



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 7613

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

Elevation \_\_\_\_\_ Formation Lansing Eff. Pay 5 Ft.

District Great Bend Date 2-4-85 Customer Order No. \_\_\_\_\_

COMPANY NAME Petroleum Inc

ADDRESS 800 Garvey Bldg. 300 W. Douglas Wichita, ks 67202

LEASE AND WELL NO. #3 Techman D COUNTY Stafford STATE Ks Sec. 35 Twp. 21 Rge. 12W

Mail Invoice To Same No. Copies Requested 5

Co. Name Same #3'D' TEICHMANN Address \_\_\_\_\_ No. Copies Requested 5

Mail Charts To Same #3'D' TEICHMANN Address \_\_\_\_\_ No. Copies Requested 5

Formation Test No. 1 Interval Tested From 3200 ft. to 3250 ft. Total Depth 3250 ft.

Packer Depth 3215 ft. Size 6 5/8 in. Packer Depth 3270 ft. Size 6 5/8 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3242 ft. Recorder Number 6077 Cap. 4700

Bottom Recorder Depth (Outside) 3245 ft. Recorder Number 11028 Cap. 4300

Below Scaddle Recorder Depth \_\_\_\_\_ Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_

Drilling Contractor Woodman-Tannitt, R643 Drill Collar Length \_\_\_\_\_ I. D. \_\_\_\_\_ in.

Mud Type Starch Viscosity 4.3 Weight Pipe Length 382 I. D. 2.7 in.

Weight 9.7 Water Loss 8.8 Drill Pipe Length 2817 I. D. 3.8 in.

Chlorides 56,000 P.P.M. Test Tool Length 21 ft. Tool Size 5/2 OD in.

Jars: Make \_\_\_\_\_ Serial Number \_\_\_\_\_ Anchor Length 30 ft. Size 5 1/2 OD in.

Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Surface Choke Size 34 in. Bottom Choke Size 34 in.

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

Blow: IFF - weak decreasing 1/2" below, only a few bubbles at end of period.

FF - no blow

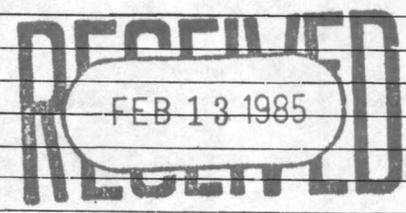
Recovered 5' ft. of mud

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Chlorides \_\_\_\_\_ P.P.M. Sample Jars used 1 Remarks: \_\_\_\_\_



Time On Location 2:40 A.M. Time Pick Up Tool 315 P.M. Time Off Location 8:00 A.M.

Time Set Packer(s) 4:35 A.M. Time Started Off Bottom 605 P.M. Maximum Temperature 105+

Initial Hydrostatic Pressure (A) 1671 P.S.I.

Initial Flow Period (B) 32 P.S.I. to (C) 32 P.S.I.

Initial Closed In Period (D) 43 P.S.I.

Final Flow Period (E) 32 P.S.I. to (F) 32 P.S.I.

Final Closed In Period (G) 43 P.S.I.

Final Hydrostatic Pressure (H) 1671 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made. All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By: [Signature] Signature of Customer or his authorized representative

Western Representative: [Signature] 0500

FIELD INVOICE

Table with 2 columns: Item, Price. Includes Open Hole Test (\$350), Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, TOTAL.

**WESTERN TESTING CO., INC.**  
Pressure Data

Date: 2/14/85 Test Ticket No. 7013  
 Recorder No. 11028 Capacity \_\_\_\_\_ Location \_\_\_\_\_  
 Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F

Point	Pressure	P.S.I.	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1764</u>	P.S.I.	_____	_____	_____
B First Initial Flow Pressure	<u>36</u>	P.S.I.	First Flow Pressure	<u>15</u> Mins.	_____ Min.
C First Final Flow Pressure	<u>36</u>	P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	_____ Min.
D Initial Closed-in Pressure	<u>43</u>	P.S.I.	Second Flow Pressure	<u>15</u> Mins.	_____ Min.
E Second Initial Flow Pressure	<u>32</u>	P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	_____ Min.
F Second Final Flow Pressure	<u>32</u>	P.S.I.			
G Final Closed-in Pressure	<u>37</u>	P.S.I.			
H Final Hydrostatic Mud	<u>1742</u>	P.S.I.			

