

ORIGINAL

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

*Rec'd
8-15-98*

Operator: License # 31466

Name: S. J. TITAN CO.

Address 504 Adair Circle
Hutchinson, KS 67502

City/State/Zip _____

Purchaser: _____

Operator Contact Person: Bruce Whipple

Phone (316) 662-5781

Contractor: Name: ALLEN DRILLING COMPANY

License: 5418

Wellsite Geologist: Jeffrey R. Zoller
JRZ Enterprises

Designate Type of Completion
 New Well Re-Entry Workover

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

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

Operator: N/A

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. _____

10/18/95 10/26/95 8/15/98
 Spud Date Date Reached TD Completion Date

API NO. 15- 145-214320000

County Pawnee

90'E & 90'N of
 - SW - NW - SE Sec. 29 Twp. 23 Rge. 15 X W

1740 Feet from N (circle one) Line of Section

2220 Feet from W (circle one) Line of Section

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

Lease Name PETRO Well # 1-A

Field Name Benson Pool

Producing Formation Arbuckle

Elevation: Ground 2030' KB 2035'

Total Depth 4140' PSTD _____

Amount of Surface Pipe Set and Cemented at 417 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 AH-1, 11-13-98-UC
 (Data must be collected from the Reserve Pit)

Chloride content <4500 ppm Fluid volume 600 bbls

Dewatering method used evaporation

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-6 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 Bruce Whipple

Title manager Date 9/28/98

Subscribed and sworn to before me this 30 day of Sept.

Notary Public Lynn Robertson

Date Commission Expires 12-11-00

LYNN ROBERTSON
 NOTARY PUBLIC
 STATE OF KANSAS
 My Appt. Exp. _____

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

ORIGINAL

Operator Name S. J. TITAN CO Lease Name PEETRO Well # 1A

Sec. 29 Twp. 23 Rge. 15 East West County Pawnee

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:
Neutron/Density Porosity,
Dual Induction

| Name | Top | Datum |
|-----------|------|-------|
| Anhydrite | 943 | |
| Wabounsee | 2747 | |
| Tarkio | 2866 | |
| Howard | 3071 | |
| Topeka | 3169 | |
| Hebner | 3462 | |
| Lansing | 3599 | |
| Viola | 3957 | |
| Arbuckle | 4029 | |
| RTD | 4140 | |

| CASING RECORD <input checked="" 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" | 28# | 417' | 60-40poz | 260 | 2%gel 3%cc |
| production | 7-7/8" | 5-1/2" | 15.5# | 4139' | 60-40poz | 155 | 2%gel |

| 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 | | N/A | | |

| 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 |
| 2 | 4040-4045 | | n/a/ | |

TUBING RECORD Size 2 7/8 Set At 4050 Packer At - Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. 8/15/98 Producing Method Flowing Pumping Gas Lift Other (Explain)

| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
| | | 115 | 80 | | |

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 4040-4045

15.145.21432.0000



HALLIBURTON ENERGY SERVICES

HAL-1906-N

CHARGE TO
S.J. TITAN Co.
ADDRESS
504 ADAIR CIRCLE
CITY STATE ZIP CODE
HUTCHINSON, Ks. 67502

ORIGINAL

TICKET

No.

906704 - 7

PAGE 1 OF 2

| | | | | | | | |
|---|---|---|--|--|--|-------------------------|----------------------|
| 1. SERVICE LOCATIONS PRATT, Ks. 25553 | WELL/PROJECT NO. 1A | LEASE PETRO | COUNTY/PARISH PAWNEE | STATE Ks. | CITY/OFFSHORE LOCATION PRATT | DATE 10-27-95 | OWNER Same |
| 2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES | NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | CONTRACTOR ALLEN DRUG. | RIG NAME/NO #3 | SHIPPED C.T. | DELIVERED TO WELL SITE | ORDER NO. | |
| 3. WELL TYPE 01 | WELL CATEGORY 01 | JOB PURPOSE 035 CMT. PROD. OSG. | WELL PERMIT NO. 15145214320000 | WELL LOCATION LAND 29-235-BW | | | |
| 4. REFERRAL LOCATION | INVOICE INSTRUCTIONS | | | | | | |

| PRICE REFERENCE | SECONDARY REFERENCE/ PART NUMBER | ACCOUNTING | | | DESCRIPTION | QTY. | | U/M | | UNIT PRICE | AMOUNT |
|--|-------------------------------------|------------|-------|----|---------------------|---------|-----------|-----|--|------------|---------|
| | | LOC | ACCT | DF | | | | | | | |
| 000-117 | | 1 | | | MILEAGE 1 UNIT R.T. | 70 | miles | 1 | | 2.85 | 199.50 |
| 001-016 | | 1 | | | PUMP CHARGE | 6 hrs | 4134 | FT. | | 1670.00 | 1670.00 |
| 019-241 | 516.00135 - 5 | 1 | 65158 | | CASING SWIVEL | 1 JOB | 5 1/2 in. | | | 185.00 | 185.00 |
| 030-016 | 402.1505 - 1 | 1 | 65161 | | TOP PLUG SW ALLEN. | 1 EA. | 5 1/2 in. | | | 60.00 | 60.00 |
| 018-315 | 70.15606 - 100 | 1 | 65160 | | MUD FLUSH | 500 gal | | | | 65 | 325.00 |
| 314-163 | 516.00472 - 2 | 1 | 65162 | | COMP FAX TL | 2 gal | | | | 28.00 | 56.00 |
| 12A | 825.205 | 1 | 65163 | | GUIDE SHOE | 1 EA. | 5 1/2 in. | | | 121.00 | 121.00 |
| 24A | 815.19251 | 1 | | | INSERT FLOAT VALVE | 1 EA. | 5 1/2 in. | | | 110.00 | 110.00 |
| 27 | 815.19313 | 1 | | | FULL-UP UNIT | 1 EA. | 5 1/2 in. | | | 69.00 | 69.00 |
| 40 | 806.60022 | 1 | 65166 | | CENTRALIZER | 3 EA. | 5 1/2 in. | | | 60.00 | 180.00 |
| PAID W/CHECK #320 FOR \$5754.91 | | | | | | | | | | | |

