

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

KCC

APR 6

CONFIDENTIAL

Operator: License # 5337

Name: Nadel and Gussman

Address 3200 First National Tower

City/State/Zip Tulsa, Ok 74103

Purchaser: \_\_\_\_\_

Operator Contact Person: Joe Anderson

Phone (918) 583-3333

Contractor: Name: Lobo Drilling Company

License: 5864

Wellsite Geologist: \_\_\_\_\_

Designate Type of Completion  
 New Well  Re-Entry  Workover; 1 (109)

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

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

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

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

03-14-92 03-22-92  
Spud Date Date Reached TD Completion Date

API NO. 15- 151-22,080 - 90-40

County Pratt

SE SE NE  Sec. 23 Twp. 28 S Rge. 11  W

2310  Feet from W (circle one) Line of Section

330  Feet from E (circle one) Line of Section

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

Lease Name Waylan  Well # 1

Field Name Wildcat

Producing Formation \_\_\_\_\_

Elevation: Ground 1768 KB 1759

Total Depth 4650 PBDT \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at 311 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan A I-I DFO  
(Data must be collected from the Reserve Pit)

Chloride content 2000 ppm Fluid volume 720 bbls

Dewatering method used haul off

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name Studer Oil Co.

Lease Name Studer SWD License No. 9582

SW/4 Quarter Sec. 4 Twp. 27 S Rng. 12  W

County Pratt Docket No. \_\_\_\_\_

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

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

Signature Joe Anderson Joe Anderson

Title Chief Engineer Date 4-6-92

Subscribed and sworn to before me this 6th day of April, 19 92.

Notary Public Kathy Carro

Date Commission Expires 8-1-95

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
Distribution  
XCC \_\_\_\_\_ SWD/Rep \_\_\_\_\_ NGPA  
KGS \_\_\_\_\_ Plug \_\_\_\_\_ Other \_\_\_\_\_ (Specify)

Operator Name Nadel and Gussman Lease Name Waylan Well # 1

Sec. 23 Twp. 28 Rge. 11  East  West  
 County Pratt

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

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets.)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No  
 (Submit Copy.)

List All E.Logs Run:

Dual Induction  
 Density - Neutron

Log Formation (Top), Depth and Datums  Sample

| Name        | Top         | Datum       |
|-------------|-------------|-------------|
| Mississippi | 4162(12394) | 4234(-2466) |
| Arbuckle    | 4619(-2851) | 4650(-2882) |

DST:1 4134-4182 Times: 35-60-25-99  
 IFP 84-84 psi FFP 109-109 psi ISP 60-1186  
 FSP 99-1371 Recovered: 120' gas 90' oil  
 cut mud.

DST:2 4132-4212 Times: 30-60-30-96  
 IFP 30-75 psi FFP 30-107 psi ISP 60-144  
 FSP 96-1432 Recovered: 150' thin mud

| CASING RECORD <input type="checkbox"/> Now <input type="checkbox"/> Used  |                   |                           |                 |               |                |              |                            |
|---|-------------------|---------------------------|-----------------|---------------|----------------|--------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc. |                   |                           |                 |               |                |              |                            |
| Purpose of String   | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs./Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| Surface   | 12 1/4"           | 8-5/8"                    | 23#             | 311'          | 60/40poz       | 190          | 2% gel 3% cc               |
|   |                   |                           |                 |               |                |              |                            |
|   |                   |                           |                 |               |                |              |                            |

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

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

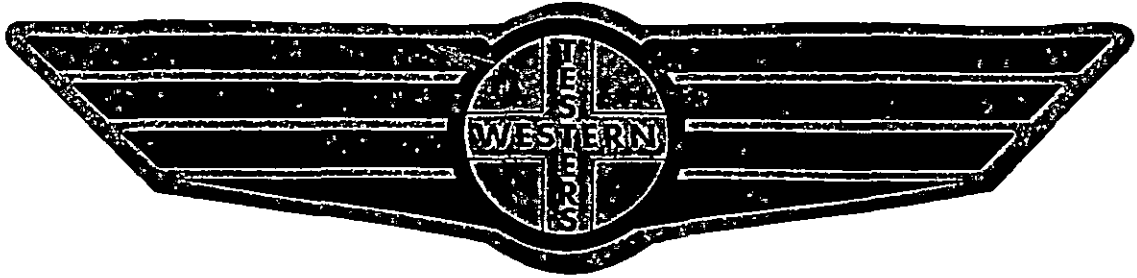
| TUBING RECORD                                   |                  | Size                             | Set At                           | Packer At                         | Liner Run                                | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|---|------------------|----------------------------------|----------------------------------|-----------------------------------|--|--|
| Date of First, Resumed Production, SWD or Inj.] | Producing Method | <input type="checkbox"/> Flowing | <input type="checkbox"/> Pumping | <input type="checkbox"/> Gas Lift | <input type="checkbox"/> Other (Explain) |  |
| Estimated Production Per 24 Hours               | Oil Bbls.        | Gas Mcf                          | Water Bbls.                      | Gas-Oil Ratio                     | Gravity                                  |  |

