WESTERN TESTERS

Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Vincent Oil Corp. Lease & Well No. Dietz #1

Elevation 1909 Kelly Bushings Formation Kansas City Effective Pay Ft. Ticket No. 14628

Date 4-22-71 Sec. 33 Twp. 15S Range 14W County Russell State Kansas

Test Approved by Robert G. Brooks Western Representative Dean Blagrave

Formation Test No. 1 O.K. X Misrun Interval Tested From 3128' to 3170' Total Depth 3170'

Size Main Hole 7 7/8" Rat Hole Conv. B.T. X Damaged Yes X No Conv. B.T. Damaged Yes No

Packer Depth 3128 Ft. Size 6 3/4" Packer Depth Ft. Size

Straddle Yes No X Conv. B.T. Damaged Yes No

Packer Depth Ft. Size

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 42 Ft. Size 5 1/2" O.D.

RECORDERS Depth 3161 Ft. Clock No. 6899 Depth 3164 Ft. Clock No. 9102

Top Make Kuster Cap. 4000 No. 3659 Inside ~~Outside~~ Bottom Make Kuster Cap. 4000 No. 3660 ~~Inside~~ Outside

Below Straddle: Depth Clock No. Inside Outside Depth Ft. Clock No. Inside Outside

Top Make Cap. No. Inside Outside Bottom Make Cap. No. Inside Outside

Time Set Packer 5:27 PM

Tool Open I.F.P. From 5:29 M. to 5:59P M. Hr. 30 Min. From (B) 28 P.S.I. To (C) 32 P.S.I.

Tool Closed I.C.I.P. From 5:59 M. to 6:29P M. Hr. 30 Min. (D) 526 P.S.I.

Tool Open F.F.P. From 6:29 M. to 6:59P M. Hr. 30 Min. From (E) 36 P.S.I. To (F) 50 P.S.I.

Tool Closed F.C.I.P. From 6:59 M. to 7:29P M. Hr. 30 Min. (G) 510 P.S.I.

Initial Hydrostatic Pressure (A) 1742 P.S.I. Final Hydrostatic Pressure (H) 1722 P.S.I.

| SURFACE INFORMATION | Size Choke 1/4 In. | Max. Press. P.S.I. | Time | Description of Flow |
|---|---|---|---|---|
| | | | M. | |
| | | | M. | |
| | | | M. | |

BLOW Weak for 10 min. then died Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 15 feet mud

Reversed Out Yes X No Mud Type Starch Viscosity 39 Weight 10.3 Water Loss 12.4 cc. Maximum Temp. 98 °F

Type Circ. Sub. Plug Did Tool Plug? No Jars: Size Make Ser. No.

EXTRA EQUIPMENT: Dual Packers No Safety Joint No Did Packer Hold? Yes Where?

Length Drill Pipe 2190 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 933 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars None ft.

I. D. Drill Collars in. Length D.S.T. Tool 55 ft.

Remarks Flushed tool @ 20 min. on initial flow
Tool plugging thru most of test

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

ate 4-22-71 Test Ticket No. 14628

:corder No. 3659 Capacity 4000 Location 3161 Ft.

ock No. 6899 Elevation 1909 Kelly Bushings Well Temperature 98 °F

| oint | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|
| Initial Hydrostatic Mud | 1742 P.S.I. | Open Tool | 5:27 P. M | |
| First Initial Flow Pressure | 28 P.S.I. | First Flow Pressure | 30 Mins. | 30 Mins. |
| First Final Flow Pressure | 32 P.S.I. | Initial Closed-in Pressure | 30 Mins. | 30 Mins. |
| Initial Closed-in Pressure | 526 P.S.I. | Second Flow Pressure | 30 Mins. | 30 Mins. |
| Second Initial Flow Pressure | 36 P.S.I. | Final Closed-in Pressure | 30 Mins. | 30 Mins. |
| Second Final Flow Pressure | 50 P.S.I. | | | |
| Final Closed-in Pressure | 510 P.S.I. | | | |
| Final Hydrostatic Mud | 1722 P.S.I. | | | |

## PRESSURE BREAKDOWN

**First Flow Pressure**
Breakdown: ____ Inc.
of 5 mins. and a
final inc. of ____ Min.

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

**Second Flow Pressure**
Breakdown: ____ Inc.
of 5 mins. and a
final inc. of ____ Min.

**Final Shut-In**
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of ____ Min.

| oint ns. | Press. | Point Minutes | Press. | Point Minutes | Press. | Point Minutes | Press. |
|---|---|---|---|---|---|---|---|
| 1 0 | 28 | 0 | 32 | 0 | 36 | 0 | 50 |
| 2 5 | 28 | 3 | 251 | 5 | 37 | 3 | 350 |
| 3 10 | To much plugging | 6 | 420 | 10 | 45 | 6 | 444 |
| 4 15 | action for correct | 9 | 462 | 15 | To much plugging | 9 | 474 |
| 5 20 | pressure reading | 12 | 481 | 20 | action for correct | 12 | 486 |
| 6 25 | " | 15 | 494 | 25 | pressure breakdown | 15 | 494 |
| 7 30 | 32 | 18 | 502 | 30 | 50 | 18 | 500 |
| 8 | | 21 | 508 | [illegible] | | 21 | 504 |
| 9 | | 24 | 514 | | | 24 | 506 |
| 0 | | 27 | 520 | | | 27 | 508 |
| 1 | | 30 | | | | 30 | 510 |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 0 | | | | | | | |

WESTERN TESTERS

Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Vincent Oil Corp. Lease & Well No. Dietz #1

Elevation 1909 Kelly Bushings Formation Kansas City Effective Pay Ft. Ticket No. 14629

Date 4-23-71 Sec. 33 Twp. 15S Range 14W County Russell State Kansas

Test Approved by Robert G. Brooks Western Representative Dean Blagrave

Formation Test No. 2 O.K. X Misrun Interval Tested From 3186' to 3215' Total Depth 3215'

Size Main Hole 7 7/8" Rat Hole Conv. B.T. X Damaged Yes X No Conv. B.T. Damaged Yes No

Packer Depth 3186 Ft. Size 6 3/4" Packer Depth Ft. Size

Straddle Yes No X Conv. B.T. Damaged Yes No

Packer Depth Ft. Size

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 29 Ft. Size 5 1/2" O.D.

