



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1202742
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: _____

1202742

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 <i>(Attach Additional Sheets)</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Log | Formation (Top), Depth and Datum | <input type="checkbox"/> Sample |
| Samples Sent to Geological Survey | <input type="checkbox"/> Yes <input type="checkbox"/> No | Name | Top | Datum |
| 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: | | | | |

| 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: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

| 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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____ | PRODUCTION INTERVAL: _____ _____ |
|--|---|---|

| | |
|-----------|------------------------|
| Form | ACO1 - Well Completion |
| Operator | L. D. Drilling, Inc. |
| Well Name | HARLEY 1-30 |
| Doc ID | 1202742 |

Tops

| Name | Top | Datum |
|----------------------|------|-------|
| ANHYDRITE | 2004 | +603 |
| BASE ANHYDRITE | 2034 | +573 |
| STOTLER | 3253 | -646 |
| HEEBNER | 3627 | -1020 |
| LANSING | 3669 | -1062 |
| STARK | 3905 | -1298 |
| MARMATON | 3999 | -1392 |
| FORT SCOTT | 4158 | -1551 |
| CHEROKEE | 4182 | -1575 |
| MISSISSIPPI ST LOUIS | 4252 | -1645 |
| MISS SPERGEN | 4276 | -1669 |

| | |
|-----------|------------------------|
| Form | ACO1 - Well Completion |
| Operator | L. D. Drilling, Inc. |
| Well Name | HARLEY 1-30 |
| Doc ID | 1202742 |

Perforations

| Shots Per Foot | Perforation Record | Material Record | Depth |
|----------------|----------------------------|-------------------|-------|
| 4 | 4286 - 4288'; 4282 - 4284' | 1000 gal 20% Acid | |
| 4 | 4278 - 4280'; 4280 - 4282' | 500 gal 15% Acid | |
| 4 | 4284 - 4286'; 4288 - 4290' | 3000 gal 20% Acid | |
| 4 | 4237 - 4239'; 4186 - 4188' | | |
| 4 | 4138 - 4140'; 4097 - 4099' | | |
| 4 | 3869 - 3871'; 3835 - 3837' | | |



Diamond Testing General Report

**JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977**

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

| | | | |
|----------------------|------------------|-------------------------|-----------------------------|
| Company Name | LD DRILLING INC | Well Name | HARLEY #1-30 |
| Well Operator | LD DRILLING INC | Unique Well ID | DST #1 MARMATON 4004'-4148' |
| Contact | LD DAVIS | Surface Location | SEC 30-14S-29W-GOVE CO.-KS |
| Site Contact | KIM SHOEMAKER | Test Unit | #5 |
| Field | LUNDGREN | Pool | NA |
| Well Type | Vertical | Job Number | F253 |
| Prepared By | JAKE FAHRENBRUCH | Qualified By | KIM SHOEMAKER |

Test Information

| | | | |
|------------------------|----------------------|------------------------|--------------|
| Test Type | BOTTOM-HOLE W/J&J | Test Purpose | Initial Test |
| Formation | MARMATON 4004'-4148' | Gauge Name | INSIDE 5951 |
| Start Test Date | 2014/03/03 | Start Test Time | 04:57:00 |
| Final Test Date | 2014/03/03 | Final Test Time | 13:06:00 |

Test Results

| | |
|---------------|---|
| 30 MIN I.F. | FAIR BLOW, INC TO B.O.B. IN 18 MIN |
| 45 MIN I.S.I. | SURFACE BLOW-BACK |
| 45 MIN F.F. | FAIR BLOW @ 2", INC TO B.O.B. IN 17 MIN |
| 60 MIN F.S.I. | BLOW-BACK @ 1" |

RECOVERED:

| | | |
|------|---------------------------------|--------------------|
| 85' | SGC OCM | 5% G, 15% O, 80% M |
| ---- | 240' G.I.P. | |
| ---- | TOOL SAMPLE: HOVM, 30% O, 70% M | |
| ---- | BOTTOM-HOLE TEMP: 121 DEG F | |

PRESSURES:

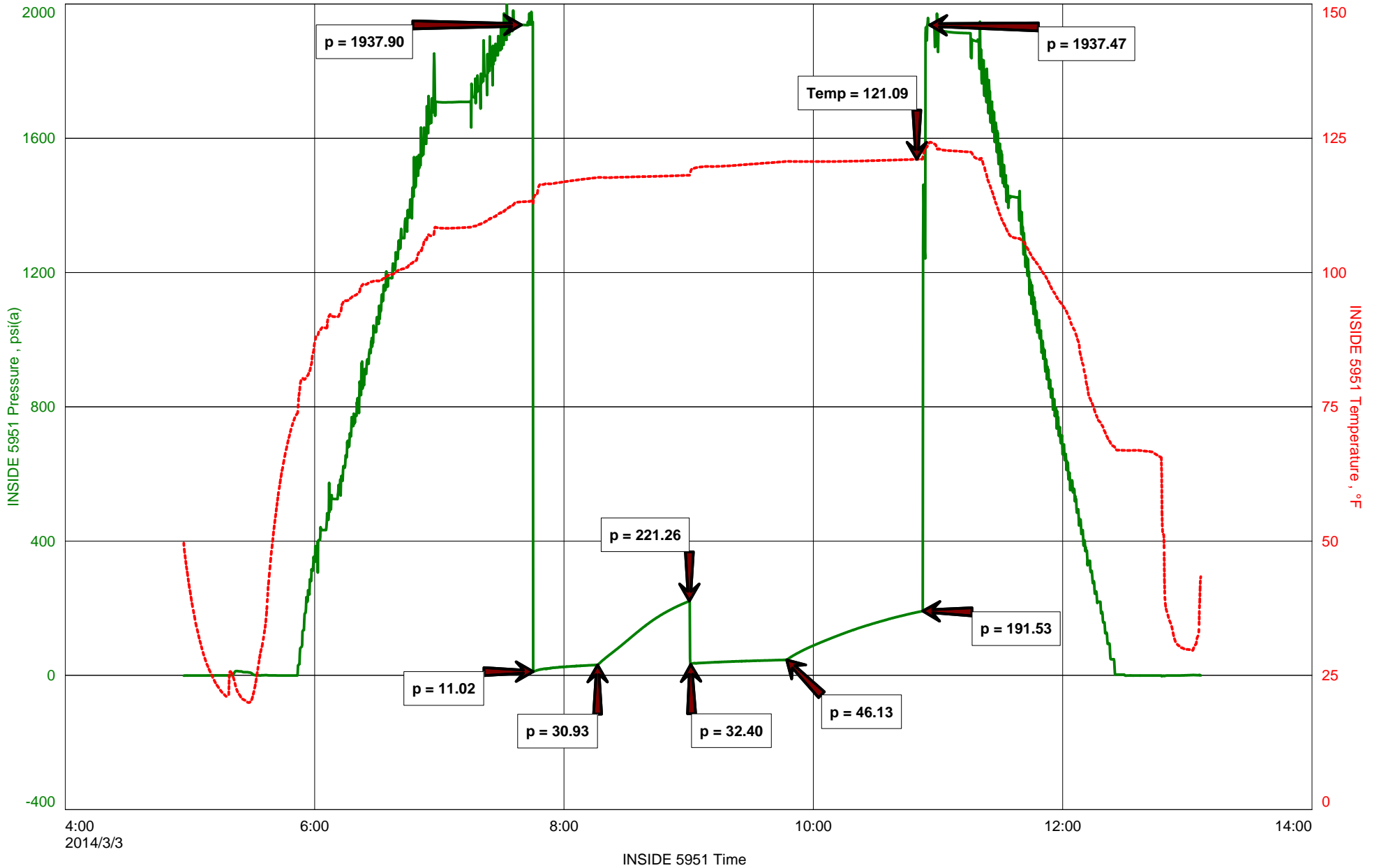
| | |
|-----------|-------|
| I.H.P.: | 1937 |
| I.F.P.: | 11-31 |
| I.S.I.P.: | 221 |
| F.F.P.: | 32-46 |
| F.S.I.P.: | 192 |
| F.H.P.: | 1937 |

THANKS!

LD DRILLING INC
DST #1 MARMATON 4004'-4148'
Start Test Date: 2014/03/03
Final Test Date: 2014/03/03

HARLEY #1-30
Formation: MARMATON 4004'-4148'
Pool: NA
Job Number: F253

HARLEY #1-30





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HARLEY1DST1

TIME ON: 4:57 AM
TIME OFF: 1:06 PM

Company LD DRILLING, INC. Lease & Well No. HARLEY #1-30
Contractor LD DRILLING, INC. Charge to LD DRILLING, INC.
Elevation 2607' KB Formation MARMATON Effective Pay FIELD: LUNDGREN Ft. Ticket No. F253
Date MON 3-3-14 Sec. 30 Twp. 14 S Range 29 W County GOVE State KANSAS
Test Approved By KIM SHOEMAKER Diamond Representative JAKE FAHRENBRUCH

Formation Test No. ONE Interval Tested from 4004 ft. to 4148 ft. Total Depth 4148 ft.
Packer Depth 3999 ft. Size 6 3/4 in. Packer depth ----- ft. Size 6 3/4 in.
Packer Depth 4004 ft. Size 6 3/4 in. Packer depth ----- ft. Size 6 3/4 in.
Depth of Selective Zone Set -----

Top Recorder Depth (Inside) 3983 ft. Recorder Number 5951 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4136 ft. Recorder Number 5584 Cap. 5000 P.S.I.
Below Straddle Recorder Depth ----- ft. Recorder Number ----- Cap. ----- P.S.I.