| | | | | |
|---|--|--|---|---|
| <p>LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.</p> <p>MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS</p> <p>DATE SIGNED: 10-27-95 TIME SIGNED: 1400</p> <p><input type="checkbox"/> A.M. <input checked="" type="checkbox"/> P.M.</p> <p><input type="checkbox"/> do not require IPC (Instrument Protection). <input type="checkbox"/> Not offered</p> | <p>SUB SURFACE SAFETY VALVE WAS <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN</p> <p>TYPE LOCK DEPTH</p> <p>BEAN SIZE SPACERS</p> <p>TYPE OF EQUALIZING SUB. CASING PRESSURE</p> <p>TUBING SIZE TUBING PRESSURE WELL DEPTH</p> <p>TREE CONNECTION TYPE VALVE</p> | <p>SURVEY</p> <p>OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?</p> <p>WE UNDERSTOOD AND MET YOUR NEEDS?</p> <p>OUR SERVICE WAS PERFORMED WITHOUT DELAY?</p> <p>WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?</p> <p>ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p><input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND</p> | <p>AGREE</p> <p>UN-DECIDED</p> <p>DIS-AGREE</p> | <p>PAGE TOTAL 2975.50</p> <p>FROM CONTINUATION PAGE(S) 4134.10</p> <p>7109.60</p> <p>SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE</p> |
|---|--|--|---|---|

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

FOR OR CUSTOMER'S AGENT (PLEASE PRINT) **TANNER** CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) *[Signature]* HALLIBURTON OPERATOR/ENGINEER **KEVIN P. GORDLEY C 8500** EMP # **Kevin P. Gordley** HALLIBURTON APPROVAL *[Signature]*



HALLIBURTON ENERGY SERVICES

TICKET CONTINUATION

ORIGINAL

TICKET No. 906704

FORM 1911 R-10

| | | | | |
|-----------------------------|-------------------|------------------|-----------|---------|
| CUSTOMER S. J. TITAN CO. | WELL PETRO 1 A | DATE 10-27-95 | PAGE 2 | OF 2 |
|-----------------------------|-------------------|------------------|-----------|---------|

| PRICE REFERENCE | SECONDARY REFERENCE/ PART NUMBER | ACCOUNTING | | | DESCRIPTION | QTY. | | UNIT PRICE | AMOUNT |
|------------------------------|-------------------------------------|------------|-------|----|------------------------|------------------------|--------------------|---------------------|----------|
| | | LOC | ACCT | DF | | QTY. | U/M | | |
| 504-136 | | 1 | | | 40/60 POZMIX W2% GEL | 70 | sk | 7.16 | 501.20 |
| 509-968 | 516.00158 - 399 | 1 | 65167 | | SALT BLENDED 10% | 339 | lbs | .15 | 50.85 |
| 507-775 | 516.00144 - 44 | 1 | | | HALAD-322 BLENDED .75% | 44 | lbs | 7.00 | 308.00 |
| LOADED ON TRAILER 5621-FRONT | | | | | | | | | |
| 504-136 | | 1 | | | 40/60 POZMIX W2% GEL | 100 | sk | 7.16 | 716.00 |
| 508-291 | 516.00337 - 500 | 1 | | | GILSONITE BLENDED 5# | 500 | lbs | .40 | 250.00 |
| 509-968 | 516.00158 - 485 | 1 | | | SALT BLENDED 10% | 485 | lbs | .15 | 72.75 |
| 507-918 | 516.00344 - 51 | 1 | | | GASSTOP BLENDED 6% | 51 | lbs | 33.55 | 1,711.05 |
| LOADED ON TRAILER 5621-BACK | | | | | | | | | |
| 504-136 | 516.00261-102 | | | | | | | | |
| " " | 516.00286-4024 | | | | | | | | |
| " " | 516.00259-3 | | 65075 | | | | | | |
| SERVICE CHARGE | | | | | | | | | |
| -207 | | 1 | | | | | CUBIC FEET 192 | 1.35 | 259.20 |
| 06 | | 1 | | | MILEAGE CHARGE | TOTAL WEIGHT 15,915 | LOADED MILES 35 | TON MILES 279.00 | 95 |

ORIGINAL

204938

CONTINUATION TOTAL

4134.10

HALLIBURTON JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

MED CONT.
PRATH, KS.

BILLED ON TICKET NO. 906704

WELL DATA
FIELD _____ SEC. 29 TWP. 23S RING. 15W COUNTY PAWNEE STATE KS.

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____
PACKER TYPE _____ SET AT _____
BOTTOM HOLE TEMP. _____ PRESSURE _____
MISC. DATA _____ TOTAL DEPTH _____

| | NEW USED | WEIGHT | SIZE | FROM | TO | MAXIMUM PSI ALLOWABLE |
|-------------------------|----------|--------|-------|------|------|-----------------------|
| CASING | U | 15.5 | 5 1/2 | 0 | 4139 | |
| LINER | | | | | | |
| TUBING | | | | | | |
| OPEN HOLE | | | | 4139 | 4140 | SHOTS/FT. |
| PERFORATIONS | | | | | | |
| PERFORATIONS | | | | | | |
| PERFORATIONS | | | | | | |
| TOTAL PIPE RUN = 41.54' | | | | | | |

JOB DATA

| TOOLS AND ACCESSORIES | | |
|--------------------------------------|------|-------|
| TYPE AND SIZE | QTY. | MAKE |
| INSERT FLOAT | 1 | Howco |
| FILL-UP UNIT | 1 | Howco |
| GUIDE SHOE | 1 | Howco |
| CENTRALIZERS | 3 | Howco |
| BOTTOM PLUG | | |
| TOP PLUG <u>5W</u> | 1 | Howco |
| HEAD | | |
| PACKER | | |
| OTHER <u>PLUG CONT. & MANIF.</u> | 1 | Howco |

| CALLER OUT | ON LOCATION | JOB STARTED | JOB COMPLETED |
|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| DATE <u>10-27</u> TIME <u>1030</u> | DATE <u>10-27</u> TIME <u>1300</u> | DATE <u>10-27</u> TIME <u>1700</u> | DATE <u>10-27</u> TIME <u>1900</u> |