RECORDERS Depth 3206 Ft. Clock No. 6899 Depth 3209 Ft. Clock No. 9102

Top Make Kuster Cap. 4000 No. 3659 Inside ~~Outside~~ Bottom Make Kuster Cap. 4000 No. 3660 ~~Inside~~ Outside

Below Straddle: Depth Clock No. Inside Outside Depth Ft. Clock No. Inside Outside

Top Make Cap. No. Inside Outside Bottom Make Cap. No. Inside Outside

Time Set Packer 8:10 AM

Tool Open I.F.P. From 8:12 M. to 8:27 AM. Hr. 15 Min. From (B) 26 P.S.I. To (C) 27 P.S.I.

Tool Closed I.C.I.P. From 8:27 M. to 8:57A.M. Hr. 30 Min. (D) 495 P.S.I.

Tool Open F.F.P. From 8:57 M. to 9:57A.M. 1 Hr. Min. From (E) 31 P.S.I. To (F) 48 P.S.I.

Tool Closed F.C.I.P. From 9:57 M. to 10:27AM. Hr. 30 Min. (G) 460 P.S.I.

Initial Hydrostatic Pressure (A) 1747 P.S.I. Final Hydrostatic Pressure (H) 1726 P.S.I.

| SURFACE INFORMATION | Size Choke 1/4 In. | Max. Press. P.S.I. | Time | Description of Flow |
|---|---|---|---|---|
| | | | M. | |
| | | | M. | |
| | | | M. | |

BLOW Very weak thru out Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 75 feet muddy water with few oil specks

Reversed Out Yes X No Mud Type Starch Viscosity 40 Weight 10.2 Water Loss 10 cc. Maximum Temp. 98 °F

Type Circ. Sub. Plug Did Tool Plug? No Jars: Size Make Ser. No.

EXTRA EQUIPMENT: Dual Packers No Safety Joint No Did Packer Hold? Yes Where?

Length Drill Pipe 2250 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 933 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars None ft.

I. D. Drill Collars in. Length D.S.T. Tool 42 ft.

Remarks

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

Date 4-23-71 Test Ticket No. 14629

Recorder No. 3659 Capacity 4000 Location 3206 Ft.

Clock No. 6899 Elevation 1909 Kelly Bushings Well Temperature 98 °F

| Point | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|
| A Initial Hydrostatic Mud | 1747 P.S.I. | Open Tool | 8:10 A. M | |
| B First Initial Flow Pressure | 26 P.S.I. | First Flow Pressure | 15 Mins. | 15 Mins. |
| C First Final Flow Pressure | 27 P.S.I. | Initial Closed-in Pressure | 30 Mins. | 30 Mins. |
| D Initial Closed-in Pressure | 495 P.S.I. | Second Flow Pressure | 60 Mins. | 60 Mins. |
| E Second Initial Flow Pressure | 31 P.S.I. | Final Closed-in Pressure | 30 Mins. | 30 Mins. |
| F Second Final Flow Pressure | 48 P.S.I. | | | |
| G Final Closed-in Pressure | 460 P.S.I. | | | |
| H Final Hydrostatic Mud | 1726 P.S.I. | | | |

## PRESSURE BREAKDOWN

**First Flow Pressure**
Breakdown: 3 Inc.
of 5 mins. and a
final inc. of ____ Min.

| Point Mins. | Press. |
|---|---|
| P 1 0 | 26 |
| P 2 5 | 26 |
| P 3 10 | 26 |
| P 4 15 | 27 |
| P 5 | |
| P 6 | |
| P 7 | |
| P 8 | |
| P 9 | |
| P10 | |
| P11 | |
| P12 | |
| P13 | |
| P14 | |
| P15 | |
| P16 | |
| P17 | |
| P18 | |
| P19 | |
| P20 | |

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

| Point Minutes | Press. |
|---|---|
| 0 | 27 |
| 3 | 136 |
| 6 | 430 |
| 9 | 470 |
| 12 | 482 |
| 15 | 488 |
| 18 | 490 |
| 21 | 492 |
| 24 | 493 |
| 27 | 494 |
| 30 | 495 |

