

ORIGINAL ORIGINAL

RELEASE

JUN 24 1991

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

API NO. 15- 101-21,540-00-00

County Lane FROM CONFIDENTIAL
Approx. S/2 S/2 SW/4 Sec. 30 Twp. 16S Rge. 29 X East West

Operator: License # 5238

Name: Petroleum, Inc.

Address 301 N. Main, Suite 900

City/State/Zip Wichita, KS 67202

Purchaser: Koch Oil Company

Operator Contact Person: Everett Jones

Phone (913) 434-4647

Contractor: Name: Abercrombie Drilling, Inc.

License: 5422

Wellsite Geologist: Tyler Sanders

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp. Abd.
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply, etc.)

If OAWO: old well info as follows:
Operator: N/A

Well Name:

Comp. Date Old Total Depth

Drilling Method:
 Mud Rotary Air Rotary Cable

01-29-90 02-08-90 3-16-90
Spud Date Date Reached TD Completion Date

330 Ft. North from Southeast Corner of Section

3885 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

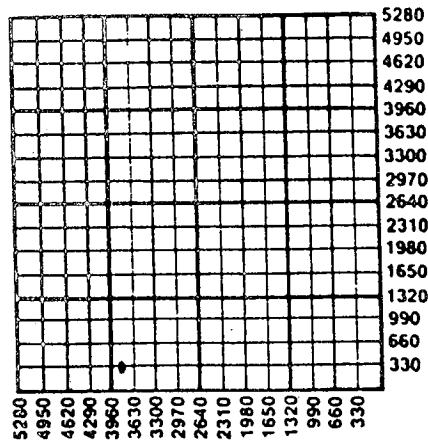
Lease Name Dickey "F" Well # 1

Field Name Wildcat

Producing Formation Marmaton

Elevation: Ground 2811' KB 2816'

Total Depth 4585' PBTD F.C. 4540'



ALT II
8-16-90

Amount of Surface Pipe Set and Cemented at 223.84 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 2252 Feet

If Alternate II completion, cement circulated from 2252

feet depth to Surface w/ 425 sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 *Paul Spreitzer*

Title Clerical Supervisor-Production Date 4/03/90

Subscribed and sworn to before me this 3rd day of April 19 90.

Notary Public *Laura A. Miller*

Date Commission Expires May 11, 1993

K.C.C. OFFICE USE ONLY
 Letter of Confidentiality Attached
 Wireline Log Received
 Drillers Timelog Received
Distribution
KCC SWD/Rep NGPA
KGS Plug Other (Specify)
CONSERVATION DIVISION
Wichita, Kansas
285708

Laura A. Miller
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp.

CONFIDENTIAL

SIDE TWO

Operator Name Petroleum, Inc. Lease Name Dickey "F" Well # 1

Sec. 30 Twp. 16S Rge. 29 East West County Lane

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.)

Copies of logs and drill stem tests are enclosed

FROM CONFIDENTIAL

Formation Description

Log Sample

Name Top Bottom

Copy of geological report is enclosed

CASING RECORD New 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 1/2"	8 5/8"	20#	223.84'	60/40 poz	165	2% gel, 3% salt
Production		5 1/2"	14#	4584'	50/50 poz Class A	150 25	3/4 of 1% CD-31, 1% gel, 10% salt
		500 gal. Mud Flush			Light	425	3/4 of 1% CD-31, 4% gel per sk

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	
Shots Per Foot	Specify Footage of Each Interval Perforated	Depth	Depth
4	Upper Marmaton (4363-4367)	500 gallons 15% MCA	4363-67
4	Lower Marmaton (4448-4451)	1000 gallons 15% MCA	4448-51

TUBING RECORD

Size 2-3/8 Set At 4495 Packer At _____ Liner Run Yes No

Date of First Production 3-19-90 Producing Method Flowing Pumping Gas Lift Other (Explain) _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	70	0	8	0	

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION

Open Hole Perforation Dually Completed Commingled

Other (Specify) _____

Production Interval
4363-4367
4448-4451

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

15-101-21540-00-00
Drill-Stem Test Data

KCC

ORIGINAL

AUG 16 1990

Well Name & No.	DICKEY "F" #1	Test No.	1	Date	2/3/90
Company	PETROLEUM INC	Zone Tested	LANSING "E & F"		
Address	900 EPIC CENTER/301 MAIN WICHITA KS		Elevation	2816 KB	
Co. Rep./Geo.	MR TYLER SANDERS	Cont.	ABERCROMBIE RIG # Est. Ft. of Pay 5		
Location: Sec.	30	Twp.	16S	Rge.	29W
Co.	LANE		State	KANSAS	

Interval Tested	4000-4058	Drill Pipe Size	4.5" XH
Anchor Length	58	Top Choke - 1"	
Top Packer Depth	3994	Bottom Choke - 1/4"	RELEASE
Bottom Packer Depth	3999	Hole Size - 7 7/8"	JUN 24 1991
Total Depth	4058	Rubber Size - 6 3/4"	
Wt. Pipe I.D. - 2.7		Ft. Run	629 FROM CONFIDENTIAL
Drill Collar - 2.25		Ft. Run	0
Mud Wt.	9.2	Viscosity	44
Tool Open @ 8:24	Initial Blow	Filtrate	8
BACK	WEAK BLOW BUILDING TO 1" AT SHUTIN-NO BLOW		
Final Blow	WEAK BLOW BUILDING TO 1" AT SHUTIN		

Recovery - Total Feet	35	Flush Tool?	NO
Rec.	35	Feet of	OIL CUT MUD-85%MUD/15%OIL
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	
BHT	112 °F	Gravity	0 °API @ 0 °F
RW	@	°F Chlorides	ppm Recovery Chlorides 1000 ppm System
(A) Initial Hydrostatic Mud	1954.6	PSI	AK1 Recorder No. 13615 Range 4575
(B) First Initial Flow Pressure	62.3	PSI	@(depth) 4003 w/Clock No. 14389
(C) First Final Flow Pressure	51.8	PSI	AK1 Recorder No. 10248 Range 4400
(D) Initial Shut-In Pressure	466.9	PSI	@(depth) 4055 w/Clock No. 27567
(E) Second Initial Flow Pressure	62.3	PSI	Initial Opening 20
(F) Second Final Flow Pressure	51.8	PSI	Initial Shut-In 30
(G) Final Shut-In Pressure	402.8	PSI	Final Flow 30
(H) Final Hydrostatic Mud	1899.7	PSI	Final Shut-In 30

MR ROGER SELLS

Our Representative _____

TOTAL PRICE \$ 400

DST# 1 RECORDER# 13615

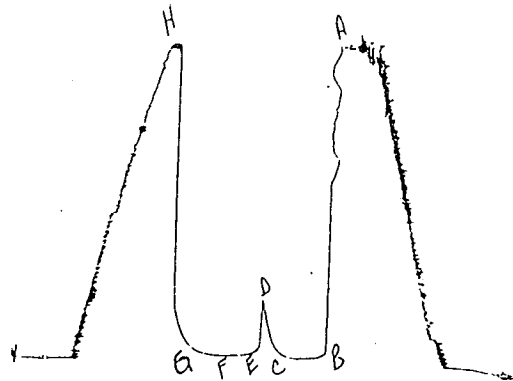
DST#
13615

ORIGINAL

RELEASED

JUN 24 1991

FROM CONFIDENTIAL



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	1947	1954.6	PSI
(B) First Initial Flow Pressure.....	56	62.3	PSI
(C) First Final Flow Pressure.....	45	51.8	PSI
(D) Initial Closed-In Pressure.....	461	466.9	PSI
(E) Second Initial Flow Pressure.....	56	62.3	PSI
(F) Second Final Flow Pressure.....	45	51.8	PSI
(G) Final Closed-In Pressure.....	394	402.8	PSI
(H) Final Hydrostatic Mud.....	1892	1899.7	PSI

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

TEST TICKET

No. 2446

Well Name & No. Dickey "F" #1 Test No. 1 Date 2-3-90
 Company Pet. Inc. Zone Tested LANSING E & F
 Address 900 Epic Center 301 N. Main Wichita, Ks. Elevation 2816 KB'
 Co. Rep. / Geo. Tyler Sanders cont. Abercrombie Rig #8 Est. Ft. of Pay 6'
 Location: Sec. 30 Twp. 16 Rge. 29 Co. LANE State Ks.
 No. of Copies Normal Distribution Sheet Yes No Turnkey Yes No

Interval Tested 4000 - 4058 Drill Pipe Size 4 1/2 x H
 Anchor Length 58' Top Choke - 1" Bottom Choke - 1/4"
 Top Packer Depth 3994 Hole Size - 7 7/8" Rubber Size - 6 3/4"
 Bottom Packer Depth 3999 Wt. Pipe I.D. - 2.7 Ft. Run 1629'
 Total Depth 4058 Drill Collar - 2.25 Ft. Run _____
 Mud Wt. 9.2 lb/gal. Viscosity 44 Filtrate 8
 Tool Open @ 8:24 Initial Blow weak blow building to 1" @ shut-in
no blow back @ shut-in
 Final Blow weak blow building to 1" @ shut-in

Recovery - Total Feet 35' Flush Tool? NO
 Rec. 35' Feet of Oil Cut Mud 85% mud 15% oil
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 BHT 112 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1,000 ppm System
 (A) Initial Hydrostatic Mud 1947 PSI AK1 Recorder No. 13615 Range 4575
 (B) First Initial Flow Pressure 56 PSI @ (depth) 4003 w/Clock No. 14389
 (C) First Final Flow Pressure 45 PSI AK1 Recorder No. 10248 Range 4400
 (D) Initial Shut-in Pressure 461 PSI @ (depth) 4055 w/Clock No. 27567
 (E) Second Initial Flow Pressure 56 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 45 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-in Pressure 394 PSI Initial Opening 20 Test _____
 (H) Final Hydrostatic Mud 1892 PSI Initial Shut-in 30 Jars X
 Final Flow 30 Safety Joint X
 Final Shut-in 30 Straddle _____
 Circ. Sub X
 Sampler _____
 Extra Packer _____
 Other _____
 TOTAL PRICE \$ _____

Approved By Tyler H. Sanders
 Our Representative Roger F. Sells

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Drill-Stem Test Data

Well Name & No.	DICKEY "F" #1	Test No.	2	Date	2/4/90				
Company	PETROLEUM INC	Zone Tested	ALTAMONT						
Address	900 EPIC CENTER/301 MAIN WICHITA KS		Elevation	2816 KB					
Co. Rep./Geo.	MR TYLER SANDERS	cont.	ABERCROMBIE RIG #8	Est. Ft. of Pay	5				
Location: Sec.	30	Twp.	16S	Rge.	29W	co.	LANE	State	KANSAS

Interval Tested	4256-4374	Drill Pipe Size	4.5" XH						
Anchor Length	108	Top Choke - 1"							
Top Packer Depth	4250	Bottom Choke - 3/4"							
Bottom Packer Depth	4255	Hole Size - 7 7/8"							
Total Depth	4374	Rubber Size - 6 3/4"							
Wt. Pipe I.D. - 2.7		Ft. Run	629						
Drill Collar - 2.25		Ft. Run	0						
Mud Wt.	9.4	lb./gal.	Viscosity	50	Filtrate	10.4			
Tool Open @	2:59 PM	Initial Blow	STRONG BLOW OFF BOTTOM OF BUCKET IN 2 MIN - ISI: OPENED 2" VALVE & BLED OFF FOR 5 MIN - BLOW BACK TO BOTTOM BY 2nd OPEN						
Final Blow	STRONG-OFF BOTTOM OF BUCKET IMMEDIATELY - OPENED 2" VALVE AT FSI & BLED FOR 5 MIN - CLOSED & GOT BLOW BACK IMMEDIATELY								
Recovery - Total Feet	1260	Flush Tool?	NO						
Rec.	1320	Feet of	GAS IN PIPE						
Rec.	60	Feet of	GAS & OIL CUT MUD - 80%MUD/10%OIL/10%GAS						
Rec.	120	Feet of	MUD CUT OIL - 20%MUD/50%OIL/30%GAS						
Rec.	540	Feet of	SLIGHTLY MUD CUT OIL - 10%MUD/90%OIL						
Rec.	540	Feet of	CLEAN OIL						
BHT	116 °F	Gravity	38	°API @	60	°F	Corrected Gravity	26	°API
RW	@	°F Chlorides		ppm Recovery	Clorides	1000	ppm System		
(A) Initial Hydrostatic Mud	2241.6	PSI	AK1 Recorder No.	13615	Range	4575			
(B) First Initial Flow Pressure	159.9	PSI	@ (depth)	4248	w/Clock No.	14389			
(C) First Final Flow Pressure	334.4	PSI	AK1 Recorder No.	10248	Range	4400			
(D) Initial Shut-In Pressure	885.5	PSI	@ (depth)	4371	w/Clock No.	27567			
(E) Second Initial Flow Pressure	373.8	PSI	Initial Opening	15					
(F) Second Final Flow Pressure	535.5	PSI	Initial Shut-In	30					
(G) Final Shut-In Pressure	910.6	PSI	Final Flow	60					
(H) Final Hydrostatic Mud	2122.8	PSI	Final Shut-In	120					

MR ROGER SELLS

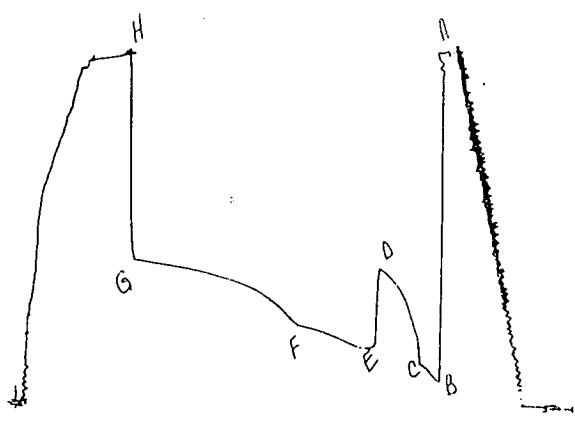
Our Representative _____

TOTAL PRICE \$ 420.00

ORIG

DST# 2 RECORDER# 13615

DST # 2
~~13615~~
13615



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	2202	2241.6	PSI
(B) First Initial Flow Pressure.....	168	159.9	PSI
(C) First Final Flow Pressure.....	337	334.4	PSI
(D) Initial Closed-In Pressure.....	895	885.5	PSI
(E) Second Initial Flow Pressure.....	382	373.8	PSI
(F) Second Final Flow Pressure.....	551	535.5	PSI
(G) Final Closed-In Pressure.....	940	910.6	PSI
(H) Final Hydrostatic Mud.....	2113	2122.8	PSI