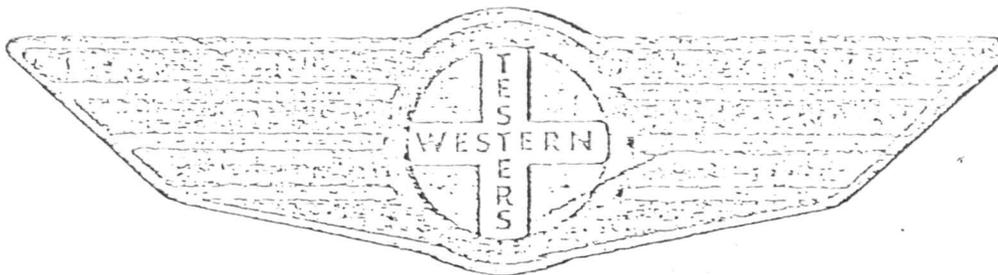
**PRESSURE BREAKDOWN**

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>4</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>4</u> Inc.		Breakdown: <u>11</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>36</u>	0	<u>36</u>	0	<u>32</u>	0	<u>32</u>
P 2 5	<u>1</u>	3	<u>36</u>	5	<u>1</u>	3	<del>32</del>
P 3 10	<u>1</u>	6	<u>37</u>	10	<u>1</u>	6	<del>32</del>
P 4 15	<u>30</u>	9	<u>37</u>	15	<u>32</u>	9	<del>32</del>
P 5 20		12	<u>38</u>	20		12	<del>32</del>
P 6 25		15	<u>39</u>	25		15	<del>32</del>
P 7 30		18	<u>39</u>	30		18	<del>32</del>
P 8 35		21	<u>40</u>	35		21	<del>32</del>
P 9 40		24	<u>41</u>	40		24	<del>32</del>
P 10 45		27	<u>42</u>	45		27	<del>32</del>
P 11 50		30	<u>43</u>	50		30	<del>32</del>
P 12 55		33		55		33	
P 13 60		36		60		36	
P 14 65		39		65		39	
P 15 70		42		70		42	
P 16 75		45		75		45	
P 17 80		48		80		48	
P 18 85		51		85		51	
P 19 90		54		90		54	
P 20 95		57		95		57	
100		60		100		60	

FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company PETROLEUM, INC. Lease and Well No. #3 "D" TEICHMANN Sec. 35 Twp. 21S Rge. 12W Test No. 1 Date 2/4/8

WESTERN TESTING COMPANY INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 2/4/85 TICKET #7613  
CUSTOMER: PETROLEUM INC. LEASE: TEICHMANN 'D'  
WELL: #3 TEST: 1 GEOLOGIST: JOHNSON  
ELEVATION (KB): 0 FORMATION: LANSING  
SECTION: 35 TOWNSHIP: 21S  
RANGE: 12W COUNTY: STAFFORD STATE: KANSAS  
GAUGE SN #11028 RANGE: 4300 CLOCK: 12

INTERVAL TEST FROM: 3220 FT TO: 3250 FT TOTAL DEPTH: 3250 FT  
DEPTH OF SELECTIVE ZONE: FT  
PACKER DEPTH: 3215 FT SIZE: 6 5/8 IN PACKER DEPTH: 3220 FT SIZE: 6 5/8 IN  
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: W-I  
MUD TYPE: STARCH VISCOSITY: 43  
WEIGHT: 9.7 WATER LOSS (CC): 8.8  
CHLORIDES (P.P.M.): 56000  
JARS - MAKE: SERIAL NUMBER:  
DID WELL FLOW? REVERSED OUT?  
DRILL COLLAR LENGTH: FT I.D.: IN  
WEIGHT PIPE LENGTH: 382 FT I.D.: 2.7 IN  
DRILL PIPE LENGTH: 2817 FT I.D.: 3.8 IN  
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 O.D. IN  
ANCHOR LENGTH: 30 FT SIZE: 5 1/2 O.D. IN  
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN  
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 XH IN

BLOW: INITIAL FLOW PERIOD WEAK 1/2" BLOW  
DECREASING TO ONLY A FEW BUBBLES.  
FINAL FLOW PERIOD NO BLOW.

RECOVERED: 5 FT OF: MUD.  
RECOVERED: FT OF:  
RECOVERED: FT OF:

REMARKS: READ OUTSIDE CHART.

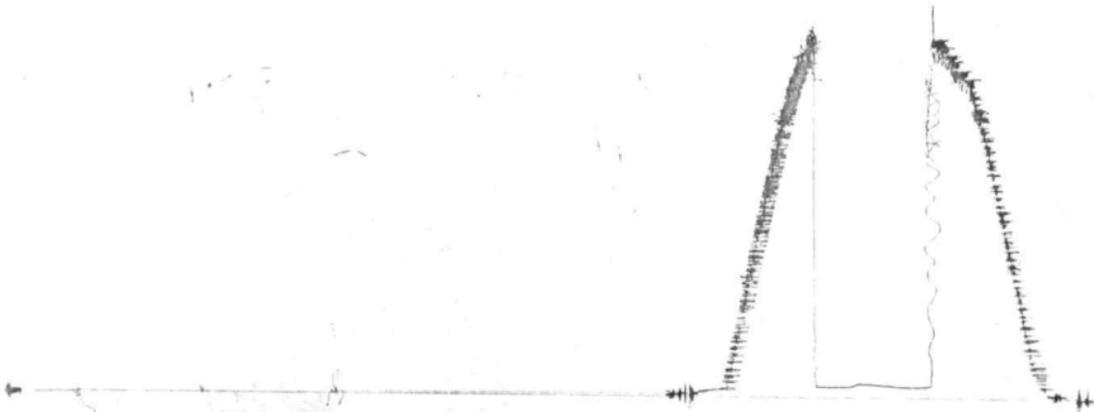
TIME SET PACKER(S): 4:35 P.M. TIME STARTED OFF BOTTOM: 6:05 P.M.  
WELL TEMPERATURE: 105 °F  
INITIAL HYDROSTATIC PRESSURE: (A) 1764 PSI  
INITIAL FLOW PERIOD MIN: 15 (B) 36 PSI TO (C) 36 PSI  
INITIAL CLOSED IN PERIOD MIN: 30 (D) 43 PSI  
FINAL FLOW PERIOD MIN: 15 (E) 32 PSI TO (F) 32 PSI  
FINAL CLOSED IN PERIOD MIN: 30 (G) 37 PSI  
FINAL HYDROSTATIC PRESSURE (H) 1742 PSI



