



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1251154
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

| | | |
|-----------------------------------|-----------------|---|
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |
|-----------------------------------|-----------------|---|

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that 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.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1251154

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

| | |
|--|---|
| Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____ | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum |
|--|---|

| 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 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| 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 | | | | |
| | | | | |

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i> | 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 ENHR. | Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____ |
|---|--|

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

| | | |
|--|---|---|
| DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i> | PRODUCTION INTERVAL: _____ _____ |
|--|---|---|

| | |
|-----------|------------------------|
| Form | ACO1 - Well Completion |
| Operator | L. D. Drilling, Inc. |
| Well Name | WATT 3-10 |
| Doc ID | 1251154 |

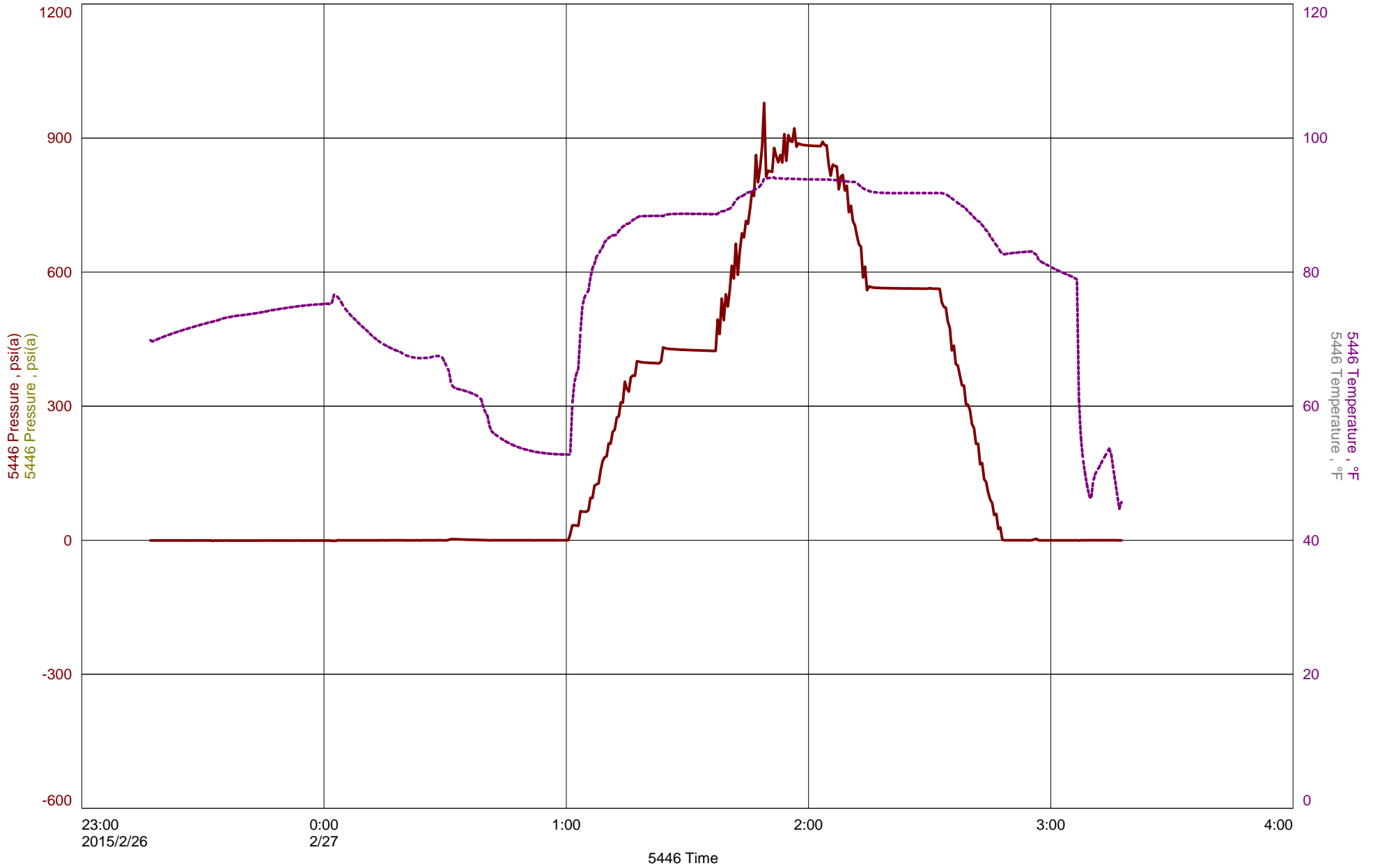
Tops

| Name | Top | Datum |
|----------------|------|-------|
| ANHYDRITE | 2130 | +598 |
| BASE ANHYDRITE | 2161 | -567 |
| STOTLER | 3401 | -673 |
| HEEBNER | 3785 | -1057 |
| LANSING | 3823 | -1095 |
| STARK | 4076 | -1348 |
| MARMATON | 4186 | -1458 |
| FORT SCOTT | 4330 | -1602 |
| CHEROKEE | 4354 | -1626 |
| MISSISSIPPI | 4426 | -1698 |

LD Drilling
DST 1 Lan K 4073-4100
Start Test Date: 2015/02/26
Final Test Date: 2015/02/27

Watt 3-10
Formation: Lan K
Job Number: W169

Watt 3-10 DST 1





Diamond Testing General Report

Wilbur Steinbeck
TESTER
CELL: 620-282-1573

General Information

| | | | | |
|-------------------------|-------------|------------------------------|-----------------------|------------------|
| Company Name | LD Drilling | Kim Shoemaker | Job Number | W169 |
| Contact | | Watt 3-10 | Representative | Wilbur Steinbeck |
| Well Name | | DST 1 Lan K 4073-4100 | Well Operator | LD |
| Unique Well ID | | 10-16s-30w Lane/Kans | Report Date | 2015/02/26 |
| Surface Location | | Wildcat | Prepared By | Wilbur Steinbeck |
| Field | | | Qualified By | Kim Shoemaker |

Test Information

| | |
|----------------------------|--------------|
| Test Type | Conventional |
| Formation | Lan K |
| Well Fluid Type | 01 Oil |
| Test Purpose (AEUB) | Initial Test |

| | | | |
|------------------------|------------|------------------------|----------|
| Start Test Date | 2015/02/26 | Start Test Time | 23:17:00 |
| Final Test Date | 2015/02/27 | Final Test Time | 03:23:00 |

Test Recovery

Recovery Miss Run Bridge in hole

Tool Sample Miss Run



DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: _____

TIME ON: _____
 TIME OFF: _____

Company _____ Lease & Well No. _____
 Contractor _____ Charge to _____
 Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
 Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
 Test Approved By _____ Diamond Representative _____

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
 Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
 2nd Open: _____

| | |
|------------------------------|--|
| Recovered _____ ft. of _____ | Price Job Other Charges Insurance Total |
| Recovered _____ ft. of _____ | |
| Recovered _____ ft. of _____ | |
| Recovered _____ ft. of _____ | |
| Recovered _____ ft. of _____ | |
| Recovered _____ ft. of _____ | |
| Remarks: _____ | |

Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
 Initial Hydrostatic Pressure..... (A) _____ P.S.I.
 Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
 Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
 Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
 Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
 Final Hydrostatic Pressure..... (H) _____ P.S.I.

Diamond Testing 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, or its statement or opinion concerning the result 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.



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 11504 A

DATE _____ TICKET NO. _____

| | | | | | | |
|--|-----------|--|-----|------------|-----|---|
| DATE OF JOB <u>02-21-15</u> DISTRICT <u>Pratt KS</u> | | NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.: | | | | |
| CUSTOMER <u>L.D. Drilling</u> | | LEASE <u>WATT</u> <u>3-10</u> WELL NO. | | | | |
| ADDRESS | | COUNTY <u>LANE</u> STATE <u>KS</u> | | | | |
| CITY STATE | | SERVICE CREW <u>Sullivan, Eggen, Dyer</u> | | | | |
| AUTHORIZED BY | | JOB TYPE: <u>CNW surface</u> | | | | |
| EQUIPMENT# | HRS | EQUIPMENT# | HRS | EQUIPMENT# | HRS | TRUCK CALLED <u>12-20-15</u> DATE <u>12-20-15</u> AM <u>5:30</u> TIME |
| <u>86779</u> | <u>35</u> | <u>m2</u> | | | | ARRIVED AT JOB <u>12-20-15</u> AM <u>10:00</u> |
| <u>21010</u> | <u>20</u> | <u>m2</u> | | | | START OPERATION <u>2-21-15</u> AM <u>12:10</u> |
| | | | | | | FINISH OPERATION <u>12:45</u> PM |
| | | | | | | RELEASED <u>1:15</u> AM |
| | | | | | | MILES FROM STATION TO WELL <u>100</u> |