ORIGINAL

COMPUTER EVALUATION BY TRILOBITE TESTING
PETROLEUM INC
REPORT FOR DST#2 FOR THE DICKEY "F" #1
30-16S-29W LANE KANSAS

TEST PARAMETERS

ELEVATION: 2816 KB EST. PAY: 5 FT
DATUM: -1556 ZONE TESTED: ALTAMONT
TEST INTERVAL: 4256-4374
RECORDED DEPTH: 4371 TIME INTERVALS: 15-30-60-120
BOTTOM HOLE TEMP: 116 VISCOSITY: 19.8386 CP
HOLE SIZE: 7.875 IN

CALCULATIONS

CUBIC FEET OF GAS IN PIPE: 105.388
TOTAL FEET OF RECOVERY: 1260
BARRELS IN DRILL PIPE: 8.97282
BARRELS IN WEIGHT PIPE: 4.403
GAS OIL RATIO: 7.878993 CU.FT./BBL
BUBBLE POINT PRESSURE: ; .1272668
TOTAL BARRELS OF RECOVERY: 13.37582
UNCORR. INIT. PROD.: 256.8158 BBL/DAY
API GRAVITY: 26 FLUID GRADIENT: .389
CORRECTED PIPE FILLUP: 1376.607
CORR. BARRELS OF RECOVERY: 15.02534 BBL
INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE: 288.4866 BBL/DAY
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE
112.3943

INITIAL SHUT-IN VALUES:
THEORETICAL STATIC PRESSURE 1050.984
SLOPE 939.9348

FINAL SHUT-IN VALUES
THEORETICAL STATIC PRESSURE 1055.575
SLOPE 687.6849

TRANSMISSIBILITY 68.21135 (MD.-FT./CP.)
PERMEABILITY 270.6435 (MD.)
INDICATED FLOW CAPACITY 1353.218 (MD.FT)
PRODUCTIVITY INDEX 7.707883E-02 (BARRELS/DAY/PSI)
DAMAGE RATIO .1383973
RADIUS OF INVESTIGATION 142.472 (FT.)
POTENTIOMETRIC SURFACE 892.8784 (FT.)
DRAWDOWN FACTOR -.4368186 (%)

ORIGINAL

INITIAL FLOW

RECORDER # 10248
DST #2

DT (MIN)	PRESSURE	<>	PRESSURE
0	159.9		159.9
3	184.6		24.70001
6	253.4		68.79999
9	288.2		34.80002
12	317.5		29.29999
15	334.4		16.89999

FINAL FLOW

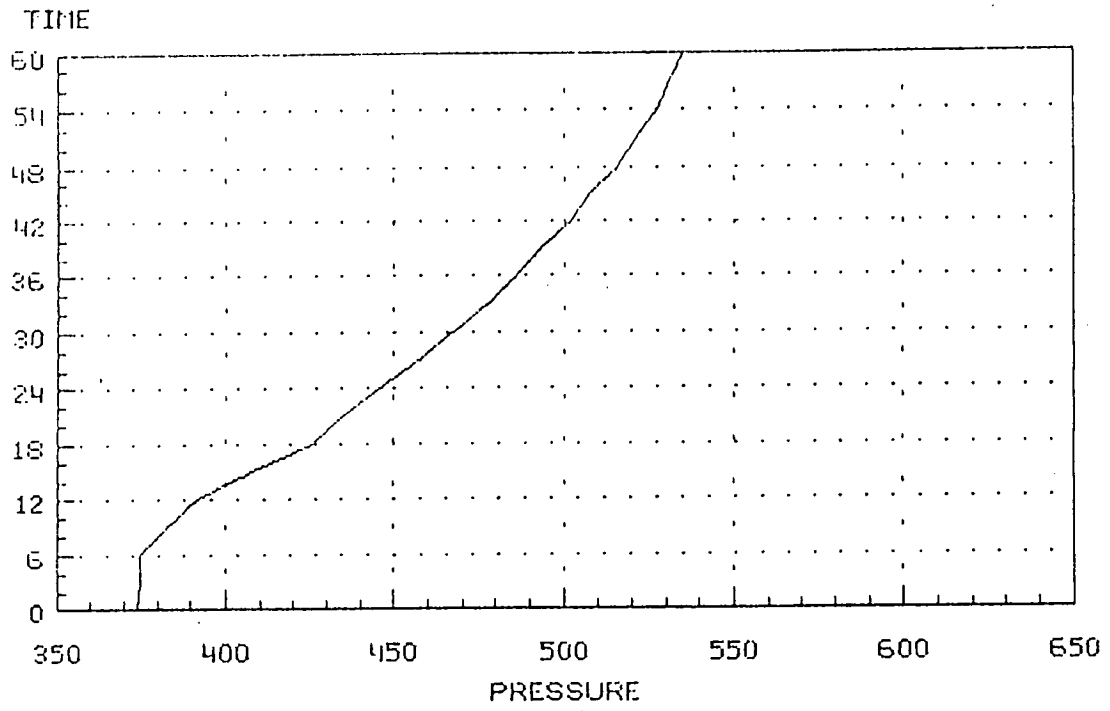
RECORDER # 10248
DST #2

DT (MIN)	PRESSURE	<>	PRESSURE
0	373.8		373.8
3	375		1.200012
6	375		0
9	382.8		7.799988
12	391.8		9
15	407.6		15.80002
18	425.6		18
21	434.6		9
24	445.9		11.29999
27	457.2		11.30002
30	467.5		10.29999
33	477.4		9.899994
36	486.4		9
39	493.2		6.800019
42	502.2		9
45	507.4		5.199982
48	515.5		8.100006
51	521.6		6.099976
54	527.6		6
57	531.1		3.5
60	535.5		4.400025

ORIGINAL

DELTA T DELTA P

DST #2 FINAL FLOW
RECORDER # 10248



INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE 112.3943 BBL/DAY

INITIAL SHUT-IN BUILDUP
DST #2

RECORDER # 10248
INITIAL FLOW TIME (MIN.): 15

MIN	LOG(T+MIN/MIN)	PRESSURE	<> PRESSURE
0	0	334.4	334.4
3	.778011	580	245.6
6	.5439701	623.3	43.29999
9	.425892	684.4	61.10004
12	.352119	725.6	41.19995
15	.3009757	767.7	42.10004
18	.263194	803.3	35.59998
21	.234041	835.5	32.20001
24	.2108154	853.3	17.79999
27	.191851	867.7	14.40003
30	.1760595	885.5	17.79999

FINAL SHUT-IN BUILDUP
DST #2

RECORDER # 10248
TOTAL FLOW TIME (MIN.): 75

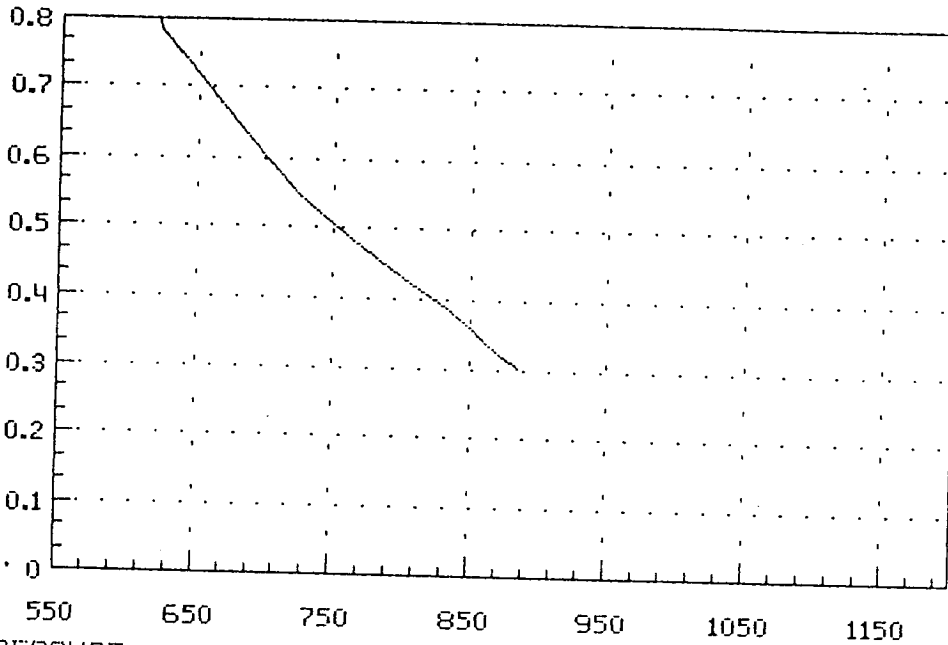
MIN	LOG(T+MIN/MIN)	PRESSURE	<> PRESSURE
0	0	535.5	535.5
6	1.13013	601.1	65.59998
12	.8601831	646.6	45.5
18	.7130819	685.5	38.90003
24	.6153131	719.6	34.09998
30	.5439701	740	20.40003
36	.4889323	761.2	21.20001
42	.4448565	783.3	22.09998
48	.4085902	794.4	11.10004
54	.3781278	810.8	16.39996
60	.352119	822.2	11.40003
66	.3296158	834.5	12.29999
72	.309929	845.5	11
78	.2925441	855.5	10
84	.2770679	865.6	10.09998
90	.263194	872.2	6.600037
96	.2506797	881.1	8.899963
102	.2393299	891.1	10
108	.2289861	897.7	6.600037
114	.2195174	904.4	6.700012
120	.2108154	910.6	6.199951

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HORNER PLOT

DST #2 INITIAL SHUTIN
RECORDER # 10248

LOG = T +(MIN/MIN)

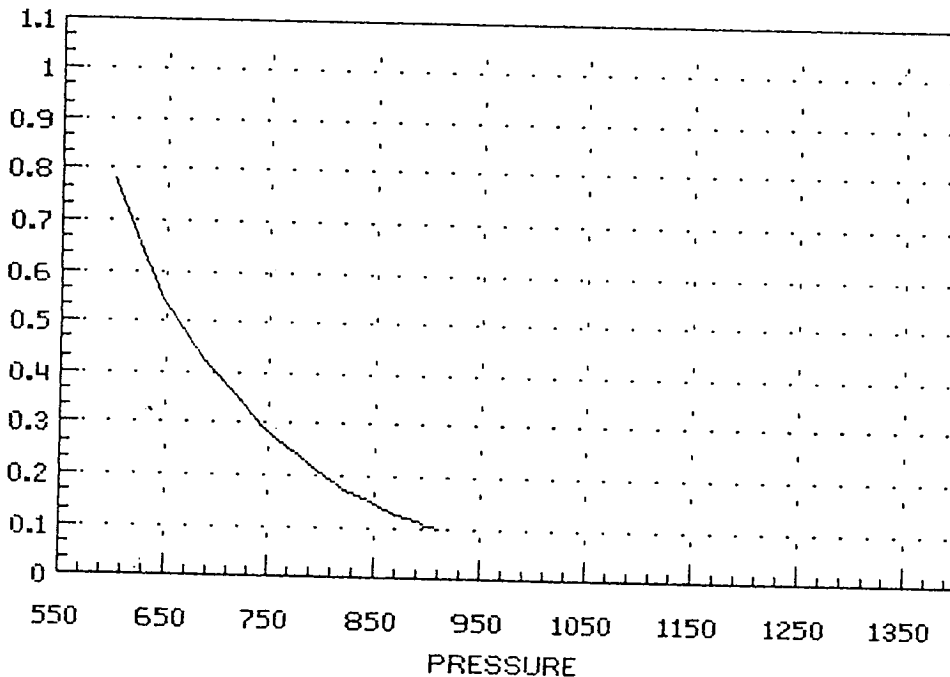


STATIC PRESSURE 1050.984
SLOPE 939.9348
POINTS USED 6

HORNER PLOT

DST #2 FINAL SHUTIN
RECORDER # 10248

LOG = T +(MIN/MIN)