MATERIALS
TREAT. FLUID _____ DENSITY _____ LB./GAL. °API
DISPL. FLUID _____ DENSITY _____ LB./GAL. °API
PROP. TYPE _____ SIZE _____ LB.
PROP. TYPE _____ SIZE _____ LB.
ACID TYPE _____ GAL. _____ %
ACID TYPE _____ GAL. _____ %
ACID TYPE _____ GAL. _____ %
SURFACTANT TYPE _____ GAL. _____ IN
NE AGENT TYPE _____ GAL. _____ IN
FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN
GELLING AGENT TYPE _____ GAL.-LB. _____ IN
FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN
BREAKER TYPE _____ GAL.-LB. _____ IN
BLOCKING AGENT TYPE _____ GAL.-LB. _____
PERFPAC BALLS TYPE _____ QTY. _____
OTHER _____
OTHER 2 gal Clayfix II

| PERSONNEL AND SERVICE UNITS | | |
|-----------------------------|-----------------------|------------|
| NAME | UNIT NO. & TYPE | LOCATION |
| <u>K. GORDLEY</u> # 8500 | 40033 P.U. | PRATH, KS. |
| <u>C. BAKER</u> # 9447 | 51936 PUMP TRK | " |
| <u>B. DRAKE</u> # 2658 | 5046-5621 BLUM TRK | " |

ORIGINAL

DEPARTMENT CEMENT
DESCRIPTION OF JOB CEMENT 5 1/2 PROD CASING
JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
CUSTOMER REPRESENTATIVE X
HALLIBURTON OPERATOR K. GORDLEY COPIES REQUESTED _____

CEMENT DATA

| STAGE | NUMBER OF SACKS | CEMENT | BRAND | BULK SACKED | ADDITIVES | YIELD CU.FT./SK. | MIXED LBS./GAL. |
|-------|-----------------|-----------|-------|-------------|--|------------------|-----------------|
| | 70 | 40-60 P2Z | | B | 2% CEL, 10% SALT, .75% H-322 | 1.32 | 14.22 |
| | 10.0 | 40-60 P2Z | | B | 2% CEL, 10% SALT, 5% PLK CELSOWITE, .6% CASSTOP | 1.42 | 13.85 |

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____
BREAKDOWN _____ MAXIMUM _____
AVERAGE _____ FRACTURE GRADIENT _____
SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____
HYDRAULIC HORSEPOWER _____
ORDERED _____ AVAILABLE _____ USED _____
AVERAGE RATES IN BPM _____
TREATING _____ DISPL. _____ OVERALL _____
CEMENT LEFT IN PIPE _____
FEET 17 REASON INSERT FLOAT

PRELUSH: BBL.-GAL. 20 & 12 TYPE CLAYFIX H20
LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. 98.46
CEMENT SLURRY: BBL.-GAL. 16.4 + 25.2 = 41.6
TOTAL VOLUME: BBL.-GAL. _____

REMARKS

PUMP TIME = 30 MIN
15ERS LEAD CONT FOR RAT HOLE

CUSTOMER S. J. TITMAN
LEASE P2780
WELL NO. 1A
JOB TYPE PROD. HEAD CASE
DATE 10-27-95

HAL-2013-C

| WELL NO. | | LEASE | | JOB TYPE | | TICKET NO. | | |
|----------|------|------------|--------------------|----------|---|-----------------------|--------|---|
| J. TITAN | | 1A | | PETRO | | CMT PROD. CSG. 906704 | | |
| ART NO. | TIME | RATE (GPM) | VOLUME (BBL) (GAL) | PUMPS | | PRESSURE (PSI) | | DESCRIPTION OF OPERATION AND MATERIALS |
| | | | | T | C | TUBING | CASING | |
| 1 | 1030 | | | | | | | CALLED OUT |
| | 1300 | | | | | | | ON LOCATION |
| | 1445 | | | | | | | BIG WAY DOWN DRILL PIPE CEMENT TRUCKS ON LOCATION |
| | | | | | | | | 5 1/2 15.5" CSG SET AT 4139' |
| | | | | | | | | TOTAL PIPE RUN = 4154' |
| | | | | | | | | SHOE JOINT = 17' |
| | | | | | | | | CENTRALIZERS ON COLLARS - 2, 5, 12 |
| | 1700 | | | | | | | ORIGINAL CASING ON BOTTOM |
| | | | | | | | | DROP BALL AND BREAK CIRC. WITH MUD PUMP & ROTATE |
| | | | | | | | | HOOK HOWEO TO CASING |
| | 1743 | 7 | 20 | - | | 300 | | PUMP 20 BBL CLAYFIX II H ₂ O |
| | 1748 | 7 | 32 | - | | 300 | | PUMP 12 BBL MUDFLUSH |
| | | | 3 1/2 | | | | | SHUT DOWN PLUG RAT HOLE - 15 SECS. HOOK BACK UP TO CASING |
| | 1755 | 6 | 0 | - | | 300 | | START MIX LEAD CMT { 55 SECS |
| | | 6 | 13 | - | | 300 | | FINISH MIX LEAD CMT { |
| | | 6 | 0 | - | | 300 | | START MIX TAIL CMT { 100 SECS |
| | 1801 | 6 | 25 | - | | 300 | | FINISH MIX TAIL CMT { |
| | | | 38 | | | | | TOTAL SURVEY SHUT DOWN WASH OUT LINE & RELEASE PLUG |
| | 1805 | 8 | 0 | - | | 300 | | START DISP. |
| | | 7 1/2 | 77 | - | | 350 | | LIFTING CEMENT |
| | 1820 | 5 | 98 1/2 | - | | 100 | | PLUG DOWN |
| | | | | | | | | RELEASE PS2 - FRONT HOLE WASH UP PACK UP |
| | 1900 | | | | | | | JOB COMPLETE THANKS - KEVIN, CECIL, BOBBY |