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Paul White
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

| ITEM/PRICE REF. NO. | MATERIAL, EQUIPMENT AND SERVICES USED | UNIT | QUANTITY | UNIT PRICE | \$ AMOUNT |
|---------------------|---------------------------------------|------|----------|------------|-----------|
| CP 103 | 60/40 Poz cement | SK | 275 | | 3,300 00 |
| CC 102 | Cellulose | lb | 69 | | 255 30 |
| EC 109 | Calcium chloride | lb | 711 | | 740 85 |
| E 100 | pick up mud | m | 400 | | 450 00 |
| E 101 | foam unit mud | m | 200 | | 1,500 00 |
| E 113 | Bulk Naflex TM | TM | 1185 | | 2,962 50 |
| E 200 | Depth change @ 500 | SA | 1 | | 1,000 00 |
| CE 240 | Blends & mix | SK | 275 | | 385 00 |
| 3002 | Sealed Super | SA | 1 | | 175 00 |

SUB TOTAL 10,774.35

| CHEMICAL / ACID DATA: | | | |
|-----------------------|--|--|--|
| | | | |
| | | | |
| | | | |

| | |
|--------------------------------|------------|
| SERVICE & EQUIPMENT | %TAX ON \$ |
| MATERIALS | %TAX ON \$ |
| Discount TOTAL <u>7,542.05</u> | |

SERVICE REPRESENTATIVE Robert J. [Signature] THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Paul White
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____

BASIC

energy services, L.P.

TREATMENT REPORT

| | | |
|----------------------------------|----------------------------|--------------------------------------|
| Customer <i>L.D. Drilling</i> | Lease No. | Date <i>02-21-15</i> |
| Lease <i>WAT</i> | Well # <i>3-10</i> | |
| Field Order # <i>11504</i> | Station <i>PRATT KS</i> | Casing <i>8 5/8</i> |
| Type Job <i>CNW Surface</i> | Formation | Depth <i>303'</i> |
| | | County <i>LAKE</i> |
| | | State <i>KS</i> |
| | | Legal Description <i>10-16-30</i> |

| PIPE DATA | | PERFORATING DATA | | FLUID USED | | TREATMENT RESUME | | |
|----------------------------------|--------------|------------------|----|------------|--|------------------|-------|------------------|
| Casing Size <i>8 5/8</i> | Tubing Size | Shots/Ft | | Acid | | RATE | PRESS | ISIP |
| Depth <i>303</i> | Depth | From | To | Pre Pad | | Max | | 5 Min. |
| Volume <i>17 1/2</i> | Volume | From | To | Pad | | Min | | 10 Min. |
| Max Press <i>350</i> | Max Press | From | To | Frac | | Avg | | 15 Min. |
| Well Connection <i>5 1/2"</i> | Annulus Vol. | From | To | | | HHP Used | | Annulus Pressure |
| Plug Depth <i>218'</i> | Packer Depth | From | To | Flush | | Gas Volume | | Total Load |

| | | |
|-------------------------|--------------------------------------|---|
| Customer Representative | Station Manager <i>DAVE SCOTT</i> | Treater <i>Robert J. [Signature]</i> |
|-------------------------|--------------------------------------|---|

| | | | | | | | | | |
|---------------|----------------|---------------|--------------|--------------|--------------|--|--|--|--|
| Service Units | <i>37900</i> | <i>78902</i> | <i>86779</i> | <i>70959</i> | <i>12010</i> | | | | |
| Driver Names | <i>Sallina</i> | <i>Sperry</i> | <i>Phye</i> | | | | | | |

| Time | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate | Service Log |
|--------------|-----------------|-----------------|---------------|------------|--|
| | | | | | <i>ON LOC</i> |
| <i>12:00</i> | | | | | <i>CASING AND BOTTOM</i> |
| <i>12:05</i> | | | | | <i>HOOK UP CIRC UP</i> |
| <i>12:10</i> | | | <i>2</i> | <i>3.5</i> | <i>AT SPACER</i> |
| <i>5</i> | | | <i>50</i> | <i>4.5</i> | <i>MIX CMT 275 SK 60% POZ 30% OIL 1/4 OF</i> |
| | | | | <i>4</i> | <i>CMT MIX-D</i> |
| <i>12:45</i> | | | <i>17 1/2</i> | | <i>AT DIPP</i> |
| | | | | | <i>PLUG DOWN</i> |
| | | | | | <i>ERC 12 BBL CMT P14</i> |
| | | | | | <i>JOB COMPLET</i> |
| | | | | | <i>[Signature]</i> |



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201
10-16-30

FIELD SERVICE TICKET
1718 11926 A

DATE _____ TICKET NO. _____

| | | | | | | | | | |
|---|-----------|--|-----|----------------------|-----|----------------------------|---------------|-------------------------------------|--------------|
| DATE OF JOB 3-4-15 DISTRICT Pratt | | NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.: | | | | | | | |
| CUSTOMER LD Drilling | | LEASE WATT | | WELL NO. 8-10 | | | | | |
| ADDRESS | | COUNTY LANE | | STATE KS | | | | | |
| CITY | | SERVICE CREW Martal, McGraw, Anthony, Martinez | | | | | | | |
| AUTHORIZED BY | | JOB TYPE: CNW 5 1/2 2 stage long string | | | | | | | |
| EQUIPMENT# | HRS | EQUIPMENT# | HRS | EQUIPMENT# | HRS | TRUCK CALLED | DATE | AM | TIME |
| 19905 | 1 | | | | | | 3-3-15 | <input checked="" type="checkbox"/> | 12:00 |
| | | | | | | ARRIVED AT JOB | | <input checked="" type="checkbox"/> | 6:30 |
| 19862 | .5 | | | | | START OPERATION | 3-4-15 | <input checked="" type="checkbox"/> | 12:00 |
| | | | | | | FINISH OPERATION | | <input checked="" type="checkbox"/> | 2:15 |
| 73768 | .5 | | | | | RELEASED | | <input checked="" type="checkbox"/> | 3:00 |
| | | | | | | MILES FROM STATION TO WELL | | | 100 |

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SIGNED: Y. Leonard Boone
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

| ITEM/PRICE REF. NO. | MATERIAL, EQUIPMENT AND SERVICES USED | UNIT | QUANTITY | UNIT PRICE | \$ AMOUNT |
|---------------------|---------------------------------------|------|----------|------------|-----------|
| CP 105 | AA-2 CMT | SM | 150 | | 2,550 00 |
| CP 101 | A-COM Blind | SM | 325 | | 5,850 00 |
| CP 103 | 60/40 POZ | SM | 30 | | 360 00 |
| CC 102 | CELLOXIAN | lb | 119 | | 440 30 |
| CC 109 | Calcium chloride | lb | 918 | | 963 90 |
| CC 111 | SALT | lb | 816 | | 408 00 |
| CC 113 | GYPsum | lb | 705 | | 528 75 |
| CC 129 | FIA-322 | lb | 103 | | 847 50 |
| CC 201 | Gilsonite | lb | 900 | | 603 00 |
| CF 401 | TWO STAGE CMT collar 5 1/2 | eq | 1 | | 6,100 00 |
| CF 601 | LATCH DOWN Plug + Baffle 5 1/2 | eq | 1 | | 850 00 |
| CF 125 | Auto all FLOAT SHOR 5 1/2 | eq | 1 | | 360 00 |
| CF 165 | Turbolizer 5 1/2 | eq | 7 | | 770 00 |
| CF 1901 | BAKER 5 1/2 | eq | 1 | | 290 00 |
| CC 151 | MUD Plug 4 | SM | 1,000 | | 1,800 00 |

SUB TOTAL

| CHEMICAL / ACID DATA: | | | |
|-----------------------|--|--|--|
| | | | |
| | | | |
| | | | |

| | | |
|---------------------|------------|-----------|
| SERVICE & EQUIPMENT | %TAX ON \$ | |
| MATERIALS | %TAX ON \$ | |
| TOTAL | | 26 |

| | |
|---|--|
| SERVICE REPRESENTATIVE Mike Martal | THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Y. Leonard Boone</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT) |
|---|--|

FIELD SERVICE ORDER NO.