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

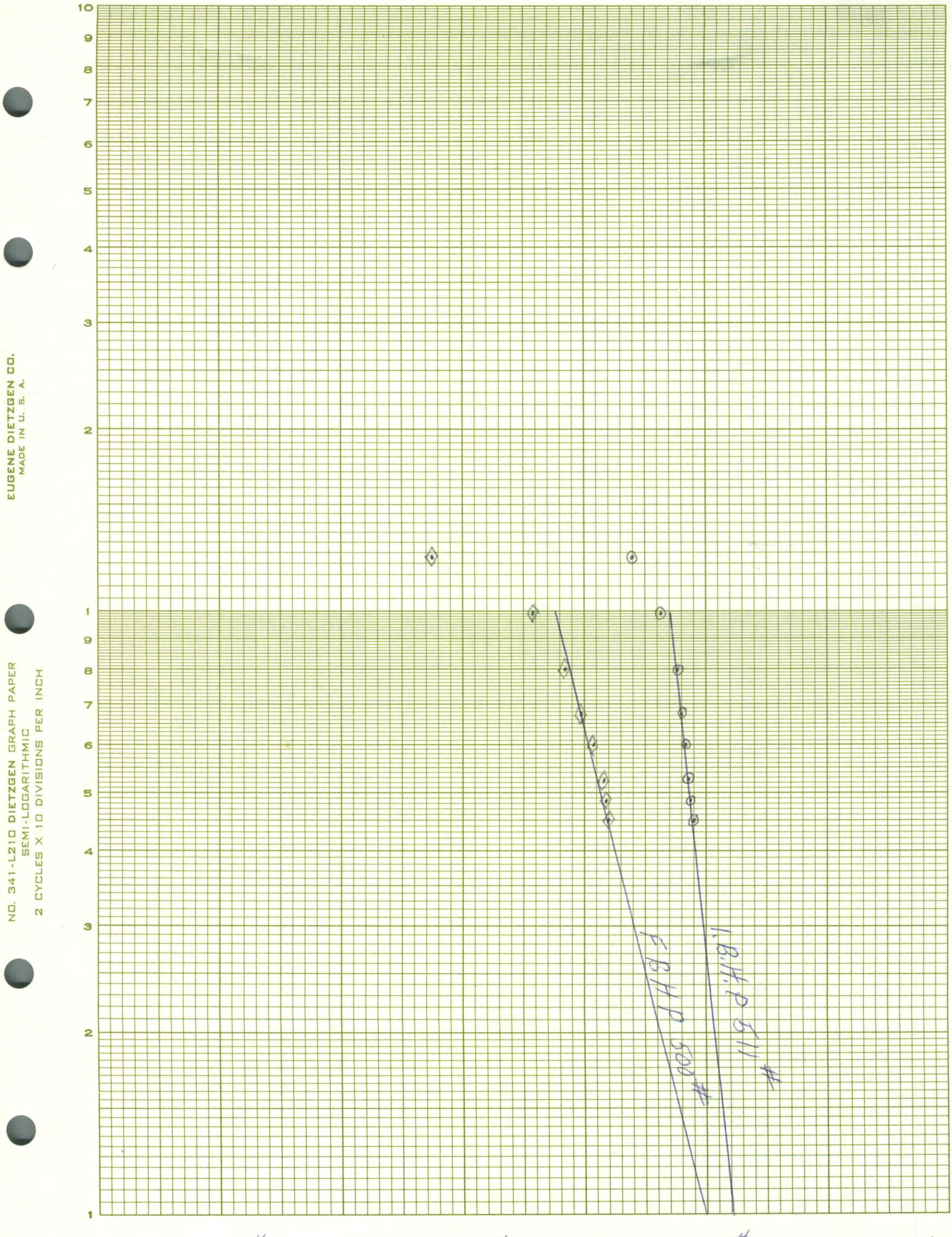
| Point Minutes | Press. |
|---|---|
| 0 | 31 |
| 5 | 31 |
| 10 | 32 |
| 15 | 33 |
| 20 | 35 |
| 25 | 37 |
| 30 | 40 |
| 35 | 42 |
| 40 | 43 |
| 45 | 44 |
| 50 | 45 |
| 55 | 47 |
| 60 | 48 |

**Final Shut-In**
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of ____ Min.

| Point Minutes | Press. |
|---|---|
| 0 | 48 |
| 3 | 91 |
| 6 | 232 |
| 9 | 388 |
| 12 | 429 |
| 15 | 442 |
| 18 | 449 |
| 21 | 454 |
| 24 | 458 |
| 27 | 459 |
| 30 | 460 |

Vincent Oil Company

Test Ticket # 14629

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WESTERN TESTING CO., INC.
GREAT BEND, KANSAS 67530
(316) 793-7903

# FIELD EVALUATIONS

Ticket No. 14629

Date 5-2-71

To Vincent Oil Corp.
719 Union Center Bldg.
Wichita, Kansas



We Give Below Results of Drill Stem Evaluation

Lease Dietz # 1 Sec. 33 Twp. 15S Rge. 14W

County Russell Test Interval 3186'-3215'

## FINAL

| | | | |
|---|---|---|---|
| P.S.I. Slope Cycle | $M = \frac{Pisi - Pfsi}{Log \frac{T + t}{t}}$ | 75.00 | |
| Damage Ratio | $DR = .183 \frac{Ps - Pf}{M}$ | 1.60 | |
| Production | $Q = \frac{1440\ R}{t}$ | .49 | Bbls./Hr. |
| | | 11.76 | Bbls./Day |
| Effective Pay | $K_1 = \frac{Kh}{hl}$ | 6.00 | Md. Ft. |
| Theoretical Potential With Damage Removed | $Q_1 = Q\ DR$ | 19.81 | Bbls./Day |

3000 Ft. Perm per 5 ft. of effective pay

WESTERN TESTERS

Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Vincent Oil Corp. Lease & Well No. Dietz #1

Elevation 1909 Kelly Bushings Formation Kansas City Effective Pay Ft. Ticket No. 14630

Date 4-24-71 Sec. 33 Twp. 15S Range 14W County Russell State Kansas

Test Approved by Robert G. Brooks Western Representative Dean Blagrave

Formation Test No. 3 O.K. X Misrun Interval Tested From 3284' to 3325' Total Depth 3325'

Size Main Hole 7 7/8" Rat Hole Conv. B.T. X Damaged Yes X No Conv. B.T. Damaged Yes No

Packer Depth 3284 Ft. Size 6 3/4" Packer Depth Ft. Size

Straddle Yes No X Conv. B.T. Damaged Yes No

Packer Depth Ft. Size

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 41 Ft. Size 5 1/2" O.D.

