

FORM MUST BE TYPED

ORIGINAL SIDE ONE

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

Operator: License # 5386

Name: Production Drilling Inc

Address PO Box 680

City/State/Zip Hays, KS 67601-0680

Purchaser: N/A

Operator Contact Person: Larry Patterson

Phone (913) 624-1189

Contractor: Name: Murfin Drilling Co

License: 30606

Wellsite Geologist: John R. Rose

Designate Type of Completion
 New Well Re-Entry Workover

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

KCC
JAH

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 PSTD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

6/18/92 6/27/92 6/27/92

Spud Date Date Reached TD Completion Date

API NO. 15- 171-20445-0000

County Scott

C-NE-SW - Sec.30 Twp.18 Rge.31 E

1980 Feet from SW (circle one) Line of Section

1980 Feet from E (circle one) Line of Section

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

Lease Name Pfenninger Well # 1

Field Name Beckley

Producing Formation LKC-MISS

Elevation: Ground 2964 KB 2973

Total Depth 4600 PSTD surface

Amount of Surface Pipe Set and Cemented at 254 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 cnt.

Drilling Fluid Management Plan ALT 2 D&A 9/17/92
(Data must be collected from the Reserve Pit)

Chloride content 500 ppm Fluid volume 1200 bbls

Dewatering method used _____

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ 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 [Signature]

Title Owner; President Date 7/24/92

Subscribed and sworn to before me this 21 day of July, 1992.

Notary Public [Signature]

Date Commission Expires 8/31/93

DEBORAH K. MCKUNE
Notary Public - State of Kansas
My Appt. Expires _____

| | |
|---|---|
| K.C.C. OFFICE USE ONLY | |
| F | Letter of Confidentiality Attached |
| C | <input checked="" type="checkbox"/> Wireline Log Received |
| C | Geologist Report Received |
| Distribution | |
| <input checked="" type="checkbox"/> KCC | <input type="checkbox"/> SWD/Rep |
| <input type="checkbox"/> KCS | <input type="checkbox"/> Plug |

Form ACD-1 (7-91)

RECEIVED
STATE CORPORATION COMMISSION
O&G
CONSERVATION DIVISION
Wichita, Kansas
JUL 22 1992
7-22-92

Operator Name Production Drilling Inc Lease Name Pfenninger Well # 1

Sec. 30 Twp. 18S Rge. 31
 C-NE-SW

East
 West

County Scott
ORIGINAL

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 sheets 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:
 DIL CDL-CNL

| Name | Formation (Top), Depth and Datum | | Sample |
|----------|----------------------------------|-------|--------|
| | Top | Datum | |
| Anhy | 2267 | +706 | |
| Heeb | 3887 | -914 | |
| Lansing | 3926 | -953 | |
| BKC | 4292 | -1319 | |
| FtScott | 4468 | -1495 | |
| Cherokee | 4493 | -1520 | |
| Miss | 4570 | -1597 | |

| CASING RECORD <input type="checkbox"/> New <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 | 20# | 260' | | KCC JAH 145 | |
| D & A | | | | | | | |

| 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 Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) | Depth |
|----------------|--|--|-------|
| | | | |
| | | | |
| | | | |

RECEIVED
 STATE COMPTROLLER
 JUL 27 1992
 7-27-92
 CONSERVATION DIVISION
 Wichita, Kansas

| TUBING RECORD | Size | Set At | Packoff | Wireline Run | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|---------------|------|--------|---------|--------------|--|
| | | | | | |

| Date of First, Resumed Production, SMD 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 _____