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET

~~1718 11927~~ A

CONTINUATION OF 11926

DATE _____ TICKET NO. _____

| DATE OF JOB: 3-4-15 DISTRICT: Pratt | | NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> | | PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> | | CUSTOMER ORDER NO.: | | | | |
|-------------------------------------|-----|--|-----|---|-----|----------------------------|------|----|----|------|
| CUSTOMER: L.D. Drilling inc | | LEASE: WATT | | WELL NO. 3-66 | | | | | | |
| ADDRESS: | | COUNTY: LAWY | | STATE: KS. | | | | | | |
| CITY: STATE: | | SERVICE CREW: | | | | | | | | |
| AUTHORIZED BY: | | JOB TYPE: CWW - LONGSTRAW | | | | | | | | |
| EQUIPMENT# | HRS | EQUIPMENT# | HRS | EQUIPMENT# | HRS | TRUCK CALLED | DATE | AM | PM | TIME |
| | | | | | | ARRIVED AT JOB | | | | |
| | | | | | | START OPERATION | | | | |
| | | | | | | FINISH OPERATION | | | | |
| | | | | | | RELEASED | | | | |
| | | | | | | MILES FROM STATION TO WELL | | | | |

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: X Leonard Boese
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

| ITEM/PRICE REF. NO. | MATERIAL, EQUIPMENT AND SERVICES USED | UNIT | QUANTITY | UNIT PRICE | \$ AMOUNT |
|---------------------|---------------------------------------|------|----------|------------|-----------|
| E 100 | P.W. miles | Mi | 100 | | 450 00 |
| E 101 | Heavy eq miles | Mi | 300 | | 2,250 00 |
| E 113 | Prod + Bulk oil | FM | 2365 | | 5,912 50 |
| CE 205 | Depth charge 4001-5000' | Lb | 1 | | 2,820 00 |
| CE 240 | Blend + mix charge | SK | 505 | | 707 00 |
| CE 504 | Plg container | Job | 1 | | 250 00 |
| S 003 | Supervisor | ent | 1 | | 178 00 |

SUB TOTAL 34,685.95

| CHEMICAL / ACID DATA: | | | |
|-----------------------|--|--|--|
| | | | |
| | | | |
| | | | |

| | | |
|---------------------|------------|-----------|
| SERVICE & EQUIPMENT | %TAX ON \$ | |
| MATERIALS | %TAX ON \$ | |
| TOTAL | | 22,545.87 |
| Discount total | | |

| | |
|-------------------------------------|---|
| SERVICE REPRESENTATIVE: Mike Mattal | THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>X Leonard Boese</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT) |
| SERVICE ORDER NO. _____ | |

BASIC

energy services, L.P.

TREATMENT REPORT

| | | | | | |
|---------------|--------------------------------|-----------|----------|-------------------|----------|
| Customer | LD Drilling inc | Lease No. | | Date | 3-4-15 |
| Lease | WATT | Well # | 3-10 | | |
| Field Order # | 1926 | Station | Pratt | Casing | 5 1/2 |
| | | | | Depth | 4506 |
| Type Job | 1.1W 5 1/2 long string 2 stage | Formation | TD 4510' | County | LANE |
| | | | | State | KS |
| | | | | Legal Description | 10-16-30 |

| PIPE DATA | | PERFORATING DATA | | FLUID USED | | TREATMENT RESUME | |
|-----------------|-------|------------------|--|------------|--|------------------|---------------|
| Casing Size | 5 1/2 | Tubing Size | | Shots/Ft | | Rate | 37570 |
| Depth | 4506 | From | | To | | ISIP | 5 Min. 74# CF |
| Volume | 107.3 | From | | To | | Pre Pad | 325 SKS |
| Max Press | 1,500 | From | | To | | Max | A-con |
| Well Connection | S.C. | From | | To | | Min | |
| Plug Depth | 2445 | From | | To | | Avg | |
| | | From | | To | | HHP Used | |
| | | From | | To | | Gas Volume | |
| | | From | | To | | Total Load | |

| | | | | | |
|-------------------------|----|-----------------|---------------|---------|-------------|
| Customer Representative | LD | Station Manager | Kevin Golding | Treater | Mike Murray |
|-------------------------|----|-----------------|---------------|---------|-------------|

| | | | | | | | |
|---------------|--------|--------|-------|----------|-------|---------|-------|
| Service Units | 37586 | 77686 | 19905 | 19960 | 19862 | 19826 | 73768 |
| Driver Names | MATTAI | McGraw | | MARTINEZ | | ANTHONY | |

| Time | Casing Pressure | Tubing Pressure | Bbbls. Pumped | Rate | Service Log |
|---------|-----------------|-----------------|---------------|------|--|
| 6:30 AM | | | | | on location, safety meeting |
| 9:00 | | | | | Run 5 1/2 15.5" casing, basket on # 58 |
| | | | | | DV tool on top of # 58 @ 2173' |
| | | | | | TRIBOS on 1, 3, 5, 7, 9, 11, 57 |
| 10:55 | | | | | CASING ON BOTTOM |
| 11:05 | | | | | HOOK TO CASING / BREAK CIRC W. RIG |
| 12:10 | 250 | | 24 | 5 | PUMP 24 bbl mud flush |
| 12:15 | 250 | | 5 | 5 | PUMP 5 bbl water |
| 12:17 | 300 | | 41 | 6 | MIX 150 SKS AA-2 @ 14.8# |
| 12:26 | | | 4 | 3 | WASH PUMP + LINE, release plug |
| 12:30 | 200 | | | 4 | START DISPLACEMENT (water) |
| 12:51 | 200 | | 60 | 4 | START MUD DISPLACEMENT |
| 12:52 | 500 | | 85 | 4 | LIFT PRESSURE |
| 12:57 | 450 | | 97 | 3 | SLOW RATE |
| 12:58 | 2,000 | | 107 | | PLUG DOWN, released + hold |
| 1:00 | | | | | DROP OPENING TOOL |
| 1:10 | | | 7 | | PLUG RAT HOLE |
| 1:25 | 800 | | | | OPEN DV TOOL |
| 1:28 | 250 | | 160 | 6 | MIX 325 SKS A-con @ 11.6# |
| 1:58 | | | 4 | 3 | WASH PUMP + LINE |
| | | | | | See next page |

| | | | | | | |
|---------------|------------------------------|-----------|-----------|--------|--------|-------------------|
| Customer | LD Drilling | Lease No. | | Date | 3-4-15 | |
| Lease | WATT | Well # | 3-10 | | | |
| Field Order # | 11926 | Station | Pratt | Casing | Depth | County |
| Type Job | Cm 5 1/2 2 stage Long Spring | | Formation | | | Legal Description |

| PIPE DATA | | PERFORATING DATA | | FLUID USED | | TREATMENT RESUME | | |
|-----------------|--------------|------------------|----|------------|------------|------------------|------------------|--|
| Casing Size | Tubing Size | Shots/Ft | | Acid | RATE | PRESS | ISIP | |
| Depth | Depth | From | To | Pre Pad | Max | | 5 Min. | |
| Volume | Volume | From | To | Pad | Min | | 10 Min. | |
| Max Press | Max Press | From | To | Frac | Avg | | 15 Min. | |
| Well Connection | Annulus Vol. | From | To | | HHP Used | | Annulus Pressure | |
| Plug Depth | Packer Depth | From | To | Flush | Gas Volume | | Total Load | |

