

ORIGINAL

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

KCC

APR 21

Operator: License # 6875

Name: Marmik Oil Company

Address 200 N. Jefferson, Suite 500

City/State/Zip El Dorado, AR 71730

Purchaser: None

Operator Contact Person: Curtis Morrill

Phone () _____

Contractor: Name: Abercrombie

License: 5422

Wellsite Geologist: Curtis Morrill

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBTB
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

3-24-92 3-30-92 3-31-92
Spud Date Date Reached TD Completion Date

API NO. 15- 153-20,788-00-00

County Rawlins

App- SE - SW - NW Sec. 6 Twp. 2S Rge. 34 E W

2970 Feet from (S)N (circle one) Line of Section

4090 Feet from (E)W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name Frank Trust Well # 1

Field Name Wildcat

Producing Formation _____

Elevation: Ground 3181 KB 3186

Total Depth 4450 PBTB _____

Surface Pipe Set and Cemented at 302 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

Completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan AITI DWA
(Data must be collected from the Reserve Pit)

Chloride content 500 ppm Fluid volume 400 bbls

Dewatering method used evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Curtis Morrill

Title Geologist Date 4/16/92

Subscribed and sworn to before me this 16 day of April, 19 92.

Notary Public Kay B. Riser

Date Commission Expires 2-2-01

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
STATE CORPORATION COMMISSION
Distribution
KCC _____ SWD/Plug _____ NGPA _____
KGS _____ Plug _____ Other _____ (Specify)
APR 23 1992
04-23-1992
Wichita, Kansas
Form ACO-1 (7-91)

RELEASED

MAY 13 1993

FROM CONFIDENTIAL

pl

Operator Name Marmik Oil Lease Name Frank Trust Well # 1

Sec. 6 Twp. 2S Rge. 34
 East
 West

County Rawlins

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
 (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy.)

Log Formation (Top), Depth and Datum Sample
 Name Top Datum
 Anhydrite 3035 + 151
 Oread 4012 - 838
 Heebner 4072 - 886
 Lansing 4120 - 934

List All E.Logs Run: Dual Induction
 Comp. Density, Comp.
 Neutron

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4	8 5/8	28#	302	60/40 poz	205	3%cc 2%gel

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD Size Set At Packer At Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)
 METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) _____
 Production Interval _____

ORIGINAL 15-153-20788-00-00

DST RESULTS #1 FRANK TRUST

KCC

APR 21

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DST #1 4138-4195 30-30-60-45
Rec 80' osm, 360' osmw, 360' msw
no pressures, clock stopped

DST #2 4202-4255 30-30-60-45 Rec. 95' ocm
IFP 33-44#
FFP 44-56#
SIP 969-883#
HP 2083-2061#

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DST #3 4285-4340 45-30-60-45, 110' GIP, Rec 70' mo FROM CONFIDENTIAL
IFP 33-44#
FFP 44-55#
SIP 1049-1086#
HP 2200-2151#

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KANSAS CORPORATION COMMISSION

APR 23 1992

CONSERVATION DIVISION
WICHITA, KS

ORIGINAL

TRILOBITE TESTING COMPANY, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

KCC

15-153-20788-00-00

APR 21

Drill-Stem Test Data

CONFIDENTIAL

Well Name FRANK TRUST #1 Test No. 1 Date 3/28/92
Company MARMIK OIL Zone Tested LANSING "B"
Address 200 N. JEFFERSON #500 EL DORADO ARK Elevation 3186 K.B.
Co. Rep./Geo. CURTIS MORRILL Cont. A.L.A. RIG #4 Est. Ft. of Pay
Location: Sec. 6 Twp. 2S Rge. 34W Co. RAWLINS State KS

Interval Tested 4138-4195 Drill Pipe Size 4.5 XH
Anchor Length 57 Wt. Pipe I.D. - 2.7 Ft. Run 568
Top Packer Depth 4133 Drill Collar - 2.25 Ft. Run
Bottom Packer Depth 4138
Total Depth 4195

Mud Wt. 9.1 lb / gal. Viscosity 45 Filtrate 13.2

Tool Open @ 3:08 AM Initial Blow GOOD BLOW OFF BOTTOM IN 8 MINUTES
Final Blow BLOW OFF BOTTOM IN 11 MINUTES

Recovery - Total Feet 800 Flush Tool? NO

Rec. 80 Feet of OIL STAINED WATERY MUD-10%WTR/90%MUD
Rec. 360 Feet of OIL STAINED WATERY MUD-30%WTR/70%MUD
Rec. 360 Feet of SLTLY MUD CUT WATER-95%WTR/5%MUD

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MAY 13 1993

FROM CONFIDENTIAL

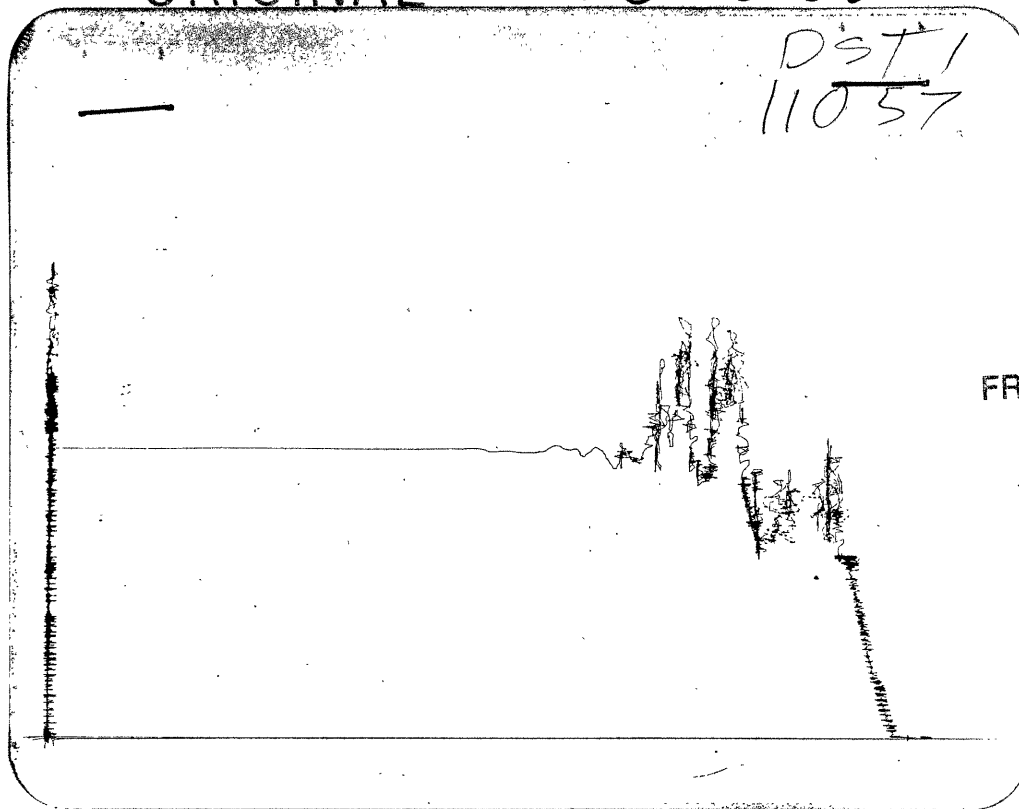
Rec. Feet of
BHT 118 °F Gravity °API @ °F Corrected Gravity °API