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

METHOD OF COMPLETION:  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_

Production Interval \_\_\_\_\_

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800 - 688 - 7021

COMPANY NADEL & GUSSMAN

LEASE & WELL NO. MAYLAN #1

SEC. 23 TWP. 28S RGE. 11W TEST NO. 1

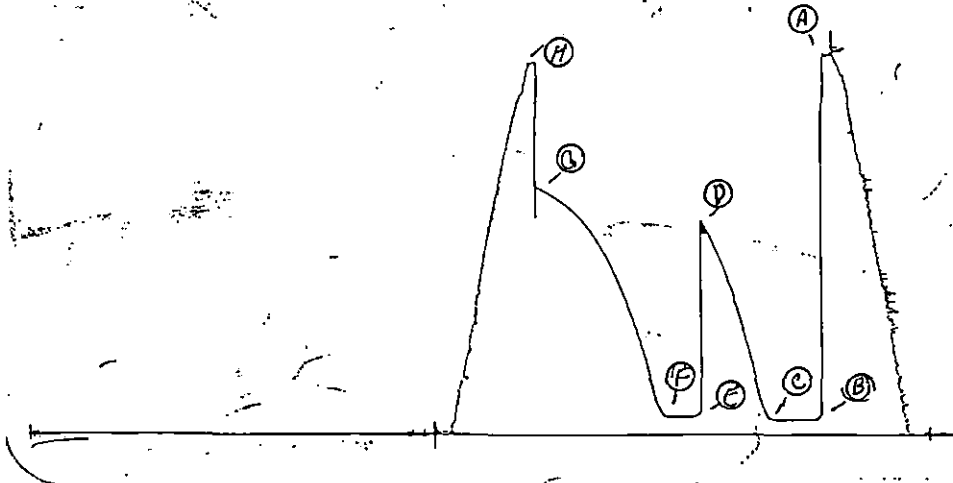
DATE 3/19/92

1051 DST #1



TKT 17644

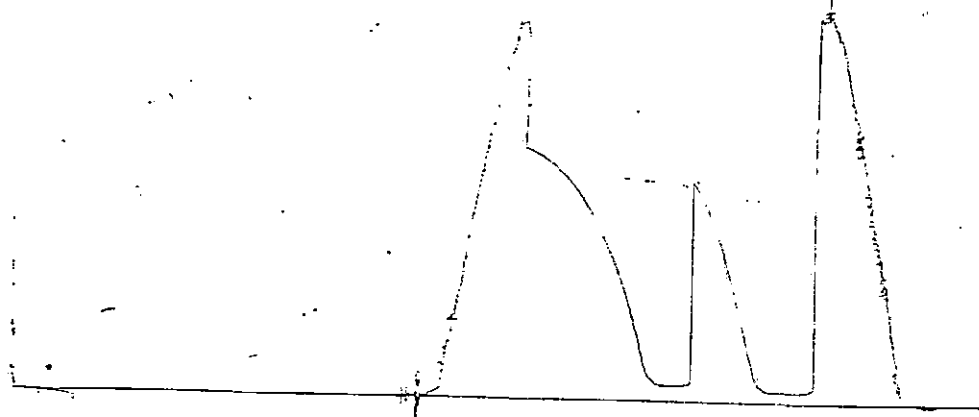
I



Inside Recorder

4332 DST #1

TKT 17644



Outside Recorder

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 3/19/92  
CUSTOMER : NADEL & GUSSMAN  
WELL : 1 TEST: 1  
ELEVATION : 1777 KB  
SECTION : 23  
RANGE : 11W COUNTY : PRATT  
GAUGE SN# : 1051 RANGE : 4250  
TICKET : 17644  
LEASE : WAYLAN  
GEOLOGIST : NEFF  
FORMATION : MISSISSIPPI  
TOWNSHIP : 28S  
STATE : KANSAS  
CLOCK : 12

INTERVAL FROM : 4134 TO : 4182 TOTAL DEPTH : 4182  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 4129 SIZE : 6.63  
PACKER DEPTH : 4134 SIZE : 6.63  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : LOBO DRLG  
MUD TYPE : CHEMICAL VISCOSITY : 47  
WEIGHT : 9.2 WATER LOSS (CC) : 12  
CHLORIDES (PPM) : 8500  
JARS-MAKE : NO SERIAL NUMBER :  
DID WELL FLOW ? : REVERSED OUT ? :

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00  
WEIGHT PIPE LENGTH : 577 FT I.D. inch : 2.50  
DRILL PIPE LENGTH : 3535 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 22 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 48 FT ANCHOR SIZE : 5.50  
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75  
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5XH

BLOW COMMENT #1 : INITIAL FLOW PERIOD WEAK BLOW BUILDING TO  
BLOW COMMENT #2 : A GOOD 7 INCH BLOW.  
BLOW COMMENT #3 : FINAL FLOW PERIOD WEAK TO FAIR 4 INCH BLOW.  
BLOW COMMENT #4 :

