



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N° 10965

P. O. BOX 1599 WICHITA, KANSAS 67201

Elevation 2240 G.L Formation Douglas Sand Eff. Pay Ft.

District Pratt Date 10/27/85 Customer Order No.

COMPANY NAME Petroleum Inc

ADDRESS 300 W Douglas #800

LEASE AND WELL NO. Gobin 'C' #10 COUNTY Kiowa STATE KS Sec. 13 Twp. 29 Rge. 18U

Mail Invoice To Same #1 GOBIN 'C' Co. Name Address No. Copies Requested 5

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. Interval Tested From 4165 ft. to 4202 ft. Total Depth 4202 ft.

Packer Depth 4160 ft. Size 6 5/8 in. Packer Depth = ft. Size = in.

Packer Depth 4165 ft. Size 6 5/8 in. Packer Depth = ft. Size = in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4192 ft. Recorder Number 3086 Cap. 4500

Bottom Recorder Depth (Outside) 4195 ft. Recorder Number 13552 Cap. 4050

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Mustang Rig #1 Drill Collar Length 120 I. D. 2 1/4 in.

Mud Type Chemical Viscosity 42 Weight Pipe Length I. D. in.

Weight 9.2 Water Loss 10.8 cc. Drill Pipe Length 4019 I. D. 3.8 in.

Chlorides 10,000 P.P.M. Test Tool Length 26 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 408 Anchor Length 37 ft. Size 5 1/2 in.

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

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

Blow: Weak blow throughout first flow period. Weak blow died in 20 min on second flow.

Recovered 40 ft. of Drlg Mud

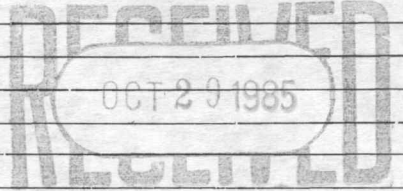
Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used Remarks:



Time On Location 10:00 A.M. Time Pick Up Tool 12:30 P.M. Time Off Location 5:30 P.M.

Time Set Packer(s) 1:40 P.M. Time Started Off Bottom 3:25 P.M. Maximum Temperature 116°

Initial Hydrostatic Pressure (A) 2107 P.S.I.

Initial Flow Period Minutes 15 (B) 35 P.S.I. to (C) 35 P.S.I.

Initial Closed In Period Minutes 30 (D) 1299 P.S.I.

Final Flow Period Minutes 30 (E) 59 P.S.I. to (F) 59 P.S.I.

Final Closed In Period Minutes 30 (G) 1125 P.S.I.

Final Hydrostatic Pressure (H) 2084 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] 2376

FIELD INVOICE

Table with 2 columns: Item, Amount. Items include Open Hole Test, 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 10-27

Test Ticket No. 10965

Recorder No. 3086

Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

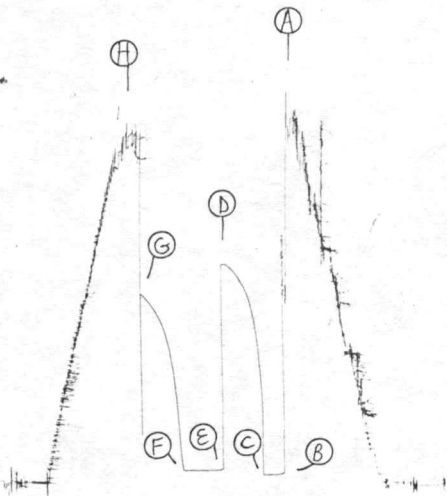
Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2121</u> P.S.I.			
B First Initial Flow Pressure	<u>32</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>32</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>1309</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>58</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>58</u> P.S.I.			
G Final Closed-in Pressure	<u>1132</u> P.S.I.			
H Final Hydrostatic Mud	<u>2069</u> P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	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>12</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>7</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>12</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1 0	<u>32</u>	0	<u>32</u>	0	<u>58</u>	0	<u>58</u>	0
P 2 5	<u>32</u>	3	<u>639</u>	3		3	<u>284</u>	3
P 3 10	<u>32</u>	6	<u>877</u>	6		6	<u>521</u>	6
P 4 15	<u>32</u>	9	<u>1012</u>	9		9	<u>697</u>	9
P 5 20		12	<u>1095</u>	12		12	<u>830</u>	12
P 6 25		15	<u>1153</u>	15		15	<u>907</u>	15
P 7 30		18	<u>1197</u>	18	<u>58</u>	18	<u>970</u>	18
P 8 35		21	<u>1238</u>	21		21	<u>1016</u>	21
P 9 40		24	<u>1269</u>	24		24	<u>1051</u>	24
P10 45		27	<u>1293</u>	27		27	<u>1081</u>	27
P11 50		30	<u>1309</u>	30		30	<u>1109</u>	30
P12 55		33	<u>1309</u>	33		33	<u>1132</u>	33
P13 60		36		36		36		36
P14 65		39		39		39		39
P15 70		42		42		42		42
P16 75		45		45		45		45
P17 80		48		48		48		48
P18 85		51		51		51		51
P19 90		54		54		54		54
P20 95		57		57		57		57
100		60		60		60		60

TKT # 10965

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TKT # 10965

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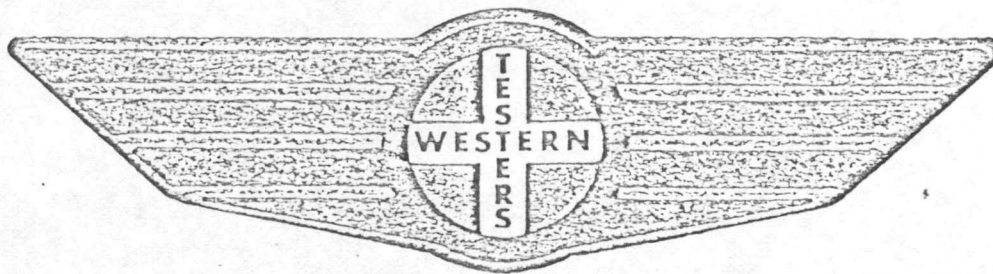


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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company PETROLEUM, INC. Lease & Well No. #1 GOBIN "C" Sec. 13 Twp. 29S Rge. 18W Test No. 1 Date 10/27/85

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 10-27-85
CUSTOMER: PETROLEUM INC.
WELL: 1
ELEVATION (KB): 2245
SECTION: 13
RANGE: 18W
GAUGE SN #3086

TEST: 1
FORMATION: DOUGLAS SAND
TOWNSHIP: 29S
COUNTY: KIOWA
RANGE: 4500

TICKET #10965
LEASE: GOBIN "C"
GEOLOGIST: K.W. JOHNSON
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 4165 FT TO: 4202 FT TOTAL DEPTH: 4202 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4160 FT SIZE: 6 5/8 IN PACKER DEPTH: 4165 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: MUSTANG DRLG. RIG #1
MUD TYPE: CHEMICAL VISCOSITY: 42
WEIGHT: 9.2 WATER LOSS (CC): 10.8
CHLORIDES (P.P.M.): 10000
JARS - MAKE: WTC SERIAL NUMBER: 408
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 120 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4019 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 26 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 37 FT SIZE: 5 1/2 OD 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 FH IN

BLOW: INITIAL FLOW PERIOD WEAK BLOW THROUGHOUT.
FINAL FLOW PERIOD WEAK BLOW; DIED
IN 20 MINUTES.

RECOVERED: 40 FT OF: DRILLING MUD.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 1:40 PM TIME STARTED OFF BOTTOM: 3:25 PM
WELL TEMPERATURE: 116 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2121 PSI
INITIAL FLOW PERIOD MIN: 15 (B) 32 PSI TO (C) 32 PSI
INITIAL CLOSED IN PERIOD MIN: 33 (D) 1309 PSI
FINAL FLOW PERIOD MIN: 30 (E) 58 PSI TO (F) 58 PSI
FINAL CLOSED IN PERIOD MIN: 33 (G) 1132 PSI
FINAL HYDROSTATIC PRESSURE (H) 2069 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N° 10966

OK

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

Elevation 2240 G.L. Formation Lansing Eff. Pay Ft.