RW 0.11 @ 72 °F Chlorides 70000 ppm Recovery Chlorides 750 ppm System

(A) Initial Hydrostatic Mud PSI AK1 Recorder No. 13308 Range 4700
(B) First Initial Flow Pressure PSI @ (depth) 4140 w/Clock No. 25828
(C) First Final Flow Pressure PSI AK1 Recorder No. 11057 Range 4500
(D) Initial Shut-in Pressure PSI @ (depth) 4190 w/Clock No. 27573
(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 45
(H) Final Hydrostatic Mud PSI Initial Shut-in 45 Final Shut-in 60

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STATE CORPORATION COMMISSION
APR 23 1992

Our Representative MARK HERSKOWITZ TOTAL PRICE \$ 550.00
CC: 550.00 DIVISION
Wichita, Kansas



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FROM CONFIDENTIAL

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

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STATE CORPORATION COMMISSION

APR 23 1992

CONSERVATION DIVISION
Wichita, Kansas

ORIGINAL TRILOBITE TESTING COMPANY L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 4552

15-153-00788-0000

Well Name & No. FRANK TRUST 1st Test No. 1 Date 3-28-92
 Company MARMIK Oil Zone Tested LAN 'B
 Address 200 N. JEFFERSON #500 EL DORADO AP Elevation _____
 Co. Rep./Geo. MORRILL Cont. A.L.A. Rip 4 Est. Ft. of Pay _____
 Location: Sec. 6 Twp. 2 S Rge. 34 W Co. ROWINS State KS
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 4138 - 4195 Drill Pipe Size 4 1/2 X H
 Anchor Length 57 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 4133 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 4138 Wt. Pipe I.D. — 2.7 Ft. Run 568
 Total Depth 4195 Drill Collar — 2.25 Ft. Run _____
 Mud Wt. 9.1 LCM TR. lb/gal. Viscosity 45 Filtrate 13.2
 Tool Open @ 3:08 AM Initial Blow Good Blow OFF BOTTOM 8 MIN
 Final Blow Blow OFF BOTTOM 11 MIN

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
Rec. <u>800</u>		
Rec. <u>90</u> Feet Of <u>Oil & MUD</u>	%gas <u>TR</u> %oil <u>10</u> %water <u>90</u> %mud	
Rec. <u>360</u> Feet Of <u>Oil & WATER</u>	%gas <u>TR</u> %oil <u>30</u> %water <u>70</u> %mud	
Rec. <u>360</u> Feet Of <u>MUD WATER</u>	%gas _____ %oil <u>95</u> %water <u>5</u> %mud	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud	

BHT 118 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 0.11 @ 72 °F Chlorides 70 ppm Recovery Chlorides 750 ppm System

(A) Initial Hydrostatic Mud _____ PSI Ak1 Recorder No. 13308 Range 4700
 (B) First Initial Flow Pressure _____ PSI @ (depth) 4190 w/Clock No. 25838
 (C) First Final Flow Pressure _____ PSI Ak1 Recorder No. 11057 Range 4500
 (D) Initial Shut-In Pressure _____ PSI @ (depth) 4190 w/Clock No. 27573
 (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 _____ PSI Initial Shut-In 45 Jars _____
 Final Flow 45 Safety Joint _____
 Final Shut-In 60 Straddle WICHITA, KS
 Circ. Sub NC

TRILLOBITE 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.

Approved By _____
 Our Representative [Signature]
 Printcraft Printers - Hays, KS

RECEIVED
 KANSAS CORPORATION COMMISSION
 W/Clock No. _____
 APR 23 1992
 CONSERVATION DIVISION
 WICHITA, KS
 TOTAL PRICE \$ _____

TRILOBITE TESTING COMPANY, L.L.C.

ORIGINAL

P.O. Box 362 • Hays, Kansas 67601

15-153-20788-00-00

RELEASED

Drill-Stem Test Data

MAY 13 1993

Well Name FRANK TRUST #1 Test No. 2 Date 3/28/92
 Company MARMIK OIL Zone Tested LANFRON
 Address 200 N. JEFFERSON #500 EL DORADO ARK Elevation 3186 K.B.
 Co. Rep./Geo. CURTIS MORRILL cont. A.L.A. RIG #4 Est. Ft. of Pay 4
 Location: Sec. 6 Twp. 2S Rge. 34W Co. RAWLINS State KS

CONFIDENTIAL

Interval Tested 4202-4255 Drill Pipe Size 4.5 XH
 Anchor Length 53 Wt. Pipe I.D. - 2.7 Ft. Run 568
 Top Packer Depth 4197 Drill Collar — 2.25 Ft. Run _____
 Bottom Packer Depth 4202
 Total Depth 4255

Mud Wt. 9.8 lb / gal. Viscosity 48 Filtrate 12.2

Tool Open @ 6:09 PM Initial Blow 4" BLOW IN 30 MINUTES

Final Blow NO BLOW - 4MINUTES-WEAK SURFACE BLOW TO 1.5" IN 60 MINUTES

Recovery — Total Feet 95 Flush Tool? NO

Rec. 5 Feet of CLEAN OIL

Rec. 30 Feet of OIL CUT MUD-25%OIL/75%MUD

Rec. 60 Feet of SLTLY OIL STAINED MUD-5%OIL/95%MUD

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 121 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1200 ppm System

(A) Initial Hydrostatic Mud 2073.5 PSI AK1 Recorder No. 13308 Range 4700

(B) First Initial Flow Pressure 23.5 PSI @ (depth) 4205 w/Clock No. 27567

(C) First Final Flow Pressure 26.9 PSI AK1 Recorder No. 11057 Range 4500

(D) Initial Shut-in Pressure 969.8 PSI @ (depth) 4250 w/Clock No. 7452

(E) Second Initial Flow Pressure 35.8 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 42.5 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure 883.9 PSI Initial Opening 30 Final Flow 60

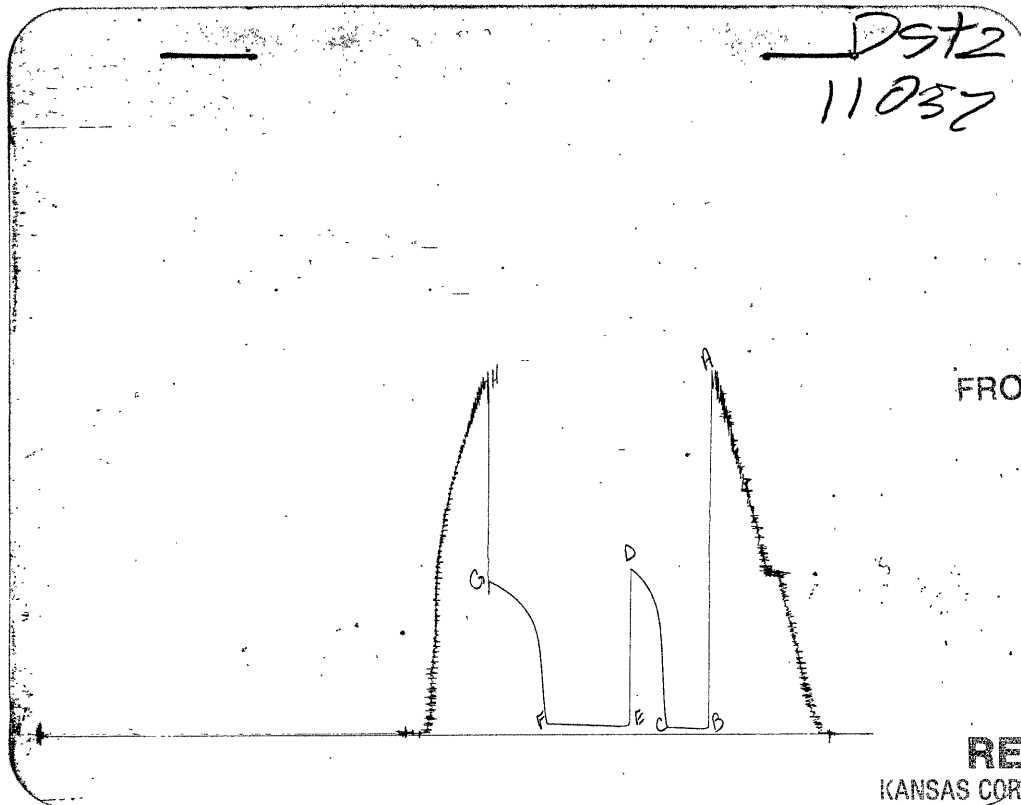
(H) Final Hydrostatic Mud 2070.1 PSI Initial Shut-in 30 Final Shut-in 45