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TRT # 7613

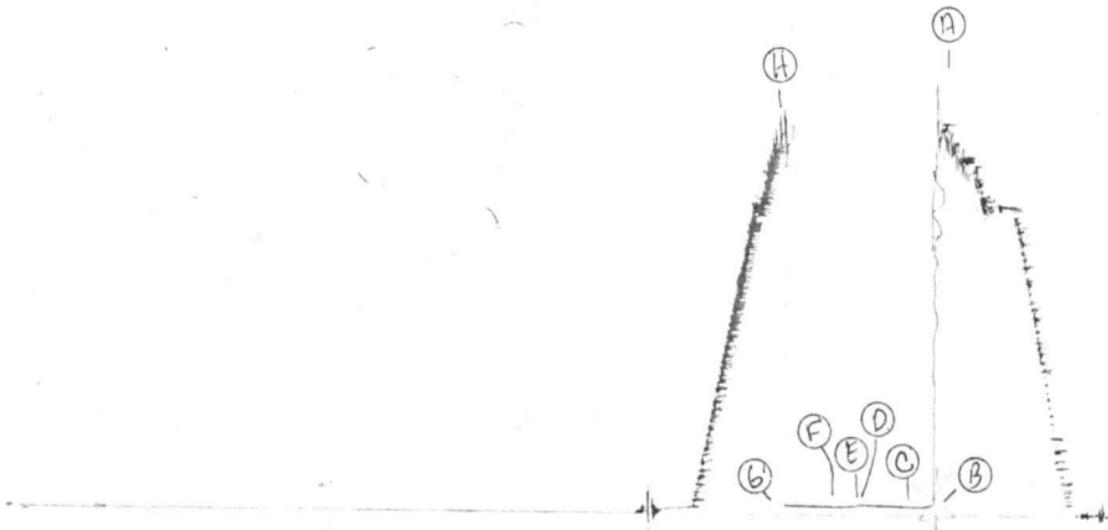
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11028

TKT # 7613

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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No. 7614

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

Elevation 1819KB Formation KC Eff. Pay Ft.

District Great Bend Date 2-5-85 Customer Order No.

COMPANY NAME Petroleum Inc.

ADDRESS 800 Garney Bldg. 300 W. Douglas Wichita, K 67202

LEASE AND WELL NO. #3 Teichman 'D' COUNTY Stafford STATE K Sec 35 Twp 21 Rge 12W

Mail Invoice To Same as above No. Copies Requested 5

Co. Name " " " #3 'D' TEICHMANN Address No. Copies Requested 5

Mail Charts To Address

Formation Test No. 2 Interval Tested From 3390 ft. to 3420 ft. Total Depth 3420 ft.

Packer Depth 3385 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Packer Depth 3390 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3412 ft. Recorder Number 6077 Cap. 4700

Bottom Recorder Depth (Outside) 3415 ft. Recorder Number 4700 Cap. 4300

Below Saddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Woodman Lammitt Inc. Rig #3 Drill Collar Length 2 I. D. in.

Mud Type starch Viscosity 46 Weight Pipe Length 382 I. D. 2.7 in.

Weight 9.1 Water Loss 8.0 cc. Drill Pipe Length 2987 I. D. 3.8 in.

Chlorides 55,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 00 in.

Jars: Make Serial Number Anchor Length 30 ft. Size 5 1/2 00 in.

Did Well Flow? No Reversed Out Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

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

Blow: TFP - slowly increasing 2" blow during period -

FFP - increasing to 9 1/2" good blow during period -

Recovered 30' ft. of Muddy Water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used 1 Remarks: Diesel fuel was used in Blow Bucket.

Time On Location 2:00 A.M. Time Pick Up Tool 2:20 P.M. Time Off Location 9:10 A.M.

Time Set Packer(s) 3:30 P.M. Time Started Off Bottom 7:15 A.M. Maximum Temperature 107 P.M.

Initial Hydrostatic Pressure (A) 1850 P.S.I.

Initial Flow Period Minutes 15 (B) 37 P.S.I. to (C) 37 P.S.I.

Initial Closed In Period Minutes 30 (D) 100 P.S.I.

Final Flow Period Minutes 60 (E) 37 P.S.I. to (F) 37 P.S.I.

Final Closed In Period Minutes 120 (G) 300 P.S.I.

Final Hydrostatic Pressure (H) 1838 P.S.I.

COMPANY TERMS

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All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By K W Johnson Signature of Customer or his authorized representative

Western Representative Gene Eberhart 0500

FIELD INVOICE

Table with 2 columns: Item and Amount. Items include Open Hole Test (\$550), Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, and TOTAL.

WESTERN TESTING CO., INC.

Pressure Data

Date: 2/5/85 Test Ticket No. 7614  
 Recorder No. 6077 Capacity \_\_\_\_\_ Location \_\_\_\_\_ Ft \_\_\_\_\_  
 Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F \_\_\_\_\_

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1844</u> P.S.I.			M
B First Initial Flow Pressure	<u>39</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	
C First Final Flow Pressure	<u>39</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	
D Initial Closed-in Pressure	<u>103</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	
E Second Initial Flow Pressure	<u>37</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	
F Second Final Flow Pressure	<u>37</u> P.S.I.			
G Final Closed-in Pressure	<u>284</u> P.S.I.			
H Final Hydrostatic Mud	<u>1827</u> P.S.I.			