RECOVERED : 90 FT OF: OIL CUT MUD  
RECOVERED : 0 FT OF: 3%OIL;7%WATER;90%MUD

Total Barrels Fluid = 0.55  
Total Fluid Prod Rate = 13.11 BFPD  
Indicated Oil Rate = 0.39 BOPD  
Indicated Wtr Rate = 0.92 BWPD  
Corrected Oil Rate = 9.72 BOPD  
Corrected Wtr Rate = 22.68 BWPD

REMARK 1 :  
REMARK 2 : RECOVERED 120 FT GAS ABOVE FLUID  
REMARK 3 :  
REMARK 4 :

SET PACKER(S) : 9:00 AM TIME STARTED OFF BOTTOM : 12:30 PM  
WELL TEMPERATURE : 123  
INITIAL HYDROSTATIC PRESSURE (A) 2103  
INITIAL FLOW PERIOD MIN: 35 (B) 84 PSI TO (C) : 84  
INITIAL CLOSED IN PERIOD MIN: 60 (D) 1186  
FINAL FLOW PERIOD MIN: 25 (E) 109 PSI TO (F) : 109  
FINAL CLOSED IN PERIOD MIN: 99 (G) 1371  
FINAL HYDROSTATIC PRESSURE (H) 2051

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report  
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COMPANY : NADEL & GUSSMAN  
RIG : PRATT-KANSAS  
FIELD : WAYLAN  
WELL : 1  
DATE : 3/19/92  
GAUGE NO : 1051

OPERATIONAL COMMENTS

RECOVERED 120 FT GAS ABOVE FLUID

COMPANY : NADEL & GUSSMAN  
 WELL : 1  
 GAUGE # : 1051  
 DATE : 19/ 3/92

FIELD : WAYLAN  
 JOB # : 17644  
 DEPTH : 4182  
 TEST :

| DATA No.               | REAL TIME HR:MN:SS | ELAPSE TIME DELTA HOURS | PRESSURE PSIG | TEMP DEG F | DELTA P Pi-P(i-1) |
|------------------------|--------------------|-------------------------|---------------|------------|-------------------|
| INITIAL FLOW PERIOD    |                    |                         |               |            |                   |
| 2                      | 9: 0: 0            | 0.000                   | 84.000        | 123.00     | 0.000             |
| 3                      | 9: 4:59            | 0.083                   | 84.000        | 123.00     | 0.000             |
| 4                      | 9:10: 0            | 0.167                   | 84.000        | 123.00     | 0.000             |
| 5                      | 9:15: 0            | 0.250                   | 84.000        | 123.00     | 0.000             |
| 6                      | 9:19:59            | 0.333                   | 84.000        | 123.00     | 0.000             |
| 7                      | 9:25: 0            | 0.417                   | 84.000        | 123.00     | 0.000             |
| 8                      | 9:30: 0            | 0.500                   | 84.000        | 123.00     | 0.000             |
| 9                      | 9:34:59            | 0.583                   | 84.000        | 123.00     | 0.000             |
| INITIAL SHUT-IN PERIOD |                    |                         |               |            |                   |
| 10                     | 9:37:59            | 0.633                   | 93.000        | 123.00     | 9.000             |
| 11                     | 9:40:59            | 0.683                   | 134.000       | 123.00     | 41.000            |
| 12                     | 9:43:59            | 0.733                   | 192.000       | 123.00     | 58.000            |
| 13                     | 9:46:59            | 0.783                   | 275.000       | 123.00     | 83.000            |
| 14                     | 9:49:59            | 0.833                   | 366.000       | 123.00     | 91.000            |
| 15                     | 9:52:59            | 0.883                   | 455.000       | 123.00     | 89.000            |
| 16                     | 9:55:59            | 0.933                   | 481.000       | 123.00     | 26.000            |
| 17                     | 9:58:59            | 0.983                   | 553.000       | 123.00     | 72.000            |
| 18                     | 10: 1:59           | 1.033                   | 634.000       | 123.00     | 81.000            |
| 19                     | 10: 4:59           | 1.083                   | 673.000       | 123.00     | 39.000            |
| 20                     | 10: 7:59           | 1.133                   | 736.000       | 123.00     | 63.000            |
| 21                     | 10:10:59           | 1.183                   | 817.000       | 123.00     | 81.000            |
| 22                     | 10:13:59           | 1.233                   | 875.000       | 123.00     | 58.000            |
| 23                     | 10:16:59           | 1.283                   | 923.000       | 123.00     | 48.000            |
| 24                     | 10:19:59           | 1.333                   | 968.000       | 123.00     | 45.000            |
| 25                     | 10:22:59           | 1.383                   | 1015.000      | 123.00     | 47.000            |
| 26                     | 10:25:59           | 1.433                   | 1057.000      | 123.00     | 42.000            |
| 27                     | 10:28:59           | 1.483                   | 1091.000      | 123.00     | 34.000            |
| 28                     | 10:31:59           | 1.533                   | 1140.000      | 123.00     | 49.000            |
| 29                     | 10:34:59           | 1.583                   | 1186.000      | 123.00     | 46.000            |
| FINAL FLOW PERIOD      |                    |                         |               |            |                   |
| 30                     | 10:36: 0           | 1.600                   | 109.000       | 123.00     | -1077.000         |
| 31                     | 10:39:59           | 1.667                   | 109.000       | 123.00     | 0.000             |
| 32                     | 10:45: 0           | 1.750                   | 109.000       | 123.00     | 0.000             |
| 33                     | 10:49:59           | 1.833                   | 109.000       | 123.00     | 0.000             |
| 34                     | 10:54:59           | 1.917                   | 109.000       | 123.00     | 0.000             |
| 35                     | 11: 0: 0           | 2.000                   | 109.000       | 123.00     | 0.000             |
| FINAL FLOW PERIOD      |                    |                         |               |            |                   |
| 36                     | 11: 3: 0           | 2.050                   | 118.000       | 123.00     | 9.000             |
| 37                     | 11: 5:59           | 2.100                   | 155.000       | 123.00     | 37.000            |
| 38                     | 11: 9: 0           | 2.150                   | 212.000       | 123.00     | 57.000            |
| 39                     | 11:12: 0           | 2.200                   | 289.000       | 123.00     | 77.000            |
| 40                     | 11:15: 0           | 2.250                   | 354.000       | 123.00     | 65.000            |
| 41                     | 11:18: 0           | 2.300                   | 432.000       | 123.00     | 78.000            |
| 42                     | 11:21: 0           | 2.350                   | 491.000       | 123.00     | 59.000            |
| 43                     | 11:24: 0           | 2.400                   | 555.000       | 123.00     | 64.000            |
| 44                     | 11:27: 0           | 2.450                   | 610.000       | 123.00     | 55.000            |
| 45                     | 11:30: 0           | 2.500                   | 676.000       | 123.00     | 66.000            |
| 46                     | 11:33: 0           | 2.550                   | 726.000       | 123.00     | 50.000            |
| 47                     | 11:36: 0           | 2.600                   | 777.000       | 123.00     | 51.000            |
| 48                     | 11:39: 0           | 2.650                   | 825.000       | 123.00     | 48.000            |