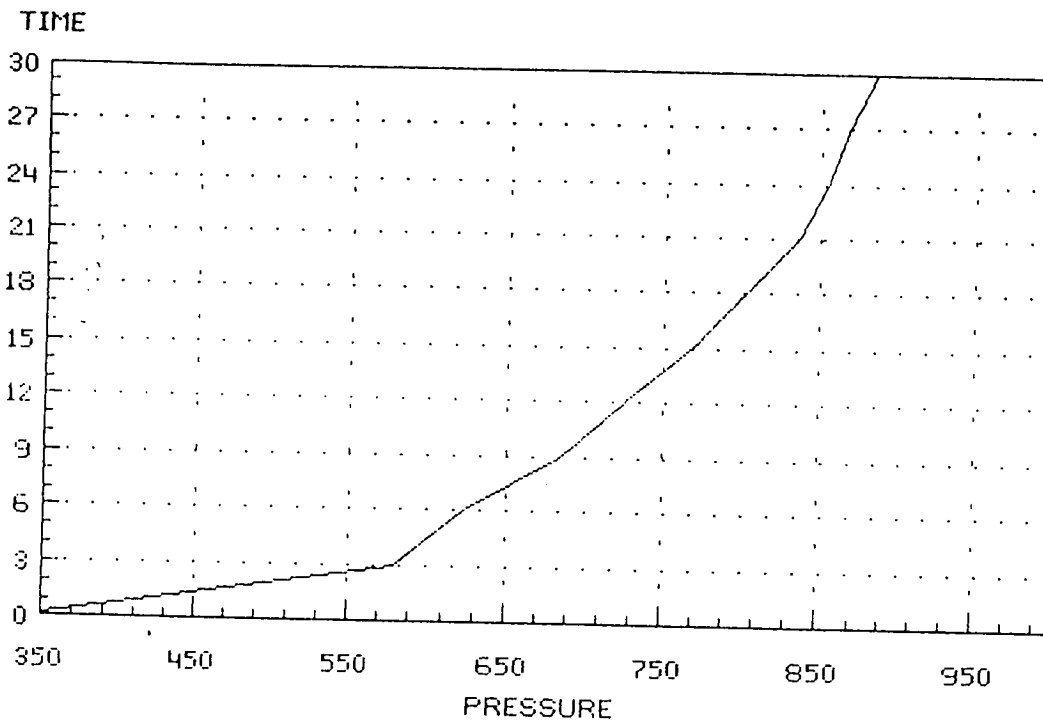


STATIC PRESSURE 1055.575
SLOPE 687.6849
POINTS USED 7

DELTA T DELTA P

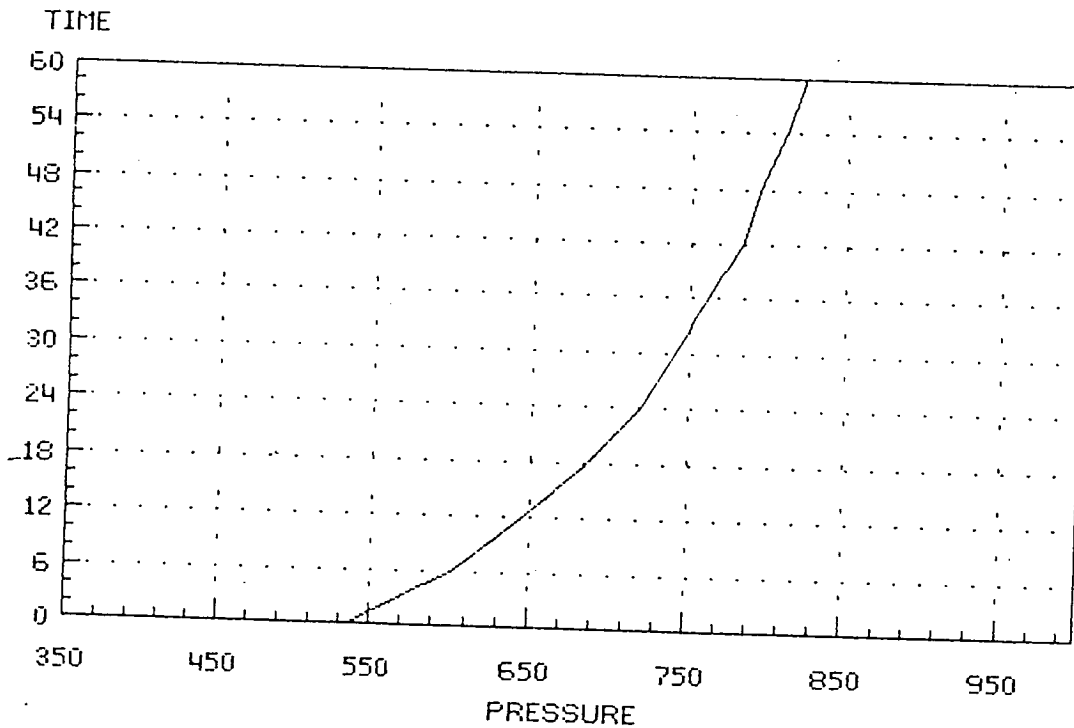
DST #2 INITIAL SHUTIN
RECORDER # 10248

ORIGINAL



DELTA T DELTA P

DST #2 FINAL SHUTIN
RECORDER # 10248



TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

ORIGINAL

No 2447

Well Name & No. Dickey "F" #1 Test No. 2 Date 2-4-90
 Company Pet. Inc. Zone Tested Altament
 Address 900 Epic Center 301 N. Main Elevation 2816' KB
 Co. Rep. / Geo. Tyler Sanders Cont. Wichita, Ks. Abecrombie Est. Ft. of Pay 5'
 Location: Sec. 30 Twp. 16 Rge. 29 Co. LANE State Ks
 No. of Copies Normal Distribution Sheet Yes No Turnkey Yes No

Interval Tested 4256 - 4374 Drill Pipe Size 4 1/2 XH
 Anchor Length 108 Top Choke - 1" Bottom Choke - 3/4"
 Top Packer Depth 4250 Hole Size - 7 7/8" Rubber Size - 6 3/4"
 Bottom Packer Depth 4255 Wt. Pipe I.D. - 2.7 Ft. Run 629'
 Total Depth 4374 Drill Collar - 2.25 Ft. Run _____
 Mud Wt. 9.4 lb/gal. Viscosity 50 Filtrate 10.4

at 2:59 PM Initial Blow Strong blow off bottom of bucket in 2 min.
opened 2" valve & bled off for 5 min. blow back to bottom of bucket by 2nd opening.
 Final Blow strong blow off bottom of bucket immediately - opened 2" valve @ shu
and bled for 5 min. closed & got good blow back immediately

Recovery - Total Feet 1260 Total Feet Gas 1320 Flush Tool? _____
 Rec. 60 Feet of Gas & Oil cut mud 80% mud, 10% oil, 10% gas
 Rec. 120 Feet of mud cut oil 20% mud, 50% oil, 30% gas
 Rec. 540 Feet of Slight mud cut oil 10% mud, 90% oil
 Rec. 540 Feet of Clean Oil
 Rec. _____ Feet of _____

BHT 116 °F Gravity 38 °API @ 60 °F Corrected Gravity 26 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 2202 PSI AK1 Recorder No. 13615 Range 4575
 (B) First Initial Flow Pressure 168 PSI @ (depth) 4248 w/Clock No. 14389
 (C) First Final Flow Pressure 337 PSI AK1 Recorder No. 10248 Range 4400
 (D) Initial Shut-In Pressure 895 PSI @ (depth) 4371 w/Clock No. 27567
 (E) Second Initial Flow Pressure 382 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 551 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 940 PSI Initial Opening 15 Test _____
 (H) Final Hydrostatic Mud 2113 PSI Initial Shut-In 30 Jars
 Final Flow 60 Safety Joint
 Final Shut-In 120 Straddle _____

Approved By Tyler H. Sanders Circ. Sub 20.00
 Our Representative Roger J. Sells Sampler _____
 Printcraft Printers - Hays, KS Extra Packer _____
 Other _____
 TOTAL PRICE \$ _____

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No.	DICKEY "F" #1	Test No.	3	Date	2/5/90
Company	PETROLEUM INC	Zone Tested	MYRICK		
Address	900 EPIC CNTR-301 MAIN-WICHITA KS	Elevation	2816 KB		
Co. Rep./Geo.	MR TYLER SANDER	cont.	ABERCROMBIE RIG #8	Est. Ft. of Pay	3
Location: Sec.	30	Twp.	16S	Rge.	29W
		Co.	LANE	State	KANSAS

Interval Tested	4391-4426	Drill Pipe Size	4.5" XH
Anchor Length	35	Top Choke - 1"	
Top Packer Depth	4385	Bottom Choke - 3/4"	
Bottom Packer Depth	4390	Hole Size - 7 7/8"	
Total Depth	4426	Rubber Size - 6 3/4"	
Wt. Pipe I.D. - 2.7		Ft. Run	629
Drill Collar - 2.25		Ft. Run	0
Mud Wt.	9.4	Viscosity	59
	lb./gal.	Filtrate	8.0

Tool Open @ 10:53 AM Initial Blow STRONG BLOW TO BOTTOM OF BUCKET IN 5 MIN -
FSI: WEAK BLOW BACK-IN 7 MIN BUILT TO 1/2" AND LEVELED OFF

Final Blow FAIR BLOW TO STRONG BLOW-OFF BOTTOM OF BUCKET IN 9 MIN -
FSI: BLOW BACK IN 4 MIN-DIED AFTER 1 HOUR

Recovery - Total Feet	940	Flush Tool?	NO
Rec. 60	Feet of SLIGHTLY OIL CUT MUD		
Rec. 90	Feet of SLIGHTLY OIL CUT MUDDY WATER		
Rec. 300	Feet of GASSY MUDDY WATER WITH SLIGHT OIL		
Rec. 490	Feet of SALT WATER		
Rec. 0	Feet of		

BHT	130	°F	Gravity	0	°API @	0	°F	Corrected Gravity	0	°API	
RW		@	°F	Chlorides	40000	ppm	Recovery	Clorides	1000	ppm	System

(A) Initial Hydrostatic Mud	2186.3	PSI	AK1 Recorder No.	13615	Range	4575
(B) First Initial Flow Pressure	102.1	PSI	@(depth)	4374	W/Clock No.	14389
(C) First Final Flow Pressure	139.6	PSI	AK1 Recorder No.	10248	Range	4400
(D) Initial Shut-In Pressure	599.7	PSI	@(depth)	4423	W/Clock No.	27567
(E) Second Initial Flow Pressure	263.5	PSI	Initial Opening	15		
(F) Second Final Flow Pressure	439.8	PSI	Initial Shut-In	30		
(G) Final Shut-In Pressure	599.7	PSI	Final Flow	60		
(H) Final Hydrostatic Mud	2046.8	PSI	Final Shut-In	120		

Our Representative MR ROGER F SELLS

TOTAL PRICE \$ 400

Printcraft Printers - Hays, KS

DST# 3 RECORDER# 10248

DST# 3
10248

ORIGINAL



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	2168	2186.3	PSI
(B) First Initial Flow Pressure.....	101	102.1	PSI
(C) First Final Flow Pressure.....	132	139.6	PSI
(D) Initial Closed-In Pressure.....	595	599.7	PSI
(E) Second Initial Flow Pressure.....	236	263.5	PSI
(F) Second Final Flow Pressure.....	427	439.8	PSI
(G) Final Closed-In Pressure.....	595	599.7	PSI
(H) Final Hydrostatic Mud.....	2035	2046.8	PSI

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

No 2448

Well Name & No. Dickey "F" #1 Test No. 3 Date 2-5-90
 Company Pet. Inc. Zone Tested Myrick Sta.
 Address 900 Epic Center 301 N. Main Wichita, KS Elevation 2816 KB
 Co. Rep. / Geo. Tyler Sander Cont. Abercrombie Rig #8 Est. Ft. of Pay 3'
 Location: Sec. 30 Twp. 16 Rge. 29 Co. LANE State KS
 No. of Copies Normal Distribution Sheet Yes X No Turnkey Yes No

Interval Tested 4391' - 4426' Drill Pipe Size 4 1/2 XH
 Anchor Length 35' Top Choke - 1" Bottom Choke - 3/4"
 Top Packer Depth 4385 Hole Size - 7 7/8" Rubber Size - 6 3/4"
 Bottom Packer Depth 4390 Wt. Pipe I.D. - 2.7 Ft. Run 629'
 Total Depth 4426 Drill Collar - 2.25 Ft. Run
 Mud Wt. 9.4 lb/gal. Viscosity 59 Filtrate 8.0

Tool Open @ 10:53 AM Initial Blow Very strong blow to bottom of bucket in 5 min.
very weak blow back on shut in - in 7 min. built to 1/2" and leveled off

Final Blow fair blow @ opening building to very strong blow - off bottom
of bucket in 9 min. blow (weak) in 4 min. after final shut-in.
Blow back on shut-in died after 1 hr.
 Recovery - Total Feet 940 Flush Tool?

Rec. 60 Feet of very slight oil cut mud 10% Oil
 Rec. 90 Feet of very slight oil cut muddy wtr.
 Rec. 300 Feet of gassy muddy water w/ slight oil
 Rec. 490 Feet of salt water
 Rec. _____ Feet of _____

BHT 130 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides 40,000 ppm Recovery Chlorides 1,000 ppm System

(A) Initial Hydrostatic Mud 2168 PSI AK1 Recorder No. 13615 Range 4575
 (B) First Initial Flow Pressure 101 PSI @ (depth) 4374 w/Clock No. 14389
 (C) First Final Flow Pressure 132 PSI AK1 Recorder No. 10248 Range 4400
 (D) Initial Shut-In Pressure 595 PSI @ (depth) 4423 w/Clock No. 27567
 (E) Second Initial Flow Pressure 236 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 427 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 595 PSI Initial Opening 15 Test _____
 (H) Final Hydrostatic Mud 2035 PSI Initial Shut-In 30 Jars X
 Final Flow 60 Safety Joint X
 Final Shut-In 120 Straddle _____

Approved By Tyler H. Sander

Our Representative Roger F. Sells

Circ. Sub X
 Sampler _____
 Extra Packer _____
 Other _____
 TOTAL PRICE \$ _____

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Drill-Stem Test Data

Well Name & No.	DICKEY "E" #1	Test No.	4	Date	2/6/90
Company	PETROLEUM INC	Zone Tested	ET SCOTT		
Address	900 EPIC CENTER WICHITA KS 67202	Elevation	2816 KB		
Co. Rep./Geo.	MR TYLER SANDER	Cont.	ABERCROMBIE DRUG	Est. Ft. of Pay	3
Location: Sec.	30	Twp.	16S	Rge.	29W
			CO. LANE	State	KANSAS