PRESSURE BREAKDOWN

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

Initial Shut-In  
 Breakdown: 11 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

Second Flow Pressure  
 Breakdown: 13 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

Final Shut-In  
 Breakdown: 41 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>39</u>	0	<u>39</u>	0	<u>37</u>	0	<u>37</u>
P 2 5	<u>39</u>	3	<u>39</u>	5		3	<u>42</u>
P 3 10	<u>39</u>	6	<u>44</u>	10		6	<u>47</u>
P 4 15		9	<u>50</u>	15		9	<u>54</u>
P 5 20		12	<u>58</u>	20		12	<u>63</u>
P 6 25		15	<u>64</u>	25		15	<u>73</u>
P 7 30		18	<u>60</u>	30		18	<u>81</u>
P 8 35		21	<u>75</u>	35		21	<u>90</u>
P 9 40		24	<u>83</u>	40		24	<u>99</u>
P10 45		27	<u>91</u>	45		27	<u>108</u>
P11 50		30	<u>103</u>	50		30	<u>115</u>
P12 55		33		55		33	<u>124</u>
P13 60		36		60	<u>37</u>	36	<u>130</u>
P14 65		39		65		39	<u>139</u>
P15 70		42		70		42	<u>148</u>
P16 75		45		75		45	<u>154</u>
P17 80		48		80		48	<u>163</u>
P18 85		51		85		51	<u>169</u>
P19 90		54		90		54	<u>175</u>
P20 95		57		95		57	<u>183</u>
100		60		100		60	<u>189</u>

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date \_\_\_\_\_ Test Ticket No. \_\_\_\_\_  
 Recorder No. \_\_\_\_\_ Capacity \_\_\_\_\_ Location \_\_\_\_\_ Ft  
 Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	P.S.I.	Open Tool	_____ M	_____
B. First Initial Flow Pressure	P.S.I.	First Flow Pressure	_____ Mins.	_____ Min.
C. First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	_____ Mins.	_____ Min.
D. Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	_____ Mins.	_____ Min.
E. Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	_____ Mins.	_____ Min.
F. Second Final Flow Pressure	P.S.I.			
G. Final Closed-in Pressure	P.S.I.			
H. Final Hydrostatic Mud	P.S.I.			

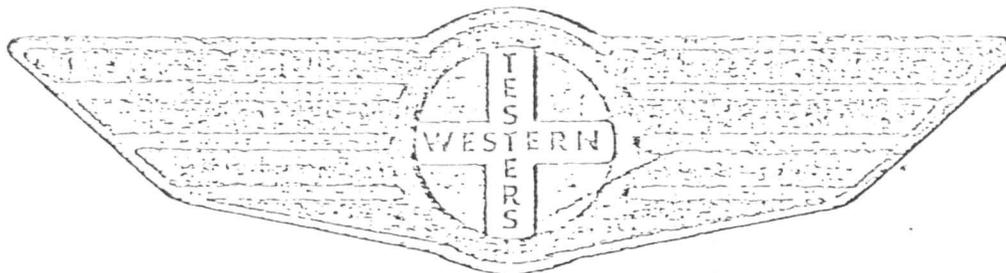
**PRESSURE BREAKDOWN**

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.							
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 105	_____	63	_____	105	_____	63	196
P 2 110	_____	66	_____	110	_____	66	203
P 3 115	_____	69	_____	115	_____	69	210
P 4 120	_____	72	_____	120	_____	72	216
P 5 125	_____	75	_____	125	_____	75	222
P 6 130	_____	78	_____	130	_____	78	228
P 7 135	_____	81	_____	135	_____	81	233
P 8 140	_____	84	_____	140	_____	84	237
P 9 145	_____	87	_____	145	_____	87	240
P10 150	_____	90	_____	150	_____	90	245
P11 155	_____	93	_____	155	_____	93	<del>250</del> 249
P12 160	_____	96	_____	160	_____	96	<del>254</del> 253
P13 165	_____	99	_____	165	_____	99	<del>258</del> 257
P14 170	_____	102	_____	170	_____	102	<del>263</del> 262
P15 175	_____	105	_____	175	_____	105	266
P16 180	_____	108	_____	180	_____	108	270
P17 185	_____	111	_____	185	_____	111	274
P18 190	_____	114	_____	190	_____	114	278
P19 195	_____	117	_____	195	_____	117	281
P20 200	_____	120	_____	200	_____	120	284

# FORMATION

## TEST

### REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING COMPANY INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 2/5/85  
CUSTOMER: PETROLEUM INC.  
WELL: #3 TEST: 2  
ELEVATION (KB): 1819 FORMATION: KANSAS CITY  
SECTION: 35 TOWNSHIP: 21S  
RANGE: 12W COUNTY: STAFFORD STATE: KANSAS  
GAUGE SN #6077 RANGE: 4700 CLOCK: 12

TICKET #7614  
LEASE: TEICHMANN 'D'  
GEOLOGIST: JOHNSON

INTERVAL TEST FROM: 3390 FT TO: 3420 FT TOTAL DEPTH: 3420 FT  
DEPTH OF SELECTIVE ZONE: FT  
PACKER DEPTH: 3385 FT SIZE: 6 5/8 IN PACKER DEPTH: 3390 FT SIZE: 6 5/8 IN  
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: W-I  
MUD TYPE: STARCH VISCOSITY: 46  
WEIGHT: 9.7 WATER LOSS (CC): 8.0  
CHLORIDES (P.P.M.): 55000  
JARS - MAKE: SERIAL NUMBER:  
DID WELL FLOW? NO REVERSED OUT?  
DRILL COLLAR LENGTH: FT I.D.: IN  
WEIGHT PIPE LENGTH: 382 FT I.D.: 2.7 IN  
DRILL PIPE LENGTH: 2987 FT I.D.: 3.8 IN  
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 O.D. IN  
ANCHOR LENGTH: 30 FT SIZE: 5 1/2 O.D. IN  
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN  
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 XH IN

BLOW: INITIAL FLOW PERIOD SLOWLY INCREASING  
2" BLOW. FINAL FLOW PERIOD INCREASING  
TO 9 1/2" GOOD BLOW.