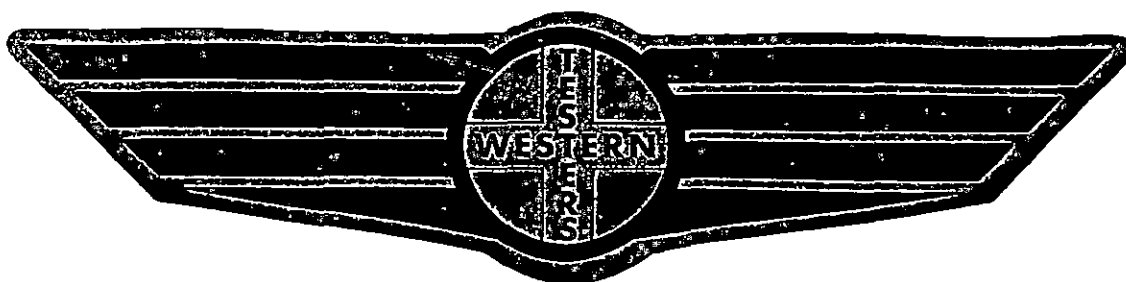
COMPANY : NADEL & GUSSMAN  
WELL : 1  
GAUGE # : 1051  
DATE : 19/ 3/92

FIELD : WAYLAN  
JOB # : 17644  
DEPTH : 4182  
TEST :

| DATA<br>No. | REAL TIME<br>HR:MN:SS | ELAPSE TIME<br>DELTA HOURS | PRESSURE<br>PSIG | TEMP<br>DEG F | DELTA P<br>Pi-P(i-1) |
|-------------|-----------------------|----------------------------|------------------|---------------|----------------------|
| 49          | 11:42: 0              | 2.700                      | 875.000          | 123.00        | 50.000               |
| 50          | 11:45: 0              | 2.750                      | 917.000          | 123.00        | 42.000               |
| 51          | 11:48: 0              | 2.800                      | 964.000          | 123.00        | 47.000               |
| 52          | 11:51: 0              | 2.850                      | 1007.000         | 123.00        | 43.000               |
| 53          | 11:54: 0              | 2.900                      | 1046.000         | 123.00        | 39.000               |
| 54          | 11:57: 0              | 2.950                      | 1081.000         | 123.00        | 35.000               |
| 55          | 12: 0: 0              | 3.000                      | 1118.000         | 123.00        | 37.000               |
| 56          | 12: 3: 0              | 3.050                      | 1142.000         | 123.00        | 24.000               |
| 57          | 12: 6: 0              | 3.100                      | 1174.000         | 123.00        | 32.000               |
| 58          | 12: 9: 0              | 3.150                      | 1200.000         | 123.00        | 26.000               |
| 59          | 12:12: 0              | 3.200                      | 1224.000         | 123.00        | 24.000               |
| 60          | 12:15: 0              | 3.250                      | 1247.000         | 123.00        | 23.000               |
| 61          | 12:18: 0              | 3.300                      | 1267.000         | 123.00        | 20.000               |
| 62          | 12:21: 0              | 3.350                      | 1282.000         | 123.00        | 15.000               |
| 63          | 12:24: 0              | 3.400                      | 1302.000         | 123.00        | 20.000               |
| 64          | 12:27: 0              | 3.450                      | 1314.000         | 123.00        | 12.000               |
| 65          | 12:30: 0              | 3.500                      | 1331.000         | 123.00        | 17.000               |
| 66          | 12:33: 0              | 3.550                      | 1345.000         | 123.00        | 14.000               |
| 67          | 12:36: 0              | 3.600                      | 1358.000         | 123.00        | 13.000               |
| 68          | 12:39: 0              | 3.650                      | 1371.000         | 123.00        | 13.000               |