District Pratt Date 10/28/85 Customer Order No.

COMPANY NAME Petroleum Inc

ADDRESS 300 W. Douglas #800 Wichita 67202

LEASE AND WELL NO. Gobin 'C' #1 COUNTY Kiowa STATE KS Sec. 13 Twp 29 Rge. 18W

Mail Invoice To Same #1 Gobin 'C' No. Copies Requested 5

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 2 Interval Tested From 4313 ft. to 4325 ft. Total Depth 4325 ft.

Packer Depth 4308 ft. Size 6 7/8 in. Packer Depth - ft. Size - in.

Packer Depth 4313 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4315 ft. Recorder Number 3086 Cap. 4500

Bottom Recorder Depth (Outside) 4318 ft. Recorder Number 13552 Cap. 4050

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

Drilling Contractor Mustang Rig #1 Drill Collar Length 120 I. D. 2 1/4 in.

Mud Type Chemical Viscosity 51 Weight Pipe Length - I. D. - in.

Weight 9.2 Water Loss 9.2 cc. Drill Pipe Length 4172 I. D. 3.8 in.

Chlorides 10,000 P.P.M. Test Tool Length 21 ft. Tool Size 5/200 in.

Jars: Make No Serial Number No Anchor Length 12 ft. Size 5/200 in.

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

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

Blow: Strong blow throughout flow periods

Recovered 1800 ft. of Gas in Pipe

Recovered 605 ft. of Gas Cut Mud

Recovered 1 ft. of Distillate

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used Remarks:

Time On Location 4:30 A.M. Time Pick Up Tool 6:00 A.M. Time Off Location 1:30 P.M.

Time Set Packer(s) 7:40 P.M. Time Started Off Bottom 11:25 P.M. Maximum Temperature 117°

Initial Hydrostatic Pressure (A) 214 P.S.I.

Initial Flow Period Minutes 15 (B) 23 P.S.I. to (C) 23 P.S.I.

Initial Closed In Period Minutes 30 (D) 648 P.S.I.

Final Flow Period Minutes 60 (E) 23 P.S.I. to (F) 35 P.S.I.

Final Closed In Period Minutes 120 (G) 811 P.S.I.

Final Hydrostatic Pressure (H) 2119 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] 2376

FIELD INVOICE

Table with 2 columns: Item, Amount. Items include Open Hole Test, 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 10-28-85 Test Ticket No. 10966
 Recorder No. 3086 Capacity 4500 Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature 117 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2139</u>	P.S.I.	<u>7:40 A</u>	<u>11:25 A</u>
B First Initial Flow Pressure	<u>31</u>	P.S.I.	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>21</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	21 <u>653</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>39</u>	P.S.I.	<u>120</u> Mins.	<u>120</u> Mins.
F Second Final Flow Pressure	<u>32</u>	P.S.I.		
G Final Closed-in Pressure	<u>816</u>	P.S.I.		
H Final Hydrostatic Mud	<u>3121</u>	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>31</u>	0	<u>31</u>	0	<u>39</u>	0	<u>32</u>
P 2 5	<u>1</u>	3	<u>301</u>	5		3	<u>106</u>
P 3 10	<u>1</u>	6	<u>289</u>	10		6	<u>152</u>
P 4 15	<u>21</u>	9	<u>364</u>	15		9	<u>194</u>
P 5 20		12	<u>418</u>	20		12	<u>234</u>
P 6 25		15	<u>473</u>	25		15	<u>270</u>
P 7 30		18	<u>510 (510)</u>	30	<u>29</u>	18	<u>303</u>
P 8 35		21	<u>549</u>	35	<u>1</u>	21	<u>331</u>
P 9 40		24	<u>584</u>	40	<u>1</u>	24	<u>362</u>
P10 45		27	<u>614</u>	45	<u>29</u>	27	<u>386</u>
P11 50		30	<u>653</u>	50	<u>30</u>	30	<u>408</u>
P12 55		33		55	<u>31</u>	33	<u>431</u>
P13 60		36		60	<u>32</u>	36	<u>450</u>
P14 65		39		65		39	<u>472</u>
P15 70		42		70		42	<u>493</u>
P16 75		45		75		45	<u>510</u>
P17 80		48		80		48	<u>528</u>
P18 85		51		85		51	<u>544</u>
P19 90		54		90		54	<u>558</u>
P19 95		57		95		57	<u>575</u>
P20 100		60		100		60	<u>592</u>

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WESTERN TESTING CO., INC.
Pressure Data

Date _____

Test Ticket No. 10966

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.			

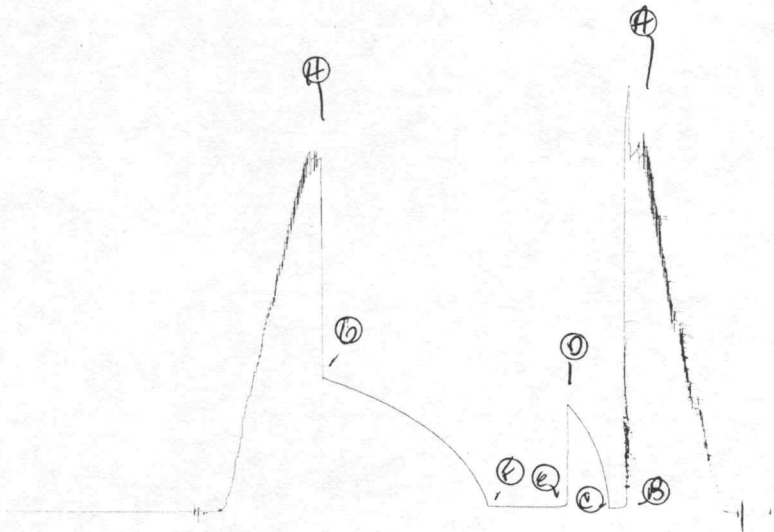
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 105	_____	63	_____	105	_____	63	<u>606</u>
P 2 110	_____	66	_____	110	_____	66	<u>618</u>
P 3 115	_____	69	_____	115	_____	69	<u>634</u>
P 4 120	_____	72	_____	120	_____	72	<u>647</u>
P 5 125	_____	75	_____	125	_____	75	<u>660</u>
P 6 130	_____	78	_____	130	_____	78	<u>672</u>
P 7 135	_____	81	_____	135	_____	81	<u>683</u>
P 8 140	_____	84	_____	140	_____	84	<u>695</u>
P 9 145	_____	87	_____	145	_____	87	<u>706</u>
P10 150	_____	90	_____	150	_____	90	<u>718</u>
P11 155	_____	93	_____	155	_____	93	<u>730</u>
P12 160	_____	96	_____	160	_____	96	<u>741</u>
P13 165	_____	99	_____	165	_____	99	<u>751</u>
P14 170	_____	102	_____	170	_____	102	<u>760</u>
P15 175	_____	105	_____	175	_____	105	<u>770</u>
P16 180	_____	108	_____	180	_____	108	<u>780</u>
P17 185	_____	111	_____	185	_____	111	<u>788</u>
P18 190	_____	114	_____	190	_____	114	<u>797</u>
P19 195	_____	117	_____	195	_____	117	<u>806</u>
P20 200	_____	120	_____	200	_____	120	<u>816</u>