RECOVERED: 30 FT OF: MUDDY WATER.  
RECOVERED: FT OF:  
RECOVERED: FT OF:

REMARKS: DIESEL FUEL WAS USED IN BLOW BUCKET.

TIME SET PACKER(S): 3:30 P.M. TIME STARTED OFF BOTTOM: 7:15 P.M.  
WELL TEMPERATURE: 107 °F  
INITIAL HYDROSTATIC PRESSURE: (A) 1844 PSI  
INITIAL FLOW PERIOD MIN: 15 (B) 39 PSI TO (C) 39 PSI  
INITIAL CLOSED IN PERIOD MIN: 30 (D) 103 PSI  
FINAL FLOW PERIOD MIN: 60 (E) 37 PSI TO (F) 37 PSI  
FINAL CLOSED IN PERIOD MIN: 120 (G) 284 PSI  
FINAL HYDROSTATIC PRESSURE (H) 1827 PSI

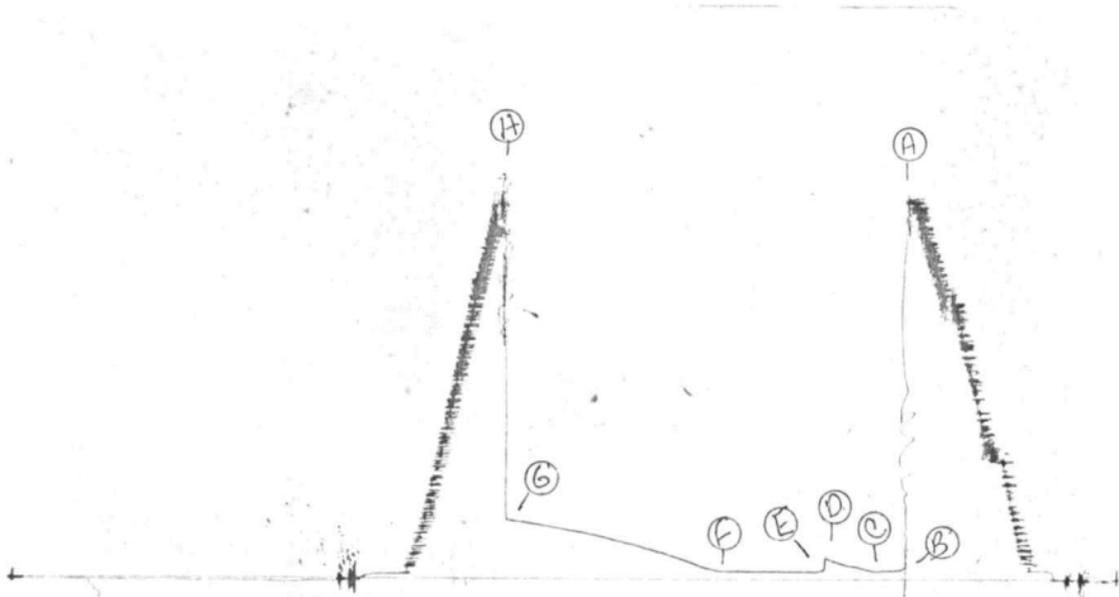




6077-2

TRT # 7614

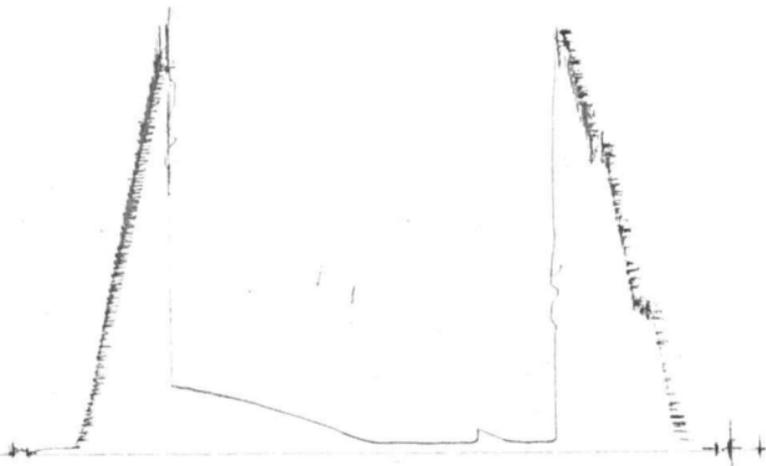
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11028-2

TRT # 7614

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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO: 7615

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

Elevation 1819KB Formation Arb. Eff. Pay Ft.

District Great Bend Date 2/6/85 Customer Order No.

COMPANY NAME Petroleum Inc

ADDRESS 800 Garvey Bldg, 300 West Douglas Wichita, Ks 67202

LEASE AND WELL NO. #3 Teichman D COUNTY Stafford STATE Ks Sec. 35 Twp 21 Rge. 12W

Mail Invoice To Same No. Copies Requested 5

Co. Name #3 D TEICHMANN Address No. Copies Requested 5

Formation Test No. 3 Interval Tested From 3555 ft. to 3578 ft. Total Depth 3528 ft.