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Test Ticket

No 5013

Well Name & No. Pfenninger #1 Test No. 4 Date 6-26-92
 Company Production Drilling, Inc. Zone Tested Marmaton/Pawnee
 Address P.O. Box 680 Hays, KS. 67601-0680 Elevation 2973 (KB)
 Co. Rep./Geo. John Rose Cont. Murfin #20 Est. Ft. of Pay _____
 Location: Sec. 30 Twp. 18 S Rge. 31 W Co. Scott State KS.
 No. of Copies _____ Distribution Sheet _____ Yes _____ No Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 4285 - 4400 Drill Pipe Size 4 1/2" XH
 Anchor Length 115' Top Choke — 1" Bottom Choke — 3/4"
 Top Packer Depth 4280 Hole Size — 77/8" Rubber Size — 6 3/4"
 Bottom Packer Depth 4285 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 4400 Drill Collar — 2.25 Ft. Run 240'
 Mud Wt. 9.3 lb/gal. Viscosity 44 Filtrate 10.8
 Tool Open @ 1:45 am Initial Blow Weak surface blow built to 4".
ISI: Bled off blow - no return.
 Final Blow Surface return staying steady throughout.

| Recovery — Total Feet | Feet of Gas In Pipe | Flush Tool? |
|--|---|-------------|
| <u>250'</u> | | <u>No</u> |
| Rec. _____ Feet Of _____ | % gas _____ % oil _____ % water _____ % mud _____ | |
| Rec. <u>250'</u> Feet Of <u>Watery Mud</u> | % gas _____ % oil <u>50</u> % water <u>50</u> % mud _____ | |
| Rec. _____ Feet Of <u>w/ Show of Oil</u> | % gas _____ % oil _____ % water _____ % mud _____ | |
| Rec. _____ Feet Of <u>in Tool</u> | % gas _____ % oil _____ % water _____ % mud _____ | |
| Rec. _____ Feet Of _____ | % gas _____ % oil _____ % water _____ % mud _____ | |

BHT 128° °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW .57 @ 57° °F Chlorides 14,000 ppm Recovery Chlorides 2,000 ppm System
 (A) Initial Hydrostatic Mud 2113 PSI AK1 Recorder No. 13309 Range 4700
 (B) First Initial Flow Pressure 52 PSI @ (depth) 4360 w/Clock No. 25814
 (C) First Final Flow Pressure 83 PSI AK1 Recorder No. 13339 Range 4025
 (D) Initial Shut-In Pressure 929 PSI @ (depth) 4395 w/Clock No. 27566
 (E) Second Initial Flow Pressure 114 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 124 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 809 PSI Initial Opening 45 Test _____
 (H) Final Hydrostatic Mud 2073 PSI Initial Shut-in 60 Jars _____

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF 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, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Final Flow 45 Safety Joint X
 Final Shut-In 60 Straddle _____
7-27-92 Circ. Sub X n/c
 Sampler _____
 Extra Packer _____
 Other _____
 TOTAL PRICE \$ _____

Approved By _____
 Our Representative Rod Steinbrink

Test Ticket

Well Name & No. Pfenninger #1 Test No. 3 Date 6-25-92
 Company Production Drilling, Inc. Zone Tested B/KC / Marmaton
 Address P.O. Box 680 Hays, KS. 67601-0680 Elevation 2973 (KB)
 Co. Rep./Geo. John Rose cont. Murfin #20 Est. Ft. of Pay 1
 Location: Sec. 30 Twp. 18 S Rge. 31 W Co. Scott state KS
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 4206 - 4340 Drill Pipe Size 4 1/2" XH
 Anchor Length 134' Top Choke - 1" _____ Bottom Choke - 3/4" _____
 Top Packer Depth 4201 Hole Size - 7 7/8" _____ Rubber Size - 6 3/4" _____
 Bottom Packer Depth 4206 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Total Depth 4340 Drill Collar - 2.25 Ft. Run 180'
 Mud Wt. 9.2 lb/gal. Viscosity 47 Filtrate 9.6

Tool Open @ 7:27 am Initial Blow Surface blow died in 10 mins.
 ISI: No blow
 Final Blow No return - (1/4" valve was closed) Opened and blowing off bottom in 2 mins. FSI: Bled off blow - no return.