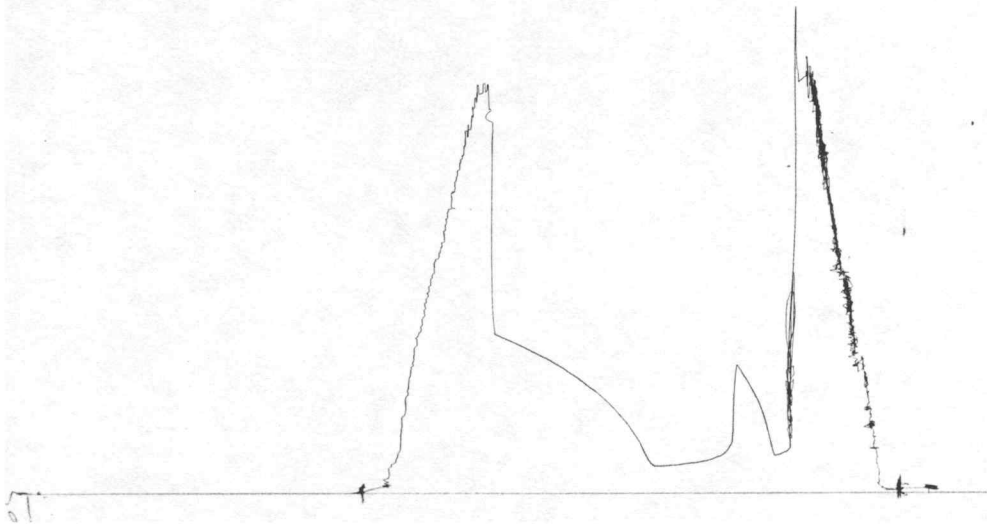
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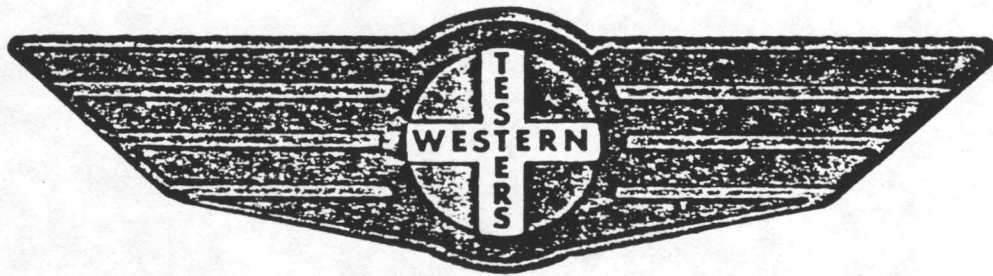
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JK # 10966
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 10-28-85
CUSTOMER: PETROLEUM INC.
WELL: 1
ELEVATION (KB): 2245
SECTION: 13
RANGE: 18W
GAUGE SN #3086

TEST: 2
FORMATION: LANSING
TOWNSHIP: 29S
COUNTY: KIOWA
RANGE: 4500

TICKET #10966
LEASE: GOBIN "C"
GEOLOGIST: K.W. JOHNSON
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 4313 FT TO: 4325 FT TOTAL DEPTH: 4325 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4308 FT SIZE: 6 5/8 IN PAKER DEPTH: 4313 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PAKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: MUSTANG DRLG. RIG #1
MUD TYPE: CHEMICAL VISCOSITY: 51
WEIGHT: 9.2 WATER LOSS (CC): 9.2
CHLORIDES (P.P.M.): 10000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 120 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4172 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 12 FT SIZE: 5 1/2 OD 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 FH IN

BLOW: STRONG BLOW THROUGHOUT TEST.

RECOVERED: 1800 FT OF: GAS ABOVE FLUID.
RECOVERED: 65 FT OF: GAS CUT MUD.
RECOVERED: 1 FT OF: DISTILLATE.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 7:40 AM TIME STARTED OFF BOTTOM: 11:25 AM
WELL TEMPERATURE: 117 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2139 PSI
INITIAL FLOW PERIOD MIN: 15 (B) 21 PSI TO (C) 21 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 653 PSI
FINAL FLOW PERIOD MIN: 60 (E) 29 PSI TO (F) 32 PSI
FINAL CLOSED IN PERIOD MIN: 120 (G) 816 PSI
FINAL HYDROSTATIC PRESSURE (H) 2121 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 10967 ^{OK}

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

Elevation 2240 G.L Formation Miss Eff. Pay Ft.

District Pratt Date 10/30/85 Customer Order No.

COMPANY NAME Petroleum Inc. ADDRESS 300 W. Douglas #800

LEASE AND WELL NO. Gobin C #1 COUNTY Kiowa STATE KS Sec. 13 Twp. 29 Rge. 18W

Mail Invoice To Same Co. Name No. Copies Requested 5

Mail Charts To Same #1 Gobin C Address No. Copies Requested 5

Formation Test No. 3 Interval Tested From 4907 ft. to 4916 ft. Total Depth 4916 ft.
Packer Depth 4902 ft. Size 6 5/8 in. Packer Depth = ft. Size = in.
Packer Depth 4907 ft. Size 6 5/8 in. Packer Depth = ft. Size = in.

Depth of Selective Zone Set
Top Recorder Depth (Inside) 4908 ft. Recorder Number 3086 Cap. 4500
Bottom Recorder Depth (Outside) 4911 ft. Recorder Number 13552 Cap. 4050
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Mustang Rig #1 Drill Collar Length 120 I. D. 2 1/4 in.
Mud Type Chemical Viscosity 43 Weight Pipe Length - I. D. - in.
Weight 9.3 Water Loss 8.8 cc. Drill Pipe Length 4766 I. D. 3.8 in.
Chlorides 10,800 P.P.M. Test Tool Length 21 ft. Tool Size 5/200 in.
Jars: Make No Serial Number No Anchor Length 9 ft. Size 5600 in.
Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Weak blow throughout first flow
Weak blow died in 20 min on second flow
Recovered 10 ft. of Thick Dng Mud

Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Chlorides P.P.M. Sample Jars used Remarks:

Time On Location 8:00 A.M. Time Pick Up Tool 9:00 P.M. Time Off Location A.M.
Time Set Packer(s) 10:30 A.M. Time Started Off Bottom 12:15 P.M. Maximum Temperature 125°
Initial Hydrostatic Pressure (A) - P.S.I.
Initial Flow Period Minutes 15 (B) - P.S.I. to (C) - P.S.I.
Initial Closed In Period Minutes 30 (D) - P.S.I.
Final Flow Period Minutes 30 (E) - P.S.I. to (F) - P.S.I.
Final Closed In Period Minutes 30 (G) - P.S.I.
Final Hydrostatic Pressure (H) - P.S.I.

COMPANY TERMS

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] Jim Wondra Thank You

2376

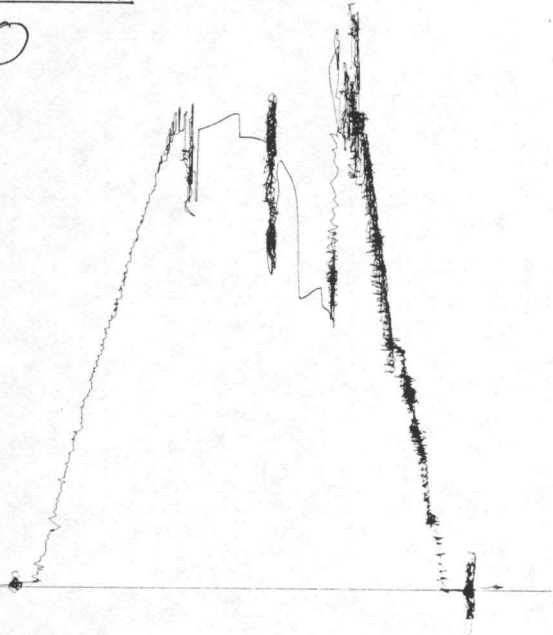
FIELD INVOICE

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

JK # 10947

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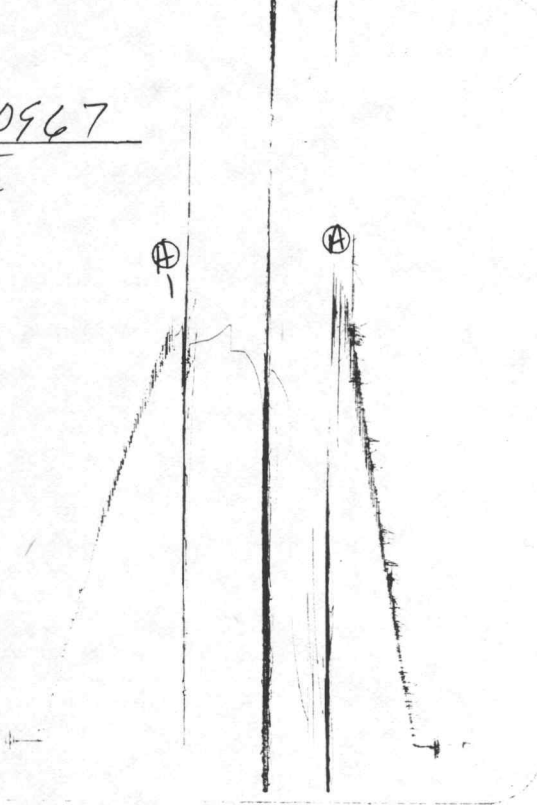
52