ALLIED CEMENTING CO., INC. 4804

ORIGINAL

SERVICE POINT: Great Bend

REMIT TO: P.O. BOX 31
RUSSELL, KANSAS 67665

| | | | | | | | |
|--------------------------------|---------------|------------------|-----------------|--|-----------------------------|--------------------------|----------------------------|
| DATE <u>10-18-99</u> | SEC <u>29</u> | TWP. <u>23</u> | RANGE <u>15</u> | CALLED OUT <u>5:00 PM</u> | ON LOCATION <u>16:30 PM</u> | JOB START <u>9:30 PM</u> | JOB FINISH <u>10:00 PM</u> |
| LEASE <u>Petro</u> | | WELL # <u>1A</u> | | LOCATION <u>Machaville - 4N, 1W, 1/2N, W/S</u> | | COUNTY <u>Pawnee</u> | STATE <u>KS</u> |
| OLD OR <u>NEW</u> (Circle one) | | | | | | | |

CONTRACTOR Allen #3

TYPE OF JOB Surface

HOLE SIZE 12 1/4" T.D. 422'

CASING SIZE 8 7/8" DEPTH 417'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15'

PERFS. Dep = 25 bbl

OWNER Same

CEMENT

AMOUNT ORDERED 2600 lbs 60/40 3% cc, 2% sul,

| | | | |
|----------|------------|----------------|-------------------|
| COMMON | <u>156</u> | @ <u>6.10</u> | <u>951.60</u> |
| POZMIX | <u>104</u> | @ <u>3.15</u> | <u>327.60</u> |
| GEL | <u>4</u> | @ <u>9.50</u> | <u>38.00</u> |
| CHLORIDE | <u>8</u> | @ <u>28.00</u> | <u>224.00</u> |
| | | @ | |
| | | @ | |
| | | @ | |
| | | @ | |
| | | @ | |
| | | @ | |
| | | @ | |
| HANDLING | <u>260</u> | @ <u>1.05</u> | <u>273.00</u> |
| MILEAGE | <u>36</u> | | <u>374.40</u> |
| TOTAL | | | <u>\$ 2188.60</u> |

EQUIPMENT

PUMP TRUCK CEMENTER Tom D

181 HELPER Don H

BULK TRUCK

214 DRIVER Bob B

BULK TRUCK

_____ DRIVER _____

REMARKS:

Ran 417' of 8 7/8 cas. Mixed 2600 lbs 60/40 3% cc. Pumped plug with fresh water

Cement did circulate

T. R. [Signature]

SERVICE

| | | | |
|-------------------|---------------|---------------|------------------|
| DEPTH OF JOB | <u>417'</u> | | |
| PUMP TRUCK CHARGE | <u>0-300'</u> | | <u>445.00</u> |
| EXTRA FOOTAGE | <u>117'</u> | @ <u>.41</u> | <u>47.97</u> |
| MILEAGE | <u>36</u> | @ <u>2.35</u> | <u>84.60</u> |
| PLUG | | @ | |
| | | @ | |
| | | @ | |
| TOTAL | | | <u>\$ 577.57</u> |

CHARGE TO: Allen Drig

S. J. Yhao Co.

STREET 504 Main Circle P.O. Box 1389

CITY Hutchinson STATE KS ZIP 67502

Great Bend KS

67530

FLOAT EQUIPMENT

| | | |
|-------|---|--|
| | @ | |
| | @ | |
| | @ | |
| | @ | |
| | @ | |
| TOTAL | | |

TAX - 0 -

TOTAL CHARGE \$ 2766.17

DISCOUNT \$ 553.24 IF PAID IN 30 DAY

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

Net \$ 2212.93

TURE [Signature]

ORIGINAL

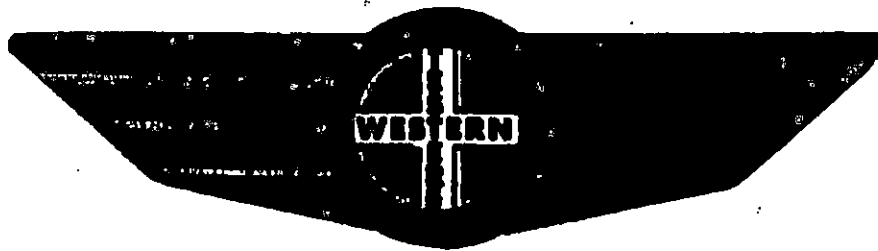
15-145-21432

GENERAL INFORMATION

| | |
|-------------------------------|----------------------------|
| DATE : 10-23-95 | TICKET : 21116 |
| CUSTOMER : S.J. TITAN CO. | LEASE : PETRO |
| WELL : #1-A TEST: 1 | GEOLOGIST: ? |
| ELEVATION: 2035 KB | FORMATION: LANSING "A & B" |
| SECTION : 29 | TOWNSHIP : 23 |
| RANGE : 15W COUNTY: PAWNEE | STATE : KS |
| GAUGE SN#: 10270 RANGE : 4150 | CLOCK : 12 |

ORIGINAL

WESTERN TESTING CO., INC.



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

CORRELATION DIVISION
WICHITA, KANSAS

087 1 1938

RECEIVED
STATE COMMISSION

FORMATION TEST REPORT

DST REPORT

GENERAL INFORMATION

| | |
|-------------------------------|---------------------|
| DATE : 10-27-95 | TICKET : 21118 |
| CUSTOMER : S.J. TITAN CO. | LEASE : PETRO |
| WELL : #1-A TEST: 3 | GEOLOGIST: ? |
| ELEVATION: 2035 KB | FORMATION: ARBUCKLE |
| SECTION : 29 | TOWNSHIP : 23 |
| RANGE : 15W COUNTY: PAWNEE | STATE : KS |
| GAUGE SN#: 10270 RANGE : 4150 | CLOCK : 12 |