Our Representative MARK HERSKOWITZ TOTAL PRICE \$ 550

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CONSERVATION DIVISION
WICHITA, KS



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APR 23 1992

This is an actual photograph of recorder chart
POINT PRESSURE CONSERVATION DIVISION WICHITA, KS

POINT	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2083	2073.5
(B) FIRST INITIAL FLOW PRESSURE	33	23.5
(C) FIRST FINAL FLOW PRESSURE	44	26.9
(D) INITIAL CLOSED-IN PRESSURE	962	969.8
(E) SECOND INITIAL FLOW PRESSURE	44	35.8
(F) SECOND FINAL FLOW PRESSURE	56	42.5
(G) FINAL CLOSED-IN PRESSURE	883	883.9
(H) FINAL HYDROSTATIC MUD	2061	2070.1

CALCULATED RECOVERY ANALYSIS

WEIGHT PIPE

ORIG

DST.#

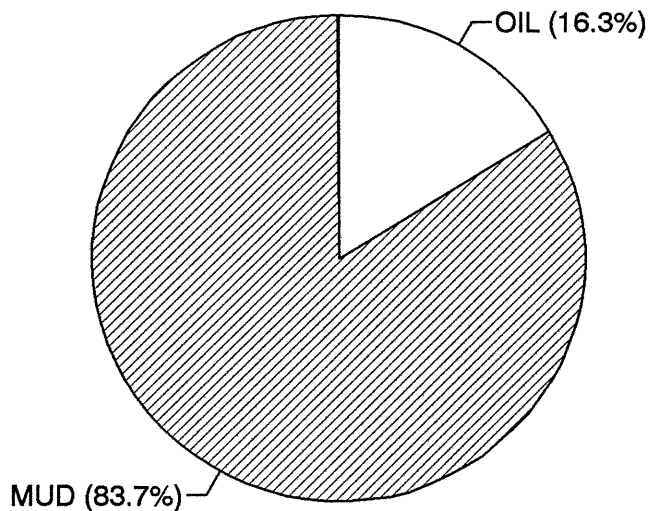
15-153²-20788-00-00

TICKET #

4553

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	5		0	100	5	0	0	0	0
2	30		0	25	7.5		0	75	22.5
3	60		0	5	3		0	95	57
4			0		0		0		0
5			0		0		0		0
TOTAL	95	0	0	16.315789	15.5	0	0	83.684	79.5

		HRS OPEN	BBL/DAY
BBL OIL=	0.1085	*	1.5
BBL WATER=	0	*	0
BBL MUD=	0.5565		
BBL GAS=	0		



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APR 23 1992

CONSERVATION DIVISION
WICHITA, KS

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15-153-20788-00-02

FRANK TRUST #1 DST #2
INITIAL SHUTIN
30 FLOW TIME

Slope -821.20 psi/cycle
P * 1,217 psi

TIME(MIN)	Pws (psi)	Log		<> PRESSURE
		Horn T	Horn T	
3	35.8	11	1.041	35.8
6	382.2	6	0.778	346.4
9	694.2	4	0.637	312.0
12	776.8	4	0.544	82.6
15	828.1	3	0.477	51.3
X 18	867.2	3	0.426	39.1
21	900.6	2	0.385	33.4
24	920.7	2	0.352	20.1
27	945.3	2	0.325	24.6
X 30	969.8	2	0.301	24.5

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FRANK TRUST #1 DST #2
FINAL SHUTIN
90 TOTAL FLOW TIME

Slope -441.94 psi/cycle
P * 1,095 psi

TIME(MIN)	Pws (psi)	Log		<> PRESSURE
		Horn T	Horn T	
3	207.4	31	1.491	207.4
6	437.2	16	1.204	229.8
9	587.1	11	1.041	149.9
12	654.1	9	0.929	67.0
15	697.5	7	0.845	43.4
18	726.5	6	0.778	29.0
21	754.4	5	0.723	27.9
X 24	795.7	5	0.677	41.3
27	814.7	4	0.637	19.0
30	825.9	4	0.602	11.2
33	844.8	4	0.571	18.9
36	858.2	4	0.544	13.4
39	867.1	3	0.520	8.9
42	873.8	3	0.497	6.7
X 45	883.9	3	0.477	10.1

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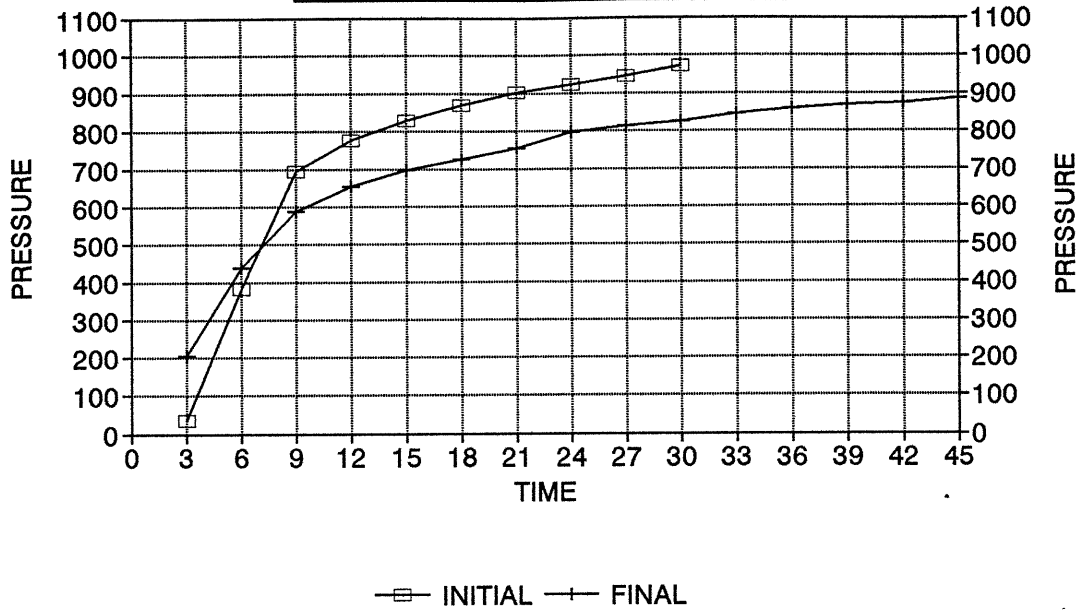
APR 23 1992