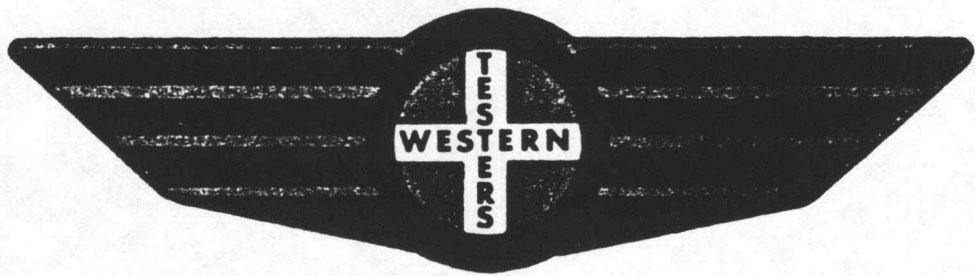
JK # 10947

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86



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY PETROLEUM, INC. LEASE & WELL NO. #1 GOBIN "C" SEC. 13 TWP. 29S RGE. 18W TEST NO. 3 DATE 10/30/85

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 10-30-85
CUSTOMER: PETROLEUM INC.
WELL: 1
ELEVATION (KB): 2245
SECTION: 13
RANGE: 18W
GAUGE SN #3086

TEST: 3
COUNTY: KIDWA
RANGE: 4500

TICKET #10967
LEASE: GOBIN "C"
GEOLOGIST: K. JOHNSON
FORMATION: MISSISSIPPI
TOWNSHIP: 29S
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 4907 FT TO: 4916 FT TOTAL DEPTH: 4916 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4902 FT SIZE: 6 5/8 IN PACKER DEPTH: 4907 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: MUSTANG DRLG. RIG #1
MUD TYPE: CHEMICAL VISCOSITY: 43
WEIGHT: 9.3 WATER LOSS (CC): 8.8
CHLORIDES (P.P.M.): 10800

JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 120 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4766 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 9 FT SIZE: 5 1/2 OD 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 FH IN

BLOW: INITIAL FLOW PERIOD WEAK BLOW.
FINAL FLOW PERIOD WEAK BLOW;
DIED IN 20 MINUTES.

RECOVERED: 10 FT OF: THICK DRILLING MUD.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: MISRUN.

TIME SET PACKER(S): 10:30 PM
WELL TEMPERATURE: 125 °F

TIME STARTED OFF BOTTOM: 12:15 AM

INITIAL HYDROSTATIC PRESSURE: (A) 2546 PSI
INITIAL FLOW PERIOD MIN: 0 (B) 0 PSI TO (C) 0 PSI
INITIAL CLOSED IN PERIOD MIN: 0 (D) 0 PSI
FINAL FLOW PERIOD MIN: 0 (E) 0 PSI TO (F) 0 PSI
FINAL CLOSED IN PERIOD MIN: 0 (G) 0 PSI
FINAL HYDROSTATIC PRESSURE (H) 2431 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

OK

TICKET No 10968

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

Elevation 2240 G.L Formation Miss Eff. Pay Ft.

District Pratt Date 10/31/85 Customer Order No.

COMPANY NAME Petroleum Inc.

ADDRESS
LEASE AND WELL NO. Gobin 'C' #1 COUNTY Kiowa STATE KS Sec. 13 Twp. 29 Rge. 18W

Mail Invoice To Same Co. Name No. Copies Requested 5
Mail Charts To Same #1 Gobin 'C' Address No. Copies Requested 5

Formation Test No. 4 Interval Tested From 4890 ft. to 4921 ft. Total Depth 4921 ft.
Packer Depth 4885 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Packer Depth 4890 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4914 ft. Recorder Number 3086 Cap. 4500
Bottom Recorder Depth (Outside) 4914 ft. Recorder Number 1355-2 Cap. 4050
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Mustang Rig #1 Drill Collar Length 120 I. D. 2 1/4 in.
Mud Type Chemical Viscosity 5/4 Weight Pipe Length - I. D. - in.
Weight 9.1 Water Loss 10.4 cc. Drill Pipe Length 4749 I. D. 3.8 in.
Chlorides 14,800 P.P.M. Test Tool Length 21 ft. Tool Size 5/200 in.
Jars: Make No Serial Number No Anchor Length 31 ft. Size 5/200 in.
Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow throughout flow periods

Recovered 90 ft. of Only Mud
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Chlorides P.P.M. Sample Jars used Remarks:

Time On Location 10:30 A.M. Time Pick Up Tool 10:30 P.M. Time Off Location 6:00 A.M. P.M.
Time Set Packer(s) 12:10 A.M. Time Started Off Bottom 3:55 A.M. P.M. Maximum Temperature 125
Initial Hydrostatic Pressure (A) 2474 P.S.I.
Initial Flow Period (B) 15 Minutes 47 P.S.I. to (C) 47 P.S.I.
Initial Closed In Period (D) 30 Minutes 225 P.S.I.
Final Flow Period (E) 60 Minutes 59 P.S.I. to (F) 59 P.S.I.
Final Closed In Period (G) 120 Minutes 613 P.S.I.
Final Hydrostatic Pressure (H) 2451 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] 2276 2076

FIELD INVOICE

Table with 2 columns: Item Name and Amount. Items include Open Hole Test, 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 10-31-85 Test Ticket No. 10968
 Recorder No. 3086 Capacity 4500 Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature 125 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2555</u>	P.S.I.	<u>12:10 P</u>	<u>3:55 P</u>
B First Initial Flow Pressure	<u>50</u>	P.S.I.	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>50</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>220</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>61</u>	P.S.I.	<u>120</u> Mins.	<u>120</u> Mins.
F Second Final Flow Pressure	<u>61</u>	P.S.I.		
G Final Closed-in Pressure	<u>615</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2463</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>50</u>	0	<u>50</u>	0	<u>61</u>	0	<u>61</u>
P 2 5	<u>↓</u>	3	<u>52</u>	5	<u> </u>	3	<u>65</u>
P 3 10	<u>↓</u>	6	<u>62</u>	10	<u> </u>	6	<u>76</u>
P 4 15	<u>50</u>	9	<u>77</u>	15	<u> </u>	9	<u>91</u>
P 5 20		12	<u>97</u>	20	<u> </u>	12	<u>107</u>
P 6 25		15	<u>120</u>	25	<u> </u>	15	<u>118</u>
P 7 30		18	<u>142</u>	30	<u> </u>	18	<u>135</u>
P 8 35		21	<u>166</u>	35	<u> </u>	21	<u>152</u>
P 9 40		24	<u>184</u>	40	<u> </u>	24	<u>168</u>
P10 45		27	<u>201</u>	45	<u> </u>	27	<u>185</u>
P11 50		30	<u>220</u>	50	<u> </u>	30	<u>201</u>
P12 55		33		55	<u>↓</u>	33	<u>219</u>
P13 60		36		60	<u>61</u>	36	<u>235</u>
P14 65		39		65		39	<u>253</u>
P15 70		42		70		42	<u>268</u>
P16 75		45		75		45	<u>283</u>
P17 80		48		80		48	<u>300</u>
P18 85		51		85		51	<u>314</u>
P19 90		54		90		54	<u>329</u>
P20 95		57		95		57	<u>344</u>
100		60		100		60	<u>359</u>

WESTERN TESTING CO., INC.
Pressure Data

Date _____

Test Ticket No. 10968

Recorder No. _____ Capacity _____ Location _____ Ft.