WELL INFORMATION

| | | |
|---------------------------------------|----------------|----------------|
| PERFORATION INTERVAL FROM: 4040.00 ft | TO: 4048.00 ft | TVD: 4140.0 ft |
| DEPTH OF SELECTIVE ZONE: | | TEST TYPE: OIL |
| DEPTH OF RECORDERS: 4032.0 ft | 4134.0 ft | |
| TEMPERATURE: 113.0 | | |

| | | |
|-------------------------------|--------------------|----------|
| DRILL COLLAR LENGTH: 0.0 ft | I.D.: | 0.000 in |
| WEIGHT PIPE LENGTH : 0.0 ft | I.D.: | 0.000 in |
| DRILL PIPE LENGTH : 4009.0 ft | I.D.: | 3.800 in |
| TEST TOOL LENGTH : 31.0 ft | TOOL SIZE : | 5.500 in |
| ANCHOR LENGTH : 8.0 ft | ANCHOR SIZE: | 5.500 in |
| SURFACE CHOKE SIZE : 0.750 in | BOTTOM CHOKE SIZE: | 0.750 in |
| MAIN HOLE SIZE : 7.875 in | TOOL JOINT SIZE : | 4.5KH |
| PACKER DEPTH: 4040.0 ft | SIZE: | 6.630 in |
| PACKER DEPTH: 4048.0 ft | SIZE: | 6.630 in |
| PACKER DEPTH: 0.0 ft | SIZE: | 0.000 in |
| PACKER DEPTH: 0.0 ft | SIZE: | 0.000 in |

MUD INFORMATION

| | |
|-----------------------------------|----------------------|
| DRILLING CON. : ALLEN DRILLING #3 | |
| MUD TYPE : CHEMICAL | VISCOSITY : 48.00 cp |
| WEIGHT : 9.200 ppg | WATER LOSS: 9.200 cc |
| CHLORIDES : 8000 ppm | |
| JARS-MAKE : | SERIAL NUMBER: |
| DID WELL FLOW?: YES | REVERSED OUT?: NO |

COMMENTS

Comment

INITIAL FLOW PERIOD-STRONG SLOW. GAS TO SURFACE
IN 1 MINUTE. FINAL FLOW PERIOD-GAS TO SURFACE.

DST #3

DST REPORT (CONTINUED)

FLUID RECOVERY

| Feet of Fluid | % Oil | % Gas | % Water | % Mud | Comments |
|---------------|-------|-------|---------|-------|----------------|
| 5.0 | 0.0 | 0.0 | 0.0 | 100.0 | SULFUR CUT MUD |

RATE INFORMATION

| | | | |
|---------------|------------|---------------------|--------------|
| OIL VOLUME: | 0.0000 STB | TOTAL FLOW TIME: | 30.0000 min. |
| GAS VOLUME: | 0.0000 SCF | AVERAGE OIL RATE: | 0.0000 STB/D |
| MUD VOLUME: | 0.0701 STB | AVERAGE WATER RATE: | 0.0000 STB/D |
| WATER VOLUME: | 0.0000 STB | | |
| TOTAL FLUID : | 0.0701 STB | | |

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2056.00

| Description | Duration | p1 | p End |
|-----------------|----------|--------|---------|
| INITIAL FLOW | 15.00 | 697.00 | 707.00 |
| INITIAL SHUT-IN | 30.00 | | 1361.00 |
| FINAL FLOW | 15.00 | 717.00 | 728.00 |
| FINAL SHUT-IN | 60.00 | | 1361.00 |

FINAL HYDROSTATIC PRESSURE: 2004.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2077.00

| Description | Duration | p1 | p End |
|-----------------|----------|--------|---------|
| INITIAL FLOW | 15.00 | 715.00 | 724.00 |
| INITIAL SHUT-IN | 30.00 | | 1371.00 |
| FINAL FLOW | 15.00 | 757.00 | 737.00 |
| FINAL SHUT-IN | 57.00 | | 1372.00 |

FINAL HYDROSTATIC PRESSURE: 2054.00

GAS FLOW REPORT

GENERAL INFORMATION

| | |
|-------------------------------|---------------------|
| DATE : 10-27-95 | TICKET : 21118 |
| CUSTOMER : S.J. TITAN CO. | LEASE : PETRO |
| WELL : #1-A TEST: 3 | GEOLOGIST: ? |
| ELEVATION: 2035 KB | FORMATION: ARBUCKLE |
| SECTION : 29 | TOWNSHIP : 23 |
| RANGE : 15W COUNTY: PAWNEE | STATE : KS |
| GAUGE SN#: 10270 RANGE : 4150 | CLOCK : 12 |

PRE FLOW

| Time Guage (min) | Tester Type | Orifice Size | Pressure | Flow Desc. |
|---------------------|----------------|-----------------|----------|------------|
|---------------------|----------------|-----------------|----------|------------|

SECOND FLOW

| Time Guage (min) | Tester Type | Orifice Size | Pressure | Flow Desc. |
|---------------------|----------------|-----------------|----------|---------------|
| 5 MIN | MERLA | 1.500 | 30 PSIG | 2558000 SCF/D |
| 10 MIN | MERLA | 1.500 | 42 PSIG | 3274000 SCF/D |
| 15 MIN | MERLA | 1.500 | 47 PSIG | 3573000 SCF/D |

ORIGINAL

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

| | | | |
|------------|------------------|------------|----------|
| DATE | : 10-27-95 | TICKET | : 21118 |
| CUSTOMER | : S.J. TITAN CO. | LEASE | : PETRO |
| WELL | : #1-A | TEST: | 3 |
| ELEVATION | : 2035 KB | GEOLOGIST: | ? |
| SECTION | : 29 | FORMATION: | ARBUCKLE |
| RANGE | : 15W | TOWNSHIP | : 23 |
| Gauge SN#: | 10270 | STATE | : KS |
| | | COUNTY: | PAWNEE |
| | | RANGE | : 4150 |
| | | CLOCK | : 12 |

INITIAL FLOW

| Time (min) | Pressure | Delta P |
|------------|----------|---------|
| 0.00 | 715.00 | 715.00 |
| 5.00 | 171.00 | -544.00 |
| 10.00 | 120.00 | -51.00 |
| 15.00 | 724.00 | 604.00 |