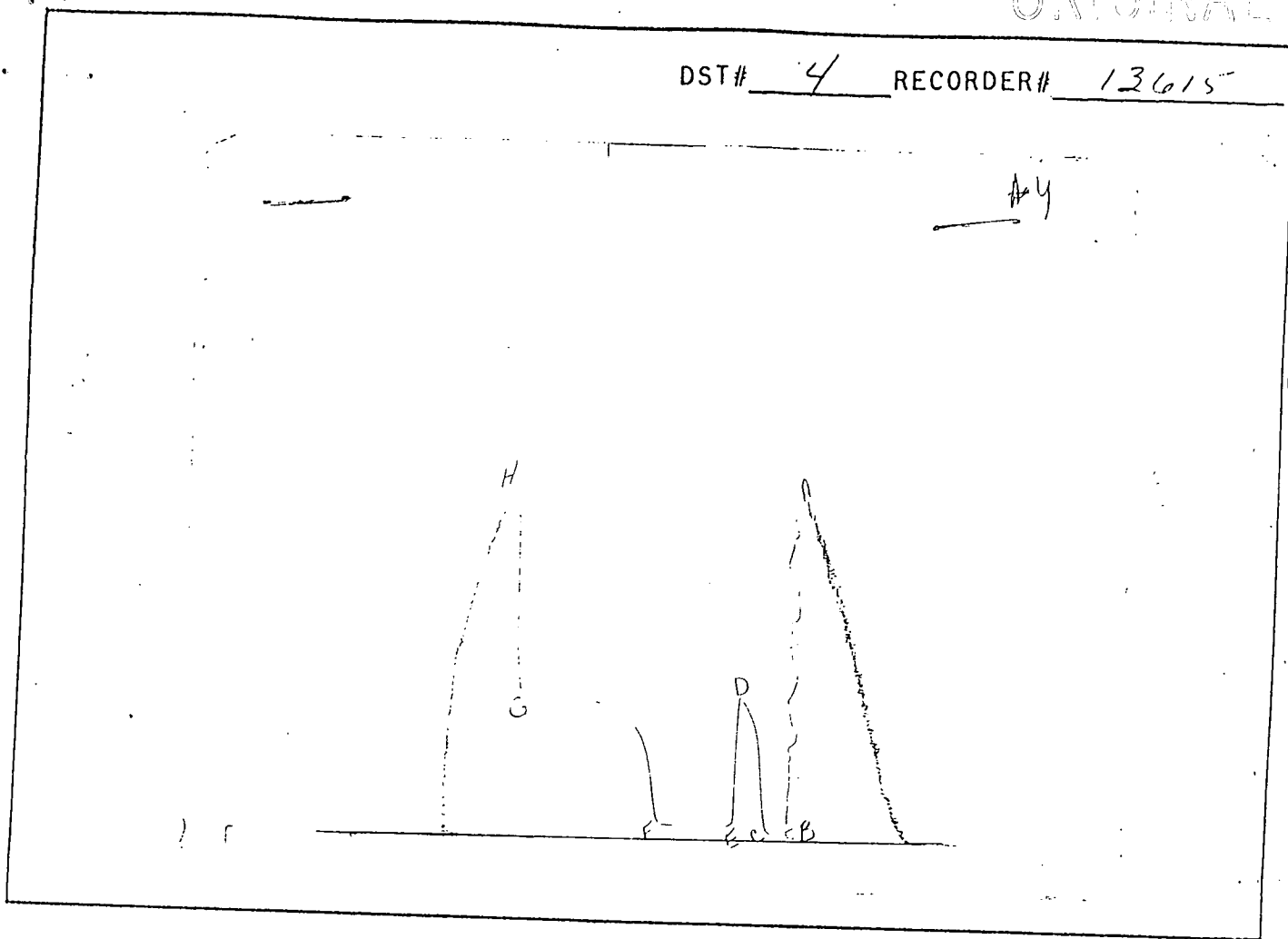
Interval Tested	4435-4460	Drill Pipe Size	4.5" XH						
Anchor Length	25	Top Choke - 1"							
Top Packer Depth	4427	Bottom Choke - 3/4"							
Bottom Packer Depth	4432	Hole Size - 7 7/8"							
Total Depth	4460	Rubber Size - 6 3/4"							
Wt. Pipe I.D. - 2.7		Ft. Run	629						
Drill Collar - 2.25		Ft. Run	0						
Mud Wt.	9.4	Viscosity	61						
	lb./gal.	Filtrate	8.0						
Tool Open @	4:10 AM	Initial Blow	FAIR TO GOOD FLOW BUILDING TO 6" - ISI: VERY WEAK BLOW BACK ON SHUTIN-DYING IN 2 MINUTES						
Final Blow	FAIR TO GOOD FLOW IMMEDIATELY-BUILDING TO BOTTOM OF BUCKET IN 30 MIN-VERY WEAK BLOW BACK ON SHUTIN-DIED IN 30 MINUTES								
Recovery - Total Feet	180	Flush Tool?	NO						
Rec.	240	Feet of	GAS IN PIPE						
Rec.	60	Feet of	MUD CUT OIL-10%GAS/50%OIL/40%MUD						
Rec.	60	Feet of	HEAVY OIL CUT MUD-20%GAS/20%OIL/60%MUD						
Rec.	60	Feet of	OIL & WTR CUT MUD-8%GAS/12%OIL/30%WATER/50%MUD						
Rec.	0	Feet of							
BHT	128	°F	Gravity	°API @	0	°F	Corrected Gravity	37	°API
RW	@	°F	Chlorides	ppm Recovery	Clorides	1000	ppm System		
(A) Initial Hydrostatic Mud	2117.8	PSI	AK1 Recorder No.	13615	Range	4575			
(B) First Initial Flow Pressure	47.3	PSI	@(depth)	4437	w/Clock No.	14389			
(C) First Final Flow Pressure	60.8	PSI	AK1 Recorder No.	10248	Range	4400			
(D) Initial Shut-In Pressure	978.1	PSI	@(depth)	4457	w/Clock No.	25767			
(E) Second Initial Flow Pressure	81.1	PSI	Initial Opening	15					
(F) Second Final Flow Pressure	114.8	PSI	Initial Shut-in	30					
(G) Final Shut-In Pressure	984.4	PSI	Final Flow	60					
(H) Final Hydrostatic Mud	2126.7	PSI	Final Shut-In	120					

Our Representative MR ROGER SELLS

TOTAL PRICE..... \$ 400

Printcraft Printers - Hays, KS

DST# 4 RECORDER# 13615



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	2117	2117.8	PSI
(B) First Initial Flow Pressure.....	45	47.3	PSI
(C) First Final Flow Pressure.....	56	60.8	PSI
(D) Initial Closed-In Pressure.....	973	978.1	PSI
(E) Second Initial Flow Pressure.....	56	81.1	PSI
(F) Second Final Flow Pressure.....	112	114.8	PSI
(G) Final Closed-In Pressure.....	984	984.4	PSI
(H) Final Hydrostatic Mud.....	2114	2126.7	PSI

COMPUTER EVALUATION BY TRILOBITE TESTING
 PETROLEUM INC
 REPORT FOR DST#4 FOR THE DICKEY "F" #1
 30-16S-29W LANE KS

ORIGINAL

 TEST PARAMETERS

ELEVATION:	2816 KB	EST. PAY:	3 FT
DATUM:	-1642	ZONE TESTED:	FORT SCOTT
TEST INTERVAL:	4435-4460		
RECORDER DEPTH:	4457	TIME INTERVALS:	15-30-60-120
BOTTOM HOLE TEMP:	128	VISCOSITY:	5.455314 CP
		HOLE SIZE:	7.875 IN

 CALCULATIONS

CUBIC FEET OF GAS IN PIPE:	9.365011		
TOTAL FEET OF RECOVERY:	180		
BARRELS IN WEIGHT PIPE:	1.26		
GAS OIL RATIO:	7.432549 CU.FT./BBL		
BUBBLE POINT PRESSURE:	; .6831208		
TOTAL BARRELS OF RECOVERY:	1.26	UNCORR. INIT. PROD.:	24.192 BBL/DAY
API GRAVITY:	37	FLUID GRADIENT:	.364
CORRECTED PIPE FILLUP:	315.3847	CORR. BARRELS OF RECOVERY:	2.207693 BBL
INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE:	42.3877 BBL/DAY		
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE	15.57692		

INITIAL SHUT-IN VALUES:
 THEORETICAL STATIC PRESSURE 1250.172
 SLOPE 1545.341

FINAL SHUT-IN VALUES
 THEORETICAL STATIC PRESSURE 1106.502
 SLOPE 579.1893

TRANSMISSIBILITY	11.89981 (MD.-FT./CP.)
PERMEABILITY	21.63906 (MD.)
INDICATED FLOW CAPACITY	64.91717 (MD.FT)
PRODUCTIVITY INDEX	1.344678E-02 (BARRELS/DAY/PSI)
DAMAGE RATIO	.3133371
RADIUS OF INVESTIGATION	40.2856 (FT.)
POTENTIOMETRIC SURFACE	924.978 (FT.)
DRAWDOWN FACTOR	11.49202 (%)

ORIGINAL

INITIAL FLOW

RECORDER # 10248
DST #4

DT(MIN)	PRESSURE	<>	PRESSURE
0	47.3		47.3
3	47.6		.2999992
6	49.5		1.900002
9	54.1		4.599999
12	56.3		2.200001
15	56.6		.2999992
18	60.8		4.200001

FINAL FLOW

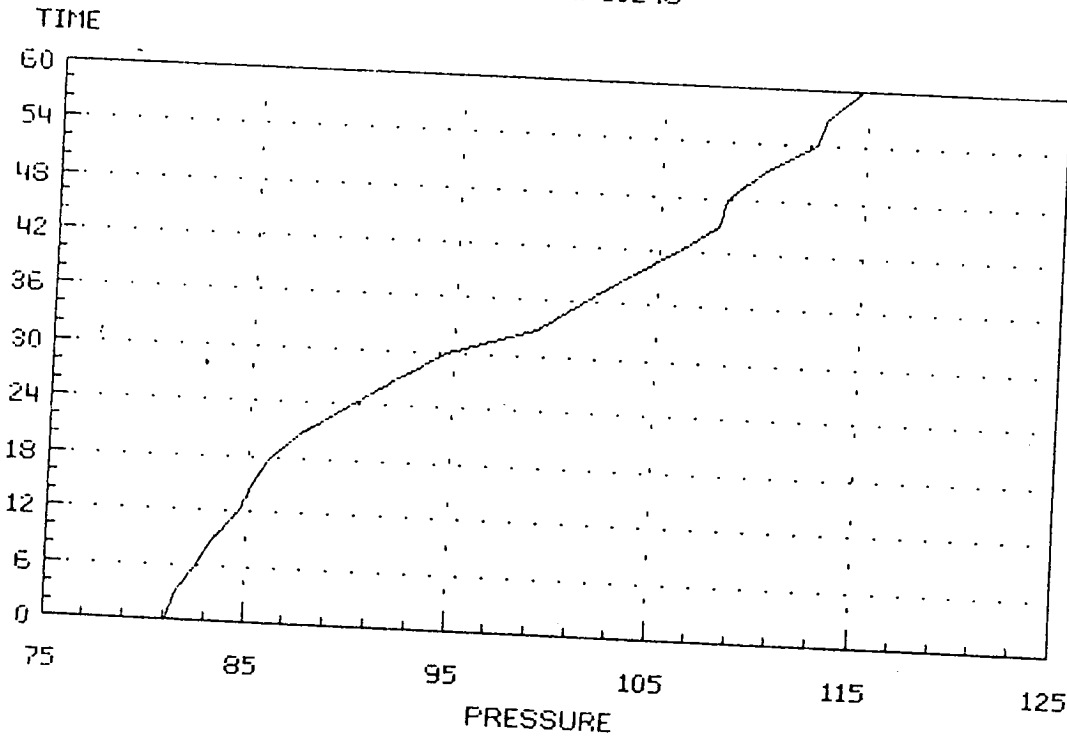
RECORDER # 10248
DST #4

DT(MIN)	PRESSURE	<>	PRESSURE
0	81.1		81.1
3	81.1		0
6	81.1		0
9	83.3		2.200005
12	85.6		2.299996
15	85.6		0
18	85.6		0
21	87.8		2.200005
24	90.1		2.299996
27	92.3		2.200005
30	94.6		2.299996
33	99.1		4.5
36	101.4		2.300003
39	103.6		2.199997
42	105.9		2.300003
45	108.1		2.199997
48	108.1		0
51	108.1		0
54	112.6		4.5
57	112.6		0
60	114.8		2.200005

ORIGINAL

DELTA T DELTA P

DST #4 FINAL FLOW
RECORDER # 10248



INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE 15.57692 BBL/DAY

INITIAL SHUT-IN BUILDUP
DST #4

ORIGINAL

RECORDER # 10248
INITIAL FLOW TIME (MIN.): 15

MIN	LOG(T+MIN/MIN)	PRESSURE	<> PRESSURE
0	0	60.8	60.8
3	.778011	81.1	20.3
6	.5439701	153.2	72.1
9	.425892	340.1	186.9
12	.352119	708.9	368.8
15	.3009757	808.9	100
18	.263194	868.9	60
21	.234041	902.2	33.29999
24	.2108154	934.6	32.39996
27	.191851	957.8	23.20001
30	.1760595	978.1	20.29999

FINAL SHUT-IN BUILDUP
DST #4

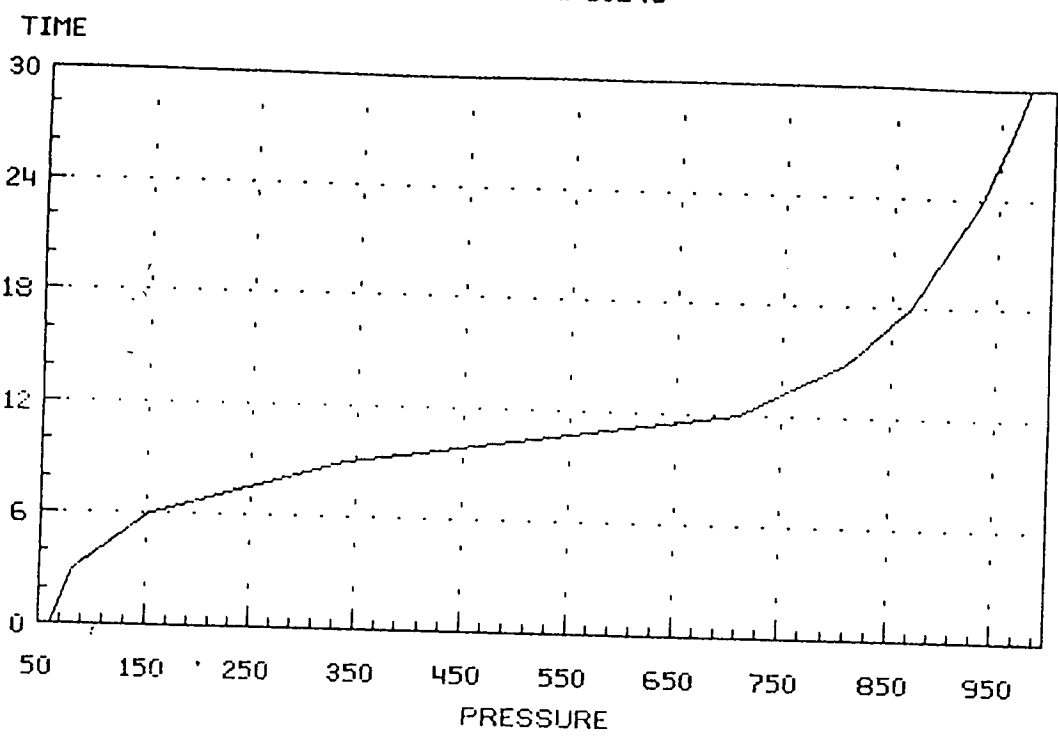
RECORDER # 10248
TOTAL FLOW TIME (MIN.): 75

MIN	LOG(T+MIN/MIN)	PRESSURE	<> PRESSURE
0	0	114.8	114.8
6	1.13013	198.2	83.4
12	.8601831	500	301.8
18	.7130819	695.6	195.6
24	.6153131	771.1	75.5
30	.5439701	811.1	40
36	.4889323	844.4	33.30005
42	.4448565	866.7	22.29999
48	.4085902	886.7	20
54	.3781278	900	13.29999
60	.352119	911.1	11.09998
66	.3296158	922.2	11.10004
72	.309929	935.6	13.39996
78	.2925441	942.2	6.600037
84	.2770679	948.9	6.700012
90	.263194	960	11.09998
96	.2506797	962.2	2.200012
102	.2393299	964.4	2.200012
108	.2289861	966.7	2.299988
114	.2195174	973.3	6.599976
120	.2108154	984.4	11.10004