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WICHITA, KS

15-153-20788-00-00

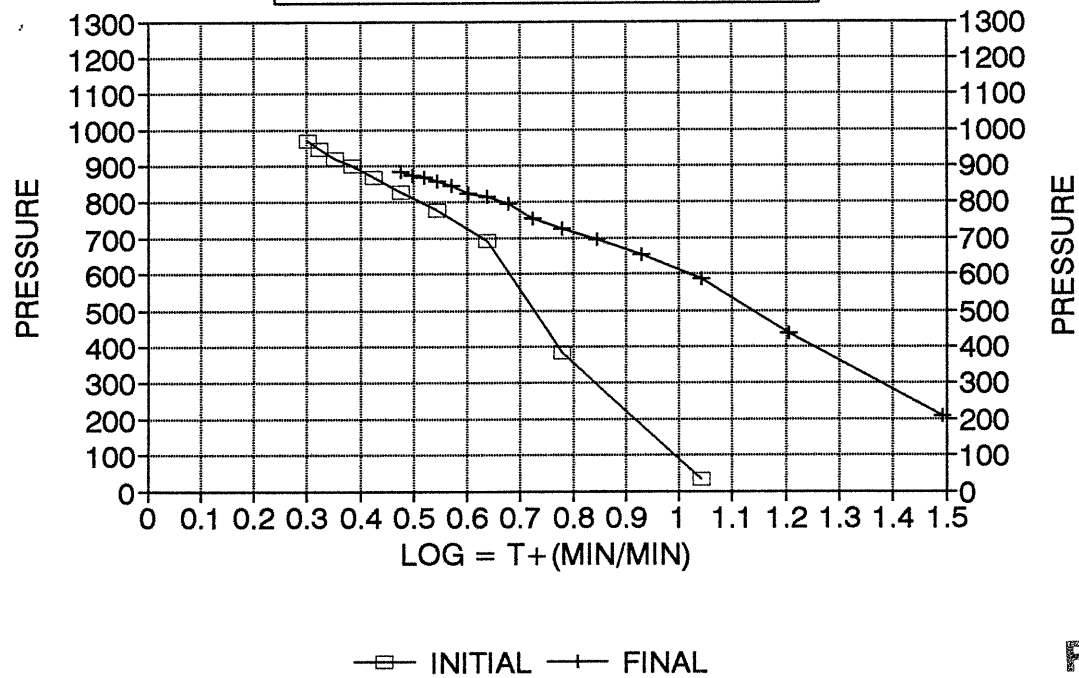
DELTA T DELTA P DST #2 / FRANK TRUST #1

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HORNER PLOT DST #2 / FRANK TRUST #1



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APR 23 1992
CONSERVATION DIVISION
WICHITA, KS

TRILOBITE TESTING COMPANY, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

MAY 13 1993

Test Ticket

No 4553

15-153-20788-00-00

FROM CONFIDENTIAL

Well Name & No. FRANK TRUST 1st Test No. 2 Date 3-28-92
 Company MARMIX Oil Zone Tested LAN 'C'
 Address 200 N JEFFERSON 300 EL DORADO AR Elevation 3186 K.D
 Co. Rep./Geo. MORRILL Cont. ALH Rig 4 Est. Ft. of Pay 4
 Location: Sec. 6 Twp. 2S Rge. 34W Co. BOWLING State KS
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 4202-4255 Drill Pipe Size 4 1/2 HT
 Anchor Length 53 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 4197 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 4202 Wt. Pipe I.D. — 2.7 Ft. Run 568
 Total Depth 4255 Drill Collar — 2.25 Ft. Run _____
 Mud Wt. 9.9 LCM 1st lb/gal. Viscosity 48 Filtrate 12.2
 Tool Open @ 6:09 PM Initial Blow 4" Blow in 30 MIN

Final Blow NO Blow 4 MIN WEAK SURT TO 1 1/2" 60 MIN

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
Rec. <u>5</u> Feet Of <u>0.1</u> % gas <u>100</u> % oil _____ % water _____ % mud _____		
Rec. <u>30</u> Feet Of <u>0.1 MUD</u> % gas <u>25</u> % oil _____ % water <u>75</u> % mud _____		
Rec. <u>60</u> Feet Of <u>SOIL MUD</u> % gas <u>5</u> % oil _____ % water <u>95</u> % mud _____		
Rec. _____ Feet Of _____ % gas _____ % oil _____ % water _____ % mud _____		
Rec. _____ Feet Of _____ % gas _____ % oil _____ % water _____ % mud _____		

BHT 121 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1200 ppm System

(A) Initial Hydrostatic Mud 2083 PSI Ak1 Recorder No. 13308 Range 4700
 (B) First Initial Flow Pressure 33 PSI @ (depth) 4205 w/Clock No. 27567
 (C) First Final Flow Pressure 44 PSI AK1 Recorder No. 11037 Range 4500
 (D) Initial Shut-In Pressure 962 PSI @ (depth) 4250 w/Clock No. 7452
 (E) Second Initial Flow Pressure 44 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 56 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 883 PSI Initial Opening 30 Test
 (H) Final Hydrostatic Mud 2041 PSI Initial Shut-In 30 Jars _____

Final Flow 60 Safety Joint _____
 Final Shut-In 45 Straddle _____

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 KANSAS CORPORATION COMMISSION

Approved By _____
 Our Representative Mark Hensley
 Extra Packer _____
 APR 23 1992
 Other _____

Printcraft Printers - Hays, KS

TOTAL PRICE \$ _____
 CONSERVATION DIVISION
 WICHITA, KS

TRILOBITE TESTING COMPANY, L.L.C.
 ORIGINAL P.O. Box 362 • Hays, Kansas 67601

15-153-20788-00-00
Drill-Stem Test Data

Well Name FRANK TRUST #1 Test No. 3 Date 3/29/92
 Company MARMIK OIL Zone Tested LANSING "B"
 Address 200 N. JEFFERSON #500 EL DORADO ARK Elevation 3186 K.B.
 Co. Rep./Geo. CURTIS MORRILL cont. A.L.A. RIG #4 Est. Ft. of Pay 4
 Location: Sec. 6 Twp. 2S Rge. 34W Co. RAWLINS State KS

Interval Tested 4285-4340 Drill Pipe Size 4.5 XH
 Anchor Length 55 Wt. Pipe I.D. - 2.7 Ft. Run 5.68
 Top Packer Depth 4280 Drill Collar — 2.25 Ft. Run _____
 Bottom Packer Depth 4285
 Total Depth 4340

Mud Wt. 9.3 lb / gal. Viscosity 49 Filtrate 12.2

Tool Open @ 10:03 AM Initial Blow SURFACE BLOW TO 5.5" IN 45 MINUTES
 Final Blow SURFACE BLOW TO 4 3/4" IN 60 MINUTES

Recovery — Total Feet 70 Flush Tool? NO

Rec. 110 Feet of GAS IN PIPE

Rec. 70 Feet of MUD CUT OIL-60%OIL/40%MUD

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

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

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1200 ppm System

(A) Initial Hydrostatic Mud 2219.4 PSI Ak1 Recorder No. 2023 Range 4000

(B) First Initial Flow Pressure 29.1 PSI @ (depth) 4287 w/Clock No. 27467

(C) First Final Flow Pressure 31.3 PSI AK1 Recorder No. 11057 Range 4500

(D) Initial Shut-in Pressure 1049.3 PSI @ (depth) 4335 w/Clock No. 7452

(E) Second Initial Flow Pressure 36.9 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 40.3 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure 1086.3 PSI Initial Opening 45 Final Flow 60