INITIAL SHUT IN

| Time (min) | Pressure | Delta P | Hornor T |
|------------|----------|---------|----------|
| 3.00 | 1349.00 | 1349.00 | 0.00 |
| 6.00 | 1364.00 | 15.00 | 0.00 |
| 9.00 | 1367.00 | 3.00 | 0.00 |
| 12.00 | 1368.00 | 1.00 | 0.00 |
| 15.00 | 1369.00 | 1.00 | 0.00 |
| 18.00 | 1369.00 | 0.00 | 0.00 |
| 21.00 | 1370.00 | 1.00 | 0.00 |
| 24.00 | 1370.00 | 0.00 | 0.00 |
| 27.00 | 1371.00 | 1.00 | 0.00 |
| 30.00 | 1371.00 | 0.00 | 0.00 |

FINAL FLOW

| Time (min) | Pressure | Delta P |
|------------|----------|---------|
| 0.00 | 757.00 | 757.00 |
| 5.00 | 730.00 | -27.00 |
| 10.00 | 733.00 | 3.00 |
| 15.00 | 737.00 | 4.00 |

ORIGINAL

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN

| <u>Time (min)</u> | <u>Pressure</u> | <u>Delta P</u> | <u>Horner T</u> |
|-----------------------|-----------------|----------------|-----------------|
| 3.00 | 1353.00 | 1353.00 | 0.00 |
| 6.00 | 1365.00 | 12.00 | 0.00 |
| 9.00 | 1369.00 | 4.00 | 0.00 |
| 12.00 | 1370.00 | 1.00 | 0.00 |
| 15.00 | 1371.00 | 1.00 | 0.00 |
| 18.00 | 1371.00 | 0.00 | 0.00 |
| 21.00 | 1372.00 | 1.00 | 0.00 |
| 24.00 | 1372.00 | 0.00 | 0.00 |
| 27.00 | 1373.00 | 1.00 | 0.00 |
| 30.00 | 1373.00 | 0.00 | 0.00 |
| 33.00 | 1373.00 | 0.00 | 0.00 |
| 36.00 | 1373.00 | 0.00 | 0.00 |
| 39.00 | 1372.00 | -1.00 | 0.00 |
| 42.00 | 1372.00 | 0.00 | 0.00 |
| 45.00 | 1372.00 | 0.00 | 0.00 |
| 48.00 | 1372.00 | 0.00 | 0.00 |
| 51.00 | 1372.00 | 0.00 | 0.00 |
| 54.00 | 1372.00 | 0.00 | 0.00 |
| 57.00 | 1372.00 | 0.00 | 0.00 |

ORIGINAL

DST REPORT

GENERAL INFORMATION

DATE : 10-23-95
CUSTOMER : S.J. TITAN CO.
WELL : #1-A TEST: 2
ELEVATION: 2035 KB
SECTION : 29
RANGE : 15W COUNTY: PAWNEE
GAUGE SN#: 10270 RANGE : 4150
TICKET : 21117
LEASE : PETRO
GEOLOGIST: ?
FORMATION: LANSING "F"
TOWNSHIP : 23
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3663.00 ft TO: 3679.00 ft TVD: 3679.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 3671.0 ft 3674.0 ft
TEMPERATURE: 110.0

| | | | |
|----------------------|-----------|--------------------|----------|
| DRILL COLLAR LENGTH: | 0.0 ft | I.D.: | 0.000 in |
| WEIGHT PIPE LENGTH : | 0.0 ft | I.D.: | 0.000 in |
| DRILL PIPE LENGTH : | 3643.0 ft | I.D.: | 3.800 in |
| TEST TOOL LENGTH : | 20.0 ft | TOOL SIZE : | 5.500 in |
| ANCHOR LENGTH : | 16.0 ft | ANCHOR SIZE: | 5.500 in |
| SURFACE CHOKE SIZE : | 0.750 in | BOTTOM CHOKE SIZE: | 0.750 in |
| MAIN HOLE SIZE : | 7.875 in | TOOL JOINT SIZE : | 4.5XH |
| PACKER DEPTH: | 3658.0 ft | SIZE: | 6.630 in |
| PACKER DEPTH: | 3663.0 ft | SIZE: | 6.630 in |
| PACKER DEPTH: | 0.0 ft | SIZE: | 0.000 in |
| PACKER DEPTH: | 0.0 ft | SIZE: | 0.000 in |

MUD INFORMATION

DRILLING CON. : ALLEN DRILLING #3
MUD TYPE : CHEMICAL
WEIGHT : 9.200 ppg
CHLORIDES : 5000 ppm
JARS-MAKE :
DID WELL FLOW?: NO
VISCOSITY : 45.00 cp
WATER LOSS: 8.800 cc
SERIAL NUMBER:
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD-WEAK BUILDING TO A STRONG
BLOW IN 4 MINUTES. FINAL FLOW PERIOD-STRONG BLOW
THROUGHOUT.

DST REPORT (CONTINUED)

FLUID RECOVERY

| Feet of Fluid | % Oil | % Gas | % Water | % Mud | Comments |
|---------------|-------|-------|---------|-------|------------------------|
| 5.0 | 100.0 | 0.0 | 0.0 | 0.0 | CLEAN OIL GRAVITY 23 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1440FT GAS ABOVE FLUID |
| 90.0 | 55.0 | 22.0 | 3.0 | 20.0 | MUDDY GASSY OIL |
| 30.0 | 3.0 | 0.0 | 72.0 | 25.0 | OIL CUT MUDDY WATER |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CHLORIDES 53,000 PPM |

RATE INFORMATION

| | | | |
|---------------|------------|---------------------|---------------|
| OIL VOLUME: | 0.7771 STB | TOTAL FLOW TIME: | 75.0000 min. |
| GAS VOLUME: | 1.5594 SCF | AVERAGE OIL RATE: | 19.5971 STB/D |
| MUD VOLUME: | 0.3577 STB | AVERAGE WATER RATE: | 8.7339 STB/D |
| WATER VOLUME: | 0.3408 STB | | |
| TOTAL FLUID : | 1.4756 STB | | |