Mud Type CHEMICAL Viscosity 50 Drill Collar Length ----- ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 6.4 cc. Weight Pipe Length ----- ft. I.D. 2 7/8 in.
Chlorides 1400 P.P.M. Drill Pipe Length 3971 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number #5 J&J Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 144 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{15' PERF(3TOP,12BTM)} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: FAIR BLOW, INC TO B.O.B. IN 18 MINUTES. SURFACE BLOW-BACK.
2nd Open: FAIR BLOW @ 2", INC TO B.O.B. IN 17 MINUTES. BLOW-BACK @ 1".

Recovered ft. of
Recovered ft. of
Recovered 85' ft. of SGC OCM 5% G, 15% O, 80% M
Recovered ----- ft. of 240' G.I.P.

| | |
|--|---------------|
| Recovered <u>-----</u> ft. of <u>TOOL SAMPLE: HOCM, 30% O, 70% M</u> | Price Job |
| Recovered <u> </u> ft. of <u>TEST \$1,225.00</u> | Other Charges |
| Remarks: <u>JARS & SAFETY-JOINT \$325.00</u> | Insurance |
| <u>370 M.R.T \$518.00</u> | |
| <u>TOTAL FOR DST #1 \$2068.00</u> | Total |

Time Set Packer(s) 7:50 AM A.M. Time Started Off Bottom 10:50 AM A.M. Maximum Temperature 121 DEG F
P.M. P.M.

Initial Hydrostatic Pressure..... (A) 1937 P.S.I.
Initial Flow Period..... Minutes 30 (B) 11 P.S.I. to (C) 31 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 221 P.S.I.
Final Flow Period..... Minutes 45 (E) 32 P.S.I. to (F) 46 P.S.I.
Final Closed In Period..... Minutes 60 (G) 192 P.S.I.
Final Hydrostatic Pressure..... (H) 1937 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.



Diamond Testing General Report

**JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977**

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

| | | | |
|----------------------|-------------------|-------------------------|-------------------------------|
| Company Name | LD DRILLING, INC. | Well Name | HARLEY #1-30 |
| Well Operator | LD DRILLING, INC. | Unique Well ID | Sec 30-14s-29w-GOVE COUNTY-KS |
| Contact | LD DAVIS | Surface Location | SEC 30-14s-29w-GOVE Co.-KS |
| Site Contact | KIM SHOEMAKER | Test Unit | FIVE |
| Field | LUNDGREN | Pool | UNSPECIFIED |
| Well Type | Vertical | Job Number | F254 |
| Prepared By | JAKE FAHRENBRUCH | Qualified By | KIM SHOEMAKER |

Test Information

| | | | |
|------------------------|-------------------------------------|------------------------|--------------|
| Test Type | BOTTOM-HOLE W/J&S.J. | Test Purpose | Initial Test |
| Formation | Ft. SCOTT,CHER.,JOHN. / 4145'-4250' | Gauge Name | INSIDE 5951 |
| Start Test Date | 2014/03/04 | Start Test Time | 03:15:00 |
| Final Test Date | 2014/03/04 | Final Test Time | 10:53:00 |

Test Results

FLOWS & SHUT-INS

30 MIN I.F. WEAK 1" BLOW, INCREASED TO 3".
 45 MIN I.S.I. NO BLOW-BACK.
 45 MIN F.F. WEAK 2" BLOW, INCREASED TO 5".
 60 MIN F.S.I. NO BLOW-BACK.

RECOVERED:

20' OSM 2% O, 98% M
 ---- 100' G.I.P.
 ---- TOOL SAMPLE: OCM, 20% O, 98% M
 ---- BOTTOM-HOLE TEMP: 120 F

PRESSURES:

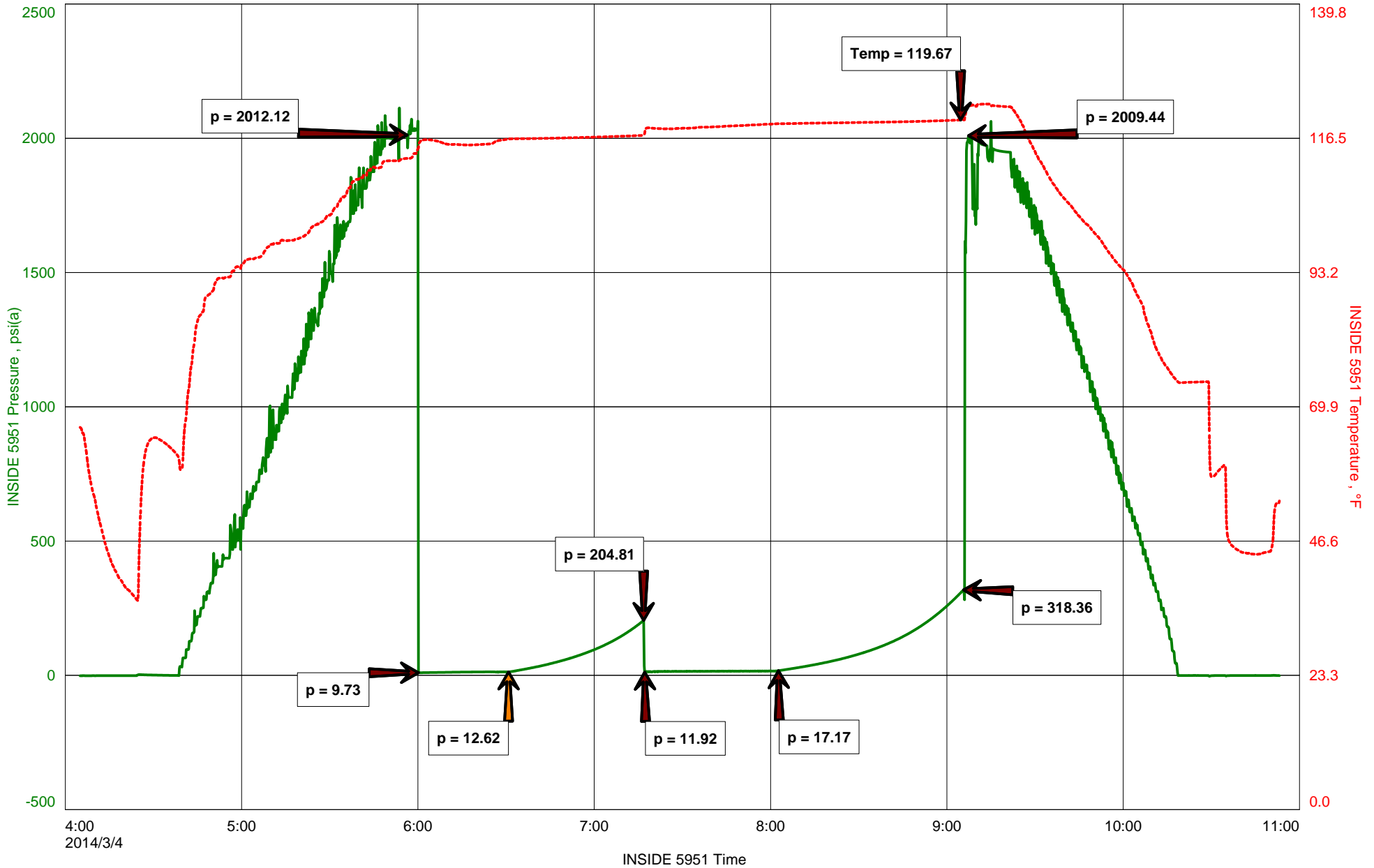
IHP: 2012
 IFP: 10-13
 ISIP: 205
 FFP: 12-17
 FSIP: 318
 FHP: 2009

THANKS!

LD DRILLING, INC.
Sec 30-14s-29w-GOVE COUNTY-KS
Start Test Date: 2014/03/04
Final Test Date: 2014/03/04

HARLEY #1-30
Formation: Ft. SCOTT,CHER.,JOHN. / 4145'-4250'
Pool: UNSPECIFIED
Job Number: F254

HARLEY #1-30





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HARLEY1DST2

TIME ON: 4-Mar 4:05 am
TIME OFF: 4-Mar 10:53 am

Company LD DRILLING, INC. Lease & Well No. HARLEY #1-30
Contractor LD DRILLING, INC. Charge to LD DRILLING, INC.
Elevation 2607' KB Formation Ft. SCOTT, CHER., JOHN. Effective Pay FIELD: LUNDGREN Ft. Ticket No. **F254**
Date 4-Mar-2014 Sec. 30 Twp. 14 S Range 29 W County GOVE State KANSAS
Test Approved By **KIM SHOEMAKER** Diamond Representative **JAKE FAHRENBRUCH**

Formation Test No. TWO Interval Tested from 4,145 ft. to 4,250 ft. Total Depth 4,250 ft.
Packer Depth 4,140 ft. Size 6 3/4 in. Packer depth 0 ft. Size 6 3/4 in.
Packer Depth 4,145 ft. Size 6 3/4 in. Packer depth 0 ft. Size 6 3/4 in.
Depth of Selective Zone Set 0

Top Recorder Depth (Inside) 4,101 ft. Recorder Number 5,951 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4,213 ft. Recorder Number 5,584 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth 0 ft. Recorder Number 0 Cap. 0 P.S.I.