Recovery - Total Feet 1800' Feet of Gas in Pipe _____ Flush Tool? No

| Rec. | Feet Of | % gas | % oil | % water | % mud |
|--------------|------------------------------|------------|-----------|-----------|----------|
| <u>250'</u> | <u>Watery Mud</u> | <u>1</u> | <u>30</u> | <u>70</u> | <u>0</u> |
| | <u>w/show-oil throughout</u> | | | | |
| <u>1550'</u> | <u>Sulfur Water</u> | <u>100</u> | <u>0</u> | <u>0</u> | <u>0</u> |

BHT 131° °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW .38 @ 69° °F Chlorides 15,000 ppm Recovery Chlorides 2,000 ppm System

(A) Initial Hydrostatic Mud 2150 PSI AK1 Recorder No. 13309 Range 4700
 (B) First Initial Flow Pressure 155 PSI @ (depth) 4330 w/Clock No. 25814
 (C) First Final Flow Pressure 499 PSI AK1 Recorder No. 13339 Range 4025
 (D) Initial Shut-In Pressure 1110 PSI @ (depth) 4335 w/Clock No. 27566
 (E) Second Initial Flow Pressure 579 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 889 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 1110 PSI Initial Opening 30 Test _____
 (H) Final Hydrostatic Mud 2100 PSI Initial Shut-In 30 Jars _____

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF 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, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Final Flow RECEIVED 60 Safety Joint X
 Final Shut-In 60 Straddle _____
 Circ. Sub X 35.00
 Sampler _____
 Extra Packer _____
 Other _____
 TOTAL PRICE \$ _____

Approved By John Rose
 Our Representative Rod Steinbrink

JUL 27 1992
 7-27-92
 CONSERVATION DIVISION
 Wichita, Kansas

Test Ticket

No 5011

Well Name & No. Pfenninger #1 Test No. 2 Date 6-23-92
 Company Production Drilling, Inc. Zone Tested Lans. 'E'
 Address P.O. Box 680 Hays, KS. 67601-0680 Elevation 2973 (KB)
 Co. Rep./Geo. John Rose Cont. Murfin #20 Est. Ft. of Pay 5'
 Location: Sec. 30 Twp. 18 S Rge. 31 W Co. Scott State KS.
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 4216 - 4232 Drill Pipe Size 4 1/2" XH
 Anchor Length 16' Top Choke - 1" _____ Bottom Choke - 3/4" _____
 Top Packer Depth 4211 Hole Size - 7 7/8" _____ Rubber Size - 6 3/4" _____
 Bottom Packer Depth 4216 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Total Depth 4232 Drill Collar - 2.25 Ft. Run 180'
 Mud Wt. 9.1 lb/gal. Viscosity 48 Filtrate 9.6
 Tool Open @ 7:07 pm. Initial Blow Strong blow off bottom in 1 min.
ISI: Bled off blow - no return.
 Final Blow Fair to strong return off bottom in 12 mins.
FSI: Bled off blow - no return.

Recovery - Total Feet 2050' Feet of Gas In Pipe _____ Flush Tool? No

| Rec. _____ Feet Of _____ | % gas | % oil | % water | % mud |
|---|-------|-------|---------|-------|
| Rec. _____ Feet Of _____ | | | | |
| Rec. <u>2050'</u> Feet Of <u>Salt Water</u> | | | | |
| Rec. _____ Feet Of _____ | | | | |
| Rec. _____ Feet Of _____ | | | | |

BHT 136° °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW .37 @ 77 °F Chlorides 16,000 ppm Recovery Chlorides 2,000 ppm System
 (A) Initial Hydrostatic Mud 1942 PSI AK1 Recorder No. 13309 Range 4700
 (B) First Initial Flow Pressure 197 PSI @ (depth) 4222 w/Clock No. 25814
 (C) First Final Flow Pressure 729 PSI AK1 Recorder No. 13339 Range 4025
 (D) Initial Shut-In Pressure 969 PSI @ (depth) 4227 w/Clock No. 27566
 (E) Second Initial Flow Pressure 807 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 909 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 969 PSI Initial Opening 30 Test _____
 (H) Final Hydrostatic Mud 1892 PSI Initial Shut-In 45 Jars _____