RECORDERS Depth 3316 Ft. Clock No. 6899 Depth 3319 Ft. Clock No. 9102

Top Make Kuster Cap. 4000 No. 3659 Inside ~~Outside~~ Bottom Make Kuster Cap. 4000 No. 3660 ~~Inside~~ Outside

Below Straddle: Depth Clock No. Inside Outside Depth Ft. Clock No. Inside Outside

Top Make Cap. No. Inside Outside Bottom Make Cap. No. Inside Outside

Time Set Packer 6:15 AM

Tool Open I.F.P. From 6:17 M. to 6:32A. M. Hr. 15 Min. From (B) 40 P.S.I. To (C) 82 P.S.I.

Tool Closed I.C.I.P. From 6:32 M. to 7:02A. M. Hr. 30 Min. (D) 466 P.S.I.

Tool Open F.F.P. From 7:02 M. to 8:02A. M. 1 Hr. Min. From (E) 107 P.S.I. To (F) 236 P.S.I.

Tool Closed F.C.I.P. From 8:02 M. to 8:32A. M. Hr. 30 Min. (G) 449 P.S.I.

Initial Hydrostatic Pressure (A) 1796 P.S.I. Final Hydrostatic Pressure (H) 1763 P.S.I.

| SURFACE INFORMATION | Size Choke 1/4 In. | Max. Press. P.S.I. | Time | Description of Flow |
|---|---|---|---|---|
| | | | M. | |
| | | | M. | |
| | | | M. | |

BLOW Good thru out Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 900 feet gas in pipe - 50 feet heavy gas cut and slightly oil cut mud - 145 feet very heavy oil and gas cut mud - 310 feet very slightly oil cut muddy water.

Reversed Out Yes X No Mud Type Starch Viscosity 43 Weight 10.1 Water Loss 10.4 cc. Maximum Temp. 101 °F

Type Circ. Sub Plug Did Tool Plug? No Jars: Size No Make Ser. No.

EXTRA EQUIPMENT: Dual Packers No Safety Joint Mo. Did Packer Hold? Yes Where?

Length Drill Pipe 2340 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 933 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars None ft.

I. D. Drill Collars in. Length D.S.T. Tool 54 ft.

Remarks

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

Date 4-24-71 Test Ticket No. 14630

Recorder No. 3659 Capacity 4000 Location ____ Ft.

Clock No. 6899 Elevation 1909 Kelly Bushings Well Temperature 101 °F

| Point | | Pressure | | | Time Given | Time Computed |
|---|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 1796 P.S.I. | | Open Tool | 6:15 A. M | |
| B | First Initial Flow Pressure | 40 P.S.I. | | First Flow Pressure | 15 Mins. | 15 Mins. |
| C | First Final Flow Pressure | 82 P.S.I. | | Initial Closed-in Pressure | 30 Mins. | 30 Mins. |
| D | Initial Closed-in Pressure | 466 P.S.I. | | Second Flow Pressure | 60 Mins. | 60 Mins. |
| E | Second Initial Flow Pressure | 107 P.S.I. | | Final Closed-in Pressure | 30 Mins. | 30 Mins. |
| F | Second Final Flow Pressure | 236 P.S.I. | | | | |
| G | Final Closed-in Pressure | 449 P.S.I. | | | | |
| H | Final Hydrostatic Mud | 1763 P.S.I. | | | | |

## PRESSURE BREAKDOWN

**First Flow Pressure**
Breakdown: 3 Inc. of 5 mins. and a final inc. of ____ Min.

| Point | Mins. | Press. |
|---|---|---|
| P 1 | 0 | 40 |
| P 2 | 5 | 50 |
| P 3 | 10 | 68 |
| P 4 | 15 | 82 |
| P 5 | | |
| P 6 | | |
| P 7 | | |
| P 8 | | |
| P 9 | | |
| P10 | | |
| P11 | | |
| P12 | | |
| P13 | | |
| P14 | | |
| P15 | | |
| P16 | | |
| P17 | | |
| P18 | | |
| P19 | | |
| P20 | | |

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

| Point Minutes | Press. |
|---|---|
| 0 | 82 |
| 3 | 424 |
| 6 | 442 |
| 9 | 451 |
| 12 | 456 |
| 15 | 459 |
| 18 | 462 |
| 21 | 463 |
| 24 | 464 |
| 27 | 465 |
| 30 | 466 |

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

| Point Minutes | Press. |
|---|---|
| 0 | 107 |
| 5 | 112 |
| 10 | 126 |
| 15 | 140 |
| 20 | 154 |
| 25 | 165 |
| 30 | 178 |
| 35 | 191 |
| 40 | 202 |
| 45 | 211 |
| 50 | 222 |
| 55 | 232 |
| 60 | 236 |

**Final Shut-In**
Breakdown: 10 Inc. of 3 mins. and a final inc. of ____ Min.

| Point Minutes | Press. |
|---|---|
| 0 | 236 |
| 3 | 411 |
| 6 | 432 |
| 9 | 438 |
| 12 | 441 |
| 15 | 442 |
| 18 | 444 |
| 21 | 446 |
| 24 | 447 |
| 27 | 448 |
| 30 | 449 |

Vincent Oil Corp.