(H) Final Hydrostatic Mud 2194.5 PSI Initial Shut-in 30 Final Shut-in 45

Our Representative MARK HERSKOWITZ TOTAL PRICE \$ 550

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 KANSAS CORPORATION COMMISSION
RELEASED APR 23 1992
 CONSERVATION DIVISION
 WICHITA, KS

FROM CONFIDENTIAL

15-153-20788-00-00

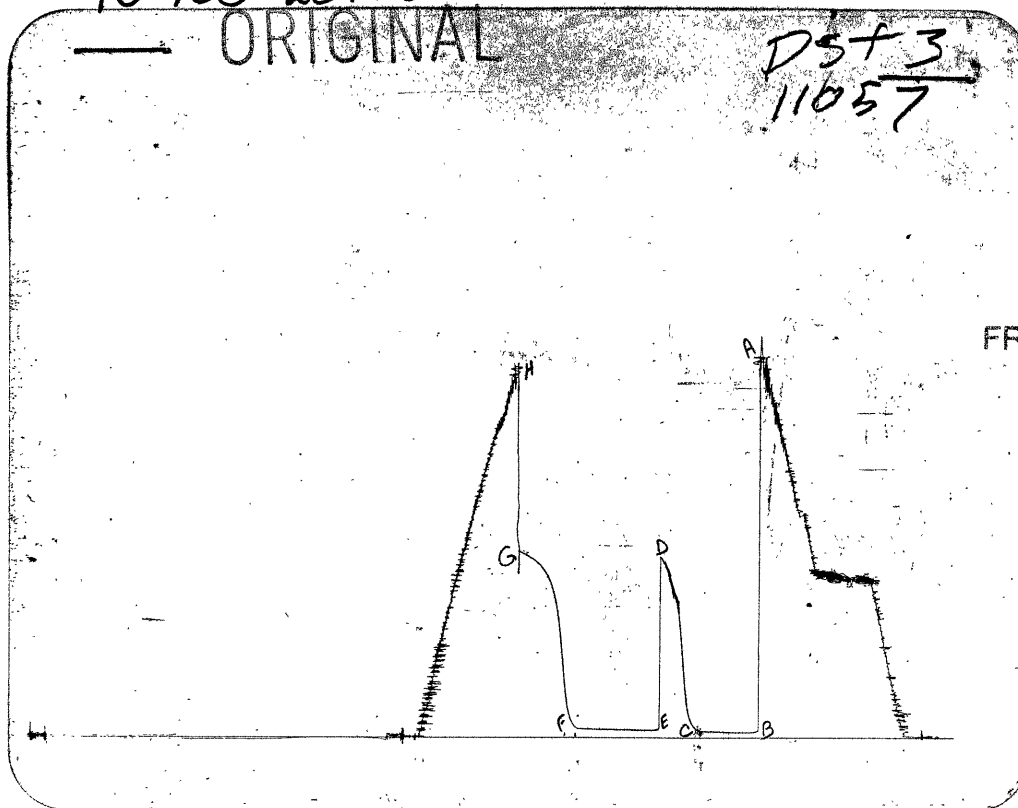
ORIGINAL

DST 3
11057

RELEASED

MAY 13 1993

FROM CONFIDENTIAL



POINT

This is an actual photograph of recorder chart
PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2200	2219.4
(B) FIRST INITIAL FLOW PRESSURE	33	29.1
(C) FIRST FINAL FLOW PRESSURE	44	31.3
(D) INITIAL CLOSED-IN PRESSURE	1070	1049.3
(E) SECOND INITIAL FLOW PRESSURE	44	36.9
(F) SECOND FINAL FLOW PRESSURE	55	40.3
(G) FINAL CLOSED-IN PRESSURE	1070	1086.3
(H) FINAL HYDROSTATIC MUD	2151	2194.5

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KANSAS CORPORATION COMMISSION

APR 23 1992

CONSERVATION DIVISION
WICHITA, KS

CALCULATED RECOVERY ANALYSIS

WEIGHT PIPE

DST #

3

ORIGINAL

TICKET #

4554

15-153-20788-00-00

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	110	100	110	0	0	0	0	0	0
2	70		0	60	42		0	40	28
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	180	61.11	110	23.333333	42	0	0	15.556	28

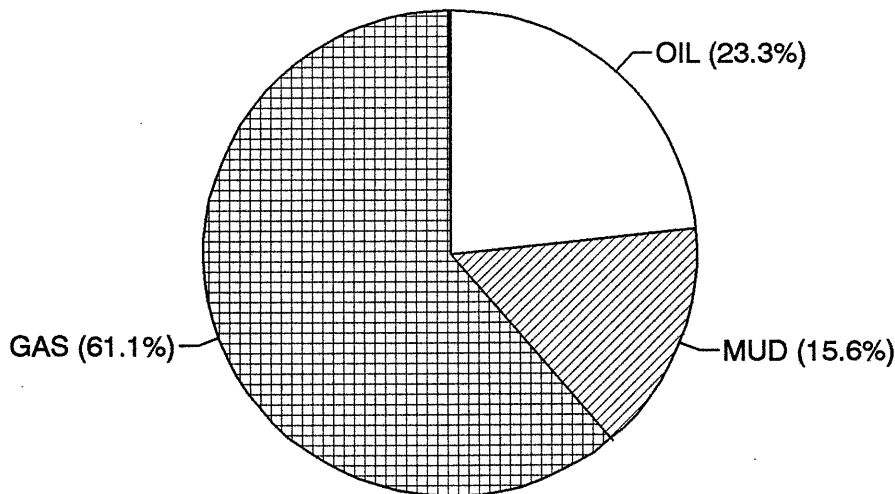
HRS OPEN BBL/DAY

BBL OIL=	0.294	*	1.75	4.032
BBL WATER=	0	*		0
BBL MUD=	0.196			
BBL GAS=	0.77			

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MAY 13

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CONSERVATION DIVISION
WICHITA, KS

ORIGINAL

15-153-20788-00-00

FRANK TRUST #1 DST #3
INITIAL SHUTIN
45 FLOW TIME

Slope
P *

TIME(MIN)	Pws (psi)	Log		<> PRESSURE
		Horn T	Horn T	
3	32.5	16	1.204	32.5
6	33.6	9	0.929	1.1
9	44.8	6	0.778	11.2
12	81.8	5	0.677	37.0
15	155.8	4	0.602	74.0
18	344.1	4	0.544	188.3
21	707.6	3	0.497	363.5
24	835.9	3	0.459	128.3
27	935.2	3	0.426	99.3
30	1001.1	3	0.398	65.9
33	1049.3	2	0.374	48.2

FRANK TRUST #1 DST #3
FINAL SHUTIN
105 TOTAL FLOW TIME

Slope
P *

TIME(MIN)	Pws (psi)	Log		<> PRESSURE
		Horn T	Horn T	
3	54.9	36	1.556	54.9
6	93.1	19	1.267	38.2
9	156.9	13	1.103	63.8
12	307.1	10	0.989	150.2
15	579.2	8	0.903	272.1
18	789.1	7	0.835	209.9
21	893.9	6	0.778	104.8
24	947.5	5	0.730	53.6
27	983.2	5	0.689	35.7
30	1007.8	5	0.653	24.6
33	1030.2	4	0.621	22.4
36	1048.2	4	0.593	18.0
39	1065.1	4	0.567	16.9
42	1078.4	4	0.544	13.3
45	1086.3	3	0.523	7.9