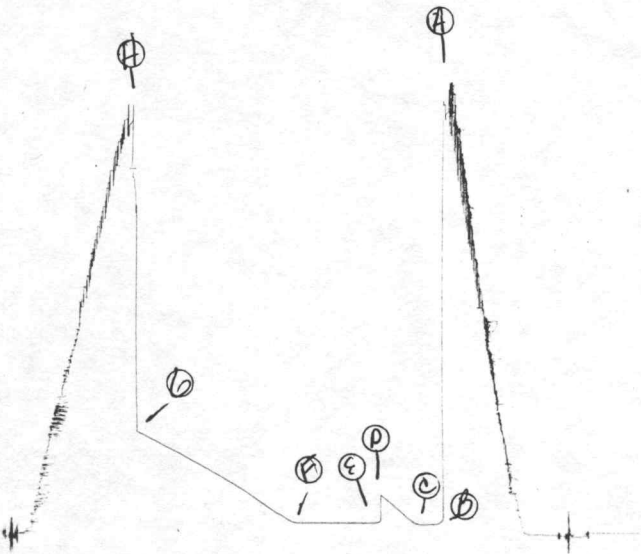
Clock No. _____ Elevation _____ Well Temperature _____ °F

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

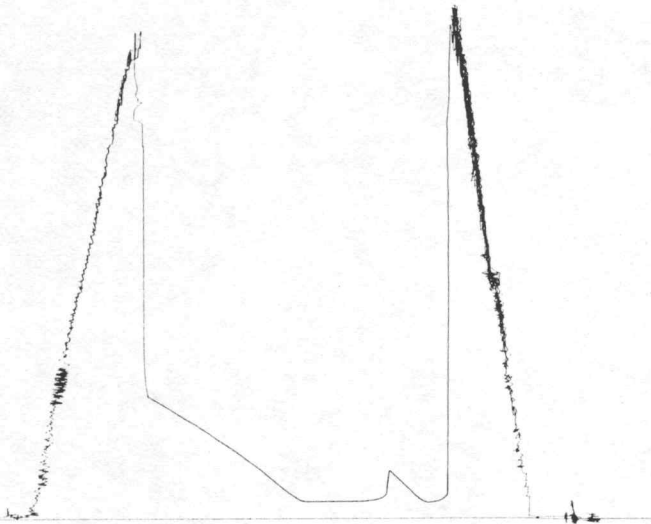
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 105		63		105		63	<u>372</u>
P 2 110		66		110		66	<u>386</u>
P 3 115		69		115		69	<u>400</u>
P 4 120		72		120		72	<u>416</u>
P 5 125		75		125		75	<u>431</u>
P 6 130		78		130		78	<u>443</u>
P 7 135		81		135		81	<u>455</u>
P 8 140		84		140		84	<u>468</u>
P 9 145		87		145		87	<u>483</u>
P10 150		90		150		90	<u>499</u>
P11 155		93		155		93	<u>509</u>
P12 160		96		160		96	<u>521</u>
P13 165		99		165		99	<u>532</u>
P14 170		102		170		102	<u>546</u>
P15 175		105		175		105	<u>558</u>
P16 180		108		180		108	<u>572</u>
P17 185		111		185		111	<u>585</u>
P18 190		114		190		114	<u>596</u>
P19 195		117		195		117	<u>608</u>
P20 200		120		200		120	<u>615</u>

Site # 10968
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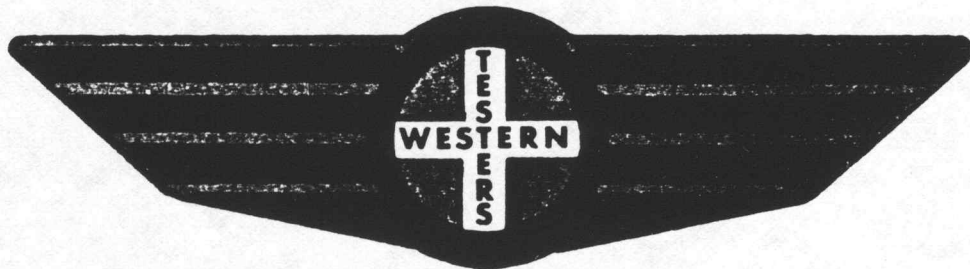
Scale

Alt # 10968
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52

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY _____ PETROLEUM, INC.
LEASE & WELL NO. _____ #1 GOBIN "C"
SEC. _____ 13 TWP. _____ 29S RGE. _____ 18W
TEST NO. _____ 4 DATE _____ 10/31/85

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 10-31-85
CUSTOMER: PETROLEUM INC.
WELL: 1
ELEVATION (KB): 2245
SECTION: 13
RANGE: 18W
GAUGE SN #3086

TEST: 4
FORMATION: MISSISSIPPI
TOWNSHIP: 29S
COUNTY: KIOWA
RANGE: 4500

TICKET #10968
LEASE: GOBIN "C"
GEOLOGIST: K. JOHNSON
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 4890 FT TO: 4921 FT TOTAL DEPTH: 4921 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4885 FT SIZE: 6 5/8 IN PAKER DEPTH: 4890 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PAKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: MUSTANG DRLG. RIG #1
MUD TYPE: CHEMICAL VISCOSITY: 51
WEIGHT: 9.1 WATER LOSS (CC): 10.4
CHLORIDES (P.P.M.): 14800

JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 120 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4749 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 31 FT SIZE: 5 1/2 OD 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 FH IN

BLOW: STRONG BLOW THROUGHOUT TEST.

RECOVERED: 90 FT OF: DRILLING MUD.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 12:10 PM TIME STARTED OFF BOTTOM: 3:55 PM
WELL TEMPERATURE: 125 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2555 PSI
INITIAL FLOW PERIOD MIN: 15 (B) 50 PSI TO (C) 50 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 220 PSI
FINAL FLOW PERIOD MIN: 60 (E) 61 PSI TO (F) 61 PSI
FINAL CLOSED IN PERIOD MIN: 120 (G) 615 PSI
FINAL HYDROSTATIC PRESSURE (H) 2463 PSI



FORMATION TESTING

TICKET No 109690K

P. O. BOX 1599 PHONE (316) 262-5861

Elevation 2240 G.L. Formation Miss Eff. Pay Ft.

WICHITA, KANSAS 67201

District Pratt Date 11/1/85 Customer Order No.

COMPANY NAME Petroleum Inc.

ADDRESS LEASE AND WELL NO Gobin 'C' #1 COUNTY Kiowa STATE Ks Sec. 13 Twp. 29 Rge. 18W

Mail Invoice To Same Co. Name #1 Gobin 'C' Address No. Copies Requested 5

Mail Charts To Same #1 Gobin 'C' Address No. Copies Requested 5

Formation Test No 5 Interval Tested From 4921 ft. to 4936 ft. Total Depth 4936 ft. Packer Depth 4916 ft. Size 6 5/8 in. Packer Depth 4921 ft. Size 6 5/8 in.

Depth of Selective Zone Set Top Recorder Depth (Inside) 4926 ft. Recorder Number 3086 Cap. 4500 Bottom Recorder Depth (Outside) 4929 ft. Recorder Number 13552 Cap. 4050 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Mustang Rig #1 Mud Type Chemical Viscosity 51 Weight 9.1 Water Loss 10.4 cc. Chlorides 14,000 P.P.M. Jars: Make - Serial Number - Did Well Flow? Yes Reversed Out No Drill Collar Length 120 I. D. 2 1/4 in. Weight Pipe Length - I. D. - in. Drill Pipe Length 4780 I. D. 3.8 in. Test Tool Length 21 ft. Tool Size 5 1/2 in. Anchor Length 15 ft. Size 5 1/2 in. Surface Choke Size 3 1/4 in. Bottom Choke Size 3 1/4 in. Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 Ft. in.