Test Ticket # 14630

WESTERN TESTING CO., INC.
GREAT BEND, KANSAS 67530
(316) 793-7903

# FIELD EVALUATIONS

Ticket No. 14630

Date 5-2-71

To Vincent Oil Corp.
719 Union Center Bldg.
Wichita, Kansas

These calculations are based upon information furnished by you and taken from drill stem test pressure charts and are furnished for your information. In furnishing such calculations and evaluations, Western Testing Co., Inc. is merely expressing its opinion. You agree that The Testing Company makes no warranty as to the accuracy of such calculations or opinions and the Testing Company shall not be liable for any loss or damage, whether due to negligence or otherwise in connection with such calculations and opinions.

We Give Below Results of Drill Stem Evaluation

Lease # 1 Dietz Sec. 33 Twp. 15S Rge. 14W

County Russell Test Interval 3284' - 3325'

## FINAL

P.S.I. Slope Cycle $\left[ M = \frac{Pisi - Pfsi}{\text{Log } \frac{T + t}{t}} \right]$ 35.00

Damage Ratio $\left[ DR = .183 \frac{Ps - Pf}{M} \right]$ 1.80

Production $\left[ Q = \frac{1440\ R}{t} \right]$ 1.44 Bbls./Hr.
33.56 Bbls./Day

Effective Pay $\left[ K_1 = \frac{Kh}{hl} \right]$ 33.33 Md. Ft. 170.66 Av. Perm per 6 ft. of effective pay

Theoretical Potential With Damage Removed $\left[ Q_1 = Q\ DR \right]$ 61.40 Bbls./Day

Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Vincent Oil Corp. Lease & Well No. Dietz #1

Elevation 1909 Kelly Bushings Formation Arbuckle Effective Pay ____ Ft. Ticket No. 14631

Date 4-24-71 Sec. 33 Twp. 15S Range 14W County Russell State Kansas

Test Approved by Robert G. Brooks Western Representative Dean Blagrave

Formation Test No. 4 O.K. X Misrun ____ Interval Tested From 3364' to 3377' Total Depth 3377'

Size Main Hole 7 7/8" Rat Hole ____ Conv. ____ B.T. X Damaged ____ Yes X No Conv. ____ B.T. ____ Damaged ____ Yes ____ No

Packer Depth 3364 Ft. Size 6 3/4" Packer Depth ____ Ft. Size ____

Straddle ____ Yes ____ No X Conv. ____ B.T. ____ Damaged ____ Yes ____ No

Packer Depth ____ Ft. Size ____

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 13 Ft. Size 5 1/2" O.D.

RECORDERS Depth 3368 Ft. Clock No. 6899 Depth 3371 Ft. Clock No. 9102

Top Make Kuster Cap. 4000 No. 3659 Inside ~~Outside~~ Bottom Make Kuster Cap. 4000 No. 3660 ~~Inside~~ Outside

Below Straddle: Depth ____ Clock No. ____ Inside Outside Depth ____ Ft. Clock No. ____ Inside Outside

Top Make ____ Cap. ____ No. ____ Inside Outside Bottom Make ____ Cap. ____ No. ____ Inside Outside

Time Set Packer 10:06 P.M

Tool Open I.F.P. From 10:08 M. to 10:23P M. Hr. 15 Min. From (B) 34 P.S.I. To (C) 89 P.S.I.

Tool Closed I.C.I.P. From 10:23 M. to 10:53P M. Hr. 30 Min. (D) 977 P.S.I.

Tool Open F.F.P. From 10:53 M. to 11:53P M. 1 Hr. ____ Min. From (E) 126 P.S.I. To (F) 295 P.S.I.

Tool Closed F.C.I.P. From 11:53 M. to 12:23A M. Hr. 30 Min. (G) 922 P.S.I.

Initial Hydrostatic Pressure (A) 1833 P.S.I. Final Hydrostatic Pressure (H) 1800 P.S.I.

| SURFACE INFORMATION | Size Choke | Max. Press. P.S.I. | Time | Description of Flow |
|---|---|---|---|---|
| | 1/4 In. | | M. | |
| | | | M. | |
| | | | M. | |

BLOW ~~BUILT~~ Strong thru out Bottom Choke Size 3/4 In.

Did Well Flow ____ Yes X No Recovery Total Ft. 90 feet gas in pipe - 545 feet gassy oil - 240 feet muddy gassy oil

Reversed Out ____ Yes X No Mud Type Starch Viscosity 43 Weight 10.1 Water Loss 10.4 cc. Maximum Temp. 103 °F

Type Circ. Sub. Plug Did Tool Plug? No Jars: Size ____ Make ____ Ser. No. ____

EXTRA EQUIPMENT: Dual Packers No Safety Joint No Did Packer Hold? Yes Where? ____

Length Drill Pipe 2460 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 933 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars None ft.

I. D. Drill Collars ____ in. Length D.S.T. Tool 26 ft.

Remarks

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

Date 4-24-71 Test Ticket No. 14631

Recorder No. 3659 Capacity 4000 Location 3368 Ft.