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1796.00

| Description | Duration | p1 | p End |
|-----------------|----------|-------|---------|
| INITIAL FLOW | 30.00 | 31.00 | 31.00 |
| INITIAL SHUT-IN | 30.00 | | 1122.00 |
| FINAL FLOW | 45.00 | 41.00 | 52.00 |
| FINAL SHUT-IN | 45.00 | | 1122.00 |

FINAL HYDROSTATIC PRESSURE: 1796.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1856.00

| Description | Duration | p1 | p End |
|-----------------|----------|-------|---------|
| INITIAL FLOW | 30.00 | 44.00 | 30.00 |
| INITIAL SHUT-IN | 30.00 | | 1132.00 |
| FINAL FLOW | 45.00 | 68.00 | 54.00 |
| FINAL SHUT-IN | 45.00 | | 1134.00 |

FINAL HYDROSTATIC PRESSURE: 1807.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

| | |
|---------------------------------------|----------------------------|
| DATE : 10-23-95 | TICKET : 21116 |
| CUSTOMER : S.J. TITAN CO. | LEASE : PETRO |
| WELL : #1-A TEST: 1 | GEOLOGIST: ? |
| ELEVATION: 2035 KB | FORMATION: LANSING "A & B" |
| SECTION : 29 | TOWNSHIP : 23 |
| RANGE : 15W COUNTY: PAWNEE | STATE : KS |
| GAUGE SN#: 10270 RANGE : 4150 | CLOCK : 12 |

INITIAL FLOW

| <u>Time (min)</u> | <u>Pressure</u> | <u>Delta P</u> |
|-----------------------|-----------------|----------------|
| 0.00 | 93.00 | 93.00 |
| 5.00 | 89.00 | -4.00 |
| 10.00 | 93.00 | 4.00 |
| 15.00 | 108.00 | 15.00 |
| 20.00 | 125.00 | 17.00 |
| 25.00 | 137.00 | 12.00 |
| 30.00 | 154.00 | 17.00 |

INITIAL SHUT IN

| <u>Time (min)</u> | <u>Pressure</u> | <u>Delta P</u> | <u>Horner T</u> |
|-----------------------|-----------------|----------------|-----------------|
| 3.00 | 665.00 | 665.00 | 11.00 |
| 6.00 | 1045.00 | 380.00 | 6.00 |
| 9.00 | 1126.00 | 81.00 | 4.33 |
| 12.00 | 1156.00 | 30.00 | 3.50 |
| 15.00 | 1174.00 | 18.00 | 3.00 |
| 18.00 | 1186.00 | 12.00 | 2.67 |
| 21.00 | 1195.00 | 9.00 | 2.43 |
| 24.00 | 1207.00 | 12.00 | 2.25 |
| 27.00 | 1215.00 | 8.00 | 2.11 |
| 30.00 | 1217.00 | 2.00 | 2.00 |

FINAL FLOW

| <u>Time (min)</u> | <u>Pressure</u> | <u>Delta P</u> |
|-----------------------|-----------------|----------------|
| 0.00 | 220.00 | 220.00 |

ORIGINAL

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

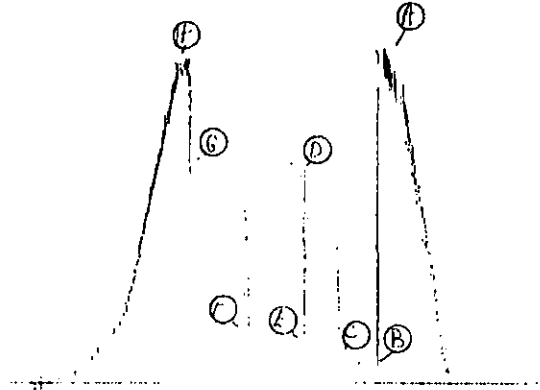
| Time (min) | Pressure | Delta P |
|---------------|----------|---------|
| 5.00 | 203.00 | -17.00 |
| 10.00 | 208.00 | 5.00 |
| 15.00 | 226.00 | 18.00 |
| 20.00 | 237.00 | 11.00 |
| 25.00 | 246.00 | 9.00 |
| 30.00 | 259.00 | 13.00 |
| 35.00 | 270.00 | 11.00 |
| 40.00 | 282.00 | 12.00 |
| 45.00 | 289.00 | 7.00 |

FINAL SHUT IN

| Time (min) | Pressure | Delta P | Horner T |
|---------------|----------|---------|----------|
| 3.00 | 834.00 | 834.00 | 16.00 |
| 6.00 | 1025.00 | 191.00 | 8.50 |
| 9.00 | 1097.00 | 72.00 | 6.00 |
| 12.00 | 1132.00 | 35.00 | 4.75 |
| 15.00 | 1151.00 | 19.00 | 4.00 |
| 18.00 | 1169.00 | 18.00 | 3.50 |
| 21.00 | 1179.00 | 10.00 | 3.14 |
| 24.00 | 1189.00 | 10.00 | 2.88 |
| 27.00 | 1197.00 | 8.00 | 2.67 |
| 30.00 | 1203.00 | 6.00 | 2.50 |
| 33.00 | 1208.00 | 5.00 | 2.36 |
| 36.00 | 1211.00 | 3.00 | 2.25 |
| 39.00 | 1214.00 | 3.00 | 2.15 |
| 42.00 | 1215.00 | 1.00 | 2.07 |
| 45.00 | 1220.00 | 5.00 | 2.00 |
| 48.00 | 1223.00 | 3.00 | 1.94 |