DELTA T DELTA P

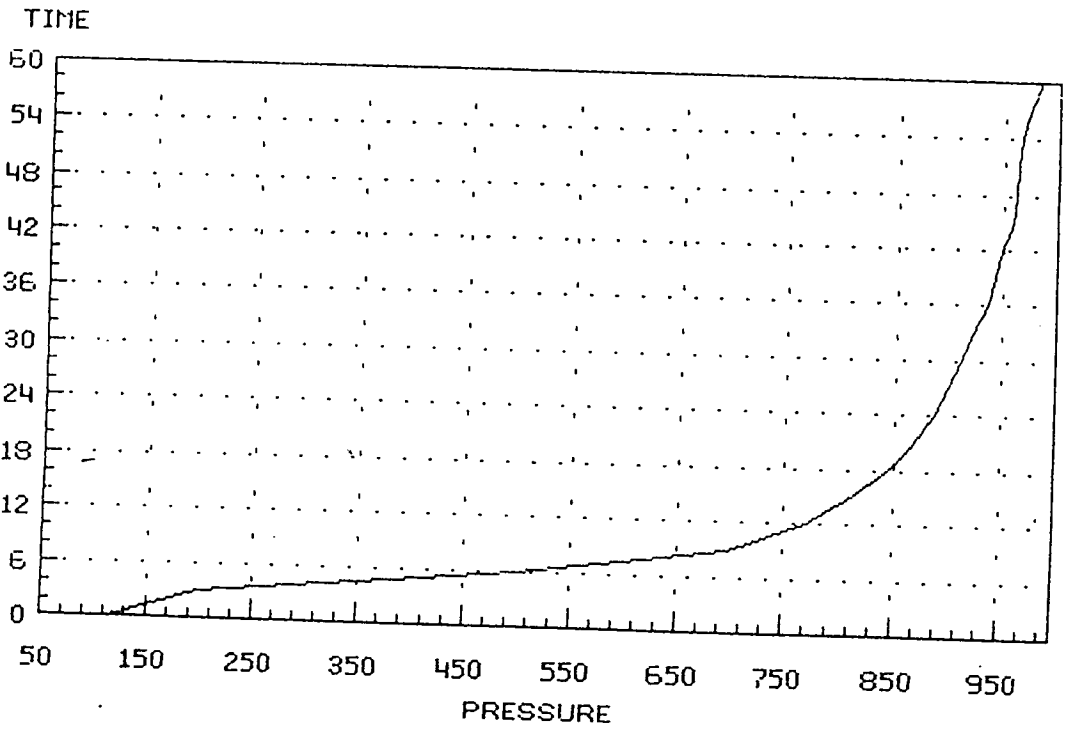
DST #4 INITIAL SHUTIN
RECORDER # 10248

ORIGINAL



DELTA T DELTA P

DST #4 FINAL SHUTIN
RECORDER # 10248

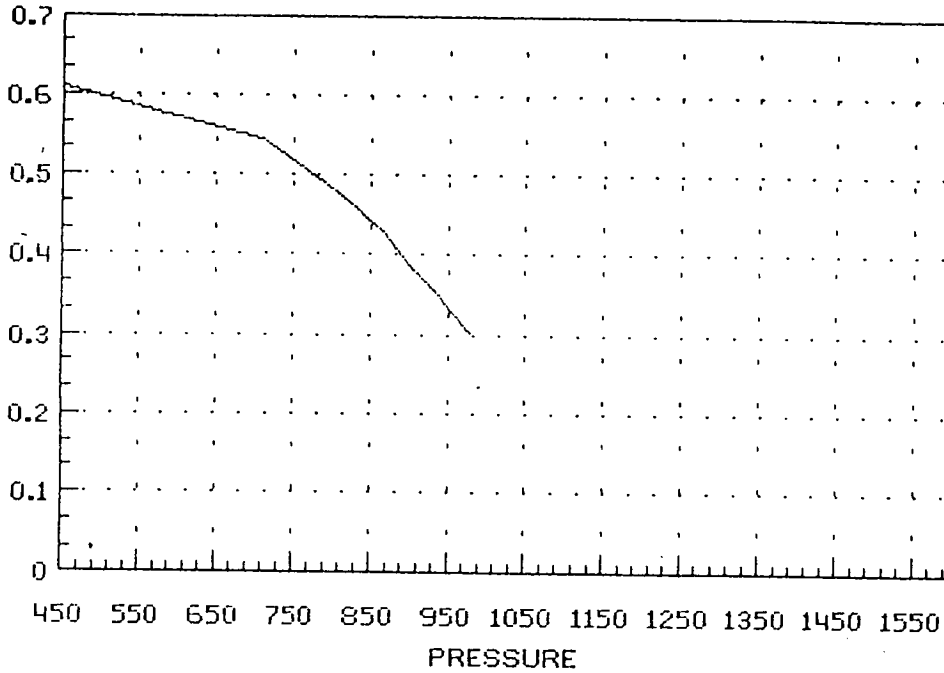


HORNER PLOT

DST #4 INITIAL SHUTIN
RECORDER # 10248

ORIGINAL

LOG = T + (MIN/MIN)

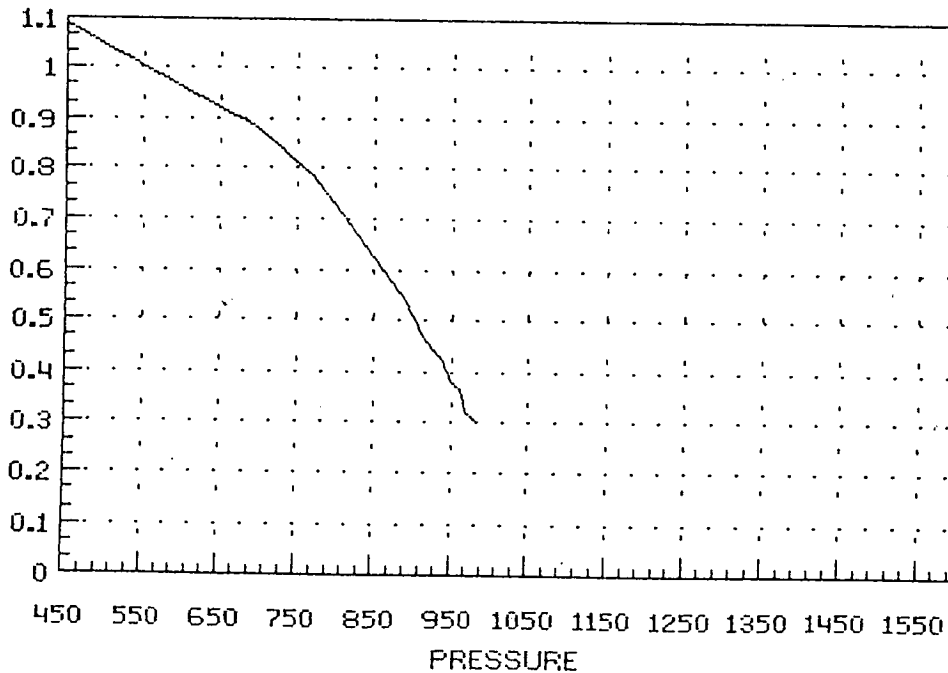


STATIC PRESSURE 1250.172
SLOPE 1545.341
POINTS USED 11

HORNER PLOT

DST #4 FINAL SHUTIN
RECORDER # 10248

LOG = T + (MIN/MIN)



STATIC PRESSURE 1106.502
SLOPE 579.1893
POINTS USED 21

KILOBYTE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

ORIGINAL

No. 2449

Well Name & No. Dickey "F" #1 Test No. 4 Date 2-6-90
 Company Pet. Inc. Zone Tested Ft. Scott
 Address 900 Epic Center 301 N. Main Wichita, Ks. Elevation 2816 X'B
 Co. Rep. / Geo. Tyler Sander Cont. Abercrombie Drlg Est. Ft. of Pay 3'
 Location: Sec. 30 Twp. 16 Rge. 29 Co. Lane State Ks.
 No. of Copies Normal Distribution Sheet Yes No Turnkey Yes No

Interval Tested 4435' - 4460' Drill Pipe Size 4 1/2 XH
 Anchor Length 25' Top Choke - 1" Bottom Choke - 1/4"
 Top Packer Depth 4427' Hole Size - 7 7/8" Rubber Size - 6 3/4"
 Bottom Packer Depth 4432' Wt. Pipe I.D. - 2.7 Ft. Run 629'
 Total Depth 4460' Drill Collar - 2.25 Ft. Run -
 Mud Wt. 9.4 lb/gal. Viscosity 60 Filtrate 8.0

Tool Open @ 4:10 AM Initial Blow fair to good blow building to 6" in 30 min. very weak blow back on shut-in dying in 2 min.
 Final Blow fair to good blow immediately building to bottom of bucket in 30 min. very weak blow back on shut-in @ surface - died in 30 min.

Recovery - Total Feet 180 Has 240' Flush Tool? -
 Rec. 60 Feet of Mud Cut Oil 10% Has - 50% Oil - 40% Mud
 Rec. 60 Feet of Hvy. Oil Cut Mud 20% Has - 20% Oil - 60% Mud
 Rec. 60 Feet of Oil & Wt. Cut 8% Has - 12% Oil - 30% Water 50% Mud
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

BHT 128 °F Gravity _____ °API @ _____ °F Corrected Gravity 37 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 2117 PSI AK1 Recorder No. 131615 Range 4575
 (B) First Initial Flow Pressure 45 PSI @ (depth) 4437 W/Clock No. 14389
 (C) First Final Flow Pressure 56 PSI AK1 Recorder No. 10248 Range 4400
 (D) Initial Shut-In Pressure 973 PSI @ (depth) 4457 W/Clock No. 27567
 (E) Second Initial Flow Pressure 56 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 112 PSI @ (depth) _____ W/Clock No. _____
 (G) Final Shut-In Pressure 984 PSI Initial Opening 15 Test _____
 (H) Final Hydrostatic Mud 2114 PSI Initial Shut-In 30 Jars X
 Final Flow 60 Safety Joint X
 Final Shut-In 120 Straddle _____

Approved By Tyler H. Sander
 Our Representative Roger L. Sell

Circ. Sub X
 Sampler _____
 Extra Packer _____
 Other _____
 TOTAL PRICE \$ _____

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Drill-Stem Test Data

Well Name & No.	DICKEY "F" #1	Test No.	5	Date	2/6/90				
Company	PETROLEUM INC	Zone Tested	CHEROKEE LIME						
Address	900 EPIC CNTR-301 MAIN-WICHITA KS		Elevation	2816 KB					
Co. Rep./Geo.	MR TYLER SANDER	Cont.	ABERCROMBIE RIG #8	Est. Ft. of Pay	0				
Location: Sec.	30	Twp.	16S	Rge.	29W	Co.	LANE	State	KANSAS

Interval Tested	445-4485	Drill Pipe Size	4.5" XH			
Anchor Length	31	Top Choke - 1"				
Top Packer Depth	4448	Bottom Choke - 3/4"				
Bottom Packer Depth	4453	Hole Size - 7 7/8"				
Total Depth	4485	Rubber Size - 6 3/4"				
Wt. Pipe I.D. - 2.7		Ft. Run	629			
Drill Collar - 2.25		Ft. Run	0			
Mud Wt.	9.4	lb./gal.	Viscosity	61	Filtrate	9.6

Tool Open @ 7:30 PM Initial Blow WEAK BLOW ON OPENING AFTER 2 MIN-BLOW AT SURFACE-BLOW DIED IN 8 MINUTES

Final Blow NO BLOW-FLUSHED TOL-NO HELP-NO BLOW-OUT OF HOLE WITH TOOL

Recovery - Total Feet 10 Flush Tool? YES

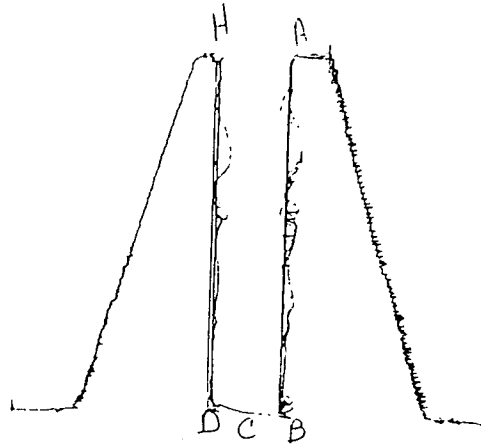
Rec.	10	Feet of	OIL SPECKED MUD
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	

BHT	125	°F	Gravty		°API @	0	°F	Corrected Gravty	0	°API	
RW		@	°F	Chlorides		ppm	Recovery	Clorides	2000	ppm	System
(A)	Initial Hydrostatic Mud	2232.1	PSI	AK1 Recorder No.	13615	Range	4575				
(B)	First Initial Flow Pressure	35.6	PSI	@ (depth)	4456	w/Clock No.	14389				
(C)	First Final Flow Pressure	48.7	PSI	AK1 Recorder No.	10248	Range	4400				
(D)	Initial Shut-In Pressure	98.7	PSI	@ (depth)	4482	w/Clock No.	27567				
(E)	Second Initial Flow Pressure	0	PSI	Initial Opening	15						
(F)	Second Final Flow Pressure	0	PSI	Initial Shut-In	30						
(G)	Final Shut-In Pressure	0	PSI	Final Flow	10						
(H)	Final Hydrostatic Mud	2199.8	PSI	Final Shut-In	0						

Our Representative MR ROGER SELLS TOTAL PRICE \$ 400

DST# 5 RECORDER# 1-3615

ORIGINAL



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	2228	2232.1	PSI
(B) First Initial Flow Pressure.....	33	35.6	PSI
(C) First Final Flow Pressure.....	45	48.7	PSI
(D) Initial Closed-In Pressure.....	90	98.7	PSI
(E) Second Initial Flow Pressure.....	0	0	PSI
(F) Second Final Flow Pressure.....	0	0	PSI
(G) Final Closed-In Pressure.....	0	0	PSI
(H) Final Hydrostatic Mud.....	2191	2199.8	PSI

TRILOBITE TESTING COMPANY

P.O. BOX 362 • Hays, Kansas 67601

TEST TICKET

ORIGINAL

N^o 2450

Well Name & No. Dickey "F" #1 Test No. 5 Date 2-6-90
 Company Pet. Inc. Zone Tested Cherokee Lime
 Address 900 Epic Center 301 N. Main Wichita, Ks. Elevation 2816 KB
 Co. Rep./Geo. Tyler Sanders cont. Abercrombie Drng. Est. Ft. of Pay _____
 Location: Sec. 30 Twp. 16 Rge. 29 Co. LANE State Ks.
 No. of Copies Normal Distribution Sheet _____ Yes No _____ Turnkey _____ Yes _____ No _____

Interval Tested 4454'-4485'
 Anchor Length 31'
 Top Packer Depth 4448
 Bottom Packer Depth 4453
 Total Depth 4485
 Mud Wt. 9.4 lb/gal.