WESTERN TESTING CO. INC.

# FORMATION TEST REPORT



Home Office:

P.O. Box 1599

Wichita, Kansas 67201

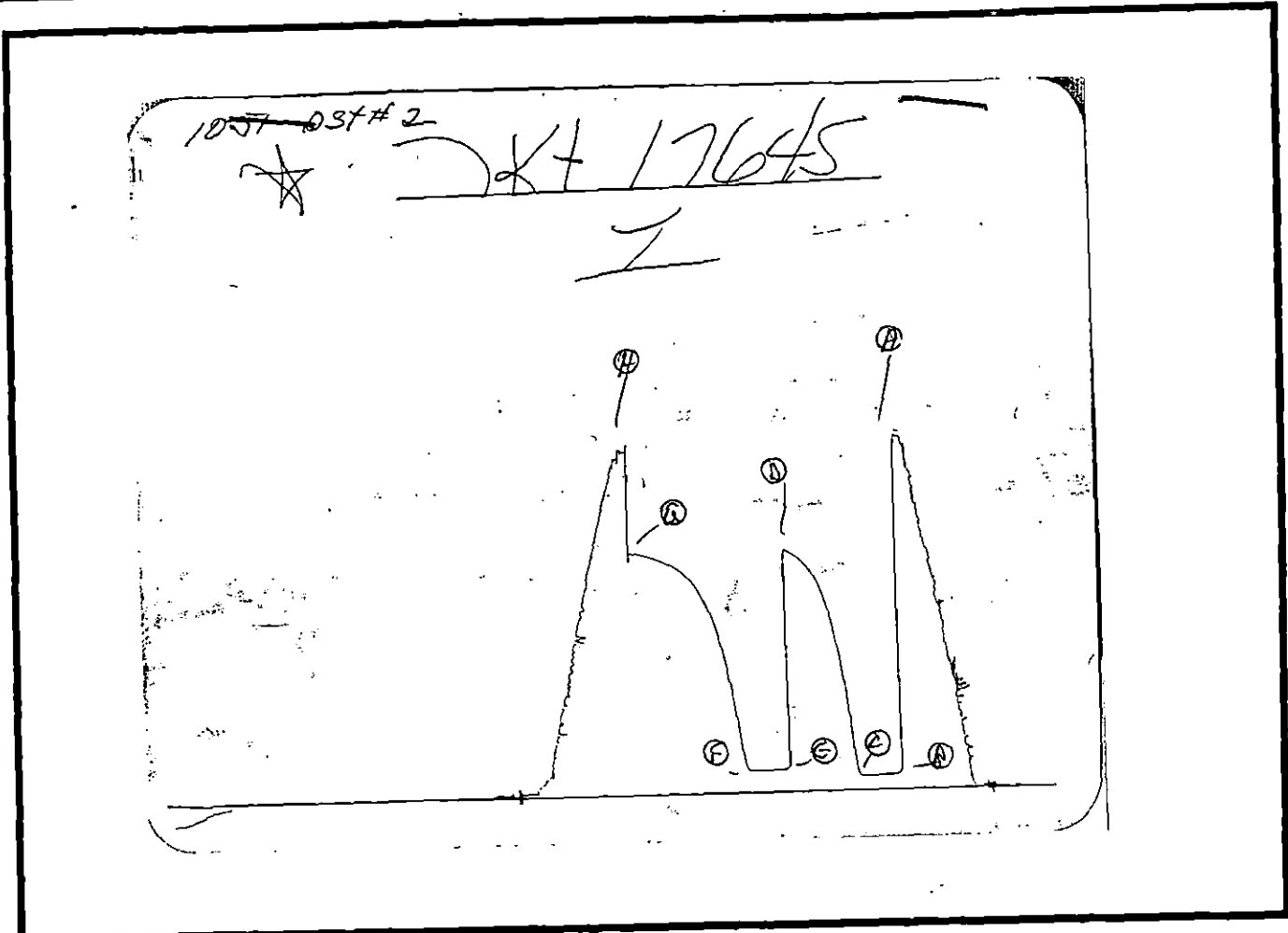
Phone 1-800-688-7021

COMPANY NADEL & GUSSMAN

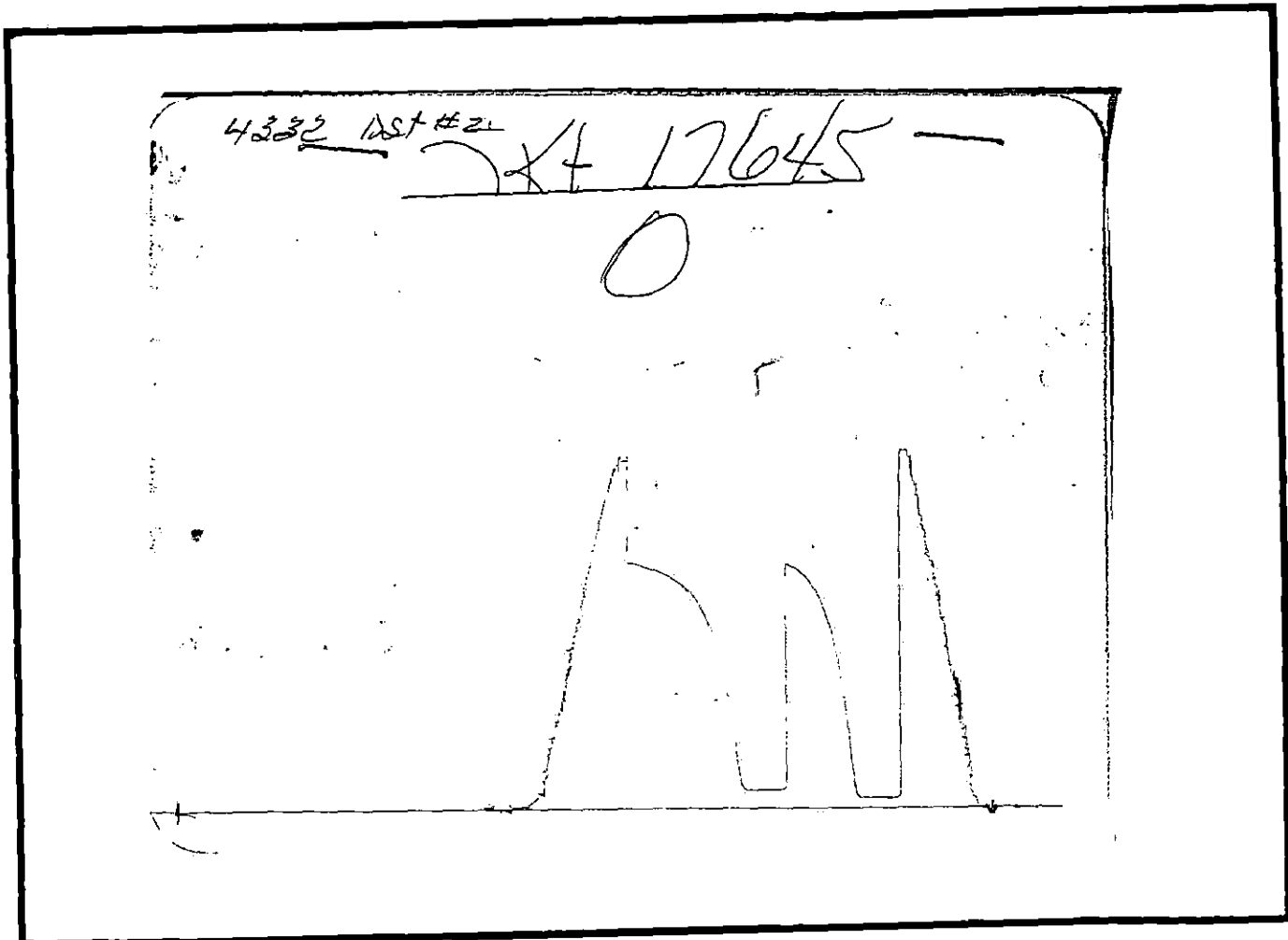
LEASE & WELL NO. WAYLON # 1-23

SEC. 23 TWP. 28S RGE. LIM TEST NO. 2

DATE 3/18/92



Inside Recorder



Outside Recorder

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 3/18/92 TICKET : 17645  
CUSTOMER : NADEL & GUSSMAN LEASE : WAYLAN  
WELL : 1 TEST: 2 GEOLOGIST : MCLEOD  
ELEVATION : 1777 KB FORMATION : MISSISSIPPI  
SECTION : 23 TOWNSHIP : 28S  
RANGE : 11W COUNTY : PRATT STATE : KANSAS  
GAUGE SN# : 1051 RANGE : 4250 CLOCK : 12

INTERVAL FROM : 4132 TO : 4212 TOTAL DEPTH : 4212  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 4127 SIZE : 6.63  
PACKER DEPTH : 4132 SIZE : 6.63  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : LOBO DRLG  
MUD TYPE : CHEMICAL VISCOSITY : 49  
WEIGHT : 9.0 WATER LOSS (CC) : 8.0  
CHLORIDES (PPM) : 8500  
JARS-MAKE : SERIAL NUMBER :  
DID WELL FLOW ? : REVERSED OUT ? :