Mud Type CHEMICAL Viscosity 49 sec/qt (1# L.C.M.) Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 6.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 1,200 P.P.M. Drill Pipe Length 4,112 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number #5 J&J Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 105 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: **WEAK 1" BLOW, INCREASED TO 3". NO BLOW-BACK.**
2nd Open: **WEAK 2" BLOW, INCREASED TO 5". NO BLOW-BACK.**

Recovered 20 ft. of OSM 2% O, 98% M
Recovered 0 ft. of 100' G.I.P.
Recovered 0 ft. of TOOL SAMPLE: OCM, 20% O, 80% M
Recovered 0 ft. of _____
Recovered 0 ft. of _____
Recovered 0 ft. of _____

Remarks: _____

| | |
|--------------------------------------|-------------------|
| Price Job | \$1,225.00 |
| JARS, SAFETY JOINT Other Charges | \$325.00 |
| 81 MILES R.T. @ \$ 1.40 Insurance | \$113.40 |
| Total | \$1,663.40 |

Time Set Packer(s) 6:00 AM Time Started Off Bottom 9:00 AM Maximum Temperature 120 F

Initial Hydrostatic Pressure..... (A) 2,012 P.S.I.
Initial Flow Period..... 6:00-6:30 Minutes 30 (B) 10 P.S.I. to (C) 13 P.S.I.
Initial Closed In Period..... 6:30-7:15 Minutes 45 (D) 205 P.S.I.
Final Flow Period..... 7:15-8:00 Minutes 45 (E) 12 P.S.I. to (F) 17 P.S.I.
Final Closed In Period..... 8:00-9:00 Minutes 60 (G) 318 P.S.I.
Final Hydrostatic Pressure..... (H) 2,009 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.



Diamond Testing General Report

**JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977**

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

| | | | |
|----------------------|------------------|-------------------------|----------------------------|
| Company Name | LD DRILLING INC | Well Name | HARLEY #1-30 |
| Well Operator | LD DRILLING INC | Unique Well ID | SEC 30-14S-29W-GOVE CO.-KS |
| Contact | LD DAVIS | Surface Location | SEC 30-14S-29W-GOVE CO.-KS |
| Site Contact | KIM SHOEMAKER | Test Unit | FIVE |
| Field | LUNDGREN | Pool | UNSPECIFIED |
| Well Type | Vertical | Job Number | F255 |
| Prepared By | JAKE FAHRENBRUCH | Qualified By | KIM SHOEMAKER |

Test Information

| | | | |
|------------------------|-------------------|------------------------|--------------|
| Test Type | BOTTOM-HOLE W/J&J | Test Purpose | Initial Test |
| Formation | MISS. SPERGEN | Gauge Name | INSIDE 5951 |
| Start Test Date | 2014/03/04 | Start Test Time | 20:07:00 |
| Final Test Date | 2014/03/05 | Final Test Time | 03:36:00 |

Test Results

| | | |
|--------|--------|--------------------------------------|
| 30 MIN | I.F. | FAIRLY WEAK BLOW, INCREASED TO 5.5". |
| 45 MIN | I.S.I. | NO BLOW-BACK. |
| 45 MIN | F.F. | FAIRLY WEAK BLOW, INCREASED TO 7". |
| 60 MIN | F.S.I. | NO BLOW-BACK. |

RECOVERED:

| | | |
|------|--------------|----------------------------|
| 10' | CLEAN OIL | 100% OIL |
| 40' | OCM | 12% OIL, 88% MUD |
| 20' | SOCM | 4% OIL, 96% MUD |
| ---- | TOOL SAMPLE: | HOCM, 32% OIL, 68% MUD |
| ---- | GRAVITY: | 35 (CORRECTED TO 60 DEG F) |

PRESSURES:

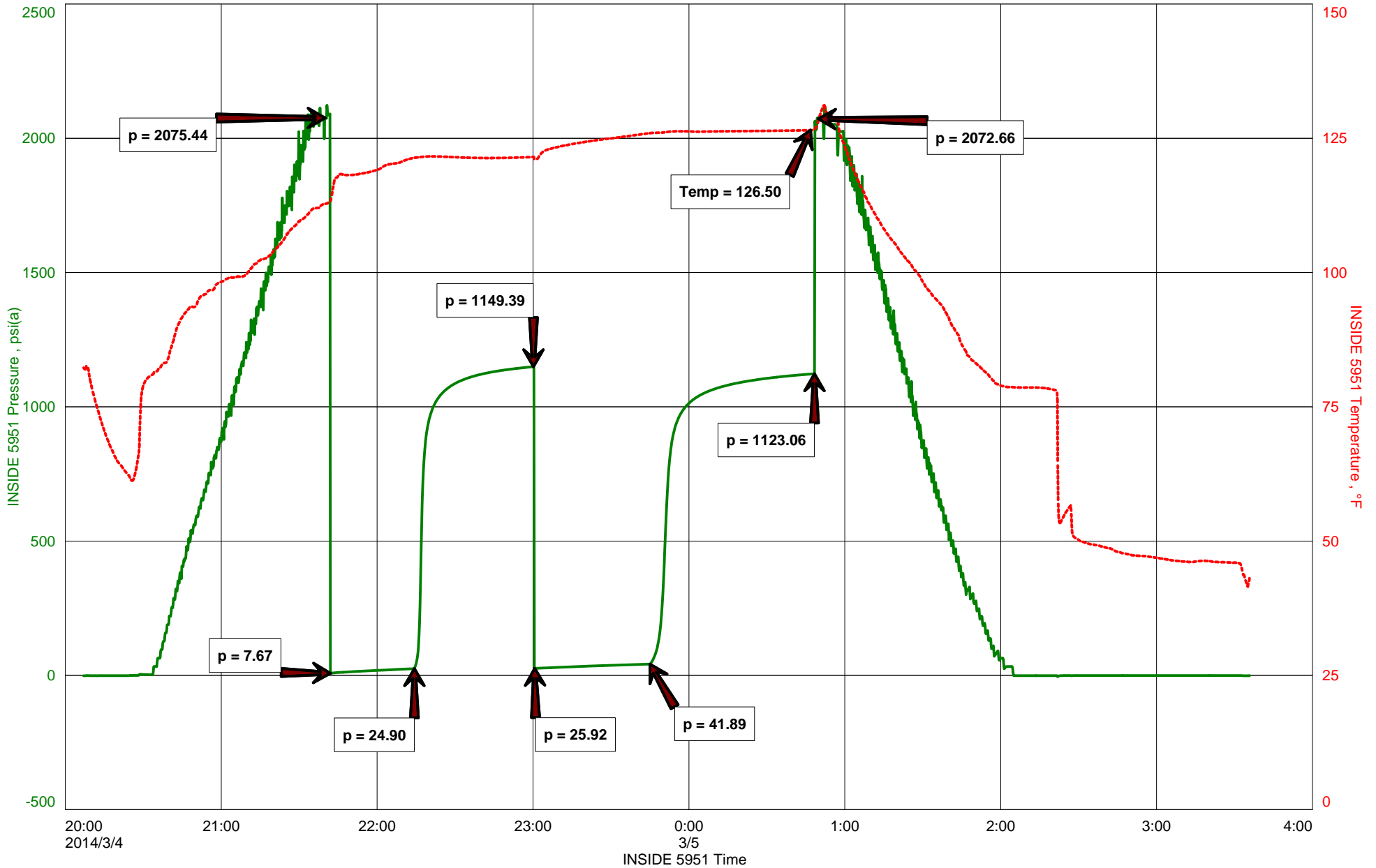
| | |
|-------|-------|
| IHP: | 2075 |
| IFP: | 8-25 |
| ISIP: | 1149 |
| FFP: | 26-42 |
| FSIP: | 1123 |
| FHP: | 2073 |

THANKS!

LD DRILLING INC
SEC 30-14S-29W-GOVE CO.-KS
Start Test Date: 2014/03/04
Final Test Date: 2014/03/05

HARLEY #1-30
Formation: MISS. SPERGEN
Pool: UNSPECIFIED
Job Number: F255

HARLEY #1-30





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313

TIME ON: 4-Mar8:07 pm
 TIME OFF: 4-Mar3:36 am

DRILL-STEM TEST TICKET
 FILE: **HARLEY1DST3**

Company LD DRILLING, INC. Lease & Well No. HARLEY # 1-30
 Contractor LD DRILLING, INC. Charge to LD DRILLING, INC.
 Elevation 2607' KB Formation MISS. SPERGEN Effective Pay FIELD: LUNDGREN Ft. Ticket No. F255
 Date 5-Mar-2014 Sec. 30 Twp. 14 S Range 29 W County GOVE State KANSAS
 Test Approved By KIM SHOEMAKER Diamond Representative JAKE FAHRENBRUCH

Formation Test No. THREE Interval Tested from 4,270 ft. to 4,290 ft. Total Depth 4,290 ft.