RECEIVED
KANSAS CORPORATION COMMISSION

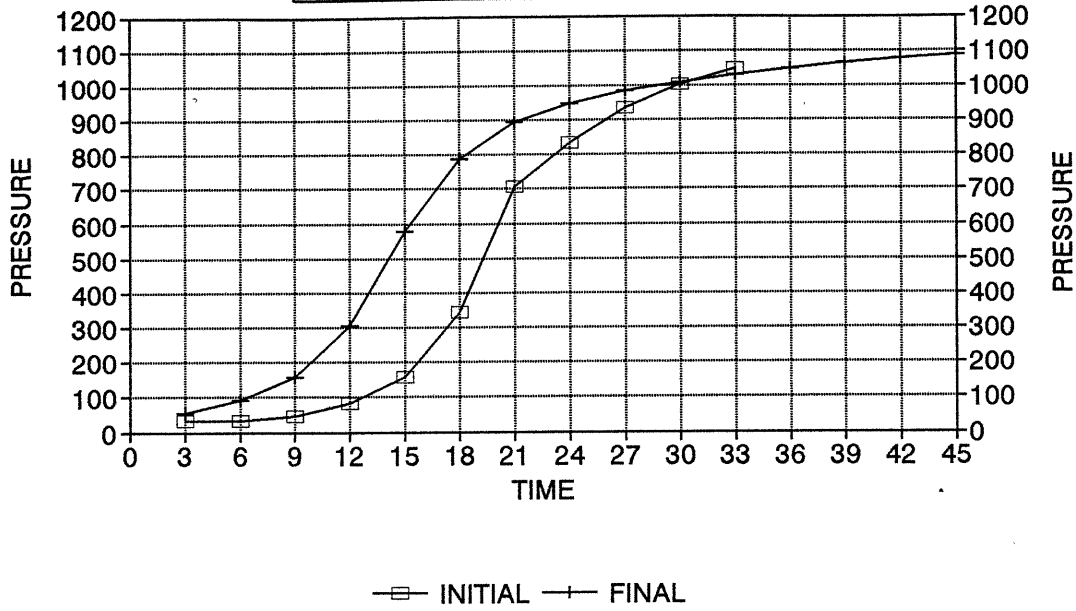
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MAY 13 1993
FROM CONFIDENTIAL

APR 23 1992
CONSERVATION DIVISION
WICHITA, KS

DELTA T DELTA P
DST #3 / FRANK TRUST #1

ORIGINAL

15-153-20788-00-00

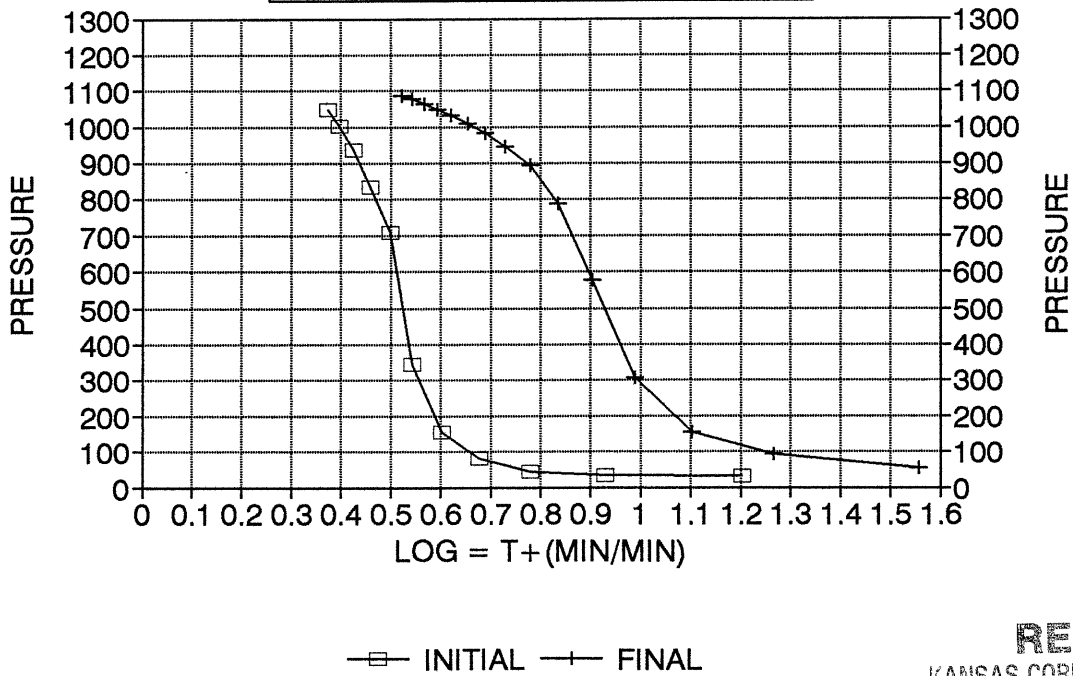


RELEASED

MAY 13 1992

FROM CONFIDENTIAL

HORNER PLOT
DST #3 / FRANK TRUST #1



RECEIVED

KANSAS CORPORATION COMMISSION

APR 23 1992

CONSERVATION DIVISION
 WICHITA, KS

TRILOBITE TESTING COMPANY L.L.C.

ORIGINAL

P.O. Box 362 • Hays, Kansas 67601

15-153-20788-00-00

Test Ticket

No 4554

Well Name & No. FRANK TRUST 1 # Test No. 3 Date 3-29-92
 Company MARRILL OIL Zone Tested LAN E
 Address 200N JEFFERSON 300 EL DADO AK Elevation 3186 6/13
 Co. Rep./Geo. MARRILL Cont. ALA Rig 4 Est. Ft. of Pay 4
 Location: Sec. 6 Twp. 2S Rge. 34W Co. POWELL State KS
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 4285 - 4340 Drill Pipe Size 4 1/2 X H
 Anchor Length 55 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 4280 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 4285 Wt. Pipe I.D. — 2.7 Ft. Run 568
 Total Depth 4340 Drill Collar — 2.25 Ft. Run _____
 Mud Wt. 9.3 LCM 1 lb/gal. Viscosity 49 Filtrate 12.2
 Tool Open @ 10:03 AM Initial Blow SUB BLOW TO 5 1/2" IN 45 MIN

Final Blow SUB BLOW TO 4 3/4" IN 60 MIN

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
<u>70</u>	<u>110</u>	_____
Rec. <u>70</u> Feet Of <u>MUD OIL</u>	% gas <u>60</u> % oil _____	% water <u>40</u> % mud _____
Rec. _____ Feet Of <u>RELEASED</u>	% gas _____ % oil _____	% water _____ % mud _____
Rec. _____ Feet Of _____	% gas _____ % oil _____	% water _____ % mud _____
Rec. _____ Feet Of <u>1 3 1093</u>	% gas _____ % oil _____	% water _____ % mud _____
Rec. _____ Feet Of _____	% gas _____ % oil _____	% water _____ % mud _____

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

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1200 ppm System

(A) Initial Hydrostatic Mud 2200 PSI Ak1 Recorder No. 2023 Range 4000
 (B) First Initial Flow Pressure 33 PSI @ (depth) 4287 w/Clock No. 27467
 (C) First Final Flow Pressure 44 PSI Ak1 Recorder No. 11057 Range 4500
 (D) Initial Shut-In Pressure 1070 PSI @ (depth) 4335 w/Clock No. 7452
 (E) Second Initial Flow Pressure 44 PSI Ak1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 55 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 1070 PSI Initial Opening 45 Test
 (H) Final Hydrostatic Mud 2151 PSI Initial Shut-In 30 Jars _____

Final Flow 40 Safety Joint _____
 Final Shut-In RECEIVED Straddle _____
 KANSAS CORPORATION COMMISSION Circ. Sub NC
 Sampler _____
 Extra Packer _____
 other _____

Approved By _____ APR 23 1992
 Our Representative Mark Herberg CONSERVATION DIVISION WICHITA, KS
 Printcraft Printers - Hays, KS TOTAL PRICE \$ _____

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.