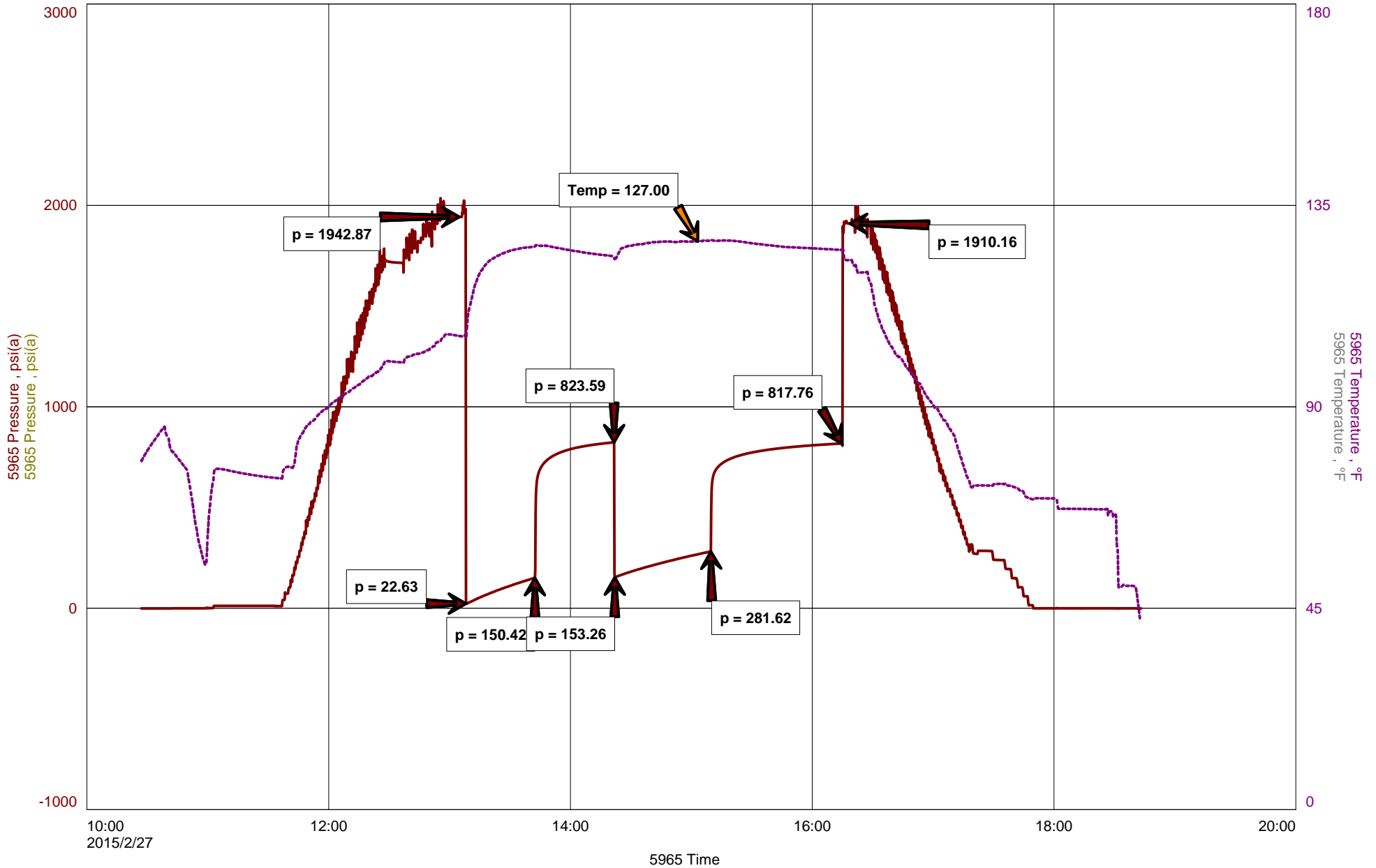
| | | |
|-------------------------|-----------------|---------|
| Customer Representative | Station Manager | Treater |
| Service Units | | |
| Driver Names | | |

| Time | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate | Service Log |
|------|-----------------|-----------------|--------------|------|--|
| 2:01 | 400 | } | | 6 | START DISPLACEMENT |
| 2:06 | 400 | | 42 | 3 | SLOW RATE |
| 2:15 | 2,000 | | 51.7 | - | PLUG DOWN, RELEASED + HOLD 30 BBLS CNT TO PIS CIRC TRM JOB |
| | | | | | JOB COMPLETE THANK YOU! MIKE MATTAI MIKE + JAKE + DAVIS |

LD Drilling
DST 2 Lan K 4073-4100
Start Test Date: 2015/02/27
Final Test Date: 2015/02/27

Watt 3-10
Formation: Lan K
Job Number: W170

Watt 3-10 DST 2





Diamond Testing General Report

Wilbur Steinbeck
TESTER
CELL: 620-282-1573

General Information

| | | | | |
|-------------------------|-------------|------------------------------|-----------------------|------------------|
| Company Name | LD Drilling | Kim Shoemaker | Job Number | W170 |
| Contact | | Watt 3-10 | Representative | Wilbur Steinbeck |
| Well Name | | DST 2 Lan K 4073-4100 | Well Operator | LD |
| Unique Well ID | | 10-16s-30w Lane/Kans | Report Date | 2015/02/27 |
| Surface Location | | Wildcat | Prepared By | Wilbur Steinbeck |
| Field | | | Qualified By | Kim Shoemaker |

Test Information

| | | | |
|----------------------------|--------------|------------------------|----------|
| Test Type | Conventional | | |
| Formation | Lan K | | |
| Well Fluid Type | 01 Oil | | |
| Test Purpose (AEUB) | Initial Test | | |
| Start Test Date | 2015/02/27 | Start Test Time | 10:27:00 |
| Final Test Date | 2015/02/27 | Final Test Time | 18:43:00 |

Test Recovery

Recovery 1' Gassy Free Oil
 580' GMCW 5%G 25%M 70%W
 581' Total Fluid
 180' GIP

Tool Sample MCW 30%M 70%W

RW=44



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: Watt 3-10 DST 2

TIME ON: 10:27
TIME OFF: 18:43

Company LD Drilling Lease & Well No. Watt 3-10
Contractor LD Charge to LD Drilling
Elevation 2728 KB Formation _____ Lan K Effective Pay _____ Ft. Ticket No. W170
Date 2-27-15 Sec. 10 Twp. _____ 16 S Range _____ 30 W County _____ Lane _____ State KANSAS
Test Approved By Kim Shoemaker Diamond Representative Wilbur Steinbeck

Formation Test No. 2 Interval Tested from 4073 ft. to 4100 ft. Total Depth 4100 ft.

Packer Depth 4068 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 4073 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4059 ft. Recorder Number 5446 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 4074 ft. Recorder Number 5965 Cap. 5,000 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 64 Drill Collar Length _____ 0 ft. I.D. 2 1/4 in.

Weight 8.9 Water Loss 7.6 cc. Weight Pipe Length _____ 0 ft. I.D. 2 7/8 in.

Chlorides 2000 P.P.M. Drill Pipe Length 4045 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number 07 Test Tool Length 28 ft. Tool Size 3 1/2-IF in.

Did Well Flow? No Reversed Out No Anchor Length 27 ft. Size 4 1/2-FH in.

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: BOB in 7 min Surface blow

2nd Open: BOB in 9 min Surface blow

Recovered 1 ft. of Gassy Free Oil

Recovered 580 ft. of GMCW 5%G 25%M 70%W

Recovered 581 ft. of Total Fluid

Recovered 180 ft. of GIP

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

Tool Sample MCW 30%M 70%W

RW=44,000ppm

Time Set Packer(s) 13:10 A.M. P.M. Time Started Off Bottom 16:10 A.M. P.M. Maximum Temperature 127

Initial Hydrostatic Pressure..... (A) 1943 P.S.I.

Initial Flow Period..... Minutes 30 (B) 23 P.S.I. to (C) 150 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 824 P.S.I.

Final Flow Period..... Minutes 45 (E) 153 P.S.I. to (F) 282 P.S.I.

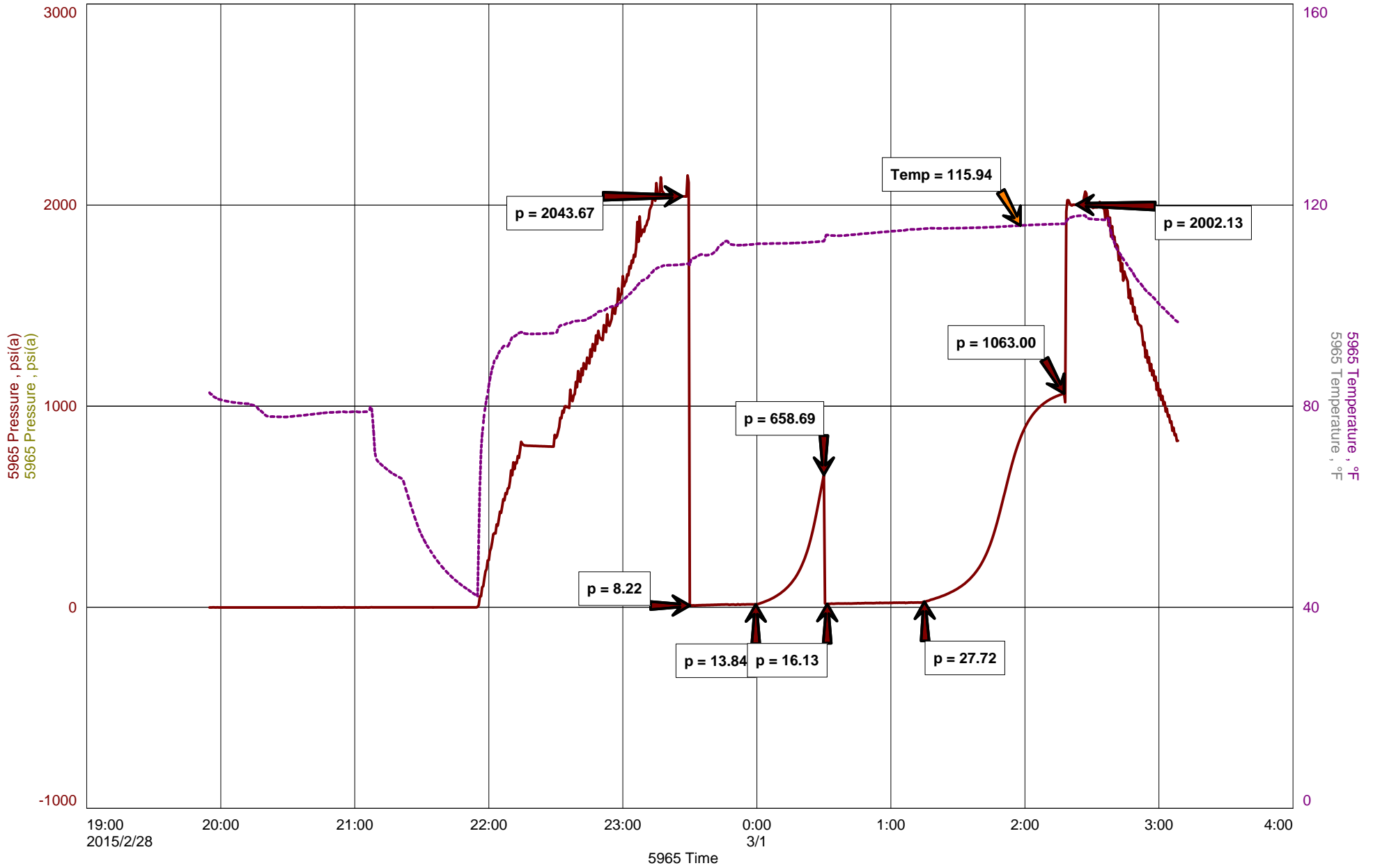
Final Closed In Period..... Minutes 60 (G) 818 P.S.I.