Packer Depth 4,265 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 4,270 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4,244 ft. Recorder Number 5,951 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 4,276 ft. Recorder Number 5,584 Cap. 5,000 P.S.I.

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

Mud Type CHEMICAL Viscosity 47 (1# LCM) Drill Collar Length _____ ft. I.D. 2 1/4 in.

Weight 9.3 Water Loss 5.6 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.

Chlorides 1,300 P.P.M. Drill Pipe Length 4,237 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number #5 J&J Test Tool Length 33 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 20 ft. Size 4 1/2-FH in.

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

Blow: 1st Open: FAIRLY WEAK BLOW, INCREASED TO 5.5". NO BLOW-BACK.

2nd Open: FAIRLY WEAK BLOW, INCREASED TO 7". NO BLOW-BACK.

Recovered 10 ft. of CLEAN OIL 100% OIL

Recovered 40 ft. of OIL CUT MUD 12% OIL, 88% MUD

Recovered 20 ft. of SLIGHTLY OIL CUT MUD 4% OIL, 96% MUD

Recovered _____ ft. of TOOL SAMPLE: Hvy Oil Cut Mud, 32% OIL, 68% MUD

Recovered _____ ft. of GRAVITY: 35 (CORRECTED TO 60 DEG F)

Recovered _____ ft. of _____

Remarks: _____

| | |
|--------------------------|-------------------|
| Price Job | \$1,225.00 |
| JARS, SAFETY JOINT | |
| Other Charges | \$325.00 |
| 162 MILES R.T. @ \$ 1.40 | |
| Insurance | \$226.80 |
| Total | \$1,776.80 |

Time Set Packer(s) 9:45 PM Time Started Off Bottom 12:45 AM Maximum Temperature 127 F

Initial Hydrostatic Pressure..... (A) 2,075 P.S.I.

Initial Flow Period..... 9:45-10:15 Minutes 30 (B) 8 P.S.I. to (C) 25 P.S.I.

Initial Closed In Period..... 10:15-11:00 Minutes 45 (D) 1,149 P.S.I.

Final Flow Period..... 11:00-11:45 Minutes 45 (E) 26 P.S.I. to (F) 42 P.S.I.

Final Closed In Period..... 11:45- 12:45 Minutes 60 (G) 1,123 P.S.I.

Final Hydrostatic Pressure..... (H) 2,073 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.

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 * WICHITA, KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

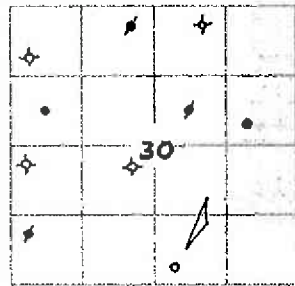
COMPANY L. D. DRILLING, INC.
 LEASE # 1-30 HARLEY
 FIELD LUNDGREN
 LOCATION 330' ESL $\frac{1}{2}$ 2235' FEL
 SEC 30 TWP 14s RGE 29w
 COUNTY GOVE STATE KANSAS
 CONTRACTOR L. D. DRILLING, INC.
 SPUD 2-24-14 COMP 3-6-14
 RTD 4400 LTD 4402
 MUD UP 3417 TYPE MUD CHEMICAL

ELEVATIONS
 KB 2607
 DF _____
 GL 2602
 Measurements Are All
 From 2607 KB

CASING
 SURFACE 8 5/8" @ 347'
 PRODUCTION 5 1/2" @ _____
 ELECTRICAL SURVEYS
 DUAL IND., DENS.-N., MICRO

SAMPLES SAVED FROM 3400 TO 4400
 DRILLING TIME KEPT FROM 3150 TO 4400
 SAMPLES EXAMINED FROM 3400 TO 4400
 GEOLOGICAL SUPERVISION FROM 3500 TO 4400
 GEOLOGIST ON WELL KIM B. SHOEMAKER

| FORMATION TOPS | LOG | SAMPLES |
|----------------------|-----------|-----------|
| ANHYDRITE | 2004+603 | 2007+600 |
| B/ANH. | 2034+573 | 2037+570 |
| STOTLER | 3253-646 | 3253-646 |
| HEEBNER | 3627-1020 | 3628-1021 |
| LANSING | 3669-1062 | 3664-1057 |
| STARK | 3905-1298 | 3906-1299 |
| MARMATON | 3999-1392 | 3995-1388 |
| FORT SCOTT | 4158-1551 | 4156-1549 |
| CHEROKEE | 4182-1575 | 4180-1573 |
| MISSISSIPPI ST LOUIS | 4252-1645 | 4259-1652 |
| MISS. SPERGEN | 4276-1669 | 4276-1669 |



API: 15-063-22163

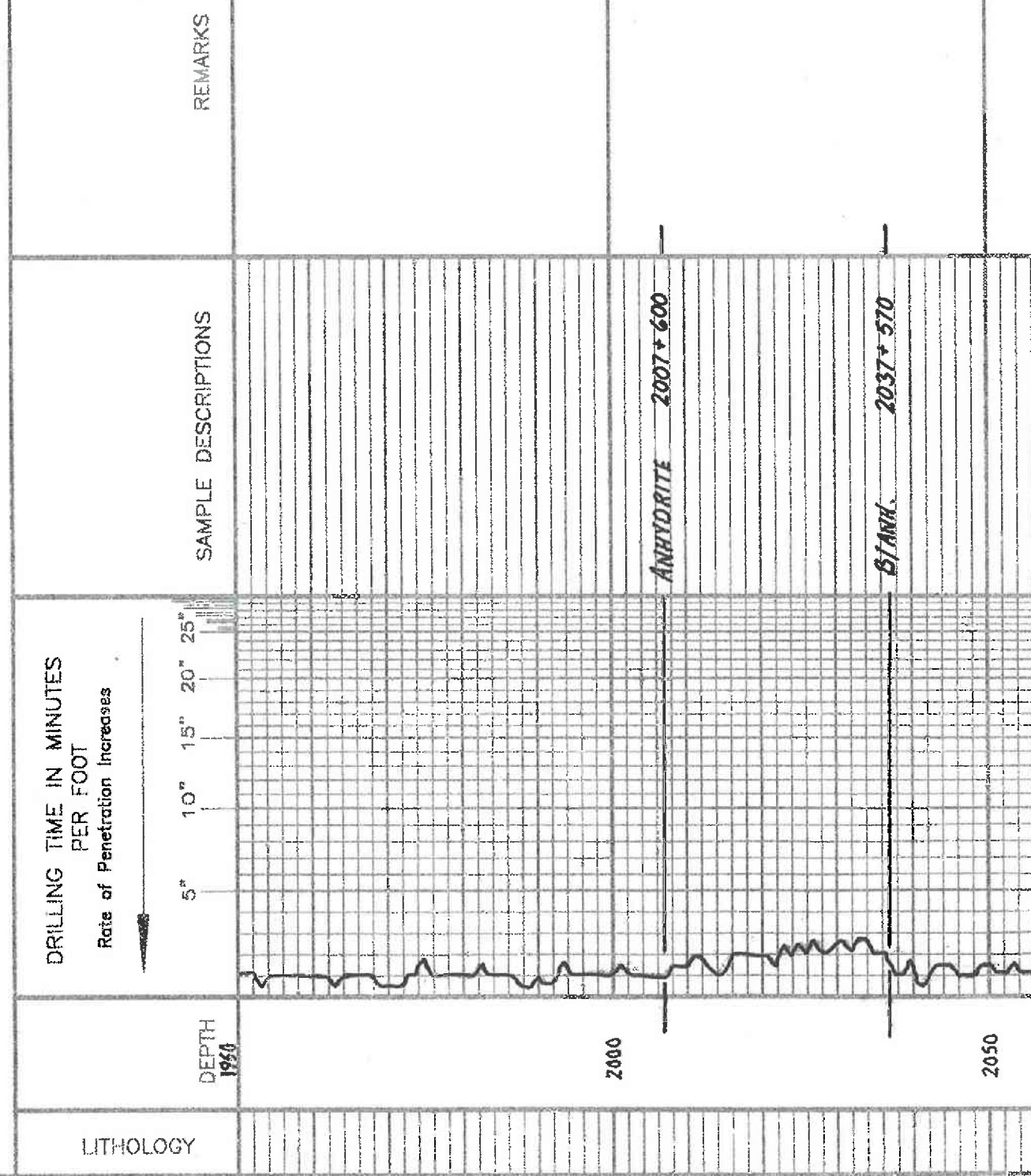
REMARKS

2-24-14 SPUD
 2-25 @ 175'
 2-26 @ 865'
 2-27 @ 2116'
 2-28 @ 2895'
 3-1 @ 3415'
 3-2 @ 3910'
 3-3 @ 4148'
 3-4 @ 4250'
 3-5 @ 4307'
 3-6 @ 4400'