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF 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, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Final Flow 30 Safety Joint X
 Final Shut-In 45 Straddle _____
 Circ. Sub X 35.00
 Sampler _____
 Extra Packer _____
 Other _____
 TOTAL PRICE \$ _____

Approved By John Rose
 Our Representative Rod Steinbrink

JUL 27 1992
 7-27-92
 CURSCHENBACH CO.
 Wichita, Kansas

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

No 5010

Test Ticket

Well Name & No. Pfenninger #1 Test No. 1 Date 6-23-92
 Company Production Drilling, Inc. Zone Tested Lansing
 Address P.O. Box 680 Hays, KS. 67601-0880 Elevation 2973 (KB)
 Co. Rep./Geo. John Rose cont. Murfin #20 Est. Ft. of Pay _____
 Location: Sec. 30 Twp. 18 S Rge. 31 W co. Scott state KS.
 No. of Copies _____ Distribution Sheet _____ Yes _____ No Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 3996 - 4020 Drill Pipe Size 4 1/2" XH
 Anchor Length 24' Top Choke - 1" Bottom Choke - 3/4"
 Top Packer Depth 3991 - ~~3996~~ Hole Size - 7 7/8" Rubber Size - 6 3/4"
 Bottom Packer Depth 3996 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Total Depth 4020 Drill Collar - 2.25 Ft. Run 180'
 Mud Wt. 9.0 lb/gal. Viscosity 42 Filtrate 12.4
 Tool Open @ 4:13 am. Initial Blow Weak surface slowly built to 9".
ISI: Bled off blow - no return
 Final Blow Weak surface return built to 5".
FSI: Bled off blow - no return.

Recovery - Total Feet 540' Feet of Gas In Pipe _____ Flush Tool? No

| Rec. _____ Feet Of _____ | %gas | %oil | %water | %mud |
|--|------|------|--------|------|
| Rec. _____ Feet Of _____ | %gas | %oil | %water | %mud |
| Rec. <u>540'</u> Feet Of <u>Salt Water</u> | %gas | %oil | %water | %mud |
| Rec. _____ Feet Of _____ | %gas | %oil | %water | %mud |
| Rec. _____ Feet Of _____ | %gas | %oil | %water | %mud |

BHT 123° °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW .39 @ 68° °F Chlorides 18,000 ppm Recovery _____ Chlorides 2,000 ppm System

- (A) Initial Hydrostatic Mud 1932 PSI AK1 Recorder No. 13309 Range 4700
- (B) First Initial Flow Pressure 72 PSI @ (depth) 4010 w/Clock No. 25814
- (C) First Final Flow Pressure 124 PSI AK1 Recorder No. 13339 Range 4025
- (D) Initial Shut-In Pressure 1040 PSI @ (depth) 4015 w/Clock No. 27566
- (E) Second Initial Flow Pressure 207 PSI AK1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure 228 PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-In Pressure 1040 PSI Initial Opening 45 Test _____
- (H) Final Hydrostatic Mud 1882 PSI Initial Shut-In 60 Jars _____

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF 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, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Final Flow 45 Safety Joint X
 Final Shut-In 60 Straddle _____
 STATE COMMISSION
7-27-92 Circ. Sub X n/c
JUL 27 1992 Sampler _____
 CONSERVATION DIVISION
 Wichita, Kansas Extra Packer _____
 Other _____