JOB SUMMARY

HALLIBURTON DIVISION **Oklahoma City** 15-153-20788-00-00
 HALLIBURTON LOCATION **Oberlin, Ks** **BILLED ON TICKET NO. 163801**

CONFIDENTIAL

FIELD _____ SEC. **6** TWP. **23** RNG **34w** COUNTY **Rawlins** STATE **Ks**

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

PRESENT PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA **12 1/4" Hole** TOTAL DEPTH **304'**

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		1030.0	8 5/8"	KB	302'	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT DATE	ON LOCATION DATE	JOB STARTED DATE	JOB COMPLETED DATE
3/23/92	3/23/92	3/23/92	3/24/92
TIME 1630	TIME 1945	TIME 2200	TIME 0200

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG KA-11 8 5/8"	1ea	Hanco
HEAD		
PACKER		
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
S. Dolan	41276	Oberlin Ks.
H. Berry	35177 R/M	"
M. Jones	MT-400	"
	3576	"
	6-1K	"

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB./GAL.-API

DISPL. FLUID _____ DENSITY _____ LB./GAL.-API

PROP. TYPE _____ SIZE _____ LB.

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE _____ GAL.

ACID TYPE _____ GAL.

ACID TYPE _____ GAL.

SURFACTANT TYPE _____ GAL. IN

NE AGENT TYPE _____ GAL.

FLUID LOSS ADD. TYPE _____ GAL.-LB.

GELLING AGENT TYPE _____ GAL.-LB.

FRIC. RED. AGENT TYPE _____ GAL.-LB.

BREAKER TYPE _____ GAL.-LB.

BLOCKING AGENT TYPE _____ GAL.-LB.

PERFPAC BALLS TYPE _____ QTY.

OTHER _____

OTHER _____

RECEIVED
KANSAS CORPORATION COMMISSION
APR 25 1992
CONSERVATION DIVISION
WICHITA, KS

DEPARTMENT **Cmt & Bulk**

DESCRIPTION OF JOB **Cmt 8 5/8" Surf Cong.**

JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.

CUSTOMER REPRESENTATIVE **X** **Wesley**

HALLIBURTON OPERATOR **STH** COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	305	Std P62	60/40	6	270 Gal, 9 PCC	1.28	14.36

RELEASED

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____

BREAKDOWN _____ MAXIMUM _____

AVERAGE _____ FRACTURE GRADIENT _____

SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____

HYDRAULIC HORSEPOWER _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ CEMENT LEFT IN PIPE _____

FEET _____ REASON _____

SUMMARY

PRESLUSH: BBL.-GAL. _____ TYPE _____

LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____

TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. _____

CEMENT SLURRY: BBL.-GAL. _____

TOTAL VOLUME: BBL.-GAL. _____

REMARKS

See Job log

Thank You Scott, Mike Harold

CONSERVATION DIVISION
Wichita, Kansas

CUSTOMER: **Marmak O.I. Company**

LEASE: **Frank Trust**

WELL NO: **#1**

JOB TYPE: **Get Surf Cong**

DATE: **3/23/92**



ORIGINAL JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

OKLAHOMA City
Oberlin Ks

15-153-20788-00-00

BILLED ON TICKET NO. 163881

FIELD E St. John Church SEC. 6 WELL DATA TWP. 25 RNG. 34W COUNTY Rawlins STATE Ks

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH 4450

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING			<u>8 5/8</u>	<u>6.1</u>	<u>350</u>	
LINER						
TUBING			<u>7 7/8</u>	<u>350</u>	<u>4450</u>	SHOTS/FT.
OPEN HOLE						
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		<u>KCC</u>
FLOAT SHOE		
GUIDE SHOE	<u>APR 21</u>	
CENTRALIZERS		
BOTTOM PLUG	<u>CONFIDENTIAL</u>	
TOP PLUG		
HEAD		
PACKER		
OTHER <u>LA-11</u>	<u>85/B</u>	<u>1 HALCO</u>

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>3-30-92</u> TIME <u>0830</u>	DATE <u>3-30-92</u> TIME <u>1050</u>	DATE <u>3-30-92</u> TIME <u>1115</u>	DATE <u>3-30-92</u> TIME <u>1400</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>T. GARRISON</u>	<u>3243</u>	<u>DBAL</u>
<u>R. LEGG</u>	<u>Comb HT</u>	<u>Ks</u>
<u>J. KECUAN</u>	<u>1567</u>	<u>DBAL</u>
	<u>RIK-TEK</u>	<u>Ks</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB./GAL. API

DISPL. FLUID _____ DENISTY _____ LB./GAL. API

PROP. TYPE _____ SIZE _____ LB.

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

SURFACTANT TYPE _____ GAL. _____ IN.

NE AGENT TYPE _____ GAL. _____ IN.

FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN.

GELLING AGENT TYPE _____ GAL.-LB. _____ IN.

FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN.

BREAKER TYPE _____ GAL.-LB. _____ IN.

BLOCKING AGENT TYPE _____ GAL.-LB. _____

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT CMT

DESCRIPTION OF JOB Plug to Abandon

JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.

CUSTOMER REPRESENTATIVE X Ward

HALLIBURTON OPERATOR J. Hanner COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>190</u>	<u>60/40</u>	<u>Poz</u>	<u>B</u>	<u>6% TOTAL Gel</u>	<u>1.64</u>	<u>13.2</u>

RELEASED
MAY 13 1993

PRESSURES IN PSI SUMMARY

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL.-GAL. _____ TYPE _____

BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL.-GAL. _____

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. _____

SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____ CEMENT SLURRY: BBL.-GAL. _____

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____ STATE CORPORATION COMMISSION

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET _____ REASON _____

RECEIVED
STATE CORPORATION COMMISSION
REMARKS RECEIVED
STATE CORPORATION COMMISSION
See Job Log
APR 23 1992
APR 23 1992

OKLAHOMA DIVISION
Wichita, Kansas

CONSERVATION DIVISION
Wichita, Kansas

CUSTOMER: Merritt O'Leary
LEASEE: Frank Trust
WELL NO.: 1
JOB TYPE: PTA
DATE: 3-30-92



**BULK MATERIALS DELIVERY
ORIGINAL AND
TICKET CONTINUATION**

FOR INVOICE AND TICKET NO. 163881

A Division of Halliburton Company

15-153-20788-00-00

DATE 3-30-92	CUSTOMER ORDER NO.	WELL NO. AND FARM Frank Trust #1	COUNTY Rawlins	STATE Ks
CHARGE TO Marmik		OWNER Marmik	CONTRACTOR Abercrombie	No. B 113935
MAILING ADDRESS		DELIVERED FROM Oberlin, Ks	LOCATION CODE 25529	PREPARED BY vlk
CITY & STATE		DELIVERED TO E of St Johns Church	TRUCK NO. 1567	RECEIVED BY J. Larus