LEGEND

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

SHOEC1-06



3150

3200

3300

3400

STOTLER 3253-616

Samples are bagged

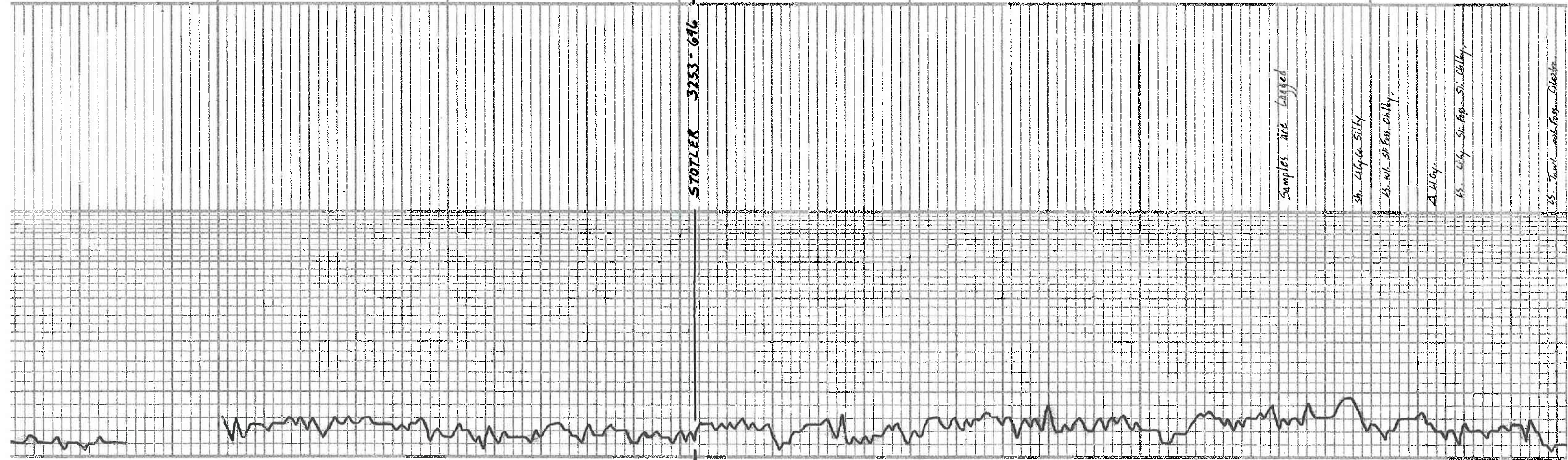
Sh. clay. Silty

Es. wt. sh. fss. clay.

A clay.

Es. clay. Silty fss. clay.

Es. fss. clay. fss. clay.



3500

3600

3700

VIS 51
WTS 8.7
ML 6A
CWC 1400

✓ LANSING

KANSAS CITY

LS. Wt. Chlg.

LS. Wt. SI. Foss. SI. Chlg.

LS. To Alcoa. col. SI. A

SA. Chlg.

LS. Chlg. Dns. VSI. Foss.

SA. Chlg. SA. Chlg.

A. Chlg. Foss.

LS. To Chlg. Foss.

SA. Chlg.

LS. To Chlg. Exch. Svc.

LS. To Chlg. Foss. Exch. Svc.

LS. To Chlg. Exch. Svc.

LS. To Wt. SI. Foss. SI. Chlg.

LS. Wt. SI. Foss. Chlg.

HEEBNER 3628-1021

SA. Chlg. SA. Chlg.

SA. Chlg.

LS. Wt. VSI. Foss. SI. A

SA. Chlg.

LANSING 3661-1057

LS. To Wt. col. SI. A

A. Wt. Chlg.

LS. To Wt. VSI. Foss. VSI. Chlg.

SA. Chlg.

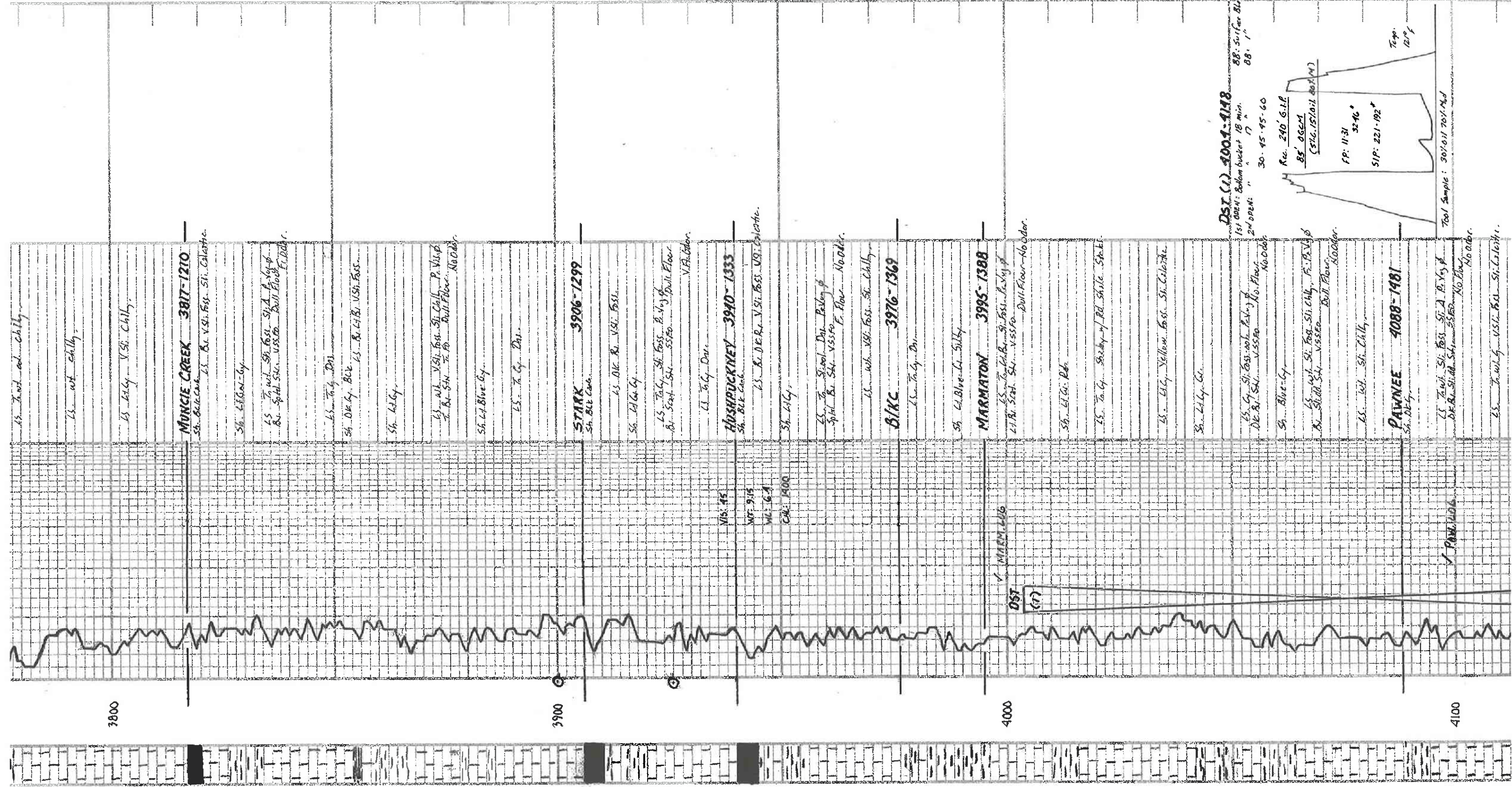
SA. Chlg.

LS. To Chlg. VSI. Foss. SI. A

LS. To Chlg. Dns. VSI. Exch. Svc.

LS. To Wt. SI. Foss. SI. A

LS. To Exch. Svc. LS. To Wt. SI. Foss.