Blow: Strong blow throughout flow periods Gas to surface in 2 min on second flow

Recovered 90 ft. of Gas Cut Mud Recovered ft. of Recovered ft. of Recovered ft. of Recovered ft. of Chlorides P.P.M. Sample Jars used Remarks:

Time On Location 12:00 A.M. Time Pick Up Tool 1:00 P.M. Time Off Location 9:00 P.M. Time Set Packer(s) 2:40 A.M. Time Started Off Bottom 6:25 P.M. Maximum Temperature 126 degrees Time Initial Hydrostatic Pressure (A) 2474 P.S.I. Initial Flow Period (B) 15 Minutes 35 P.S.I. to (C) 35 P.S.I. Initial Closed In Period (D) 30 Minutes 1416 P.S.I. Final Flow Period (E) 60 Minutes 35 P.S.I. to (F) 35 P.S.I. Final Closed In Period (G) 120 Minutes 1532 P.S.I. Final Hydrostatic Pressure (H) 2451 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] Jim Wondra Thank You 23210

FIELD INVOICE

Open Hole Test \$ 5.50 Misrun \$ Straddle Test \$ Jars \$ Selective Zone \$ Safety Joint \$ Standby \$ Evaluation \$ Extra Packer \$ Circ. Sub. \$ Mileage \$ Fluid Sampler \$ Extra Charts \$ Insurance \$ Teleconier \$

WESTERN TESTING CO., INC.
Pressure Data

Date 11-1-85 Test Ticket No. 10969
 Recorder No. 3086 Capacity 4500 Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature 126 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud <u>2527</u>		P.S.I.	<u>2:40A</u> M	<u>6:25A</u>
B First Initial Flow Pressure <u>33</u>		P.S.I.	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure <u>33</u>		P.S.I.	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure <u>1416</u>		P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure <u>32</u>		P.S.I.	<u>120</u> Mins.	<u>123</u> Mins.
F Second Final Flow Pressure <u>32</u>		P.S.I.		
G Final Closed-in Pressure <u>1535</u>		P.S.I.		
H Final Hydrostatic Mud <u>2440</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: 12 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 42 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>33</u>	<u>0</u>	<u>33</u>	<u>0</u>	<u>32</u>	<u>0</u>	<u>32</u>
P 2 <u>5</u>	↓	<u>3</u>	<u>457</u>	<u>5</u>	↓	<u>3</u>	<u>363</u>
P 3 <u>10</u>	↓	<u>6</u>	<u>753</u>	<u>10</u>	↓	<u>6</u>	<u>584</u>
P 4 <u>15</u>	<u>33</u>	<u>9</u>	<u>934</u>	<u>15</u>	↓	<u>9</u>	<u>758</u>
P 5 20		<u>12</u>	<u>1067</u>	<u>20</u>	↓	<u>12</u>	<u>881</u>
P 6 <u>25</u>		<u>15</u>	<u>1148</u>	<u>25</u>	↓	<u>15</u>	<u>988</u>
P 7 <u>30</u>		<u>18</u>	<u>1216</u>	<u>30</u>	↓	<u>18</u>	<u>1065</u>
P 8 <u>35</u>		<u>21</u>	<u>1271</u>	<u>35</u>	↓	<u>21</u>	<u>1125</u>
P 9 <u>40</u>		<u>24</u>	<u>1317</u>	<u>40</u>	↓	<u>24</u>	<u>1169</u>
P10 <u>45</u>		<u>27</u>	<u>1358</u>	<u>45</u>	↓	<u>27</u>	<u>1209</u>
P11 <u>50</u>		<u>30</u>	<u>1386</u>	<u>50</u>	↓	<u>30</u>	<u>1251</u>
P12 <u>55</u>		<u>33</u>	<u>1416</u>	<u>55</u>	↓	<u>33</u>	<u>1281</u>
P13 <u>60</u>		36		<u>60</u>	<u>32</u>	<u>36</u>	<u>1307</u>
P14 <u>65</u>		<u>39</u>		65		<u>39</u>	<u>1331</u>
P15 <u>70</u>		<u>42</u>		<u>70</u>		<u>42</u>	<u>1351</u>
P16 <u>75</u>		<u>45</u>		<u>75</u>		<u>45</u>	<u>1367</u>
P17 <u>80</u>		<u>48</u>		<u>80</u>		<u>48</u>	<u>1384</u>
P18 <u>85</u>		<u>51</u>		<u>85</u>		<u>51</u>	<u>1400</u>
P19 <u>90</u>		<u>54</u>		<u>90</u>		<u>54</u>	<u>1410</u>
P20 <u>95</u>		<u>57</u>		<u>95</u>		<u>57</u>	<u>1420</u>
<u>100</u>		<u>60</u>		<u>100</u>		<u>60</u>	<u>1429</u>

WESTERN TESTING CO., INC.
Pressure Data

Date _____

Test Ticket No. 10969

Recorder No. _____ Capacity _____ Location _____ Ft.

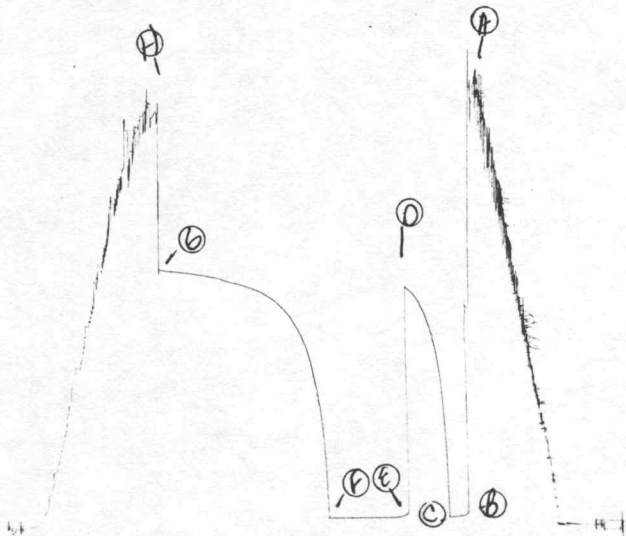
Clock No. _____ Elevation _____ Well Temperature _____ °F

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		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press
P 1 105		63		105		63	<u>1437</u>
P 2 110		66		110		66	<u>1445</u>
P 3 115		69		115		69	<u>1452</u>
P 4 120		72		120		72	<u>1458</u>
P 5 125		75		125		75	<u>1465</u>
P 6 130		78		130		78	<u>1474</u>
P 7 135		81		135		81	<u>1481</u>
P 8 140		84		140		84	<u>1488</u>
P 9 145		87		145		87	<u>1493</u>
P10 150		90		150		90	<u>1498</u>
P11 155		93		155		93	<u>1504</u>
P12 160		96		160		96	<u>1508</u>
P13 165		99		165		99	<u>1512</u>
P14 170		102		170		102	<u>1516</u>
P15 175		105		175		105	<u>1520</u>
P16 180		108		180		108	<u>1522</u>
P17 185		111		185		111	<u>1524</u>
P18 190		114		190		114	<u>1526</u>
P19 195		117		195		117	<u>1528</u>
P20 200		120		200		120	<u>1530</u>
						123	<u>1535</u>