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
		L	D		QTY.	MEAS.	QTY.	MEAS.			
504-308				Standard Cement	114	sk			7.14	813	96
506-105				Pozmix	76	sk			3.90	296	40
506-121				Halliburton Gel Allowed 2% (3)						NC	
507-277				Halliburton Gel Mixed 4%	7	sk			14.75	103	25
507-210				Flocele	48	lb			1.30	62	40

KCC
APR 2 1
CONFIDENTIAL
THIS IS NOT AN INVOICE
RELEASED
APR 5 1993
FROM CONFIDENTIAL

Returned Mileage Charge	TOTAL WEIGHT	LOADED MILES	TON MILES	
SERVICE CHARGE ON MATERIALS RETURNED			CU. FEET	
500-207			207	1.15 238 05
500-306	Mileage Charge	17,388	40	278 21
No. B 113935		TOTAL WEIGHT	STATE CURTAGE	SUB-TOTAL
		17,388	40	1792 27

CUSTOMER
CONSERVATION DIVISION
Wichita, Kansas

ORIGINAL

HALLIBURTON SERVICES
Duncan, Oklahoma 73536

A Division of Halliburton Company

TICKET

No. 163881-3

FORM 1906 R-11

15-153-20788-00-00

WELL NO. - FARM OR LEASE NAME 1 Frank Trust		COUNTY Rawlins	STATE Ks	CITY / OFFSHORE LOCATION	DATE 3-30-92
CHARGE TO Marmik Oil Co.		OWNER Marmik Oil		TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>	
ADDRESS		CONTRACTOR Abercrombie Dely		LOCATION 1 Odel	
CITY, STATE, ZIP		SHIPPED VIA 5327		LOCATION 2	
WELL TYPE 01-01		WELL CATEGORY 03-Wildcat		WELL PERMIT NO.	
TYPE AND PURPOSE OF JOB 115-PTA		B-		DELIVERED TO NW Atwood, Ks	
		ORDER NO.		REFERRAL LOCATION	

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C.	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
000-117		1		MILEAGE	40	mi			2.60	104 00
090-910		1		Pump Chg	1	EA			370	370 00
030-503		1		LA-II Plug	1	EA	8 7/8 in		90	90 00
090-92B		1		Add He KCC	1	EA			84	84 00
APR 21 CONFIDENTIAL										
THIS IS NOT AN INVOICE										
RELEASED					RECEIVED					
MAY 13 1993					KANSAS CORPORATION COMMISSION					
FROM CONFIDENTIAL					APR 23 1992					
					CONSERVATION DIVISION WICHITA, KS					

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. B-

WAS JOB SATISFACTORILY COMPLETED? _____
 WAS OPERATION OF EQUIPMENT SATISFACTORY? _____
 WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

WE CERTIFY THAT THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED HAS BEEN COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR WITH RESPECT TO SERVICES FURNISHED UNDER THIS CONTRACT.

J. Harrison

HALLIBURTON OPERATOR

SUB TOTAL

X CUSTOMER OR HIS AGENT (PLEASE PRINT)
 X *Marmik Oil Co.*
 CUSTOMER OR HIS AGENT (SIGNATURE)

HALLIBURTON APPROVAL

CUSTOMER

APPLICABLE TAXES WILL BE ADDED ON INVOICE.

JOB LOG

ORIGINAL

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0830							Time called - Ready @ 1100
	1050							ON Loc - Rig pulling D.P.
								Setup equip & Hook to D.P. @ 3050'
	1115		10					Run 10 BBL H2O Ahead.
			7.3	1				Mix 25sk 60/40 6% Gel
			3 1/2				KCC	3 1/2 BBL H2O
	1126		38					Display 38 BBL Delq Mud
							APR 2	Pull D.P. to 2285'
	1207		10	1				CONFIDENTIAL 310 BBL H2O
			29	1				Mix 100sk 60/40 6% Gel
			2 1/2					2 1/2 BBL w/te spacer
	1220		21					Disp w/ 21 BBL Delq Mud
	1225							Pull D.P. to 355'
	1312							St 5 BBL H2O Ahead
			2.9					Mix 40sk 60/40 6% Gel
			2 1/2					Start Disp
	1318							Disp EN
								Rig pull Rest of D.P.
								Set Bridged Plug @ 40'
	1350		2.9					Mix 10sk 60/40 6% Gel
								Pull RAT Hole
	1355		4.4					Mix & fill w/ 15sk 60/40 6% Gel
	1400							JOB Complete

RELEASED

APR 13 1993

FROM CONFIDENTIAL

THANKS

Terry John Kent

RECEIVED

KANSAS CORPORATION COMMISSION

APR 23 1992

CONSERVATION DIVISION WICHITA, KS

CUSTOMER



ORIGINAL WORK ORDER CONTRACT AND PRE-TREATMENT DATA

FORM 1908 R-7

A Division of Halliburton Company

ATTACH TO INVOICE & TICKET NO. **163881**DISTRICT **Pratt, Ks****15-153-20788-00-00**DATE **3-30-92**

TO: HALLIBURTON SERVICES

YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE

THE SAME AS AN INDEPENDENT CONTRACTOR TO:

MARMIK OIL CO.

(CUSTOMER)

AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. **1** LEASE **FRANK TRUST** SEC. **6** TWP. **2S** RANGE **34W**FIELD **W/ST. JOHN Church** COUNTY **Rawlins** STATE **Ks** OWNED BY **MARMIK OIL CO**

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

PACKER: TYPE _____ SET AT _____

TOTAL DEPTH **4450** MUD WEIGHT _____

BORE HOLE **7 7/8"**

INITIAL PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF _____

PRESENT PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING			8 5/8	G.L.	350	
LINER						
TUBING	KOC					
OPEN HOLE	APR 21		7 7/8	350	4450	SHOTS/FT.
PERFORATIONS	CONFIDENTIAL					
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED _____

FTA - 3150' - 25SK 60/140 690691 155K RAT Hole Mouse Hole

2285' - 100SK " " " "

325' - 40SK " " " "

40' - 10SK " " " "

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

As consideration, the above-named Customer agrees:

THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

- To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
 - To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
 - Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
 - Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 - Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.
- The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated or chartered by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from any cause whatsoever, but shall not apply to any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants, of all of them.
- That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any quantitative estimation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
 - That Halliburton warrants only title to the products, supplies and materials and does not warrant the quality or fitness of workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. THE CUSTOMER'S EXCLUSIVE REMEDY IN ANY CAUSE OF ACTION (WHETHER IN CONTRACT, TORT, BREACH OF WARRANTY OR OTHERWISE) ARISING OUT OF THE SALE OR USE OF ANY PRODUCTS, SUPPLIES OR MATERIALS IS EXPRESSLY LIMITED TO THE REPLENISHMENT OF SUCH PRODUCTS, SUPPLIES OR MATERIALS ON THEIR RETURN TO HALLIBURTON-OR, AT HALLIBURTON'S OPTION, TO THE ALLOWANCE TO THE CUSTOMER OF CREDIT FOR THE COST OF SUCH REPLACEMENT PRODUCTS, SUPPLIES OR MATERIALS. THIS WARRANTY DOES NOT APPLY TO SPECIAL, INCIDENTAL, INDIRECT, PUNITIVE OR CONSEQUENTIAL DAMAGES.
 - That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
 - To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
 - That this contract shall be governed by the law of the state where services are performed or materials are furnished.
 - That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED

DATE

TIME

Harold Wesley

CUSTOMER

3-30-92**1100****AM P.M.**

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

CUSTOMER

CONSERVATION DIVISION
WICHITA, KS

APR 23 1992