3800

3900

4000

4100

MUNCIE CREEK 3817-1210

sh. blue-gray ls. v. sh. foss. sh. calcitic.
 sh. blue-gray
 ls. w/ sh. foss. sh. calcitic
 sh. blue-gray v. sh. cherty
 ls. w/ sh. foss. sh. calcitic
 sh. blue-gray
 ls. w/ sh. foss. sh. calcitic
 sh. blue-gray
 ls. w/ sh. foss. sh. calcitic

STARK 3906-1299

sh. blue-gray
 ls. w/ sh. foss. sh. calcitic
 sh. blue-gray
 ls. w/ sh. foss. sh. calcitic
 sh. blue-gray
 ls. w/ sh. foss. sh. calcitic
 sh. blue-gray
 ls. w/ sh. foss. sh. calcitic

HUSHPUCKNEY 3940-1333

sh. blue-gray
 ls. w/ sh. foss. sh. calcitic
 sh. blue-gray
 ls. w/ sh. foss. sh. calcitic
 sh. blue-gray
 ls. w/ sh. foss. sh. calcitic

B/KC 3976-1369

sh. blue-gray
 ls. w/ sh. foss. sh. calcitic
 sh. blue-gray
 ls. w/ sh. foss. sh. calcitic

MARMATON 3995-1388

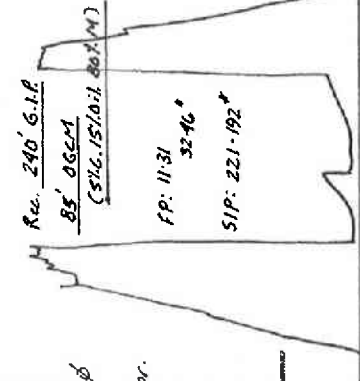
sh. blue-gray
 ls. w/ sh. foss. sh. calcitic
 sh. blue-gray
 ls. w/ sh. foss. sh. calcitic
 sh. blue-gray
 ls. w/ sh. foss. sh. calcitic

PAWNEE 4088-1481

sh. blue-gray
 ls. w/ sh. foss. sh. calcitic
 sh. blue-gray
 ls. w/ sh. foss. sh. calcitic
 sh. blue-gray
 ls. w/ sh. foss. sh. calcitic

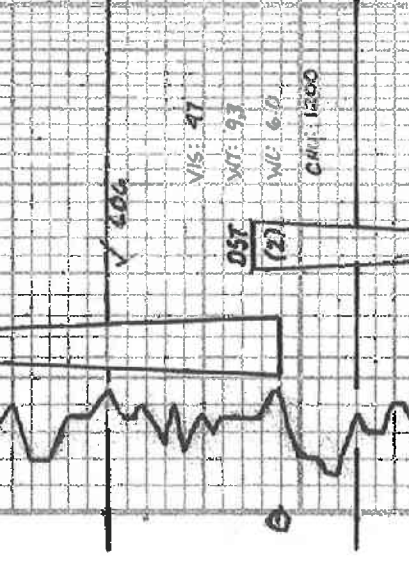
DST (1) 4001-4118

1st open: Bottom bucket 18 min. 88' Surface Blue
 2nd open: " 17 " 88' "



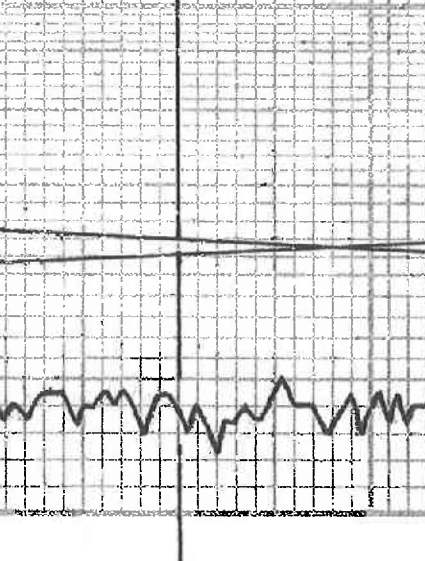
Tool Sample: 30' 01' 70' Mud

Sh. Ark. Carb. ES. DE. H. Dtl.
 Sh. Ltg. G.
MYRICK STATION 4130-1523
 ES. wt. Sh. Foss. Sil. A. P. V. sp.
 To DK. B. S. H. T. Fo. No. E. w. Ho. Odor.
 Ls. T. J. Sil. Foss. P. V. sp.
 Ls. Ltg. Dtl. Ls. B. S. H. V. S. sp. No. Odor.
 Sh. Ark. Carb. Dull Floor.



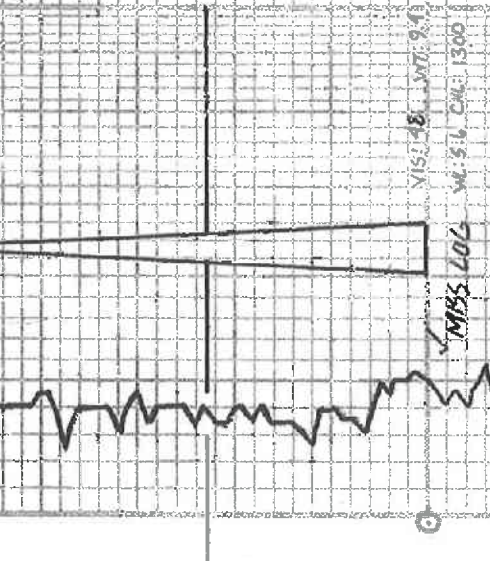
FORT SCOTT 4156-1549
 Ls. Ark. Carb. Sil. Calcitic.
 Ls. Ltg. US. Sil. Foss. Sil. A.

Ls. B. S. H. Sil. Foss. P. V. sp.
 DK. B. S. H. V. S. sp. No. Odor.
CHEROKEE 4180-1573
 Sh. Ark. Carb.
 Ls. T. J. Sil. Foss. P. V. sp.
 Sp. Ark. Carb. V. S. sp. No. Odor.
 Ls. T. J. V. S. sp. No. Odor.
 Ls. B. S. H. V. S. sp. No. Odor.
 Ls. Ltg. Dtl. Dull Floor. V. S. sp.

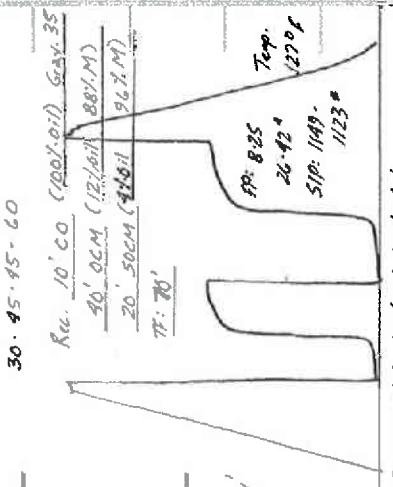
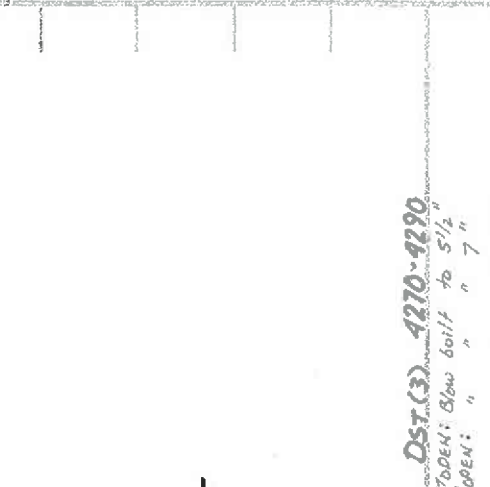
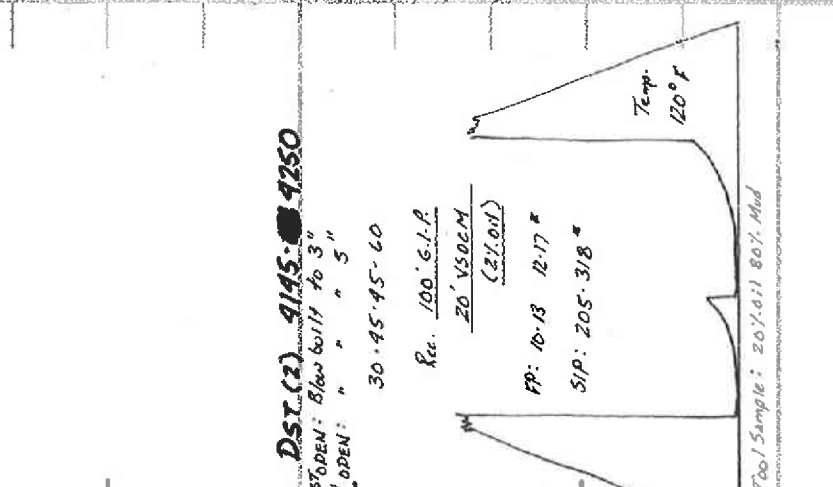


JOHNSON 4227-1620
 Ls. wt. Sil. Foss. Sil. A. P. V. sp.
 B. S. H. V. S. sp. No. Odor.
 Ls. T. J. Dtl. A. Ltg.
 Sh. Co. Blue. Yellow. Suby.

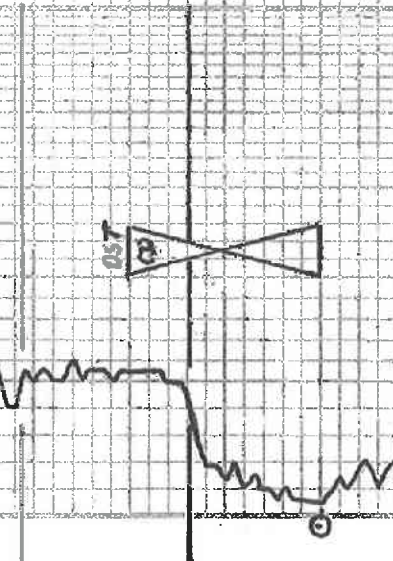
MISSISSIPPI 4259-1652
 Ls. T. J. V. S. sp. No. Odor.
 Ls. B. S. H. V. S. sp. No. Odor.
MISS SPERGEN 4276-1669
 Dol. T. J. B. V. Foss. Sil. A. P. V. sp.
 F. L. V. sp. Ls. B. S. H. V. S. sp.
 F. L. V. sp. Ls. B. S. H. V. S. sp.
 Dol. T. J. B. V. Foss. Sil. A. P. V. sp.
 F. L. V. sp. Ls. B. S. H. V. S. sp.
 Dol. T. J. B. V. Foss. Sil. A. P. V. sp.
 F. L. V. sp. Ls. B. S. H. V. S. sp.



