Initial Flow Pressure	29 P.S.I.	First Flow Pressure	20 Mins.	20 Mins.
C First Final Flow Pressure	29 P.S.I.	Initial Closed-in Pressure	20 Mins.	15 Mins.
D Initial Closed-in Pressure	33 P.S.I.	Second Flow Pressure	10 Mins.	10 Mins.
E Second Initial Flow Pressure	29 P.S.I.	Final Closed-in Pressure	20 Mins.	21 Mins.
F Second Final Flow Pressure	29 P.S.I.			
G Final Closed-in Pressure	34 P.S.I.			
H Final Hydrostatic Mud	574 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 4 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 5 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 2 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 7 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 <u>0</u>	<u>29</u>	<u>0</u>	<u>29</u>	<u>0</u>	<u>29</u>	<u>0</u>	<u>29</u>
P 2 <u>5</u>	<u>29</u>	<u>3</u>	<u>29</u>	<u>5</u>	<u>29</u>	<u>3</u>	<u>29</u>
P 3 <u>10</u>	<u>29</u>	<u>6</u>	<u>30</u>	<u>10</u>	<u>29</u>	<u>6</u>	<u>29</u>
P 4 <u>15</u>	<u>29</u>	<u>9</u>	<u>31</u>			<u>9</u>	<u>30</u>
P 5 <u>20</u>	<u>29</u>	<u>12</u>	<u>32</u>			<u>12</u>	<u>31</u>
P 6 _____		<u>15</u>	<u>33</u>			<u>15</u>	<u>32</u>
P 7 _____						<u>18</u>	<u>33</u>
P 8 _____						<u>21</u>	<u>34</u>
P 9 _____							
P10 _____							
P11 _____							
P12 _____							
P13 _____							
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							

Company Three D Oil, Inc. Lease & Well No. #3 Mann "A"
 Elevation 1025 Est. Ground Level Oswego Formation Effective Pay -- Ft. Ticket No. 16673A
 Date 1/10/83 Sec. 32 Twp. 31S Range 13E County Elk State Kansas
 Test Approved by Charles M. Kuhl Western Representative Norman Allen

Formation Test No. 4A Interval Tested from 1244 ft. to 1255 ft. Total Depth 1255 ft.
 Packer Depth 1244 ft. Size 5 1/2 in. Packer Depth -- ft. Size - in.
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 1248 ft. Recorder Number 13268 Cap. 4225
 Bottom Recorder Depth (Outside) 1251 ft. Recorder Number 3354 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor F. Jones Drlg. Co. #3 Drill Collar Length 22 I. D. 1-7/8 in.
 Mud Type chemical Viscosity 31 Weight Pipe Length - I. D. - in.
 Weight 8.9 Water Loss 20.8 cc. Drill Pipe Length 1207 I. D. 2.4 in.
 Chlorides 1,500 P.P.M. Test Tool Length 15 ft. Tool Size 4-1/2 in.
 Jars: Make - Serial Number - Anchor Length 11 ft. Size 4-1/2 in.
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 2-7/8 in.

Blow: No blow.

Recovered 15 ft. of drilling mud with show of oil
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: NO TEST

NOTE: attempt to run tool in hole @ 9:00PM 1/9/83 out of hole with leak in pipe

Time Set Packer(s) 5:00 A.M. Time Started Off Bottom 6:10 P.M. Maximum Temperature 81°
 Initial Hydrostatic Pressure (A) P.S.I.
 Initial Flow Period Minutes (B) P.S.I. to (C) P.S.I.
 Initial Closed In Period Minutes (D) P.S.I.
 Final Flow Period Minutes (E) P.S.I. to (F) P.S.I.
 Final Closed In Period Minutes (G) P.S.I.
 Final Hydrostatic Pressure (H) P.S.I.