Approved By John R. Rose
 Our Representative Rod Steinbrink

Printcraft Printers - Hays, KS
 Our Representative ROD STEINBRINK

TOTAL PRICE \$ _____

Phone 913-483-727, Russell, Kansas
 Phone 316-793-5861, Great Bend, Kansas

Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC. N° 2474

Home Office P. O. Box 31

Russell, Kansas 67665

New

| Date | Sec. | Twp. | Range | Called Out | On Location | Job Start | Finish |
|---------------|----------|---------------------------|-------|------------|-------------|-----------|--------|
| 6-28-92 | 30 | 18 | 31 | 5:00AM | 9:00AM | 11:45AM | 2:00PM |
| Lease | Well No. | Location | | County | State | | |
| PF Pfenninger | #1 | Griston 4w, 1/2 S, E into | | Scott | Ks | | |

| | |
|---------------------|--------------------|
| Contractor | Murfin Rig #20 |
| Type Job | Rotary Plug |
| Hole Size | 7 7/8 |
| Csg. | T.D. 4558' |
| Tbg. Size | Depth |
| Drill Pipe | 4 1/2" Depth 2300' |
| Tool | Depth |
| Cement Left in Csg. | Shoe Joint |
| Press Max. | Minimum |
| Meas Line | Displace |
| Perf. | |

| EQUIPMENT | | | |
|--------------|-----|---------------------|---------------|
| # | No | Cement | Tim |
| Pumptrk | 158 | Helper | Cary |
| # | No | Cement | |
| Pumptrk | | Helper | |
| # | No | Driver | Jack S. |
| Bulktrk | 101 | Driver | |
| Bulktrk | | Driver | |
| DEPTH of Job | | 3800' | |
| Reference: | | 50' High Charge | 475.00 |
| | | 50' Pumptrk Mileage | 100.00 |
| | | 1 3/8 Dryhole Plug | 20.00 |
| | | Total | 595.00 |

Remarks: Mixed - 50SKS at 2300'
 50SKS at 1150'
 50SKS at 600'
 50SKS at 300'
 10SKS at 40' w/ bridge
 5SKS in Rathole - 10SKS in househole,

Owner Same
 To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.

Charge To Production Drilling, Inc.
 Street Box 680
 City Nays State Ks Zip 67601

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. X

CEMENT

| | |
|----------------|---|
| Amount Ordered | 235 SKS 60/40 6.25 Gel, 1/4 Flo Seal/SK |
| Consisting of | |
| Common | 141 5.25 740.25 |
| Poz. Mix | 94 2.25 211.50 |
| Gel. | 14 6.25 94.50 |
| Chloride | |
| Quickset | |
| | Flo Seal 59# 1.00 59.00 |
| Handling | 235 1.00 235.00 |
| Mileage | 50 4.70 470.00 |
| | Total 1810.25 |

Floating Equipment **Total** \$ 2405.25
 Disc - 481.25
1924.20

Additional cementing by Tim Niederk
 Rig running Plugging stands upon arrival

TELEPHONE 483-2627
 AREA CODE 913 483-2627

ALLIED CEMENTING COMPANY, INC.
 P. O. BOX 31
 RUSSELL, KANSAS 67665

TO: Production Drilling, Inc.
P.O. Box 620
Nays, KS 67601

INVOICE NO. 62090
 PURCHASE ORDER NO. _____
 LEASE NAME Pfenninger #1
 DATE June 28, 1992

SERVICE AND MATERIALS AS FOLLOWS:

| | | |
|-------------------------------------|-------------------|---------------------|
| Common 141 sks @\$5.25 | \$740.25 | |
| Pozmix 94 sks @\$2.25 | 211.50 | |
| Gel 14 sks @\$6.75 | 94.50 | |
| Flo Seal 59# @\$1.00 | 59.00 | \$1,105.25 |
| Handling 235 sks @\$1.00 | 235.00 | |
| Mileage (50) @\$0.04¢ per sk per mi | 470.00 | |
| Rotary Plug | 380.00 | |
| Mi @\$2.00 pump trk chg | 96.00 | |
| 1 plug | 20.00 | 1,203.00 |
| Total | \$2,308.25 | 20% - 461.65 |
| | | 1846.60 |

Doc 42700-02
 71170
 Thank you!
 All Prices Are Net, Payable 30 Days Following Date of Invoice. 1% Charged Thereafter.

ORIGINAL