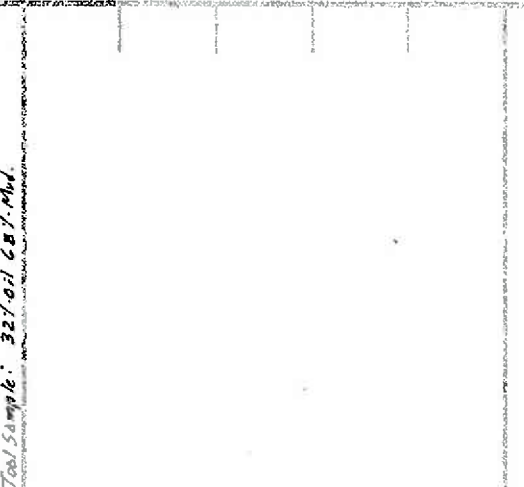
RTD 4400-1593
 Vis: 49
 WT: 94
 ML: 6 P
 CM: 1500



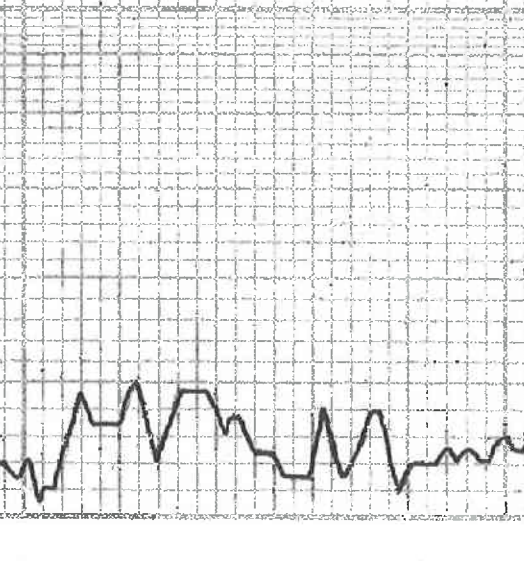
MISSISSIPPI 4259-1652
 Ls. T. J. V. S. sp. No. Odor.
 Ls. B. S. H. V. S. sp. No. Odor.
MISS SPERGEN 4276-1669
 Dol. T. J. B. V. Foss. Sil. A. P. V. sp.
 F. L. V. sp. Ls. B. S. H. V. S. sp.
 F. L. V. sp. Ls. B. S. H. V. S. sp.
 Dol. T. J. B. V. Foss. Sil. A. P. V. sp.
 F. L. V. sp. Ls. B. S. H. V. S. sp.
 Dol. T. J. B. V. Foss. Sil. A. P. V. sp.
 F. L. V. sp. Ls. B. S. H. V. S. sp.



RTD 4400-1593
 Vis: 49
 WT: 94
 ML: 6 P
 CM: 1500



RTD 4400-1593
 Vis: 49
 WT: 94
 ML: 6 P
 CM: 1500



RTD 4400-1593
 Vis: 49
 WT: 94
 ML: 6 P
 CM: 1500



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 10176 A

DATE _____ TICKET NO. _____

| DATE OF JOB <u>3-6-2014</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>LD Drilling, Inc</u> | | LEASE <u>Harley</u> WELL NO. <u>1-30</u> | | | | | | | | |
| ADDRESS | | COUNTY <u>Groves</u> STATE <u>KS</u> | | | | | | | | |
| CITY STATE | | SERVICE CREW <u>KG, DF, Ed, Pst, Jerry</u> | | | | | | | | |
| AUTHORIZED BY | | JOB TYPE: <u>CNW / Long String</u> | | | | | | | | |
| EQUIPMENT# | HRS | EQUIPMENT# | HRS | EQUIPMENT# | HRS | TRUCK CALLED | DATE | AM | PM | TIME |
| <u>21283</u> | <u>2</u> | <u>12083</u> | <u>2</u> | | | | <u>3-5</u> | | | <u>11:00</u> |
| <u>19907</u> | <u>2</u> | <u>21010</u> | <u>2</u> | | | ARRIVED AT JOB | <u>3-6</u> | | | <u>5:00</u> |
| <u>19889</u> | <u>2</u> | | | | | START OPERATION | <u>3-6</u> | | | <u>8:15</u> |
| <u>19843</u> | <u>2</u> | | | | | FINISH OPERATION | <u>3-6</u> | | | <u>10:10</u> |
| <u>19959</u> | <u>2</u> | | | | | RELEASED | <u>3-6</u> | | | <u>11:30</u> |
| <u>73768</u> | <u>2</u> | | | | | MILES FROM STATION TO WELL | | | | <u>172</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: Rubel White
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

| ITEM/PRICE REF. NO. | MATERIAL, EQUIPMENT AND SERVICES USED | UNIT | QUANTITY | UNIT PRICE | \$ AMOUNT |
|---------------------|---------------------------------------|------|----------|------------|-----------|
| CP105 | AA2 Cement | SK | 150 | | 2,550 00 |
| CP101 | A-Con Blend Common | SK | 290 | | 5,220 00 |
| CP103 | 60/40 Poz | SK | 30 | | 360 00 |
| CC102 | Cellulose | lb | 110 | | 407 00 |
| CC105 | C-41P | lb | 36 | | 144 00 |
| CC109 | Calcium Chloride | lb | 815 | | 855 15 |
| CC111 | SS1+ | lb | 740 | | 370 00 |
| CC115 | C-44 | lb | 141 | | 726 15 |
| CC129 | FLA-322 Low Fluid Loss | lb | 141 | | 1,057 50 |
| CC201 | Gilsonite | lb | 750 | | 502 50 |
| CF401 | Two Stage Cement Collar, 5 1/2" (Red) | eg | 1 | | 6,100 00 |
| CF601 | 5 1/2" Latch Down Plug Assembly (Red) | eg | 1 | | 850 00 |
| CF1251 | Auto-Fill Flost Shoe 5 1/2" (Blue) | eg | 1 | | 360 00 |
| CF1651 | Turbolizers 5 1/2 Blue | eg | 8 | | 880 00 |
| CF1901 | 5 1/2" Baskets Blue | eg | 1 | | 250 00 |
| CC154 | Super Floss | gsi | 500 | | 1,225 00 |
| E100 | Unit mileage Charge - pickups | mi | 160 | | 680 00 |
| E10B | Bonus Delivery Charge + mileage | TH | 3150 | | 5,760 00 |

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

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

SERVICE REPRESENTATIVE Darin Franklin THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Rubel White
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

| | | |
|-------------------------------|----------------------|-------------------------------|
| Customer LD Drilling | Lease No. 1-30 | Date 3-6-2014 |
| Lease Hartley | Well # 1-30 | |
| Field Order # 10176 | Station Pratt, KS | Casing 3 1/2" |
| | | Depth 4391' |
| Type Job CNW / Long Spring | Formation TD-4400 | County Cove |
| | | State KS |
| | | Legal Description 30-14-29 |

| PIPE DATA | | PERFORATING DATA | | FLUID USED | | TREATMENT RESUME | | |
|-----------------------|--------------|------------------|----|-----------------|------------|------------------|-------|------------------|
| Casing Size 5 1/2" | Tubing Size | Shots/Ft | | Acid DV-2028 | | RATE | PRESS | ISIP |
| Depth 4391' | 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 4376' | Packer Depth | From | To | Flush | Gas Volume | | | Total Load |

Customer Representative: Rick Wilson Station Manager: Kevin Treater: Darin

| | | | | | | | | | | | |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|
| Service Units | 27263 | 19907 | 19889 | 19843 | 19959 | 73768 | 12083 | 21010 | | | |
| Driver Names | Darin | Kevin | Ed | Ed | Pat | Pat | Jerry | Jerry | | | |

| Time | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate | Service Log |
|--------|-----------------|-----------------|--------------|-------|---|
| 5:00am | | | | | On location - safety meeting |
| | | | | | Run 98 JTS 5 1/2 casing - 4386 |
| | | | | | Run AFV Flow + Shoo, Lgxn Down ^{Back} _{15+ gauge} |
| | | | | | Run Turbolizers 1, 2, 3, 5, 7, 9, 11, 51 |
| | | | | | Run Basket on bottom of Joint S2 |
| | | | | | Run DV Tool on top S2 9x 2028' |
| | | | | | Tqs bottom, Drop ball, break circulation |
| | | | | | LJ 5 1/2 set 9x 4391' |
| | | | | | Bottom stage |
| 8:15pm | 300 | | 5 | 5 1/2 | Pump 5 bbls water spacer |
| | 300 | | 12 | 5 1/2 | mix 12 bbls super flush |
| | 300 | | 5 | 5 1/2 | 5 bbls water spacer |
| | 300 | | 38 | 5 1/2 | Pump 150sr AA 2 cement |
| | | | | | 1% C-15, .25% C-41P, 1% C-44 |
| | | | | | 4 5% Gypsum, 10% SSC, .25# Cellulose |
| | | | | | 5# Gilonite, 15.0 ppg, S92 water Reg. |
| | | | | | 1.43 slurry veil |
| | | | | 3 | Stop / Wash Line clean / Drop plug |
| 8:30pm | 200 | | 60 | 5 1/2 | Start displacement with water |
| | 200 | | 60 | 5 1/2 | Start mud displacement |
| | 600 | | 70 | | Cement + lift pressure |

BASIC

energy services, L.P.