Drill Pipe Size 4 1/2 XH
 Top Choke - 1" _____ Bottom Choke - 3/4" _____
 Hole Size - 7 7/8" _____ Rubber Size - 6 3/4" _____
 Wt. Pipe I.D. - 2.7 Ft. Run 629'
 Drill Collar - 2.25 Ft. Run _____
 Viscosity 61 Filtrate 9.6

Tool Open @ 7:30 PM Initial Blow very, very weak blow on opening after 2 min.
blow at surface. Blow died in 8 min.

Final Blow no blow on opening - flushed tool after 5 mins.
no help - no blow. out of the hole w/ tool.

Recovery - Total Feet 10' Flush Tool? no help

Rec. 10 Feet of oil speck mud
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

BHT 126 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2,000 ppm System

(A) Initial Hydrostatic Mud 2228 PSI AK1 Recorder No. 13615 Range 4575

(B) First Initial Flow Pressure 33 PSI @ (depth) 4456 W/Clock No. 14389

(C) First Final Flow Pressure 45 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-In Pressure 90 PSI @ (depth) 4482 W/Clock No. 27567

(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 2191 PSI Initial Shut-In 30 Jars X

Final Flow 10 Safety Joint X
 Final Shut-In _____ Straddle _____

Approved By Tyler A. Sanders
 Our Representative Roger F. Selko

Circ. Sub X
 Sampler _____
 Extra Packer _____
 Other _____
 TOTAL PRICE \$ _____

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Drill-Stem Test Data

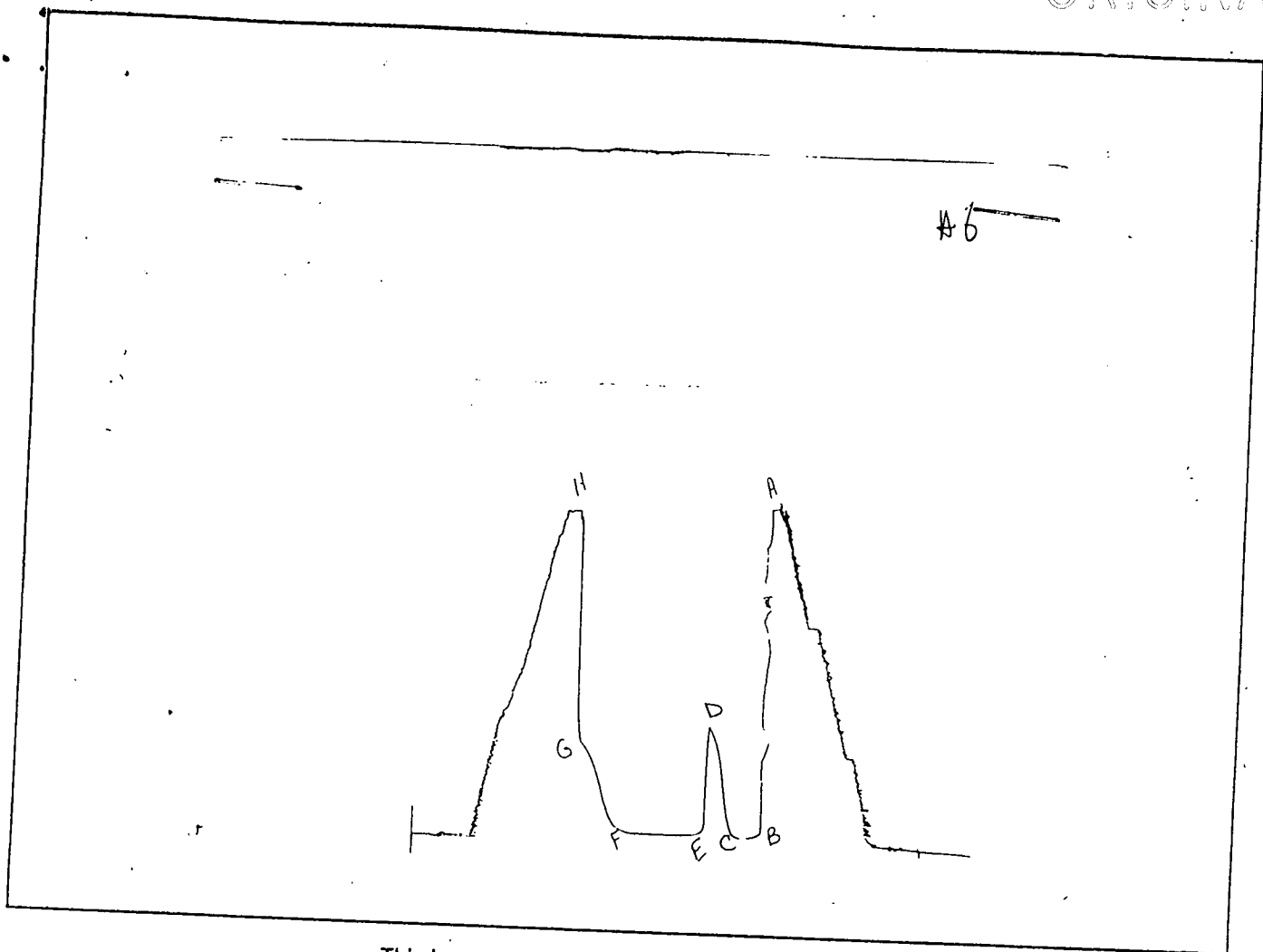
Well Name & No. DICKEY "E" #1 Test No. 6 Date 2/7/90
Company PETROLEUM INC Zone Tested JOHNSON
Address 900 EPIC CNTR-301 MAIN-WICHITA KS Elevation 2816 KB
Co. Rep./Geo. MR TYLER SANDER Cont. ABERCROMBIE RIG #8 Est. Ft. of Pay 0
Location: Sec. 30 Twp. 16S Rge. 29W Co. LANE State KANSAS

Interval Tested 4474-4511 Drill Pipe Size 4.5" XH
Anchor Length 37 Top Choke - 1" _____
Top Packer Depth 4468 Bottom Choke - 3/4" _____
Bottom Packer Depth 4473 Hole Size - 7 7/8" _____
Total Depth 4511 Rubber Size - 6 3/4" _____
Wt. Pipe I.D. - 2.7 _____ Ft. Run 629
Drill Collar - 2.25 _____ Ft. Run 0
Mud Wt. 9.4 lb./gal. Viscosity 61 Filtrate 9.6
Tool Open @ 8:52 AM Initial Blow WEAK TO FAIR BLOW AT OPENING BUILDING TO
2" AT SHUT IN
Final Blow WEAK TO FAIR BLOW BUILDING TO 3.25" AT SHUT IN

Recovery - Total Feet 70
Sec. 10 Feet of CLEAN OIL Flush Tool? NO
Sec. 60 Feet of HEAVY OIL CUT MUD - 52%MUD/35%OIL/13%GAS
Sec. 0 Feet of _____
Sec. 0 Feet of _____
Sec. 0 Feet of _____
Temp 120 °F Gravity _____ °API @ 0 °F Corrected Gravity 0 °API
ppm Chlorides _____ ppm Recovery Chlorides 2000 ppm System

Initial Hydrostatic Mud 2225.8 PSI AK1 Recorder No. 13615 Range 4575
First Initial Flow Pressure 77.9 PSI @ (depth) 4476 w/Clock No. 14389
First Final Flow Pressure 77.9 PSI AK1 Recorder No. 12048 Range 4400
Initial Shut-In Pressure 856.4 PSI @ (depth) 4508 w/Clock No. 27567
Second Initial Flow Pressure 77.9 PSI Initial Opening 15
Second Final Flow Pressure 93.5 PSI Initial Shut-In 30
Final Shut-In Pressure 958.7 PSI Final Flow 60
Final Hydrostatic Mud 2199.7 PSI Final Shut-In 120

Representative MR ROGER SELLS TOTAL PRICE \$ 400
Printcraft Printers - Hays, KS



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	2213	2225.8	PSI
(B) First Initial Flow Pressure.....	67	77.9	PSI
(C) First Final Flow Pressure.....	67	77.9	PSI
(D) Initial Closed-in Pressure.....	851	856.4	PSI
(E) Second Initial Flow Pressure.....	67	77.9	PSI
(F) Second Final Flow Pressure.....	90	93.5	PSI
(G) Final Closed-in Pressure.....	951	958.7	PSI
(H) Final Hydrostatic Mud.....	2191	2199.7	PSI

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Drill-Stem Test Data

Well Name & No. DICKEY "F" #1 Test No. 7 Date 2/7/90
 Company PETROLEUM INC Zone Tested CHEROKEE SAND
 Address 900 EPIC CNTR-301 MAIN-WICHITA KS Elevation 2816 KB
 Co. Rep./Geo. MR TYLER SANDER Cont. ABERCROMBIE RIG #8 Est. Ft. of Pay 5
 Location: Sec. 30 Twp. 16S Rge. 29W Co. LANE State KANSAS

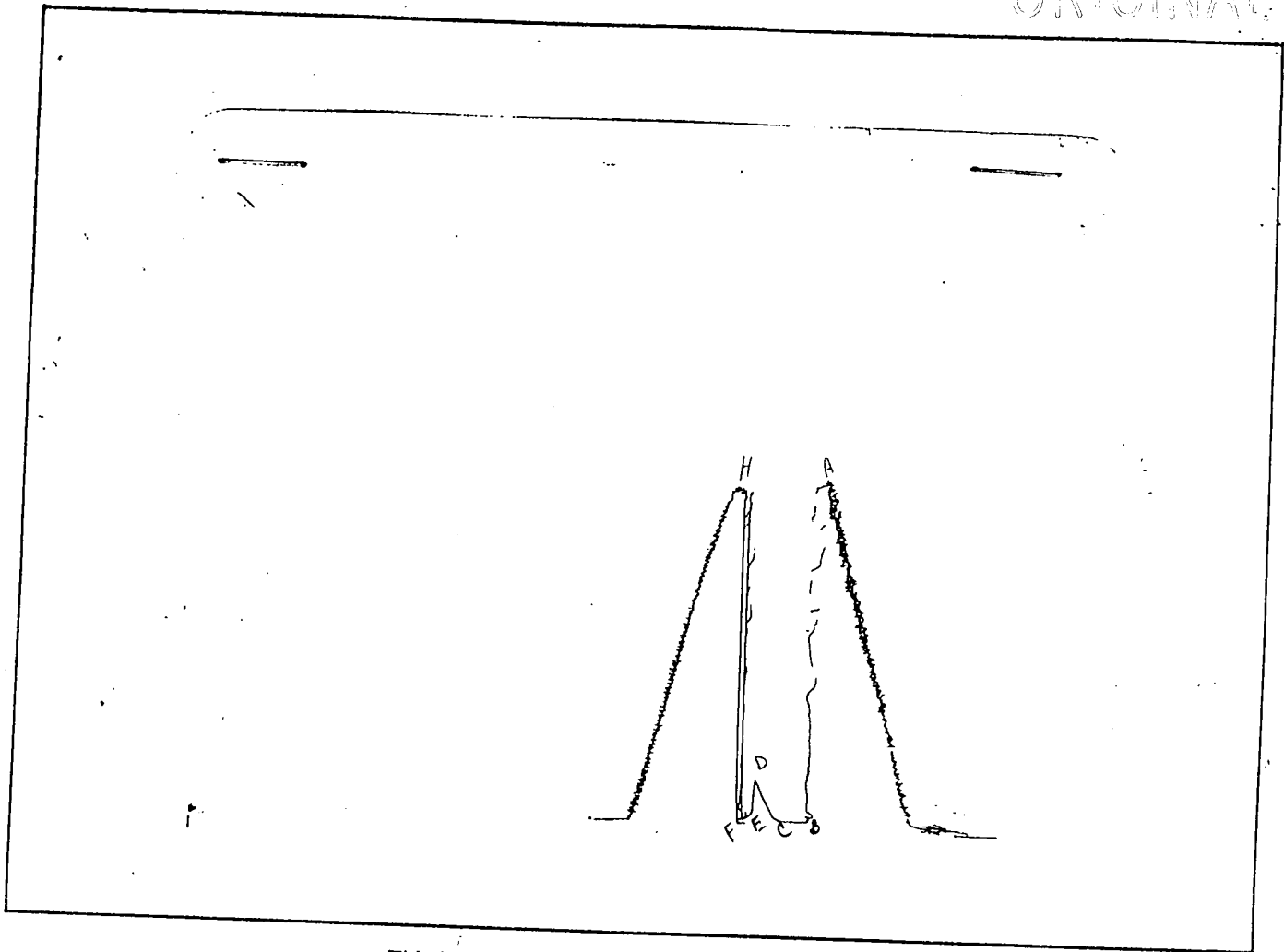
Interval Tested 4506-4541 Drill Pipe Size 4.5" XH
 Anchor Length 35 Top Choke 1"
 Top Packer Depth 4500 Bottom Choke 3/4"
 Bottom Packer Depth 4505 Hole Size 7 7/8"
 Total Depth 4541 Rubber Size 6 3/4"
 C. Pipe I.D. 2.7 Ft. Run 629
 Drill Collar 2.25 Ft. Run 0
 Mud Wt. 9.2 lb./gal. Viscosity 45 Filtrate 8.8
 Time of Open @ 12:25 AM Initial Blow VERY WEAK BLOW AT BUCKET SURFACE -DYING
IN 13 MINUTES

Initial Blow NO BLOW ON OPENING-WAITED 5 MIN & FLUSHED TOOL-NO
HELP-CAME OUT OF THE HOLE

Recovery - Total Feet 2 Flush Tool? YES
 2 Feet of MUD
 0 Feet of _____
 0 Feet of _____
 0 Feet of _____
 0 Feet of _____
 0 Feet of _____

Temperature 120 °F Gravity _____ °API @ _____ °F Corrected Gravity 0 °API
 Chlorides _____ ppm Recovery Chlorides 2000 ppm System
 Initial Hydrostatic Mud 222.1 PSI AK1 Recorder No. 13615 Range 4575
 First Initial Flow Pressure 47.5 PSI @ (depth) 0 w/Clock No. 14389
 First Final Flow Pressure 47.5 PSI AK1 Recorder No. 10248 Range 4400
 Initial Shut-In Pressure 410.6 PSI @ (depth) 0 w/Clock No. 27567
 Second Initial Flow Pressure 58.9 PSI Initial Opening 15
 Second Final Flow Pressure 58.9 PSI Initial Shut-In 30
 Final Shut-In Pressure 0 PSI Final Flow 10
 Final Hydrostatic Mud 2161.8 PSI Final Shut-In 0