Packer Depth 3550 ft. Size 6 3/8 in. Packer Depth 3555 ft. Size 6 3/8 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3570 ft. Recorder Number 4800 Cap.

Bottom Recorder Depth (Outside) 3573 ft. Recorder Number 6077 Cap. 4700

Below Saddle Recorder Depth ft. Recorder Number 11028 Cap. 43

Drilling Contractor Woodman Jarrish, Inc. Drill Collar Length I. D. in.

Mud Type Starch Viscosity 46 Weight Pipe Length 382 I. D. 2.7 in.

Weight 9.8 Water Loss 9.8 Drill Pipe Length 3152 I. D. 3.8 in.

Chlorides 53,000 P.P.M. Test Tool Length 21 ft. Tool Size 5.500 in.

Jars: Make Serial Number Anchor Length 23 ft. Size 5.500 in.

Did Well Flow? no Reversed Out no Surface Choke Size 3/4 in. Bottom Choke Size 3/8 in.

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

Blow: Strong off Bottom of Bucking during 1st min of period

Strong blow throughout run period

Recovered 970' ft. of frothy oil - no water 28% Gas - 72% oil

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used Remarks GTS in 32 min of 2nd opening

Diesel was used in Blow bucket

Time On Location 3:10 A.M. Time Pick Up Tool 3:40 P.M. Time Off Location 12:40 A.M.

Time Set Packer(s) 4:55 A.M. Time Started Off Bottom 8:45 P.M. Maximum Temperature 108+

Initial Hydrostatic Pressure (A) 1947 P.S.I.

Initial Flow Period Minutes 15 (B) 100 P.S.I. to (C) 125 P.S.I.

Initial Closed In Period Minutes 30 (D) 1164 P.S.I.

Final Flow Period Minutes 60 (E) 187 P.S.I. to (F) 337 P.S.I.

Final Closed In Period Minutes 120 (G) 1164 P.S.I.

Final Hydrostatic Pressure (H) 1947 P.S.I.

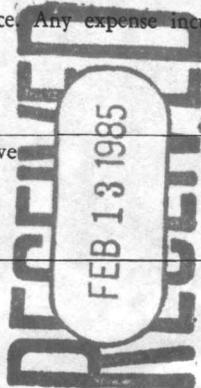
COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By: [Signature] Signature of Customer or his authorized representative

Western Representative: [Signature] 0500



FIELD INVOICE

Table with 2 columns: Item and Price. Items include Open Hole Test (\$550), Mistun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, and TOTAL.



No 5635

GAS FLOW REPORT

Date 2/6/85 Ticket 7615 Company Petroleum Inc  
 Well Name and No. #13 Trechman 'D' Dst No. 3 Interval Tested 3555-3578  
 County Stafford State Ks Sec. 35 Twp. 21 Rg. 12

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
<del>PRE FLOW</del>					

SECOND FLOW

GTS in 32 min of 2nd opening

40 min	4" H <sub>2</sub> O	1/8"			1,060 CFPD
50 min	5" H <sub>2</sub> O	1/8"			1,180 "
60 min	"	1/8"			1,180 "

GAS BOTTLE

Serial No. 101 Date Bottle Filled 2/6/85 Date to be Invoiced 3-8/85

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1 1/2% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Petroleum Inc.  
 Authorized by R W Johnson

WESTERN TESTING CO., INC.