Page #2

TREATMENT REPORT

| | | |
|---------------------------------|--------------------------|-----------------------------------|
| Customer LD Drilling | Lease No. | Date 3-6-2014 |
| Lease Harley | Well # 1-30 | |
| Field Order # 10176 | Station Pratt, KS | Casing 5/2 |
| | | Depth 4391 |
| Type Job CNW/Long Spring | Formation TD-4400 | County Gove |
| | | State KS |
| | | Legal Description 30-14-29 |

| 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 | | |

| AM Time | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate | Service Log |
|---------|-----------------|-----------------|--------------|------|--|
| | 800 | | 90 | 3 | Slow rate |
| 8:50 | 2,000 | | 104 | 0 | Plug Down / Release - |
| | | | | 3 | Plug Rgt Hole 30s x 60:40 |
| | 800 | | 3 | 1/2 | Drop DV open Plug |
| | | | | | Open DV Tool |
| | | | | | TOP STAGE |
| 9:30 | 400 | | 143 | 6 | Pump 290s x B-Com, 390cc, 25# |
| | | | | | Cellofiske, 11.6 ppg, 16.75 water Req. |
| | | | | | 2.77 slurry void |
| | | | | 0 | Stop / Wash line clean / Drop closing plug |
| 10:00 | 400 | | 0 | 6 | Start displacement water |
| 10:10 | 1800 | | 46 | 3 | Plug Down - Close DV Tool |
| | | | | | Circulate 20 bbls cement to pit |
| | | | | | |
| | | | | | |
| 11:15 | | | | | Job Complete - Dgrin & Grey |
| | | | | | Thank you!!! |

| | | | |
|--|-------------------------|--------------------------------------|--------------------|
| Customer <i>L.D. Dely Inc</i> | Lease No. | Date <i>4-4-14</i> | |
| Lease <i>Harley</i> | Well # <i>1-30</i> | | |
| Field Order # <i>99977</i> | Station | Casing <i>5 1/2</i> | Depth |
| Type Job <i>Squeeze Pkts New Well</i> | Formation <i>CHN</i> | County <i>Gove</i> | State <i>KS</i> |
| | | Legal Description <i>30-14-27</i> | |

| PIPE DATA | | PERFORATING DATA | | FLUID USED | | TREATMENT RESUME | | |
|--------------------------|----------------------------|---------------------|-----------------|-----------------------|------------|------------------|------------------|--|
| Casing Size | Tubing Size | Shots/Ft | | Acid | RATE | PRESS | ISIP | |
| <i>5 1/2</i> | <i>2 3/8</i> | | | Pre Pad | Max | <i>2500</i> | 5 Min. | |
| Depth <i>4367</i> | Depth <i>4200</i> | From <i>4278</i> | To <i>38</i> | Pad <i>175 sks</i> | Min | | 10 Min. | |
| Volume <i>1750</i> | Volume <i>162</i> | From | To | Frac | Avg | | 15 Min. | |
| Max Press <i>2500</i> | Max Press <i>2500</i> | From | To | | HHP Used | | Annulus Pressure | |
| Well Connection | Annulus Vol. <i>300</i> | From | To | Flush | Gas Volume | | Total Load | |
| Plug Depth | Packer Depth | From | To | | | | | |

| | | |
|--|-------------------------------------|-------------------------|
| Customer Representative <i>Take</i> | Station Manager <i>K Goodley</i> | Treater <i>Sealy</i> |
|--|-------------------------------------|-------------------------|

| | | | | | | | | |
|------------------------------|--------------|---------------|--------------|---------------|--|--|--|--|
| Service Units <i>Van</i> | <i>17728</i> | <i>19005</i> | <i>15226</i> | <i>11541</i> | | | | |
| Driver Names <i>Sealy</i> | <i>M.K.</i> | <i>M'Graw</i> | <i>Trish</i> | <i>Hansen</i> | | | | |

| Time | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate | Service Log |
|-------------|-----------------|-----------------|---------------|------------|--|
| <i>0700</i> | | | | | <i>Called Out</i> |
| <i>1115</i> | | | | | <i>Onloc w/Trks Safety metg</i> |
| <i>1150</i> | | <i>2500</i> | <i>6</i> | | <i>Set PKR @ 4300' ps. test the hold</i> |
| <i>1207</i> | <i>500</i> | | <i>25</i> | <i>2</i> | <i>PKR @ 4200' ps. Annulus Hold</i> |
| <i>1215</i> | | <i>500</i> | <i>10</i> | <i>3</i> | <i>Take Inj Rate</i> |
| <i>1220</i> | | <i>400</i> | <i>36.7</i> | <i>3</i> | <i>Mix Out 175 sks</i> |
| <i>1229</i> | | | <i>10</i> | <i>4</i> | <i>Close In + Wash Pump + line</i> |
| <i>1230</i> | | <i>0</i> | | <i>1</i> | <i>SI Disp</i> |
| <i>1232</i> | | <i>400</i> | | <i>1</i> | <i>2 Bbls Out</i> |
| <i>1237</i> | | <i>1000</i> | | <i>1</i> | <i>3 Bbls Out</i> |
| <i>1255</i> | | <i>1100</i> | <i>14</i> | <i>1/2</i> | <i>14 Bbls Out Shut Down + Stage</i> |
| <i>1300</i> | | <i>2500</i> | <i>14 1/4</i> | <i>0</i> | <i>max ps.</i> |
| <i>1302</i> | | <i>0</i> | | | <i>Release psi Held</i> |
| <i>1305</i> | <i>400</i> | | <i>20</i> | <i>2</i> | <i>Unset PKR + Reverse Out</i> |
| <i>1340</i> | <i>400</i> | | <i>56</i> | <i>2</i> | <i>Wash Thru Squeeze</i> |
| <i>1415</i> | | <i>500</i> | | | <i>PSI + n Squeeze Held</i> |
| | | | | | <i>T.O.H. w/Tbg</i> |
| | | | | | <i>Job Complete</i> |
| | | | | | <i>Thank you</i> |
| | | | | | <i>Sealy</i> |

BASIC

energy services, L.P.

TREATMENT REPORT

| | | | | | |
|---------------|-----------------|--------|-----------|-------------------|-------|
| Customer | LD DRILLING INC | | Lease No | Date | |
| Lease | HARLEY | | Well # | 2-25-14 | |
| Field Order # | Station | Casing | Depth | County | State |
| 1808 | PRATT, KS | 8 7/8 | 347 | COVE | KS |
| Type Job | CWW - SURFACE | | Formation | Legal Description | |
| | | | TD-350' | 30-14-29 | |

| PIPE DATA | | PERFORATING DATA | | FLUID USED | TREATMENT RESUME | | |
|-----------------|--------------|------------------|----|------------|------------------|-------|------------------|
| Casing Size | Tubing Size | Shots/Ft | | Acid | RATE | PRESS | ISIP |
| 8 7/8 | | | | Pre Pad | Max | | 5 Min. |
| Depth | Depth | From | To | Pad | Min | | 10 Min. |
| 347 | | | | Frac | Avg | | 15 Min. |
| Volume | Volume | From | To | | HHP Used | | Annulus Pressure |
| Max Press | Max Press | From | To | Flush | Gas Volume | | Total Load |
| Well Connection | Annulus Vol. | From | To | | | | |
| Plug Depth | Packer Depth | From | To | | | | |

| | | | | | | | | |
|-------------------------|-------|-------------|-----------------|-------------|--|---------|---------|--|
| Customer Representative | Rick | | Station Manager | KEVIN | | Treater | CAROLEY | |
| Service Units | 19907 | 19889-19843 | | 19831-19862 | | | | |
| Driver Names | KG | ED | | DALE | | | | |

| Time | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate | Service Log |
|------|-----------------|-----------------|--------------|------|-------------------------------|
| 0630 | | | | | ON LOCATION |
| | | | | | RUN 339' 8 7/8 OSG - 8 JTS |
| | | | | | SET 8 7/8 ITS 347 W/ LAND JTS |
| | | | | | BREAK CIRCULATION |
| 1115 | | | 50 | 6 | MIX 235 SL CEMENT |
| | | | | | 2% CC, 1/4 # SL CELLFIBRE |
| | | | 0 | 6 | START DISP. W/ H2O |
| 1145 | | | 20 | 6 | FINISH DISP. |
| | | | | | SHUT IN SWEDGE & VALVE |
| | | | | | CIRC. 7 bbl. CEMENT TO SET |
| 1230 | | | | | JOB COMPLETE - KEVIN |