Final Hydrostatic Pressure..... (H) 1910 P.S.I.

| |
|---------------|
| Price Job |
| Other Charges |
| Insurance |
| Total |

Diamond Testing 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, or its statement or opinion concerning the result 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.

Watt 3-10 DST 3





Diamond Testing General Report

Wilbur Steinbeck
TESTER
CELL: 620-282-1573

General Information

| | | | | |
|-------------------------|-------------|------------------------------|-----------------------|------------------|
| Company Name | LD Drilling | Kim Shoemaker | Job Number | W171 |
| Contact | | Watt 3-10 | Representative | Wilbur Steinbeck |
| Well Name | | DST 3 Paw/ My. St. 4267-4315 | Well Operator | LD |
| Unique Well ID | | 10-16s-30w Lane/Kans | Report Date | 2015/02/28 |
| Surface Location | | Wildcat | Prepared By | Wilbur Steinbeck |
| Field | | | Qualified By | Kim Shoemaker |

Test Information

| | | | |
|----------------------------|--------------|------------------------|----------|
| Test Type | Conventional | | |
| Formation | Paw/My. St. | | |
| Well Fluid Type | 01 Oil | | |
| Test Purpose (AEUB) | Initial Test | | |
| Start Test Date | 2015/02/28 | Start Test Time | 19:55:00 |
| Final Test Date | 2015/03/01 | Final Test Time | 04:34:00 |

Test Recovery

Recovery 32' Mud with oil spots
32' Total Fluid

Tool Sample Mud



DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: Watt 3-10 DST 3

TIME ON: 19:55
 TIME OFF: 4:34

Company LD Drilling Lease & Well No. Watt 3-10
 Contractor LD Charge to LD Drilling
 Elevation 2728 KB Formation _____ Paw/My. St. Effective Pay _____ Ft. Ticket No. W171
 Date 2-28-15 Sec. 10 Twp. _____ 16 S Range _____ 30 W County _____ Lane _____ State KANSAS
 Test Approved By Kim Shoemaker Diamond Representative _____ Wilbur Steinbeck

Formation Test No. 3 Interval Tested from 4267 ft. to 4315 ft. Total Depth 4315 ft.
 Packer Depth 4262 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 4267 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) 4253 ft. Recorder Number 5446 Cap. 5,000 P.S.I.
 Bottom Recorder Depth (Outside) 4268 ft. Recorder Number 5965 Cap. 5,000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Mud Type Chem Viscosity 59 Drill Collar Length _____ 0 ft. I.D. 2 1/4 in.
 Weight 9.1 Water Loss 7.8 cc. Weight Pipe Length _____ 0 ft. I.D. 2 7/8 in.
 Chlorides 2400 P.P.M. Drill Pipe Length 4234 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number 07 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? No Reversed Out No Anchor Length 48 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Built to 1 1/2" Surface blow
 2nd Open: BOB in 45 min Surface blow

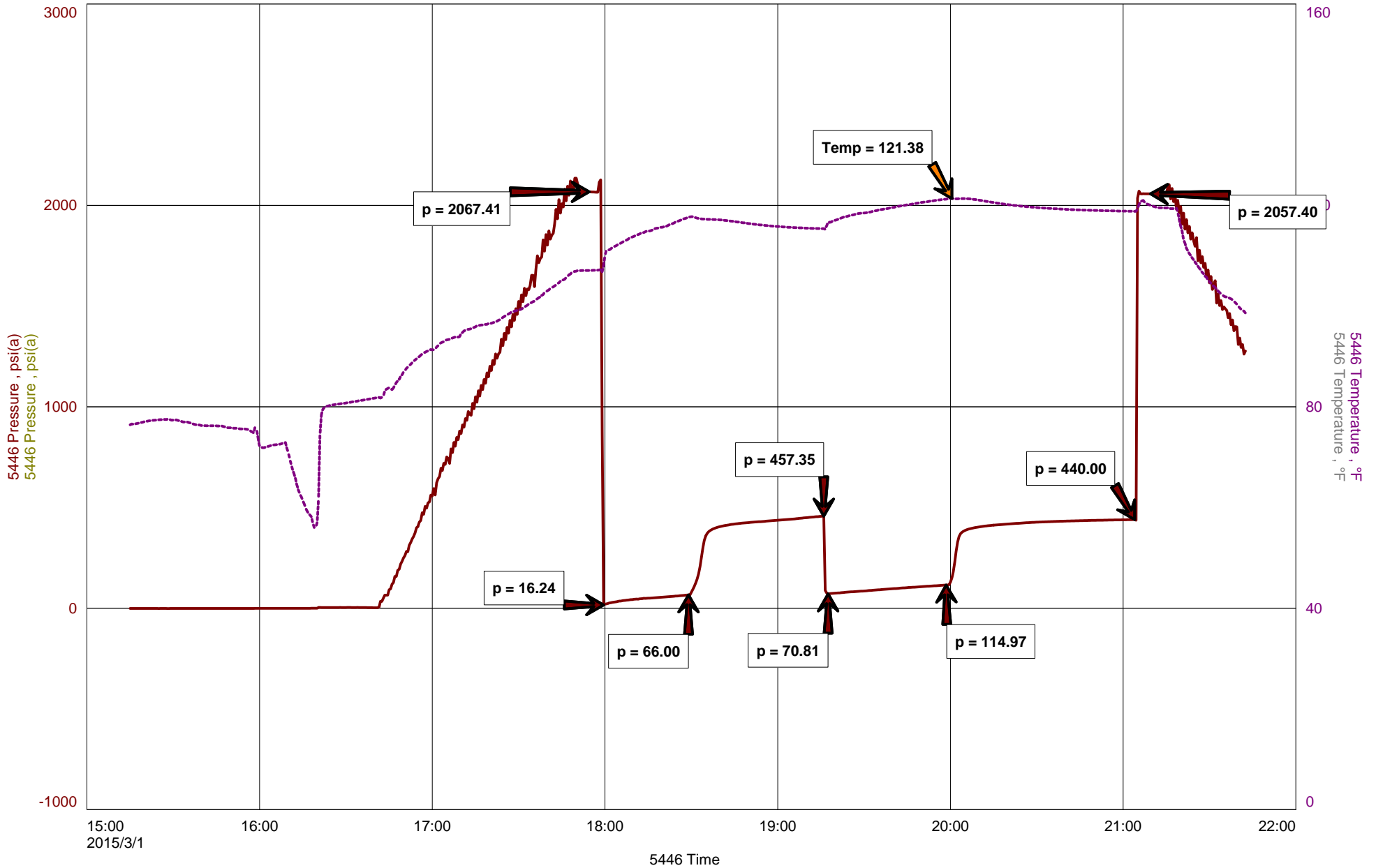
Recovered 32 ft. of Mud With Oil Spots
 Recovered 32 ft. of Total Fluid
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Remarks: _____
 Tool Sample Mud

| | |
|-------------|---------------|
| | Price Job |
| 65 Miles RT | Other Charges |
| | Insurance |
| | Total |

Time Set Packer(s) 23:30 A.M. P.M. Time Started Off Bottom 2:15 A.M. P.M. Maximum Temperature 116
 Initial Hydrostatic Pressure..... (A) 2044 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 8 P.S.I. to (C) 14 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 659 P.S.I.
 Final Flow Period..... Minutes 45 (E) 16 P.S.I. to (F) 28 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 1063 P.S.I.
 Final Hydrostatic Pressure..... (H) 2002 P.S.I.