Pressure Data

Date 2/16/85 Test Ticket No. 7615  
 Recorder No. 6077 Capacity \_\_\_\_\_ Location \_\_\_\_\_ Ft \_\_\_\_\_  
 Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1947</u> P.S.I.	_____ M		
B First Initial Flow Pressure	<u>100</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	_____ Min.
C First Final Flow Pressure	<u>127</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	_____ Min.
D Initial Closed-in Pressure	<u>1164</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	_____ Min.
E Second Initial Flow Pressure	<u>173</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	_____ Min.
F Second Final Flow Pressure	<u>339</u> P.S.I.			
G Final Closed-in Pressure	<u>1152</u> P.S.I.			
H Final Hydrostatic Mud	<u>1947</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>4</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>11</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>13</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>41</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.			
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.		
P 1	<u>0</u>	<u>0</u>	<u>100</u>	<u>0</u>	<u>127</u>	<u>0</u>	<u>173</u>	<u>0</u>	<u>339</u>
P 2	<u>5</u>	<u>3</u>	<u>103</u>	<u>3</u>	<u>1026</u>	<u>5</u>	<u>173</u>	<u>3</u>	<u>971</u>
P 3	<u>10</u>	<u>6</u>	<u>108</u>	<u>6</u>	<u>1092 + 209</u>	<u>10</u>	<u>173</u>	<u>6</u>	<u>1005</u>
P 4	<u>15</u>	<u>9</u>	<u>127</u>	<u>9</u>	<u>1118</u>	<u>15</u>	<u>196</u>	<u>9</u>	<u>1023</u>
P 5	<u>20</u>	<u>12</u>		<u>12</u>	<u>1130</u>	<u>20</u>	<u>218</u>	<u>12</u>	<u>1037</u>
P 6	<u>25</u>	<u>15</u>		<u>15</u>	<u>1140</u>	<u>25</u>	<u>239</u>	<u>15</u>	<u>1049</u>
P 7	<u>30</u>	<u>18</u>		<u>18</u>	<u>1147</u>	<u>30</u>	<u>243</u>	<u>18</u>	<u>1057</u>
P 8	<u>35</u>	<u>21</u>		<u>21</u>	<u>1152</u>	<u>35</u>	<u>257</u>	<u>21</u>	<u>1066</u>
P 9	<u>40</u>	<u>24</u>		<u>24</u>	<u>1157</u>	<u>40</u>	<u>276</u>	<u>24</u>	<u>1070</u>
P10	<u>45</u>	<u>27</u>		<u>27</u>	<u>1161</u>	<u>45</u>	<u>294</u>	<u>27</u>	<u>1075</u>
P11	<u>50</u>	<u>30</u>		<u>30</u>	<u>1164</u>	<u>50</u>	<u>310</u>	<u>30</u>	<u>1080</u>
P12	<u>55</u>	<u>33</u>		<u>33</u>		<u>55</u>	<u>328</u>	<u>33</u>	<u>1085</u>
P13	<u>60</u>	<u>36</u>		<u>36</u>		<u>60</u>	<u>339</u>	<u>36</u>	<u>1090</u>
P14	<u>65</u>	<u>39</u>		<u>39</u>		<u>65</u>		<u>39</u>	<u>1095</u>
P15	<u>70</u>	<u>42</u>		<u>42</u>		<u>70</u>		<u>42</u>	<u>1100</u>
P16	<u>75</u>	<u>45</u>		<u>45</u>		<u>75</u>		<u>45</u>	<u>1105</u>
P17	<u>80</u>	<u>48</u>		<u>48</u>		<u>80</u>		<u>48</u>	<u>1109</u>
P18	<u>85</u>	<u>51</u>		<u>51</u>		<u>85</u>		<u>51</u>	<u>1112</u>
P19	<u>90</u>	<u>54</u>		<u>54</u>		<u>90</u>		<u>54</u>	<u>1114</u>
P20	<u>95</u>	<u>57</u>		<u>57</u>		<u>95</u>		<u>57</u>	<u>1116</u>
	<u>100</u>	<u>60</u>		<u>60</u>		<u>100</u>		<u>60</u>	<u>1118</u>

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date \_\_\_\_\_

Test Ticket No. 7615

Recorder No. \_\_\_\_\_ Capacity \_\_\_\_\_ Location \_\_\_\_\_ Ft

Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud _____	P.S.I.	Open Tool	_____ M	_____
B First Initial Flow Pressure _____	P.S.I.	First Flow Pressure	_____ Mins.	_____ Mins
C First Final Flow Pressure _____	P.S.I.	Initial Closed-in Pressure	_____ Mins.	_____ Mins
D Initial Closed-in Pressure _____	P.S.I.	Second Flow Pressure	_____ Mins.	_____ Mins
E Second Initial Flow Pressure _____	P.S.I.	Final Closed-in Pressure	_____ Mins.	_____ Mins
F Second Final Flow Pressure _____	P.S.I.			
G Final Closed-in Pressure _____	P.S.I.			
H Final Hydrostatic Mud _____	P.S.I.			

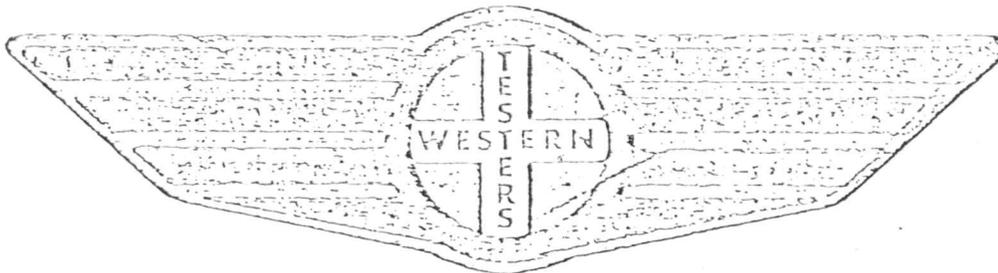
**PRESSURE BREAKDOWN**

First Flow Pressure Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 105		63		105		63	1120
P 2 110		66		110		66	1122
P 3 115		69		115		69	1124
P 4 120		72		120		72	1126
P 5 125		75		125		75	1128
P 6 130		78		130		78	1130
P 7 135		81		135		81	1132
P 8 140		84		140		84	1134
P 9 145		87		145		87	1136
P10 150		90		150		90	1138
P11 155		93		155		93	1140
P12 160		96		160		96	1142
P13 165		99		165		99	1144
P14 170		102		170		102	1146
P15 175		105		175		105	1148
P16 180		108		180		108	1149
P17 185		111		185		111	1150
P18 190		114		190		114	1151
P19 195		117		195		117	1152
P20 200		120		200		120	1152

# FORMATION

# TEST

# REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company PETROLEUM, INC. Lease and Well No. #3 "D" TEICHMANN Sec. 35 Twp. 21S Rge. 12W Test No. 3 Date 2/6/81

WESTERN TESTING COMPANY INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 2/6/85 TICKET #7615  
CUSTOMER: PETROLEUM INC. LEASE: TEICHMANN 'D'  
WELL: #3 TEST: 3 GEOLOGIST: JOHNSON  
ELEVATION (KB): 1819 FORMATION: ARBUCKLE  
SECTION: 35 TOWNSHIP: 21S  
RANGE: 12W COUNTY: STAFFORD STATE: KANSAS  
GAUGE SN #6077 RANGE: 4700 CLOCK: 12