Ticket # 2416
I

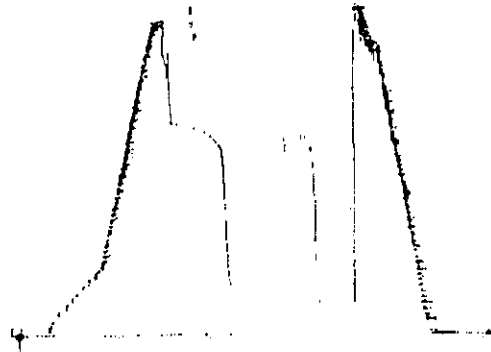
DST #1
10270



Inside Recorder

Ticket # 21116
O

DST #1
13550



Outside Recorder

ORIGINAL

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN

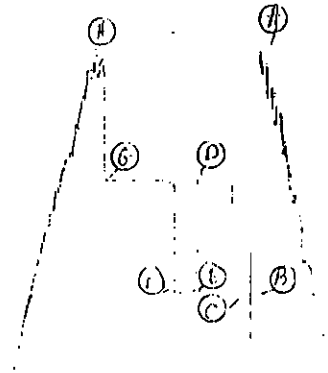
| <u>Time (min)</u> | <u>Pressure</u> | <u>Delta P</u> | <u>Horner T</u> |
|-----------------------|-----------------|----------------|-----------------|
| 3.00 | 1353.00 | 1353.00 | 0.00 |
| 6.00 | 1365.00 | 12.00 | 0.00 |
| 9.00 | 1369.00 | 4.00 | 0.00 |
| 12.00 | 1370.00 | 1.00 | 0.00 |
| 15.00 | 1371.00 | 1.00 | 0.00 |
| 18.00 | 1371.00 | 0.00 | 0.00 |
| 21.00 | 1372.00 | 1.00 | 0.00 |
| 24.00 | 1372.00 | 0.00 | 0.00 |
| 27.00 | 1373.00 | 1.00 | 0.00 |
| 30.00 | 1373.00 | 0.00 | 0.00 |
| 33.00 | 1373.00 | 0.00 | 0.00 |
| 36.00 | 1373.00 | 0.00 | 0.00 |
| 39.00 | 1372.00 | -1.00 | 0.00 |
| 42.00 | 1372.00 | 0.00 | 0.00 |
| 45.00 | 1372.00 | 0.00 | 0.00 |
| 48.00 | 1372.00 | 0.00 | 0.00 |
| 51.00 | 1372.00 | 0.00 | 0.00 |
| 54.00 | 1372.00 | 0.00 | 0.00 |
| 57.00 | 1372.00 | 0.00 | 0.00 |

Ticket # 2118

J.

ORIGINAL

OST # 3
10270

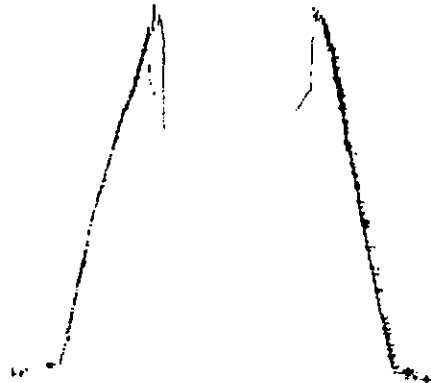


Inside Recorder

Ticket # 2118

O

OST # 3
13550

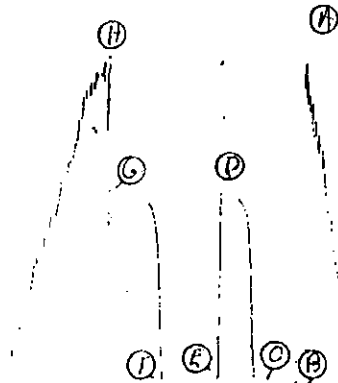


Outside Recorder

Ticket # 21117

I

05782
10270



Inside Recorder

Ticket # 21117

D

05782
13550



Outside Recorder



P. O. BOX 1598 PHONE (316) 262-5881
WICHITA, KANSAS 67201

WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

ORIGINAL

No. 21118

Elevation 2035 KB Formation Arbuckle Eff. Pay Ft.

District Great Bend Date 10-27-95 Customer Order No.

COMPANY NAME S. J. TITAN Co.

ADDRESS 504 Adair Circle Hutchinson, Ks 67502

LEASE AND WELL NO. Petro #1-A COUNTY Pawnee STATE Ks Sec. 29 Twp. 25 R. 15

Mail Invoice To Co. Name Address No. Copies Requested 10

Mail Charts To Address No. Copies Requested 10

Formation Test No. 3 Interval Tested From 4040 ft. to 4048 ft. Total Depth 4190 ft.

Packer Depth 4040 ft. Size 6 3/8 in. Packer Depth 4053 ft. Size 6 3/8 in.

Packer Depth 4048 ft. Size 6 3/8 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4032 ft. Recorder Number 10270 Cap 4150

Bottom Recorder Depth (Outside) 4134 ft. Recorder Number 13550 Cap 4125

Below Straddle Recorder Depth ft. Recorder Number Cap

Drilling Contractor Allen delg rig 3 Drill Collar Length I. D. in.

Mod Type Chemical Viscosity 948 Weight Pipe Length I. D. in.

Weight 9.2 Water Loss 9.2 cc Drill Pipe Length 4009 I. D. 3.8 in.

Chlorides 8000 P.P.M. Test Tool Length 31 ft. Tool Size 5 1/2 in.

Jars: Make Serial Number Anchor Length 8 ft. Size 5 1/2 in.

Did Well Flow? gas Reversed Out Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 2 3/8 in. Tool Joint Size 4 1/2 X 4 in.

Blow FE - Strong Blow gas to surface in 1 min

FE - gas to surface

Recovered 5 ft. of sulfur cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

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

Time On Location 12:00 PM Time Pick Up Tool 12:30 PM Time Off Location AM

Time Set Packer(s) 2:15 PM Time Started Off Bottom 4:15 PM Maximum Temperature 113°

Initial Hydrostatic Pressure (A) 2056 P.S.I.

Initial Flow Period Minutes 45 (B) 697 P.S.I. to (C) 707 P.S.I.

Initial Closed In Period Minutes 30 (D) 1361 P.S.I.

Final Flow Period Minutes 15 (E) 717 P.S.I. to (F) 728 P.S.I.

Final Closed In Period Minutes 60 (G) 1361 P.S.I.

Final Hydrostatic Pressure (H) 2004 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 Ray Schurgen Thank you

FIELD INVOICE

Open Hole Test
Mudrun
Straddle Test
Jars
Selective Zone
Safety Joint
Sandy
Evaluation
Extra Packer
Circ. Sub.
Mileage
Fluid Sampler
Extra Charts
Insurance
Telescopes
TOTAL