Diamond Testing 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, or its statement or opinion concerning the result 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.

Watt 3-10 DST 4





Diamond Testing General Report

Wilbur Steinbeck
TESTER
CELL: 620-282-1573

General Information

| | | | | |
|-------------------------|-------------|--------------------------|-----------------------|------------------|
| Company Name | LD Drilling | Kim Shoemaker | Job Number | W172 |
| Contact | | Watt 3-10 | Representative | Wilbur Steinbeck |
| Well Name | | DST 4 FT. Scott/Cherokee | Well Operator | LD |
| Unique Well ID | | 4317-4372 | Report Date | 2015/03/01 |
| Surface Location | | 10-16s-30w Lane/Kans | Prepared By | Wilbur Steinbeck |
| Field | | Wildcat | Qualified By | Kim Shoemaker |

Test Information

| | | | |
|----------------------------|--------------------|------------------------|----------|
| Test Type | Conventional | | |
| Formation | Ft. Scott/Cherokee | | |
| Well Fluid Type | 01 Oil | | |
| Test Purpose (AEUB) | Initial Test | | |
| Start Test Date | 2015/03/01 | Start Test Time | 15:15:00 |
| Final Test Date | 2015/03/01 | Final Test Time | 23:42:00 |

Test Recovery

Recovery 125' Gassy Free Oil
 145' GMCO 20%G 25%M 55%O
 270' Total Fluid
 1165' GIP

Tool Sample GMCO 15%G 25%M 60%O

Corrected Gravity=36.6



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: Watt 3-10 DST 4

TIME ON: 15:15
TIME OFF: 23:42

Company LD Drilling Lease & Well No. Watt 3-10
Contractor LD Charge to LD Drilling
Elevation 2728 KB Formation Ft. Scott/Cherokee Effective Pay _____ Ft. Ticket No. W172
Date 3-1-15 Sec. 10 Twp. _____ 16 S Range _____ 30 W County _____ Lane _____ State KANSAS
Test Approved By Kim Shoemaker Diamond Representative _____ Wilbur Steinbeck

Formation Test No. 4 Interval Tested from 4317 ft. to 4372 ft. Total Depth 4372 ft.
Packer Depth 4312 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4317 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4303 ft. Recorder Number 5446 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4318 ft. Recorder Number 5965 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 55 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 8.8 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 3300 P.P.M. Drill Pipe Length 4284 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 07 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? Yes Reversed Out No Anchor Length 55 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: BOB in 4 min Surface blow
2nd Open: BOB in 4 min Built to 1"

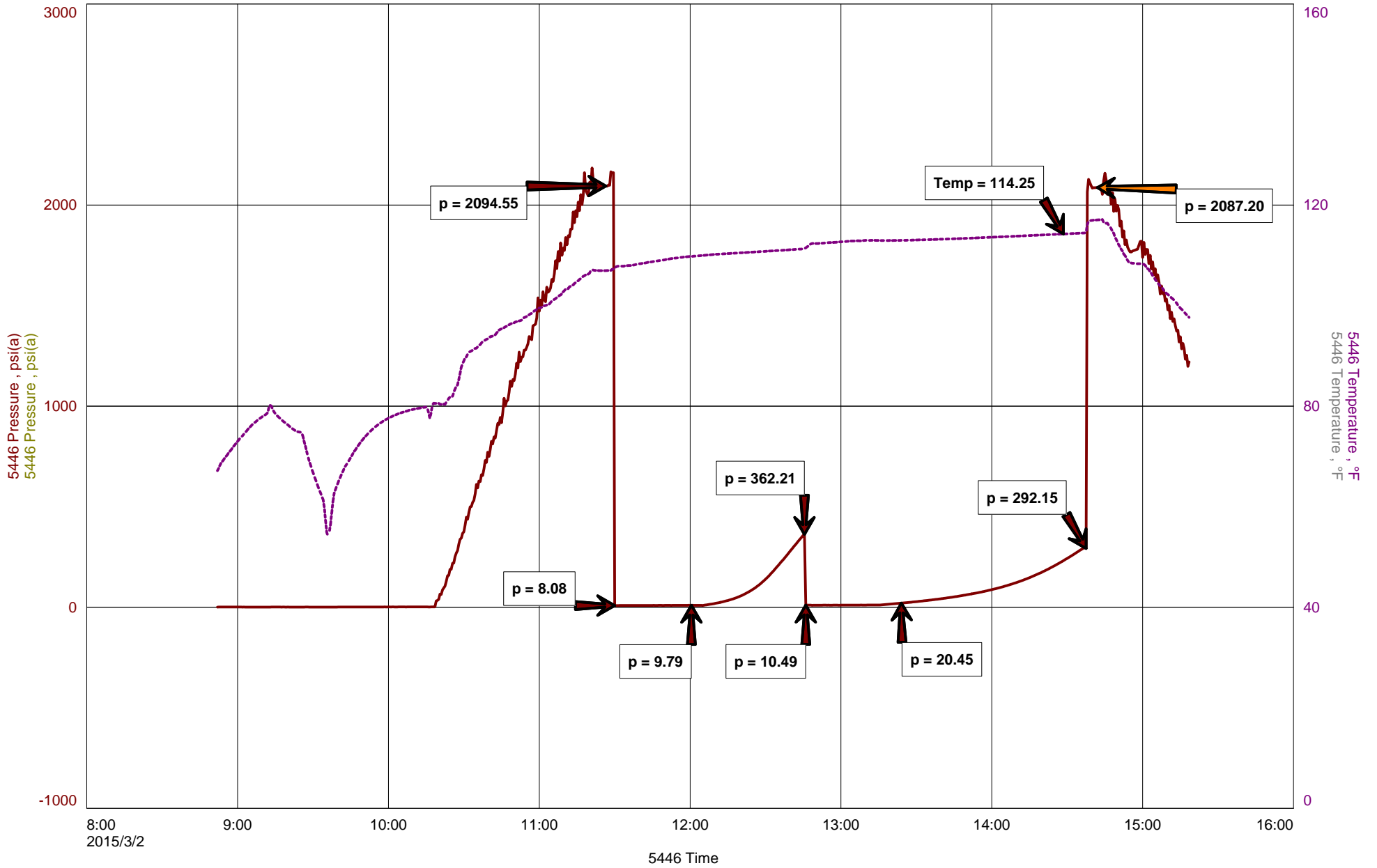
Recovered 125 ft. of Gassy Free Oil
Recovered 145 ft. of GMCO 20%G 25%M 55%O
Recovered 270 ft. of Total Fluid
Recovered 1165 ft. of GIP

| | |
|--|------------------------------|
| Recovered _____ ft. of _____ | Price Job |
| Recovered _____ ft. of _____ | 65 Miles RT Other Charges |
| Remarks: _____ | Insurance |
| Tool Sample <u>GMCO 15%G 25%M 60%O</u> | |
| Corrected Gravity= <u>36.6</u> | Total |

Time Set Packer(s) 18:00 A.M. P.M. Time Started Off Bottom 21:00 A.M. P.M. Maximum Temperature 121
Initial Hydrostatic Pressure..... (A) 2067 P.S.I.
Initial Flow Period..... Minutes 30 (B) 16 P.S.I. to (C) 66 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 457 P.S.I.
Final Flow Period..... Minutes 45 (E) 71 P.S.I. to (F) 115 P.S.I.
Final Closed In Period..... Minutes 60 (G) 440 P.S.I.
Final Hydrostatic Pressure..... (H) 2057 P.S.I.

Diamond Testing 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, or its statement or opinion concerning the result 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.