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00  
WEIGHT PIPE LENGTH : 577 FT I.D. inch : 2.50  
DRILL PIPE LENGTH : 3533 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 22 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 80 FT ANCHOR SIZE : 5.50  
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75  
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5XH

BLOW COMMENT #1 : WEAK BLOW BUILDING TO A 4 INCH BLOW ON  
BLOW COMMENT #2 : BOTH FLOW PERIODS.  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

RECOVERED : 150 FT OF: THIN MUD

Total Barrels Fluid = 0.91  
Total Fluid Prod Rate = 21.86 BFPD  
Indicated Wtr Rate = 2.19 BWPD

REMARK 1 :  
REMARK 2 :  
REMARK 3 :  
REMARK 4 :

SET PACKER(S) : 9:20 PM

TIME STARTED OFF BOTTOM : 12:50 AM

WELL TEMPERATURE : 123

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 30

(A) 2112

(B) 75

PSI TO (C) : 75

INITIAL CLOSED IN PERIOD MIN: 60

(D) 1444

FINAL FLOW PERIOD MIN: 30

(E) 107

PSI TO (F) : 107

FINAL CLOSED IN PERIOD MIN: 96

(G) 1432

FINAL HYDROSTATIC PRESSURE

(H) 2059

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report

COMPANY : NADEL & GUSSMAN  
RIG : PRATT-KANSAS  
FIELD : WAYLAN  
WELL : 1  
DATE : 3/18/92  
GAUGE NO : 1051

OPERATIONAL COMMENTS

COMPANY : NADEL & GUSSMAN  
WELL : 1  
GAUGE # : 1051  
DATE : 18/ 3/92

FIELD : WAYLAN  
JOB # : 17645  
DEPTH : 4212  
TEST :

| DATA No.               | REAL TIME HR:MN:SS | ELAPSE TIME DELTA HOURS | PRESSURE PSIG | TEMP. DEG F | DELTA P Pi-P(i-1) |
|------------------------|--------------------|-------------------------|---------------|-------------|-------------------|
| INITIAL FLOW PERIOD    |                    |                         |               |             |                   |
| 2                      | 9:20: 0            | 0.000                   | 75.000        | 123.00      | 0.000             |
| 3                      | 9:24:59            | 0.083                   | 75.000        | 123.00      | 0.000             |
| 4                      | 9:30: 0            | 0.167                   | 75.000        | 123.00      | 0.000             |
| 5                      | 9:35: 0            | 0.250                   | 75.000        | 123.00      | 0.000             |
| 6                      | 9:39:59            | 0.333                   | 75.000        | 123.00      | 0.000             |
| 7                      | 9:45: 0            | 0.417                   | 75.000        | 123.00      | 0.000             |
| 8                      | 9:50: 0            | 0.500                   | 75.000        | 123.00      | 0.000             |
| INITIAL SHUT-IN PERIOD |                    |                         |               |             |                   |
| 9                      | 9:53: 0            | 0.550                   | 77.000        | 123.00      | 2.000             |
| 10                     | 9:56: 0            | 0.600                   | 103.000       | 123.00      | 26.000            |
| 11                     | 9:59: 0            | 0.650                   | 116.000       | 123.00      | 13.000            |
| 12                     | 10: 2: 0           | 0.700                   | 409.000       | 123.00      | 293.000           |
| 13                     | 10: 5: 0           | 0.750                   | 586.000       | 123.00      | 177.000           |
| 14                     | 10: 8: 0           | 0.800                   | 725.000       | 123.00      | 139.000           |
| 15                     | 10:11: 0           | 0.850                   | 846.000       | 123.00      | 121.000           |
| 16                     | 10:14: 0           | 0.900                   | 944.000       | 123.00      | 98.000            |
| 17                     | 10:17: 0           | 0.950                   | 1044.000      | 123.00      | 100.000           |
| 18                     | 10:20: 0           | 1.000                   | 1101.000      | 123.00      | 57.000            |
| 19                     | 10:23: 0           | 1.050                   | 1169.000      | 123.00      | 68.000            |
| 20                     | 10:26: 0           | 1.100                   | 1218.000      | 123.00      | 49.000            |
| 21                     | 10:29: 0           | 1.150                   | 1264.000      | 123.00      | 46.000            |
| 22                     | 10:32: 0           | 1.200                   | 1300.000      | 123.00      | 36.000            |
| 23                     | 10:35: 0           | 1.250                   | 1319.000      | 123.00      | 19.000            |
| 24                     | 10:38: 0           | 1.300                   | 1357.000      | 123.00      | 38.000            |
| 25                     | 10:41: 0           | 1.350                   | 1387.000      | 123.00      | 30.000            |
| 26                     | 10:44: 0           | 1.400                   | 1398.000      | 123.00      | 11.000            |
| 27                     | 10:47: 0           | 1.450                   | 1423.000      | 123.00      | 25.000            |
| 28                     | 10:50: 0           | 1.500                   | 1444.000      | 123.00      | 21.000            |
| FINAL FLOW PERIOD      |                    |                         |               |             |                   |
| 29                     | 10:51: 0           | 1.517                   | 107.000       | 123.00      | -1337.000         |
| 30                     | 10:54:59           | 1.583                   | 107.000       | 123.00      | 0.000             |
| 31                     | 11: 0: 0           | 1.667                   | 107.000       | 123.00      | 0.000             |
| 32                     | 11: 5: 0           | 1.750                   | 107.000       | 123.00      | 0.000             |
| 33                     | 11: 9:59           | 1.833                   | 107.000       | 123.00      | 0.000             |
| 34                     | 11:15: 0           | 1.917                   | 107.000       | 123.00      | 0.000             |
| 35                     | 11:20: 0           | 2.000                   | 107.000       | 123.00      | 0.000             |
| FINAL SHUT-IN PERIOD   |                    |                         |               |             |                   |
| 36                     | 11:23: 0           | 2.050                   | 137.000       | 123.00      | 30.000            |
| 37                     | 11:26: 0           | 2.100                   | 225.000       | 123.00      | 88.000            |
| 38                     | 11:29: 0           | 2.150                   | 415.000       | 123.00      | 190.000           |
| 39                     | 11:32: 0           | 2.200                   | 531.000       | 123.00      | 116.000           |
| 40                     | 11:35: 0           | 2.250                   | 663.000       | 123.00      | 132.000           |
| 41                     | 11:38: 0           | 2.300                   | 776.000       | 123.00      | 113.000           |
| 42                     | 11:41: 0           | 2.350                   | 857.000       | 123.00      | 81.000            |
| 43                     | 11:44: 0           | 2.400                   | 938.000       | 123.00      | 81.000            |
| 44                     | 11:47: 0           | 2.450                   | 995.000       | 123.00      | 57.000            |
| 45                     | 11:50: 0           | 2.500                   | 1065.000      | 123.00      | 70.000            |
| 46                     | 11:53: 0           | 2.550                   | 1103.000      | 123.00      | 38.000            |
| 47                     | 11:56: 0           | 2.600                   | 1148.000      | 123.00      | 45.000            |
| 48                     | 11:59: 0           | 2.650                   | 1196.000      | 123.00      | 48.000            |