Representative MR ROGER SELLS TOTAL PRICE \$ 400
 Printcraft Printers - Hays, KS



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	2213	222.1	PSI
(B) First Initial Flow Pressure.....	45	47.5	PSI
(C) First Final Flow Pressure.....	45	47.5	PSI
(D) Initial Closed-in Pressure.....	405	410.6	PSI
(E) Second Initial Flow Pressure.....	56	58.9	PSI
(F) Second Final Flow Pressure.....	56	58.9	PSI
(G) Final Closed-in Pressure.....	0	0.	PSI
(H) Final Hydrostatic Mud.....	2157	2161.8	PSI

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

ORIGINAL

No 2402

Well Name & No. Dickey "F" #1 Test No. 7 Date 2-7-90
 Company Pet. Inc. Zone Tested Cherokee Sand
 Address 900 Epic Center 301 N. Main Wichita, KS Elevation 2816 KB
 Co. Rep./Geo. Tyler Sanders cont. Abercrombie Dr. Est. Ft. of Pay 5'
 Location: Sec. 30 Twp. 16 Rge. 29 Co. LANE State KS
 No. of Copies Normal Distribution Sheet Yes X No Turnkey Yes No

Interval Tested 4506 - 4541 Drill Pipe Size 4 1/2 XH
 Anchor Length 351 Top Choke — 1" Bottom Choke — 1/4"
 Top Packer Depth 4500 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Bottom Packer Depth 4505 Wt. Pipe I.D. — 2.7 Ft. Run 629'
 Total Depth 4541 Drill Collar — 2.25 Ft. Run
 Mud Wt. 9.2 lb/gal. Viscosity 45 Filtrate 8.8
 Tool Open @ 12:25 AM Initial Blow very weak blow at bucket surface dying in 13 min.
 Final Blow no blow on opening - waited 5 min. & flushed tool - no help - out of the hole
 Recovery — Total Feet 2' Flush Tool? no help
 Rec. 2 Feet of mud
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 BHT 120 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2,000 ppm System
 (A) Initial Hydrostatic Mud 2213 PSI AK1 Recorder No. 13615 Range 4575
 (B) First Initial Flow Pressure 45 PSI @ (depth) _____ W/Clock No. 14389
 (C) First Final Flow Pressure 45 PSI AK1 Recorder No. 10248 Range 4400
 (D) Initial Shut-In Pressure 405 PSI @ (depth) _____ W/Clock No. 27567
 (E) Second Initial Flow Pressure 56 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 56 PSI @ (depth) _____ W/Clock No. _____
 (G) Final Shut-In Pressure _____ PSI Initial Opening 15 Test _____
 (H) Final Hydrostatic Mud 2157 PSI Initial Shut-In 30 Jars X
 Final Flow 10 Safety Joint X
 Final Shut-In _____ Straddle _____

Approved By Tyler H. Sanders
 Our Representative Roger F. Sells

Printcraft Printers - Hays, KS

Circ. Sub X
 Sampler _____
 Extra Packer _____
 Other _____
 TOTAL PRICE \$ _____

TYLER H. SANDERS
Petroleum Geologist
Landmark Square
212 N. Market • Suite 310
Wichita, Kansas • 67202
(316)-265-5400

ORIGINAL

CONFIDENTIAL

February 8, 1990

Petroleum Incorporated
900 Epic Center
301 N. Main
Wichita, Kansas
67202

Re: Dickey "F" no. 1
330' FSL; 940' FWL
Sec. 30-16S-29W
Lane Co., Ks.

RECEIVED
STATE CORPORATION COMMISSION

APR 04 1990

Attn: Mr. Mark Newman

CONSERVATION DIVISION
Wichita, Kansas

RELEASED

JUN 24 1991

SUPPLEMENTAL SAMPLE DESCRIPTIONS FROM CONFIDENTIAL

The following descriptions were made independent of drill time and represent my interpretation of each sample saved during the drilling of the above well. No attempt was made, or intended, in these descriptions to lag samples uphole. These notes are intended to supplement the plotted drilling time-sample log submitted on this well where interpreted uphole lag can be found.

WET SAMPLE SHOWS

- 4040 Sli to rare FSFO; lt yell-brn; no odor; 4 pcs per tray; lt stn to near sat trc pcs; poor and vpoor micxln to pvug poro
- 4150 Trc SFO in wh earthy to chlky lm; no odor; med brn; 3-4 pcs per tray; vpoor micxln poro
- 4234 (30"circ) Tan to brn and dk brn micxln dns lm; 3-4 pcs per tray with oil coating on edges only
- 4340 Trc FO in 3-4 pcs per tray; wh soft fxln lm; yell-brn; poss trc odor; poor intxln poro?
- 4350 Sev pcs wh to crm and crm to gry fxln lm with VSSFO; yell-brn
- 4360 SSFO; lt yell-brn in wh foss mdxln lm; no odor
- 4374 (30"circ) VSSFO in wh to crm vfxln lm; yell-brn; some pcs with oil coating on edges with no free oil; poss trc odor
- 4426 Crm to lt tan micro-ool to dns lm with sli to fair SFO; lt yell to med brn; sli gassy; vsli odor
- 4426 (30"circ) SSFO in less pcs than above; med brn; vsli odor
- 4450 SSFO in crm coarsely ool lm; no vis poro; yell-brn
- 4460 Sli to some FSFO gassy lt yell-brn in crm to lt gry vugular lm

ORIGINAL

- 4480 Tan to brn and dk yell-brn oolitic pyritic lm with sli to fair and good show lt yell-brn gassy free oil; sli odor; fair and gd intxln and sml vug poro and lt yell brn sat
- 4485 Fair to GdSFO in crm and lt gry vfxln lm; med brn gassy; sli foss
- 4485 (30"circ) Sli odor; Fair to sli SFO in crm to tan and gry micfoss lm; lt brn
- 4510 Fair to GdSFO; dk brn gassy in brn micxln lm with gd vug poro; gd odor
- 4530 GdSFO in wh to clear vfgrnd sd; well sorted; friable in pt sli odor; med to dk brn
- 4540 SSFO in med grnd sd sluggish free oil; dk brn; trc pcs; mostly NS

RELEASED

JUN 24 1991

DRY SAMPLE DESCRIPTIONS

FROM CONFIDENTIAL

- 3300-3310 All uphole red and gray shale with anh pcs
- 20 Same as above; no value
- 30 Lt to med gry dolomitic lm; with mottld dk gry patches; some pcs with gd moldic-intxln poro; NS
- 40 Mostly gry shale; some silty with silty dolomitic lm as above and some frsh brick red shale
- 50 Much mottld gry and dk gry vfoss lm with dk gry shale and shly lm; no vis poro; some gry micxln dns
- 60 Wh and gry mottld foss lm, lmy sh and shly lms; no poro; NS
- 70 Lms as above; gry and tan mottld, shly
- 80 Mottld-speckled gry-tan foss lms as above; fair amt gry and dk gry frsh foss cherts
- 90 Becomes lighter in color; wh to crm earthy to chlky with gry specks and patches; no vis poro; NS
- 3390-3400 Lms as above with influx of drab grn and dk gray shales not seen above
- 10 Much wh to crm earthy to chlky soft lm; sli foss; no poro; NS
- 20 Crm to tan finely ool-micfoss lm; earthy in pt; trc with vpoor pp poro; NS
- 30 Sli incr in sh; dk gry and grn with tan-dk gry mottld foss lms
- 40 Again sli incr in sh; grn and gray with varied shly vfxln lms
- 50 Incr in lm; wh earthy to chlky and some pure wh soft chl
- 60 Crm to tan micxln dns lm; sli foss; some earthy; no vporo
- 70 Much lm; crm to crmy-gry earthy to dns; micxln
- 80 Earthy to sli chlky crm to wh lm much as above
- 90 Incr in shale; gry and dk grn with crm fxln sli foss lm

- 3490-3500 Poor spl; influx of uphole red shales and cave mixed with gry and grn shales and some crm earthy lm
- 10 Still poor spls; grn and gray shales with gd amt loose pyrite; some vdk gray hard brittle sh
- 20 Much uphole red shale; vpoor spl
- 30 Spls better; much dk gry and drab grn and med gry sh
- 40 Incr in lm; wh to crm vfxln to micxln sli foss; no vis poro; NS
- 50 Lm much as above with gray and green shales; some earthy wh lm
- 60 Crm to tan micfoss vxln lm mixed with wh earthy to chlky lm; some soft white chlky; no vis poro; still gd amt gray sh
- 70 Wh earthy to chlky soft lm; no vis poro; NS; many pcs apparent frsh(?) red shale
- 80 Varied lm; crm to tan micxln dns; wh to crm earthy and tan micxln foss; trc frsh gry chert; no vis poro; NS; mixed with gry sh
- 90 Crm to vlt gray fxln to medxln lm; some micfoss grainstn; sli incr in lm percent from above; no vis poro; NS
- 3590-3600 Wh earthy to sli chlky lm with gray speckes; trc vpoor micxln poro; NS; with gray and dk gray shales
- 10 Incr in lm content; much wh foss and micfoss earthy to sli chlky lm; trcs vpoor micfoss poro; some granular(dolomitic?) texture
- 20 Incr in sh percent; gray, dk gray and grn gry; still gd amt uphole cave
- 30 Crm to lt tan fxln lm with granular texture; no vis poro; with gray shale; less than above
- 40 Gray and dk gray and grn-gry shales with gry and dk gray vdns shly lms; no poro; NS
- 50 Med to dk gray vfxln to micxln shly and vshly lm with gray and dk gray sh
- 60 Gray shales; some sli silty-micaceous; lmy in pt; poss some dk brick red
- 70 Shales as above; lmy in pt
- 80 Dk gray shale with lrg incr in lm percent; varied; crm vfxln earthy; gray micxln dns and crm granular (dolomitic?); no vis poro; NS; sli foss in pt
- 90 Much brn and gray-brn micxln vdns lm; mixed with wh micfoss earthy and gray shales
- 3690-3700 Much crm to tan and wh dns to earthy mottld vfxln lm; no poro; NS; some wh soft chlky
- 10 Much crm and gry fxln mottld micfoss lm; some with gd intxln-foss moldic poro and gd amt wh soft chlky lm; NS; poss dolomitic in pt
- 20 Much wh and crm soft chlky lm; few pcs with gd moldic poro; NS
- 30 Wh, crm and vlt gray earthy to chlky "gritty" lm; dolomitic in pt; poor micxln poro; some pcs; NS
- 40 Crm to lt tan fxln to vfxln dolomitic lm; wh earthy in pt; some pcs foss; no vis poro; NS; trc pcs blk carb sh

- 023 11
- 50 Much crm to wh micfoss; dolomitic(?) lm with fair intxln and pp poro; NS; some earthy to chlky with no vis poro
- 60 Becomes crm, lt tan and gry micxln to fxln; dns; some earthy
- 70 Wh earthy to chlky and crm foss fxln dns lms; no vis poro; NS
- 80 Wh to crm micxln earthy poss dolomitic micfoss lm with poor to fair pp and micxln poro; NS
- 90 Much black carb shale with white to crm earthy and tan micxln dns lm
- 3790-3800 Dns tan to lt brn lm; some crm earthy to sli chlky; no vis poro; NS
- 10 Cream to creamy-gray micxln dns lm; no poro; earthy in pt
- 20 Dns lm much as above; cream and gray; granular-dolomitic? in pt; no poro with sev pcs white to crm micro-ool lm with gd moldic poro; sli pyritic; NS
- 30 Mostly cream vfxln earthy lm; fair amt lt gry frsh foss chert; no vis poro; some dk gray shale; minor micro-ool lm with poro as above
- 40 Varied lms; cream to tan micxln dns to white fxln earthy to chlky; no vis poro; with dk gray shale
- 50 White, cream and vlt gray fresh chert with cream earthy fxln lm; no vis poro; NS
- 60 Much cream fxln granular-dolomitic foss lm with fair to some good intxln and foss moldic poro; NS
- 70 Cream fxln foss lm with good foss moldic and fair intxln poro; some earthy to chlky; NS
- 80 Crm earthy lm; less poro than above; some dns; some wh soft chlk
- 90 Cream to vlt gray fxln dolomitic lm to lmy dolo with poor to fair vis intxln poro; trc cream fresh chert; NS
- 3890-3900 Cream to tan and brn vfxln dolomitic granular earthy lm with much carbonaceous flecks (not stn!); earthy to chlky; some foss; poor vis intxln and moldic poro; NS
- 10 Dolomitic-granular tan to brn lm as above with micro sized carbonaceous specks and good amt black carb shale
- 20 Fair amt black carb shale as above with some tan to lt brn micxln dns lm
- 30 Sli incr in sh from above; gray to green with good amt white frsh opaque chert and white to crm earthy drab fxln lm; no vis poro; NS
- 40 Crm vfxln granular dolomitic(?) lm; some poor to fair intxln poro with incr in shale percent; green and gray-green
- 50 Incr in lm content; crm vfxln earthy; vfine granular texture in pt; no vis poro; NS; some white op chert
- 60 Wh to crm micxln dns lm; some coxln calcite fill; no vis poro; NS

- 70 Lm much as above; earthy in pt; some pcs brn to gray vfxln ool dns lm; sli incr in gray sh
- 80 Good incr in shale; grn and gray-grn; silty in pt with lms as above
- 90 Less shale than above; crm to wh earthy vfxln drab lm; fair amt coxln calcite fill; no poro; NS
- 3990-4000 Vfxln to micxln lm much as above; some vlt gray; no poro; NS
- 10 Incr in shale percent; mostly grn; some med gray with wh soft chlky to earthy lm; no poro; NS
- 20 Lt dove gray micxln vdns lm; fair amt coxln void fill; no poro; NS
- 30 Incr in shale; gray and grn; trc pcs white chlky-earthly lm with scatt poor vis pp and vsml vug poro and lt scatt spttd stn
- 40 Micxln tan to lt brn lm with 4-5 pcs per tray crm fxl n lm with poor to some pcs fair pp and vsml vug poro and lt stn to near sat; some medxln; fair amt grn and gray shale
- 50 Lm as above with trc pcs with poro and stn; becomes wh earthy to chlky; trc pcs oolitic with v poor vis intgran poro and trc spttd lt stn; still fair amt shale
- 4050-4058 Less shale than above; much wh earthy to chlky lm; oolitic in pt; no vis poro; NS
- 4058(30"circ) Lm much as above; some lt gray dns; trc pcs with isol vug and trc intxln poro; NS
- 4058(60"circ) Cream to white earthy to chlky lm; fair amt coxln oolitic material; some with isol and scatt vug poro; NS
- 4058-4070 Trip sample; no value
- 80 Crm to white earthy to chlky lm and dove gray micxln dns; fair amt still of gray and grn shale
- 90 Earthy crm lm much as above
- 4090-4100 Lt dove gry and cream earthy lm; gd amt coxln calcite fill
- 10 Good amt black carbonaceous shale with white and gray mottld lm and tan to lt gry-brn dns lm
- 20 Sli incr in sh content; gry and grn-gry with tan micxln foss lm and crm-wh earthy to chlky lm; no vis poro; NS
- 30 White to crm earthy lm; some wh chlky; some pcs vfxln granular-dolomitic(?) lm; no vis poro; NS; with gd amt grn and gry sh
- 40 Incr in lm content; much crm to vlt crmy gry vfxln to micxln lm; some earthy; no vis poro; NS
- 50 Becomes tan to brn vfxln; mottld crm and brn in pt; trc pcs with trc spttd edge stn; no vis poro; NS; sli incr in gry and grn sh from above
- 60 Gry and grn shale with crm earthy vfxln dns lm; no poro; NS
- 70 Becomes wh chlky mixed with some tan to brn dns and fair amt grn and gry sh