Watt 3-10 DST 5





Diamond Testing General Report

Wilbur Steinbeck
TESTER
CELL: 620-282-1573

General Information

| | | | | |
|-------------------------|-------------|-----------------------------|-----------------------|------------------|
| Company Name | LD Drilling | Kim Shoemaker | Job Number | W173 |
| Contact | | Watt 3-10 | Representative | Wilbur Steinbeck |
| Well Name | | DST 5 Johnson | Well Operator | LD |
| Unique Well ID | | 4370-4415 | Report Date | 2015/03/02 |
| Surface Location | | 10-16s-30w Lane/Kans | Prepared By | Wilbur Steinbeck |
| Field | | Wildcat | Qualified By | Kim Shoemaker |

Test Information

| | | | |
|----------------------------|--------------|------------------------|----------|
| Test Type | Conventional | | |
| Formation | Johnson | | |
| Well Fluid Type | 01 Oil | | |
| Test Purpose (AEUB) | Initial Test | | |
| Start Test Date | 2015/03/02 | Start Test Time | 08:52:00 |
| Final Test Date | 2015/03/02 | Final Test Time | 16:40:00 |

Test Recovery

Recovery 10' Slightly oil cut mud 2%O 985M
10' Total Fluid

Tool Sample Mud with oil spots



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: Watt 3-10 DST 5

TIME ON: 8:52
TIME OFF: 16:40

Company LD Drilling Lease & Well No. Watt 3-10
Contractor LD Charge to LD Drilling
Elevation 2728 KB Formation Johnson Effective Pay _____ Ft. Ticket No. W173
Date 3-2-15 Sec. 10 Twp. _____ 16 S Range _____ 30 W County _____ Lane _____ State KANSAS
Test Approved By Kim Shoemaker Diamond Representative _____ Wilbur Steinbeck

Formation Test No. 5 Interval Tested from 4370 ft. to 4415 ft. Total Depth 4415 ft.
Packer Depth 4365 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4370 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4366 ft. Recorder Number 5446 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4371 ft. Recorder Number 5965 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 55 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 9.5 Water Loss 9.5 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 9.6 P.P.M. Drill Pipe Length 4337 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 3800 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? Yes Reversed Out No Anchor Length 45 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Built to 1 1/2" Surface blow
2nd Open: Built to 3/4" Built to 1/2"

Recovered 10 ft. of Slightly oil cut mud
Recovered 10 ft. of Total Fluid
Recovered _____ ft. of _____
Recovered _____ ft. of _____

| | |
|---------------------------------------|---------------|
| Recovered _____ ft. of _____ | Price Job |
| Recovered _____ ft. of _____ | Other Charges |
| Recovered _____ ft. of _____ | Insurance |
| Remarks: _____ | Total |
| Tool Sample <u>Mud with oil spots</u> | |

Time Set Packer(s) 11:30 A.M. P.M. Time Started Off Bottom 14:30 A.M. P.M. Maximum Temperature 114
Initial Hydrostatic Pressure..... (A) 2095 P.S.I.
Initial Flow Period..... Minutes 30 (B) 8 P.S.I. to (C) 10 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 362 P.S.I.
Final Flow Period..... Minutes 45 (E) 10 P.S.I. to (F) 20 P.S.I.
Final Closed In Period..... Minutes 60 (G) 292 P.S.I.
Final Hydrostatic Pressure..... (H) 2087 P.S.I.

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KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 * WICHITA, KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY L.D. DRILLING, INC.

LEASE # 3-10 WATT

FIELD DOLL EAST

LOCATION 1650' FSL & 2310' FWL

SEC 10 TWP 16s RGE 30w

COUNTY LANE STATE KANSAS

CONTRACTOR L.D. DRILLING, INC.

SPUD 2-20-15 COMP 3-3-15

RTD 4510 LTD 4513

MUD UP 3447 TYPE MUD CHEMICAL

ELEVATIONS

KB 2728

DF _____

GL 2723

Measurements Are All From 2728 KB

CASING SURFACE 8 5/8" @ 303'
PRODUCTION 5 1/2" @

ELECTRICAL SURVEYS
DUAL IND., DENS.-N., MICRO

SAMPLES SAVED FROM 3600 TO 4510

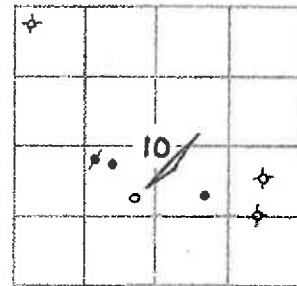
DRILLING TIME KEPT FROM 3300 TO 4510

SAMPLES EXAMINED FROM 3600 TO 4510

GEOLOGICAL SUPERVISION FROM 3700 TO 4510

GEOLOGIST ON WELL KIM B. SHOEMAKER

| FORMATION TOPS | LOG | SAMPLES |
|----------------|-----------|-----------|
| ANHYDRITE | 2130+598 | 2131+597 |
| B/ANH. | 2161-567 | 2162+566 |
| STOTLER | 3401-673 | 3400-672 |
| HEEBNER | 3785-1057 | 3783-1055 |
| LANSING | 3823-1095 | 3820-1092 |
| STARK | 4076-1348 | 4074-1346 |
| MARMATON | 4186-1458 | 4182-1454 |
| FORT SCOT | 4330-1602 | 4329-1596 |
| CHEROKEE | 4354-1626 | 4351-1623 |
| MISSISSIPPI | 4426-1698 | 4422-1694 |



REMARKS

2-20-15 SPUD
2-21 @ 306'
2-22 @ 1669'
2-23 @ 2635'
2-24 @ 2938'
2-25 @ 3470'
2-26 @ 3923'
2-27 @ 4100'
2-28 @ 4209'
3-1 @ 4315'
3-2 @ 4415'
3-3 @ 4510'

API: 15-101-22558

LEGEND

- Anhydrite
- Salt
- Sandstone
- Shale
- Carb sh
- Limestone
- Ool. Lime
- Chert
- Dolomite

SHOE01-11

DRILLING TIME IN MINUTES PER FOOT
Rate of Penetration Increases



LITHOLOGY

SAMPLE DESCRIPTIONS

REMARKS

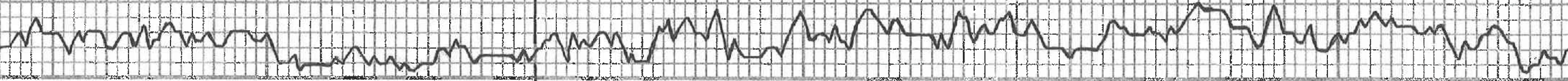
3300

3400

3500

STOTLER 3400-672

VIS: 67
SMT: 8.6
WLS: 6.4
CUL: 1500



3600

3700

3800

3900

Samples are Logged

Sh. Silty Silty

Ls. w/ V. fossils, Silty, Foss.

Ls. w/ V. fossils, Silty, Foss.

Ls. Foss. Calcitic

Sh. Blk

Ls. Br. Gy. Silty Foss.

Sh. Heavy, Silty

Ls. w/ and Foss. Calcitic

Sh. Gy.

Ls. Silty, V. Silty Foss.

Ls. Silty Foss. Chalky

Ls. Foss. Calcitic

Ls. w/ Chalky

Ls. w/ Chalky, Foss. w/ Chalky

Ls. Br. Silty Foss. Silty Chalky

HEEGNER 3783-1055

Sh. Blk. Clay, Silty Foss.

Sh. L. Silty

Ls. w/ Silty Foss. Silty

Am. Silty

LANSING 3820-1092

Ls. w/ Silty Foss. Silty

Ls. w/ and Silty

Sh. Blk. Silty

Sh. Chalky

Ls. w/ V. Silty Foss. Silty Chalky

Sh. Blk. Silty

Ls. Gy. V. Silty Foss. Silty

Ls. w/ V. Silty Foss. V. Silty Calcitic

Sh. Blk. Silty

Ls. Foss. Silty Foss. Chalky

Sh. Blk. Silty

Ls. Gy. Silty Silty Calcitic

ls. Tan. Exh. loc.
 ls. wt. Silty
 ls. Lig. Dis. V. Sil. Chly.

MUNCIE CREEK 3986-1258
 Sh. Blk. Carb. ls. Lig. Sil. Foss.
 Sh. Lig.
 ls. wt.
 ls. wt. Lig. Foss. Sil. A
 ls. Tan. Dis.
 Sh. Lig. ls. Bl. Exh. V. Sil. Foss.
 Sh. Lig.

ls. Blk. V. Sil. Foss. V. Sil. Chly. F. DESK
 7" Fg. NO. 00112.
 ls. Bl. Exh. Dis.
 ls. Lig. blk. Sil. Chly.
 ls. Gy. Dis.
STARK 4074-1316
 Sh. Blk. Carb. ls. Bl. Exh. V. Sil. Foss. Sil. A
 556
 ls. Bl. Exh. Sil. Dis. V. Sil. Foss. Sil. A
 ls. wt. V. Chly.

HUSHPOCKNEY 4110-1382
 Sh. Blk. Carb.
 ls. Bl. V. Sil. Foss. Sil. A
 ls. Tan. Sil. Foss. V. Sil. Foss. Sil. A
 ls. Lig. V. Sil. Chly. V. Sil. Col. Exh.
 ls. wt. Lig. Sil. Foss. Chly.
 B/KC
 Sh. Blk. Carb.
 ls. Gy. Dis.
 Sh. Blk. Carb. silty

MARMATON 4182-1454
 ls. Tan. V. Sil. Foss. Sil. A
 Sh. Blk. Carb.

Sh. Blk. Carb.
 ls. Lig. blk. Sil. Foss. V. Sil. Foss. Sil. A
 Sh. Gy.
 Sh. Lig.