Clock No. 6899 Elevation 1909 Kelly Bushings Well Temperature 103 °F

| Point | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|
| A Initial Hydrostatic Mud | 1833 P.S.I. | Open Tool | 10:06 P. M | |
| B First Initial Flow Pressure | 34 P.S.I. | First Flow Pressure | 15 Mins. | 15 Mins. |
| C First Final Flow Pressure | 89 P.S.I. | Initial Closed-in Pressure | 30 Mins. | 30 Mins. |
| D Initial Closed-in Pressure | 977 P.S.I. | Second Flow Pressure | 60 Mins. | 60 Mins. |
| E Second Initial Flow Pressure | 126 P.S.I. | Final Closed-in Pressure | 30 Mins. | 32 Mins. |
| F Second Final Flow Pressure | 295 P.S.I. | | | |
| G Final Closed-in Pressure | 922 P.S.I. | | | |
| H Final Hydrostatic Mud | 1800 P.S.I. | | | |

## PRESSURE BREAKDOWN

**First Flow Pressure**
Breakdown: 3 Inc. of 5 mins. and a final inc. of ____ Min.

| Point Mins. | Press. |
|---|---|
| P 1 0 | 34 |
| P 2 5 | 44 |
| P 3 10 | 70 |
| P 4 15 | 89 |
| P 5 | |
| P 6 | |
| P 7 | |
| P 8 | |
| P 9 | |
| P10 | |
| P11 | |
| P12 | |
| P13 | |
| P14 | |
| P15 | |
| P16 | |
| P17 | |
| P18 | |
| P19 | |
| P20 | |

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

| Point Minutes | Press. |
|---|---|
| 0 | 89 |
| 3 | 663 |
| 6 | 778 |
| 9 | 838 |
| 12 | 879 |
| 15 | 905 |
| 18 | 929 |
| 21 | 945 |
| 24 | 958 |
| 27 | 968 |
| 30 | 977 |

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

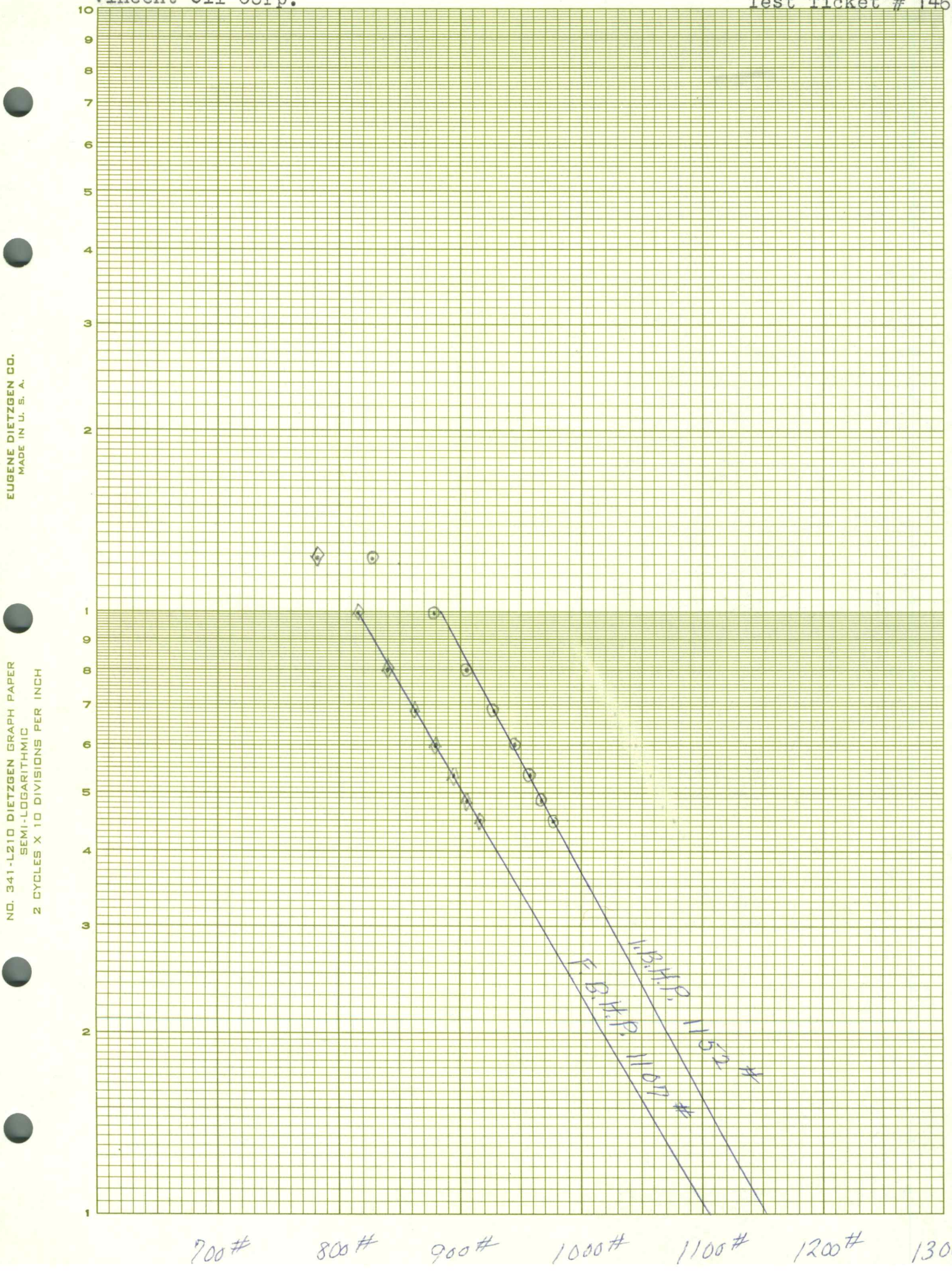
| Point Minutes | Press. |
|---|---|
| 0 | 126 |
| 5 | 128 |
| 10 | 144 |
| 15 | 163 |
| 20 | 177 |
| 25 | 193 |
| 30 | 212 |
| 35 | 228 |
| 40 | 242 |
| 45 | 258 |
| 50 | 271 |
| 55 | 285 |
| 60 | 295 |

**Final Shut-In**
Breakdown: 10 Inc. of 3 mins. and a final inc. of 2 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 295 |
| 3 | 640 |
| 6 | 732 |
| 9 | 781 |
| 12 | 816 |
| 15 | 840 |
| 18 | 862 |
| 21 | 880 |
| 24 | 894 |
| 27 | 906 |
| 30 | 916 |
| 32 | 922 |

Vincent Oil Corp.