ORIGINAL

- 80 Fine sized spl; much unconsol oolitic material; wh to cream earthy to chlky; oolites and foss frags; some coxln calcite; no vis stn
- 90 Much wh earthy to chlky ool lm with good and vgood oomoldic poro; fair amt wh pure soft chlk; no vis stn; NS
- 4190-4200 Good amt blk carbonaceous shale with gry and cream fxln lm; fair amt lt gry frsh chert
- 10 Still some blk carb sh with much crm to wh chlky soft and earthy lm; fair amt lt gry frsh chert as above
- 20 Sli incr in sh; grn and gry with wh and crm chlky lm much as above; no vis poro; NS; few pcs wh ool chlky lm with fair to trc good moldic poro; NS
- 30 Chlky white to crm lm as above; some pcs oomoldic; NS
- 4230-4234(30"circ) Minor blk carb sh with crm to tan and lt brn dns lm; some earthy mottld; no vis poro; NS
- 4234(60"circ) Tan to brn and dk brn micxln dns lm; some coxln void fill; no vis poro; NS
- 4234-4240 Tan to brn and gray brn dns lm much as above; micxln with grn and gry sh; still fair amt blk carb sh
- 50 Lt gry and crm vfxln to micxln lm; some earthy to sli chlky; no vis poro
- 60 Varied fxln lms; crm and tan mottld earthy with gray and crm micxln; some crm sli chlky; no vis poro; with some grn and gry sh
- 70 Bright wh earthy to chlky vfxln lm mixed with crm to gry micxln
- 80 Chlky-earthly wh and crm lms and dns lms as above; sli incr in sh percent from above
- 90 Lm becomes darker tan and gry micxln with increasing sh percent; still much crm earthy to chlky; some crm and gry mottld
- 4290-4300 Grn and maroon shales with crm earthy to chlky lms; some lt brn micxln dns; no poro; NS
- 10 Crm to tan micxln dns and crm earthy vfxln lm; no vis poro; NS; some pink shly to silty lm and silty-lmy sh
- 20 Tan and brn micxln dns lm; some coxln void fill and gry sh; grn silty sh also
- 30 Incr in sh; pale grn and gry with cream to tan mottld dns lm
- 40 Crm, tan and gry fxln mottld lm with fair amt tan med to coxln lm; poor to fair and trc pcs with gd sml vug-intxln poro and lt spttd stn to some sat; mixed with lt gry gummy soft sh
- 50 White to cream earthy and gry-brn micxln dns lm; fair amt gry sh with few pcs earthy tan to crm lm with vpoor micxln poro and spttd lt stn
- 60 White to crm earthy lm with gry and grn sh; some med gry micxln; no vis poro; NS

ORIGINAL

- 70 Large incr in shale; gray, grn and maroon; trc pinkish lm; no poro; NS
- 4370-4374 Incr in lm percent; lt gry micxln and crm earthy; no poro; NS
- 4374(30"circ) Incr in sh content; gray, grn and maroon with fair amt crm to tan dns lm with poor to vpoor pp and micxln poro mostly on edges; lt yell-brn spttd stn; no vis sat; some lt gry translucent chert
- 4374(60"circ) Dns micxln lm; lt gray to crm; trc pcs(2 per tray) with fair pp to intxln poro and lt spttd stn to near saturation
- 4374-4380 Trip spl; no value
 - 90 Still much uphole cave; fair amt lt gry frsh translucent chert and wh vfxln dns lm and dk gry sh
- 4390-4400 Dns white to cream vfxln lm; some earthy to chlky; no vis poro; NS
 - 10 Becomes tan to brn and dk gry vdns lm with dk brn frsh chert; minor black carb shale
 - 20 Gray and grn sh with crm dns lm; minor black carbonaceous
- 4420-4426 White earthy to chlky lm; sev pcs crm micro-ool with poor to fair intgran poro and lt yell brn stn and saturation
- 4426(30"circ) Lm as above; becomes sli less chlky; some dns crm to vlt gray; trc poro pcs as above
- 4426(60"circ) Much fresh black shale with some pcs crm fxln lm with intxln and vug poro and lt brn stn to saturation
- 4426-4430 Gray and blk carb shale with gry to crm micxln mottld lm; no vis poro; NS
 - 40 Frsh black carb shale with tan to brn and dk brn micxln dns lm; with white to crm earthy fxln lm; no poro; NS
 - 50 Crm to tan and lt gray vfxln lm; some coarsely ool; trc pcs crm earthy lm with vpoor micxln poro and spttd poor stn; some wh soft pure chlky; incr in lm from above
 - 60 Varied lms; brn to dk brn dns; crm earthy to chlky and lt grn micxln; some brn frsh chert; no vis poro; NS; sli incr in sh; dk gry and gry-grn
- 4460(30"circ) Crm to tan earthy and tan to gry micxln lm; some oolitic mottld lm; sev pcs crm to gry fxln lm with poor to fair and trc gd vug poro and vlt spttd stn to some sat
- 4460(60"circ) Large incr in shale; black carbonaceous with gd amt coarsely oolitic mottld crm to tan lm; trc poro lm as above with stn to saturation
- 4460-70 Trip spl; no value
 - 80 Spl mostly sh; gry to dk gry with several pcs distinctive tan to brn coarsely ool lm; some fair to gd intxln and ingran poro and lt to med brn sat to spttd stn; sli pyritic
- 4485(30"circ) Tan dns and crm to white earthy to chlky lm; some fair vug to micfoss moldic poro in tan dns lm;

- vpoor micxln poro in crm earthy lm; spttd med brn stn
- 4485(60"circ) Lm much as above; sev pcs tan to brn and gry mottld with fair to poor micfoss moldic poro and med brn sat to stn
- 4485-4490 Trip spl; no value
- 4490-4500 Spl 90% shale; gry, dk gry and grn; trc pcs brn micfoss-ool dns lm with trc fair moldic-vugular poro and stn much as above
- 10 Tan to gray an brn dns lm; many pcs brn micfoss lm with good and vgood micfoss moldic and vug poro; gd rich med brn saturation; some pcs crm earthy
- 4510(30"circ) Sli incr in shale content; dk gry with crm to tan mottld micfoss lm; some pcs with fair intxln poro and spttd stn to some sat; less poro than above
- 4510(60"circ) spl missing
- 4510-20 Trip spl
- 30 Much wh vfgrnd glassy sd; well sorted and cln; friable to fairly well cmtd; spttd brn stn to some sat in friable pcs; many pcs fairly well cmtd with NS; gd amt dk grn to gry, dk gray and some maroon shale
- 40 Shales as above with gd amt white to clear fine to med grnd sd; fairly well to vwell cmtd; NS to trc pcs with spttd stn on edges
- 4541(circ 30") White to crm earthy suboolitic-foss lm; trc tiny green glauc flecks; no poro; some var col pink and yellowish lm and trc var col chert and var col sh
- 4541(60"circ) Incr in lm percent; much white to crm earthy to sli chlky lm; some pcs suboolitic-foss; some creamy-gry micxln dns; no poro; NS
- 4540-4550 Trip sample; all shale; no value
- 60 White, cream and creamy-gray micfoss-ool and gry micxln dns lm; no poro; good amt gray sh background
- 70 Wh to cream earthy dns lm with much creamy gray cryptoxln dns lms and fresh lt gray, blue gray, and tan chert; minor amt orange chert no poro vis; no odor, flor,;NS
- 80 Cryptoxln and micxln creamy gray dns lm with lt blue gray frsh chert much as above
- 85 Crm to white earthy to sli chlky pyritic lm with fair amt crm to tan and brn mottld oolitic-micfoss dns lm; no poro; NS
- 4585(30"circ) Mottld ool-foss lm much as above med to dk brm oolites in crm earthy matrix; trcs vpoor micxln and vpoor intxln poro; NS
- 4585(60"circ) Ool-micfoss lm becoming wh to crm earthy to sli chlky; no vis poro; NS
- RTD 4585

John H. Sauer
2/8/90

BJ-TITAN SERVICES COMPANY

ORIGINAL ORIGINAL

ORIGINAL

INVOICE DATE

02/09/90

DIRECT BILLING INQUIRIES TO: 713-895-5821	TERMS NET AMOUNT DUE 30 DAYS FROM DATE OF INVOICE	REMIT TO: BJ-TITAN SERVICES P.O. BOX 100806 HOUSTON, TX 77212
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PAGE 1	INVOICE NO. P0057
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PETROLEUM INC
BOX 1447
GREAT BEND

RELEASE
JUN 24 1990 \$ 67530

STATE CORPORATION COMMISSION

APR 04 1990

CONSERVATION DIVISION
Wichita, Kansas

AUTHORIZED BY 510671

PURCH. ORDER REF. NO.

WELL NUMBER : F-1 FROM CONFIDENTIAL CUSTOMER NUMBER : 02158081

LEASE NAME AND NUMBER DICKEY	STATE 14	COUNTY/PARISH	CITY	DISTRICT NAME OAKLEY	DISTR. NO. 3320
JOB LOCATION/FIELD ABERCROMBIE DRLG #8	MTA DISTRICT	DATE OF JOB 02/09/90	TYPE OF SERVICE LAND-LONG STRING/PRODUC		

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	EXTENDED PRICE
10100320	1.00	CEMENTING CASING 3001 TO 5000 FT.	879.00		879.00
10100325	15.84	PLUS PER 100 FT. BELOW 3000 FT.	9.80		155.23
10101501	1.00	ADD STAGES, CONTINUOUS OR INTERMITT	695.00		695.00
10109005	100.00	MILEAGE CHRG, FROM NEAREST BASE OF	1.10		110.00
10410504	100.00	CLASS "A" CEMENT	6.00	CF	600.00
10415018	75.00	DIAMIX F	3.62	CF	271.50
10420145	2.99	BJ-TITAN GEL, BENTONITE, BULK SALES	6.75	CW	20.18
10424005	113.00	CD-31	3.87	LB	437.31
10415038	18.70	A-5 SALT	7.00	CW	130.90
10415082	7.00	KOL SEAL	33.00	CW	231.00
10425010	500.00	MUD-SWEEP, WITH BJ-TITAN PUMPING EQ	1.45	GL	725.00
10940101	1420.00	DRAYAGE, PER TON MILE	0.70		994.00
10880085	600.00	MIXING CUSTOMERS MATERIALS, PER CUB	0.95		570.00
10415005	425.00	LITE ✓	5.56	CF	2,363.00
SUBTOTAL					3,182.12
DISCOUNT					1,535.43

ACCOUNT	4.25000% STATE TAX 1.00000% COUNTY TAX
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PRODUCTION DEPARTMENT

DEV. AFE

OPER. NO. 2 P. 2900010

LEASE: DICKEY F #1

USED FOR:
CEMENT PROD. CASING

APPROVED: [Signature]

3323.11	162.48
3823.11	35.23

TAX EXEMPTION STATUS:	PAY THIS AMOUNT	5,745.49
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BJ-TITAN SERVICES COMPANY

CONFIDENTIAL

ORIGINAL

ORIGINAL

INVOICE DATE
01/30/90

DIRECT BILLING INQUIRIES TO: 713-895-5821	TERMS NET AMOUNT DUE 30 DAYS FROM DATE OF INVOICE	REMIT TO: BJ-TITAN SERVICES P.O. BOX 100806 HOUSTON, TX 77212
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PAGE	INVOICE NO.
1	PA018

AUTHORIZED BY
510547

PURCH. ORDER REF. NO.

PETROLEUM INC
BOX 1447
GREAT BEND

STATE CORPORATION COMMISSION

RELEASE

JUN 24 1991 KS 67530

APR 04 1990

CONSERVATION DIVISION
Wichita, Kansas

WELL NUMBER : 1F FROM CONFIDENTIAL CUSTOMER NUMBER : 02158081

LEASE NAME AND NUMBER	STATE	COUNTY/PARISH	CITY	DISTRICT NAME	DISTR. NO.
DICKEY	14			OAKLEY	3320
JOB LOCATION/FIELD		MTA DISTRICT	DATE OF JOB	TYPE OF SERVICE	
30-16-29W			01/30/90	LAND-CONDUCTOR/SURFACE	

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	EXTENDED PRICE
10100303	1.00	CEMENTING CASING 0 TO 300 FT.	375.00		375.00
10109005	100.00	MILEAGE CHRG, FROM NEAREST BASE OF	1.10		110.00
10410504	93.00	CLASS "A" CEMENT	6.00	CF	553.00
10415018	62.00	DIAMIX F	3.62	CF	224.44
10415049	400.00	A-7-P CALCIUM CHLORIDE PELLETS	0.33	LB	132.00
10420145	267.00	BJ-TITAN GEL, BENTONITE, BULK SALES	0.06	CW	18.02
10880085	155.00	MIXING CUSTOMERS MATERIALS, PER CUB	0.95		147.25
10940101	350.00	DRAYAGE, PER TON MILE	0.70		245.00
10430539	1.00	8 5/8" TOP HOLE (SURFACE) PLUG	17.00	EA	17.00

CONSERVATION DEPARTMENT
 OPER. NO. 2889000110
 LEASE: DICKEL F-1
 USED FOR: CEMENT SURFACE PIPE
 APPROVED: *[Signature]*

SUBTOTAL 1,826.71
DISCOUNT 365.73

ACCOUNT	4.25000% STATE TAX 1.00000% COUNTY TAX	759.36 759.36	32.28 7.60
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TAX EXEMPTION STATUS: PAY THIS AMOUNT → 1,500.36