Sh. Blk. Carb. Silty
 ls. Lig. V. Sil. Foss. Sil. A

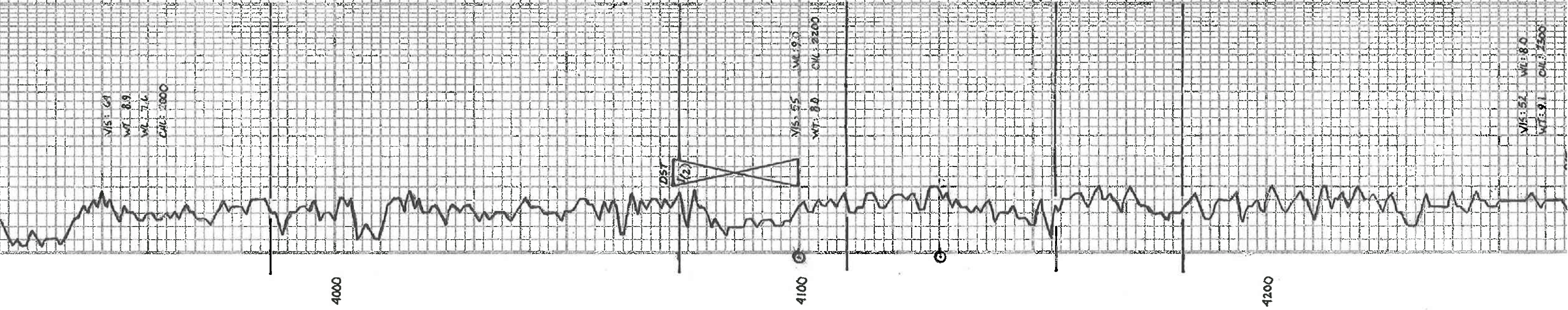
ls. Lig. V. Sil. Foss. Sil. A

Sh. Blk. Carb. Silty
 ls. Lig. V. Sil. Foss. Sil. A

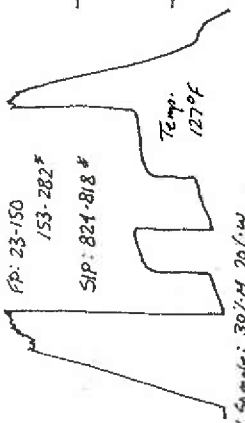
VIS: 64
 WT: 8.9
 WT: 7.6
 CAL: 2000

VIS: 55
 WT: 8.0
 CAL: 2200

VIS: 52
 WT: 8.0
 WT: 9.1
 CAL: 2500



DST (1) 4073-4100
 HIT BRIDGE, MIS-RUN
DST (2) 4073-4100
 1st OPEN: Bottom bucket 7 min. 88' Surface Dis.
 2nd OPEN: " " 9 " 88' "
 30-45-45-60
 60 G.I.P.
 Rec. 1' CO
 580 GCMW (51.6.251/M 70/10)
 TF 581'
 CLK: 41,000



Test Sample: 30% H 70% W

DST (3) 4267-4315
 1st OPEN: Blow count to 1 1/2"
 2nd OPEN: Bottom bucket 45 min.
 30-30-45-60
 30' G.I.P.
 Rec. 32' V502M (2-3/201)
 Est.

PAWNEE 4212-1594

11. wt. To. VSH. Boss VAT. P. R. P. H. P. 8
DE. R. SH. Ed. Sp. M. SH. ES. Ed. E. Ed. w. R.
V. Ed. Ed.

Es. Tan. g. Dal.

SH. BLK. Carb.
Es. DE. R. V. Ed. Ed. Ed.

MYRICK STATION 4305-1577

Es. Tan. g. Dal. V. Ed. Ed.
Es. Tan. g. Dal. V. Ed. Ed.

FORT SCOT 4324-1596

Es. Tan. g. Dal. V. Ed. Ed.
Es. Tan. g. Dal. V. Ed. Ed.

CHEROKEE 4351-1623
SH. BLK. Carb.

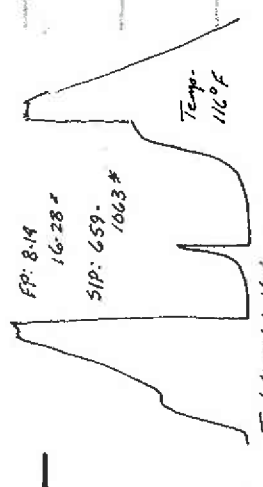
Es. Tan. g. Dal. V. Ed. Ed.
Es. Tan. g. Dal. V. Ed. Ed.

JOHNSON 4380-1661

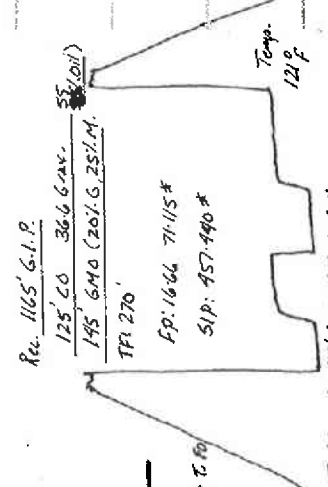
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Es. Tan. g. Dal. V. Ed. Ed.

MISSISSIPPI 4422-1684

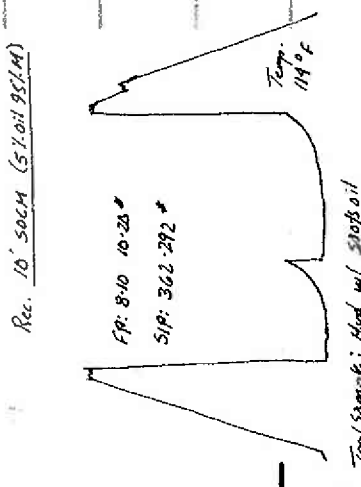
Es. Tan. g. Dal. V. Ed. Ed.
Es. Tan. g. Dal. V. Ed. Ed.



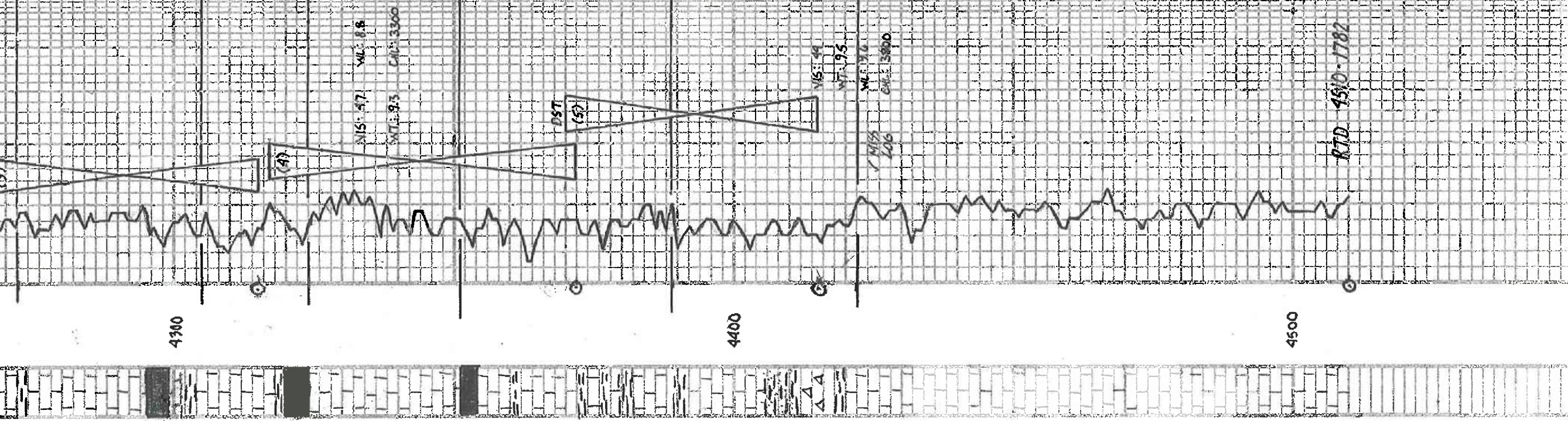
FR: 8-14 16-28
SIP: 659-1063 #
Temp: 116°F
Tool Sample: Mud
DST (4) 4317-93702
150 DEN: Bottom bucket 4 min.
210 DEN: " " " " " " " "



Rec. 1165' G.I.P.
125' CO 366 G.M.A.
145 G.M.O (20% G. 25% M.)
TRF 270
FR: 1666 71-115 #
SIP: 457-1490 #
Temp: 121°F
Tool Sample: 15' G. 25' M. G. 50' CO



Rec. 10' SOCM (5' 10" 95' M)
FR: 8-10 10-20 #
SIP: 362-292 #
Temp: 114°F
Tool Sample: Mud w/ spots oil



4300

4400

4500

RTD 4510-1782