Test Ticket # 14631




EUGENE DIETZGEN CO.
MADE IN U. S. A.

NO. 341-L210 DIETZGEN GRAPH PAPER
SEMI-LOGARITHMIC
2 CYCLES X 10 DIVISIONS PER INCH

WESTERN TESTING CO., INC.
GREAT BEND, KANSAS 67530
(316) 793-7903

# FIELD EVALUATIONS

Ticket No. 14631

Date 5-2-71

To Vincent Oil Corp.
719 Union Center Bldg.
Wichita, Kansas



We Give Below Results of Drill Stem Evaluation

Lease ~~Dietz~~ Russell Sec. 33 Twp. 15S Rge. 14W

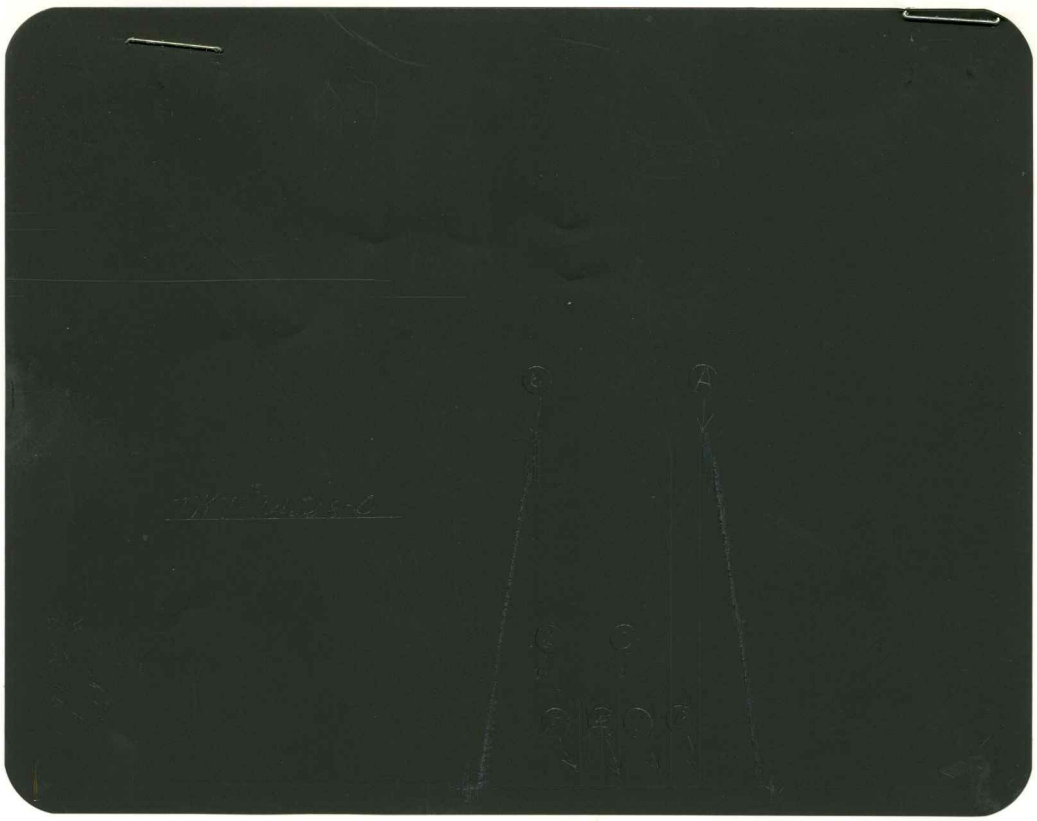
County Russell Test Interval 3364' - 3377'

## FINAL

| | | | |
|---|---|---|---|
| P.S.I. Slope Cycle | $M = \frac{Pisi - Pfsi}{Log \frac{T + t}{t}}$ | 120.00 | |
| Damage Ratio | $DR = .183 \frac{Ps - Pf}{M}$ | 0.00 | |
| Production | $Q = \frac{1440\ R}{t}$ | 3.98<br>95.52 | Bbls./Hr.<br>Bbls./Day |
| Effective Pay | $K_1 = \frac{Kh}{hl}$ | 25.00 | Md. Ft. |
| Theoretical Potential With Damage Removed | $Q_1 = Q\ DR$ | 95.52 | Bbls./Day |

150.00 Av Perm, per 6 ft. of effective pay

COMPANY Vincent Oil Corp. LEASE AND WELL NO. Dietz #1 SEC. 33 TWP. 15S RGE. 14W TEST NO. 1 DATE 4-22-71