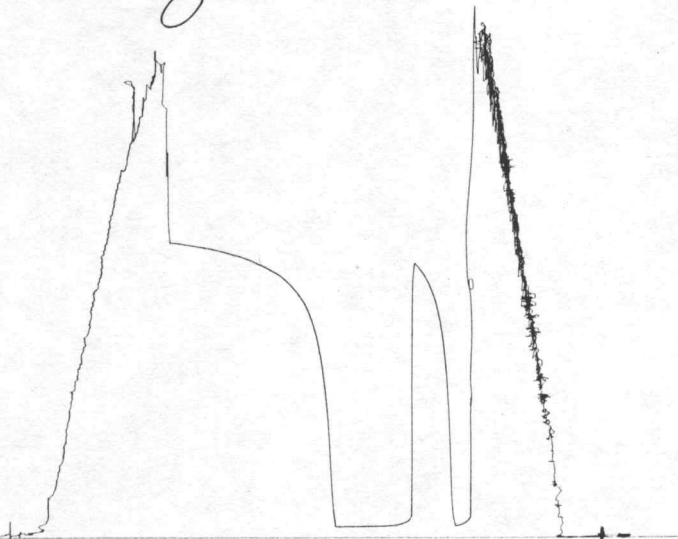
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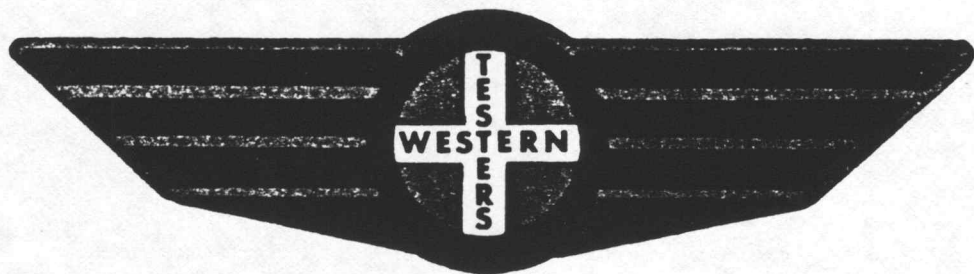
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY PETROLEUM, INC. LEASE & WELL NO. #1 GOBIN "C" SEC. 13 TWP. 29S RGE. 18W TEST NO. 5 DATE 11/1/85

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11-1-85
CUSTOMER: PETROLEUM INC.
WELL: 1
ELEVATION (KB): 2245
SECTION: 13
RANGE: 18W
GAUGE SN #3086

TEST: 5
FORMATION: MISSISSIPPI
TOWNSHIP: 29S
COUNTY: KIOWA
RANGE: 4500

TICKET #10969
LEASE: GOBIN "C"
GEOLOGIST: K.W. JOHNSON
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 4921 FT TO: 4936 FT TOTAL DEPTH: 4936 FT
DEPTH OF SELECTIVE ZONE:
PACKER DEPTH: 4916 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PAKER DEPTH: 4921 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PAKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: MUSTANG DRLG. RIG #1
MUD TYPE: CHEMICAL VISCOSITY: 51
WEIGHT: 9.1 WATER LOSS (CC): 10.4
CHLORIDES (P.P.M.): 14800

JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? YES REVERSED OUT? NO
DRILL COLLAR LENGTH: 120 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4780 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 15 FT SIZE: 5 1/2 OD 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 FH IN

BLOW: STRONG BLOW THROUGHOUT TEST.
GAS TO SURFACE IN 2 MINUTES ON
FINAL FLOW PERIOD. SEE ATTACHED
GAS FLOW REPORT.

RECOVERED: 90 FT OF: GAS CUT MUD.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 2:40 AM TIME STARTED OFF BOTTOM: 6:25 AM
WELL TEMPERATURE: 126 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2527 PSI
INITIAL FLOW PERIOD MIN: 15 (B) 33 PSI TO (C) 33 PSI
INITIAL CLOSED IN PERIOD MIN: 33 (D) 1416 PSI
FINAL FLOW PERIOD MIN: 60 (E) 32 PSI TO (F) 32 PSI
FINAL CLOSED IN PERIOD MIN: 123 (G) 1535 PSI
FINAL HYDROSTATIC PRESSURE (H) 2440 PSI

WESTERN TESTING CO. INC.
GAS FLOW REPORT

DATE: 11-1-85
CUSTOMER: PETROLEUM INC.
WELL: 1
ELEVATION (KB): 2245
SECTION: 13
RANGE: 18W
GAUGE SN #3086

TEST: 5
FORMATION: MISSISSIPPI
TOWNSHIP: 29S
COUNTY: KIDWA
RANGE: 4500

TICKET #10969
LEASE: GOBIN "C"
GEOLOGIST: K.W. JOHNSON
STATE: KANSAS
CLOCK: 12

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

PRE FLOW

SECOND FLOW

2				GAS TO SURFACE.
5	MERLA	1/2 IN.	9 H2O	18800 CFPD
10			10	19900
20			10	19900
30			9	18800
40			9	18800
50			9	18800
60			9	18800

GAS BOTTLE SN #:
DATE BOTTLE FILLED:
DATE TO BE INVOICED:



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 10970

OK

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

Elevation 22400L Formation Miss Eff. Pay Ft.

District Pratt Date 11/1/85 Customer Order No.

COMPANY NAME Petroleum Inc

ADDRESS
LEASE AND WELL NO. Gobin 'C' #1 COUNTY Kiowa STATE KS Sec. 13 Twp. 29 Rge. 18W

Mail Invoice To Same Co. Name #1 Gobin 'C' Address No. Copies Requested 5

Mail Charts To Same #1 Gobin 'C' Address No. Copies Requested 5

Formation Test No. 6 Interval Tested From 4936 ft. to 4951 ft. Total Depth 4951 ft.
Packer Depth 4931 ft. Size 6 5/8 in. Packer Depth = ft. Size = in.
Packer Depth 4936 ft. Size 6 5/8 in. Packer Depth = ft. Size = in.

Depth of Selective Zone Set
Top Recorder Depth (Inside) 4944 ft. Recorder Number 3086 Cap. 4500
Bottom Recorder Depth (Outside) 4944 ft. Recorder Number 13552 Cap. 4050
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Mustang Rig #1 Drill Collar Length 120 I. D. 2 1/4 in.
Mud Type Chemical Viscosity 54 Weight Pipe Length - I. D. - in.
Weight 9.3 Water Loss 9.6 cc. Drill Pipe Length 4795 I. D. 3.8 in.
Chlorides 14,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
Jars: Make No Serial Number No Anchor Length 15 ft. Size 5 1/2 OD in.
Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Weak blow throughout flow periods

Recovered 90 ft. of Dng Mud (Few specks of oil)

Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Chlorides P.P.M. Sample Jars used Remarks:

Time On Location 4:30 A.M. Time Pick Up Tool 5:00 P.M. Time Off Location 12:30 A.M.
Time Set Packer(s) 6:15 A.M. Time Started Off Bottom 10:00 P.M. Maximum Temperature 127 F

Initial Hydrostatic Pressure (A) 2486 P.S.I.
Initial Flow Period Minutes 15 (B) 35 P.S.I. to (C) 35 P.S.I.
Initial Closed In Period Minutes 30 (D) 153 P.S.I.
Final Flow Period Minutes 60 (E) 35 P.S.I. to (F) 35 P.S.I.
Final Closed In Period Minutes 120 (G) 141 P.S.I.
Final Hydrostatic Pressure (H) 2463 P.S.I.

COMPANY TERMS V 04 1985

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 Ken Johnson Signature of Customer or his authorized representative

Western Representative Jim Wanda thank you 2376

FIELD INVOICE

Table with 2 columns: Item, Amount. Items include Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, TOTAL. Amounts are mostly \$0, except Open Hole Test at \$595.