COMPANY : NADEL & GUSSMAN  
WELL : 1  
GAUGE # : 1051  
DATE : 18/ 3/92

FIELD : WAYLAN  
JOB # : 17645  
DEPTH : 4212  
TEST :

| DATA<br>No. | REAL TIME<br>HR:MN:SS | ELAPSE TIME<br>DELTA HOURS | PRESSURE<br>PSIG | TEMP<br>DEG F | DELTA P<br>Pi-P(i-1) |
|-------------|-----------------------|----------------------------|------------------|---------------|----------------------|
| 49          | 12: 2: 0              | 2.700                      | 1226.000         | 123.00        | 30.000               |
| 50          | 12: 5: 0              | 2.750                      | 1254.000         | 123.00        | 28.000               |
| 51          | 12: 8: 0              | 2.800                      | 1281.000         | 123.00        | 27.000               |
| 52          | 12:11: 0              | 2.850                      | 1304.000         | 123.00        | 23.000               |
| 53          | 12:14: 0              | 2.900                      | 1319.000         | 123.00        | 15.000               |
| 54          | 12:17: 0              | 2.950                      | 1330.000         | 123.00        | 11.000               |
| 55          | 12:20: 0              | 3.000                      | 1347.000         | 123.00        | 17.000               |
| 56          | 12:23: 0              | 3.050                      | 1362.000         | 123.00        | 15.000               |
| 57          | 12:26: 0              | 3.100                      | 1374.000         | 123.00        | 12.000               |
| 58          | 12:29: 0              | 3.150                      | 1381.000         | 123.00        | 7.000                |
| 59          | 12:32: 0              | 3.200                      | 1387.000         | 123.00        | 6.000                |
| 60          | 12:35: 0              | 3.250                      | 1396.000         | 123.00        | 9.000                |
| 61          | 12:38: 0              | 3.300                      | 1404.000         | 123.00        | 8.000                |
| 62          | 12:41: 0              | 3.350                      | 1410.000         | 123.00        | 6.000                |
| 63          | 12:44: 0              | 3.400                      | 1417.000         | 123.00        | 7.000                |
| 64          | 12:47: 0              | 3.450                      | 1423.000         | 123.00        | 6.000                |
| 65          | 12:50: 0              | 3.500                      | 1430.000         | 123.00        | 7.000                |
| 66          | 12:53: 0              | 3.550                      | 1431.000         | 123.00        | 1.000                |
| 67          | 12:56: 0              | 3.600                      | 1432.000         | 123.00        | 1.000                |

WESTERN TESTING CO. INC.