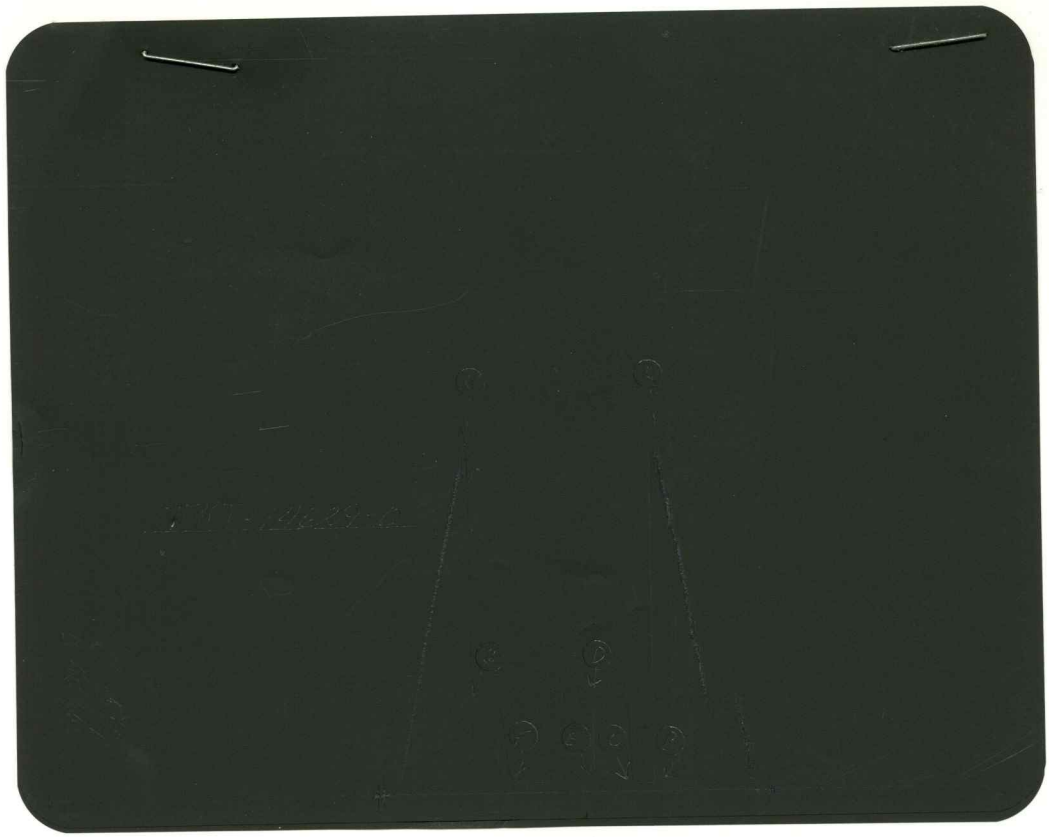


This is an actual photograph of recorder chart.

| POINT | | PRESSURE Field Reading | Office Reading | |
|---|---|---|---|---|
| (A) | Initial Hydrostatic Mud | 1740 | 1742 | PSI |
| (B) | First Initial Flow Pressure | 30 | 28 | PSI |
| (C) | First Final Flow Pressure | 30 | 32 | PSI |
| (D) | Initial Closed-in Pressure | 520 | 526 | PSI |
| (E) | Second Initial Flow Pressure | 30 | 36 | PSI |
| (F) | Second Final Flow Pressure | 30 | 50 | PSI |
| (G) | Final Closed-in Pressure | 500 | 510 | PSI |
| (H) | Final Hydrostatic Mud | 1710 | 1722 | PSI |

Tight

COMPANY Vincent Oil Corp. LEASE AND WELL NO. Dietz #1 SEC. 33 TWP. 15S RGE. 14W TEST NO. 2 DATE 4-23-71



This is an actual photograph of recorder chart.

| POINT | | PRESSURE Field Reading | Office Reading | |
|---|---|---|---|---|
| (A) | Initial Hydrostatic Mud | 1750 | 1747 | PSI |
| (B) | First Initial Flow Pressure | 20 | 26 | PSI |
| (C) | First Final Flow Pressure | 20 | 27 | PSI |
| (D) | Initial Closed-in Pressure | 490 | 495 | PSI |
| (E) | Second Initial Flow Pressure | 30 | 31 | PSI |
| (F) | Second Final Flow Pressure | 50 | 48 | PSI |
| (G) | Final Closed-in Pressure | 460 | 460 | PSI |
| (H) | Final Hydrostatic Mud | 1720 | 1726 | PSI |

COMPANY Vincent Oil Corp. LEASE AND WELL NO. Dietz #1 SEC. 33 TWP. 15S RGE. 14W TEST NO. 3 DATE 4-24-71

This is an actual photograph of recorder chart.

| POINT | | PRESSURE Field Reading | Office Reading | |
|---|---|---|---|---|
| (A) | Initial Hydrostatic Mud | 1800 | 1796 | PSI |
| (B) | First Initial Flow Pressure | 40 | 40 | PSI |
| (C) | First Final Flow Pressure | 80 | 82 | PSI |
| (D) | Initial Closed-in Pressure | 460 | 466 | PSI |
| (E) | Second Initial Flow Pressure | 100 | 107 | PSI |
| (F) | Second Final Flow Pressure | 230 | 236 | PSI |
| (G) | Final Closed-in Pressure | 450 | 449 | PSI |
| (H) | Final Hydrostatic Mud | 1760 | 1763 | PSI |

COMPANY Vincent Oil Corp. LEASE AND WELL NO. Dietz #1 SEC. 33 TWP. 15S RGE. 14W TEST NO. 4 DATE 4-4-24-71

This is an actual photograph of recorder chart.

| POINT | | PRESSURE Field Reading | Office Reading | |
|---|---|---|---|---|
| (A) | Initial Hydrostatic Mud | 1830 | 1833 | PSI |
| (B) | First Initial Flow Pressure | 30 | 34 | PSI |
| (C) | First Final Flow Pressure | 80 | 89 | PSI |
| (D) | Initial Closed-in Pressure | 970 | 977 | PSI |
| (E) | Second Initial Flow Pressure | 120 | 126 | PSI |
| (F) | Second Final Flow Pressure | 290 | 295 | PSI |
| (G) | Final Closed-in Pressure | 920 | 922 | PSI |
| (H) | Final Hydrostatic Mud | 1800 | 1800 | PSI |