INTERVAL TEST FROM: 3555 FT TO: 3578 FT TOTAL DEPTH: 3578 FT  
DEPTH OF SELECTIVE ZONE: FT  
PACKER DEPTH: 3550 FT SIZE: 6 5/8 IN PACKER DEPTH: 3555 FT SIZE: 6 5/8 IN  
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: W-1  
MUD TYPE: STARCH VISCOSITY: 46  
WEIGHT: 9.8 WATER LOSS (CC): 9.8  
CHLORIDES (P.P.M.): 53000  
JARS - MAKE: SERIAL NUMBER:  
DID WELL FLOW? NO REVERSED OUT? NO  
DRILL COLLAR LENGTH: FT I.D.: IN  
WEIGHT PIPE LENGTH: 382 FT I.D.: 2.7 IN  
DRILL PIPE LENGTH: 3152 FT I.D.: 3.8 IN  
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 O.D. IN  
ANCHOR LENGTH: 23 FT SIZE: 5 1/2 O.D. IN  
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN  
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 XH IN

BLOW: INITIAL FLOW PERIOD STRONG OFF BOTTOM OF  
BUCKET BLOW. FINAL FLOW PERIOD STRONG  
BLOW THROUGHOUT.

RECOVERED: 970 FT OF: FROTHY OIL; NO WATER.  
RECOVERED: FT OF: 28% GAS; 72% OIL.  
RECOVERED: FT OF:  
RECOVERED: FT OF:

REMARKS: GAS TO SURFACE IN 32 MINUTES ON  
FINAL FLOW PERIOD. DIESEL WAS USED  
IN BLOW BUCKET.

TIME SET PACKER(S): 4:55 P.M. TIME STARTED OFF BOTTOM: 8:45 P.M.

WELL TEMPERATURE: 108 °F  
INITIAL HYDROSTATIC PRESSURE: (A) 1947 PSI  
INITIAL FLOW PERIOD MIN: 15 (B) 100 PSI TO (C) 127 PSI  
INITIAL CLOSED IN PERIOD MIN: 30 (D) 1164 PSI  
FINAL FLOW PERIOD MIN: 60 (E) 173 PSI TO (F) 339 PSI  
FINAL CLOSED IN PERIOD MIN: 120 (G) 1152 PSI  
FINAL HYDROSTATIC PRESSURE (H) 1947 PSI





WESTERN TESTING COMPANY INC.  
GAS FLOW REPORT

DATE: 2/6/85  
CUSTOMER: PETROLEUM INC.  
WELL: #3  
ELEVATION (KB): 1819  
SECTION: 35  
RANGE: 12W  
GAUGE SN #6077

TEST: 3  
FORMATION: ARBUCKLE  
TOWNSHIP: 21S  
COUNTY: STAFFORD  
RANGE: 4700

TICKET #7615  
LEASE: TEICHMANN 'D'  
GEOLOGIST: JOHNSON  
STATE: KANSAS  
CLOCK: 12

TIME GAUGE (MIN)	TESTER TYPE	ORIFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
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PRE FLOW

SECOND FLOW

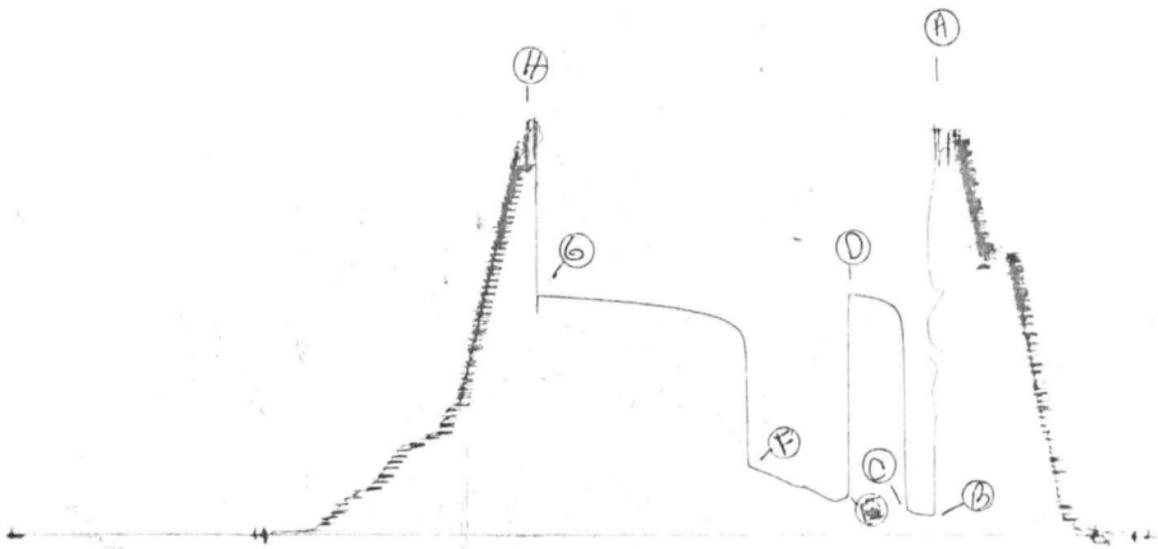
40	MERLA	1/8	4" WTR	1060 CFPD
50		"	5" WTR	1180 " "
60		"	5" WTR	1180 " "

GAS BOTTLE SN #: 101  
DATE BOTTLE FILLED: 2/6/85  
DATE TO BE INVOICED: 2/13/85

6011

TKT # 7615

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TKT #7615

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