WESTERN TESTING CO., INC.
Pressure Data

Date 11-1-85 Test Ticket No. 10970
 Recorder No. 3086 Capacity 4500 Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature 127 °F

Point	Pressure	P.S.I.	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2543</u>	P.S.I.		<u>6:15 P</u> M	<u>10:00 P</u>
B First Initial Flow Pressure	<u>44</u>	P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>44</u>	P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>145</u>	P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>43</u>	P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>123</u> Mins.
F Second Final Flow Pressure	<u>43</u>	P.S.I.			
G Final Closed-in Pressure	<u>732</u>	P.S.I.			
H Final Hydrostatic Mud	<u>2456</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: 42 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>44</u>	0	<u>44</u>	0	<u>43</u>	0	<u>43</u>
P 2 5	↓	3	<u>44</u>	5		3	<u>44</u>
P 3 10	↓	6	<u>44</u>	10		6	<u>50</u>
P 4 15	<u>44</u>	9	<u>51</u>	15		9	<u>57</u>
P 5 20		12	<u>63</u>	20		12	<u>64</u>
P 6 25		15	<u>71</u>	25		15	<u>73</u>
P 7 30		18	<u>80</u>	30		18	<u>83</u>
P 8 35		21	<u>89</u>	35		21	<u>91</u>
P 9 40		24	<u>104</u>	40		24	<u>99</u>
P10 45		27	<u>127</u>	45		27	<u>111</u>
P11 50		30	<u>145</u>	50	↓	30	<u>127</u>
P12 55		33		55	↓	33	<u>140</u>
P13 60		36		60	<u>43</u>	36	<u>152</u>
P14 65		39		65		39	<u>168</u>
P15 70		42		70		42	<u>180</u>
P16 75		45		75		45	<u>199</u>
P17 80		48		80		48	<u>216</u>
P18 85		51		85		51	<u>235</u>
P19 90		54		90		54	<u>251</u>
P20 95		57		95		57	<u>268</u>
100		60		100		60	<u>287</u>

WESTERN TESTING CO., INC.
Pressure Data

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

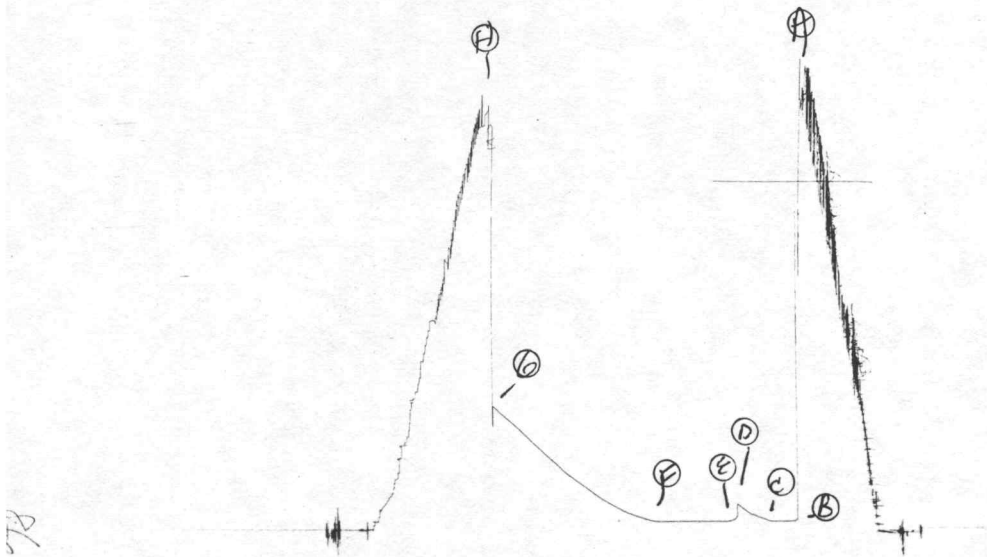
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud _____	P.S.I.	Open Tool	_____ M	_____
B First Initial Flow Pressure _____	P.S.I.	First Flow Pressure	_____ Mins.	_____ Mins.
C First Final Flow Pressure _____	P.S.I.	Initial Closed-in Pressure	_____ Mins.	_____ Mins.
D Initial Closed-in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

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In	
	Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	105	63	105	63	303
P 2	110	66	110	66	320
P 3	115	69	115	69	339
P 4	120	72	120	72	363
P 5	125	75	125	75	386
P 6	130	78	130	78	408
P 7	135	81	135	81	429
P 8	140	84	140	84	450
P 9	145	87	145	87	474
P10	150	90	150	90	498
P11	155	93	155	93	516
P12	160	96	160	96	539
P13	165	99	165	99	563
P14	170	102	170	102	589
P15	175	105	175	105	610
P16	180	108	180	108	631
P17	185	111	185	111	654
P18	190	114	190	114	673
P19	195	117	195	117	695
P20	200	120	200	120	715
				123	732

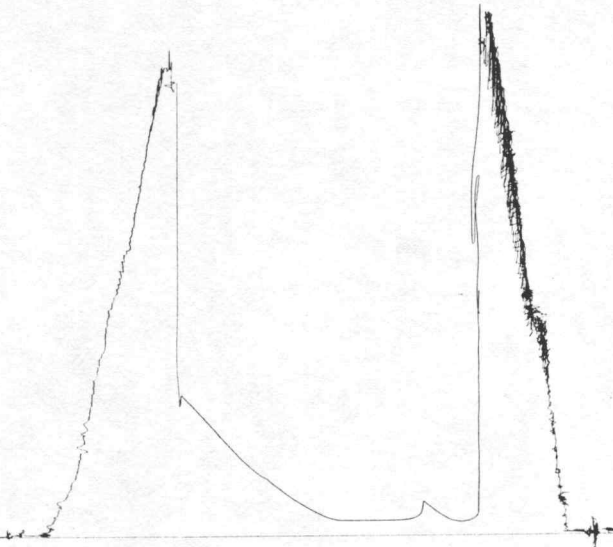
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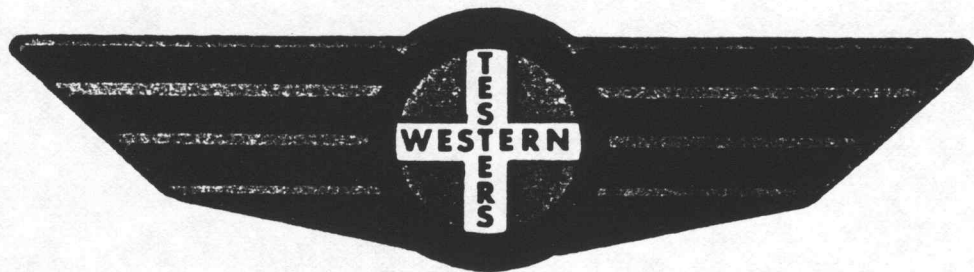
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY PETROLEUM, INC. LEASE & WELL NO. #1 GOBIN "C" SEC. 13 TWP. 29S RGE. 18W TEST NO. 6 DATE 11/1/85

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11-1-85
CUSTOMER: PETROLEUM INC.
WELL: 1
ELEVATION (KB): 2245
SECTION: 13
RANGE: 18W
GAUGE SN #3086

TEST: 6
FORMATION: MISSISSIPPI
TOWNSHIP: 29S
COUNTY: KIOWA
RANGE: 4500

TICKET #10970
LEASE: GOBIN "C"
GEOLOGIST: K. JOHNSON
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 4936 FT TO: 4951 FT TOTAL DEPTH: 4951 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4931 FT SIZE: 6 5/8 IN PACKER DEPTH: 4936 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: MUSTANG DRLG. RIG #1
MUD TYPE: CHEMICAL VISCOSITY: 54
WEIGHT: 9.3 WATER LOSS (CC): 9.6
CHLORIDES (P.P.M.): 14000

JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 120 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4795 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 15 FT SIZE: 5 1/2 OD 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 FH IN

BLOW: WEAK BLOW THROUGHOUT TEST.

RECOVERED: 90 FT OF: DRILLING MUD (FEW SPECKS OF OIL).
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 6:15 PM
WELL TEMPERATURE: 127 °F
INITIAL HYDROSTATIC PRESSURE:
INITIAL FLOW PERIOD MIN: 15
INITIAL CLOSED IN PERIOD MIN: 30
FINAL FLOW PERIOD MIN: 60
FINAL CLOSED IN PERIOD MIN: 123
FINAL HYDROSTATIC PRESSURE

TIME STARTED OFF BOTTOM: 10:00 PM

(A) 2543 PSI
(B) 44 PSI TO (C) 44 PSI
(D) 145 PSI
(E) 43 PSI TO (F) 43 PSI
(G) 732 PSI
(H) 2456 PSI

