



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1185886  
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: \_\_\_\_\_

1185886

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)* \_\_\_\_\_

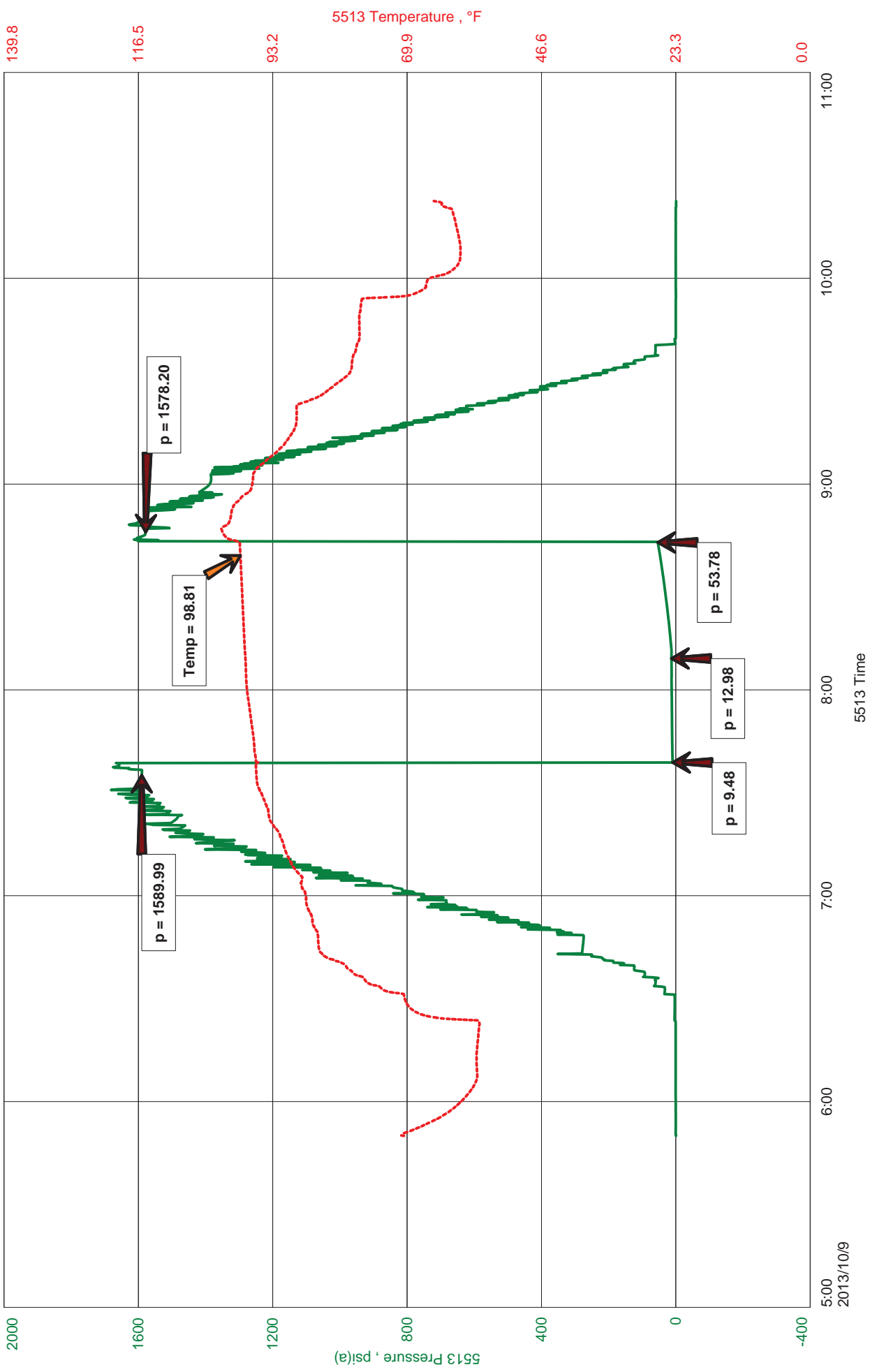
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
--	--	---

L D Drilling, Inc  
DST #1 Lansing A-F 3280-3355  
Start Test Date: 2013/10/09  
Final Test Date: 2013/10/09

Sheila #1-23  
Formation: Lansing A-F  
Pool: Wildcat  
Job Number: K041

# Sheila #1-23





**JASON MCLEMORE**

**CELL # 620-6170527**

**General Information**

<b>Company Name</b>	L D Drilling, Inc	<b>L D Davis</b>	<b>Job Number</b>	K041
<b>Contact</b>		<b>Sheila #1-23</b>	<b>Representative</b>	Jason McLemore
<b>Well Name</b>		<b>DST #1 Lansing A-F 3280-3355</b>	<b>Well Operator</b>	L D Drilling
<b>Unique Well ID</b>		<b>23-20s-14w-Barton</b>	<b>Prepared By</b>	Jason McLemore
<b>Surface Location</b>		<b>Wildcat</b>	<b>Qualified By</b>	Kim Shoemaker
<b>Field</b>		<b>Vertical</b>	<b>Test Unit</b>	#7
<b>Well Type</b>				

**Test Information**

<b>Test Type</b>	Drill Stem Test	<b>Representative</b>	Jason McLemore
<b>Formation</b>	Lansing A-F	<b>Well Operator</b>	L D Drilling
<b>Well Fluid Type</b>	01 Oil	<b>Report Date</b>	2013/10/09
<b>Test Purpose (AEUB)</b>	Initial Test	<b>Prepared By</b>	Jason McLemore

<b>Start Test Date</b>	2013/10/09	<b>Start Test Time</b>	05:50:00
<b>Final Test Date</b>	2013/10/09	<b>Final Test Time</b>	10:24:00

**Test Results**

**RECOVERED:**

5      Drilling Mud  
5      Total Fluid

**Tool Sample: Drilling Mud**



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: sheila1dst1

TIME ON: 5:50 AM  
TIME OFF: 10:24 AM

Company L D Drilling Inc Lease & Well No. Sheila #1-23  
Contractor Petromark #2 Charge to L D Drilling Inc  
Elevation KB 1886 Formation Lansing A-F Effective Pay \_\_\_\_\_ Ft. Ticket No. K041  
Date 10-09-13 Sec. 23 Twp. \_\_\_\_\_ 20s S Range 14w-Barton W County Barton State KANSAS  
Test Approved By Kim Shoemaker Diamond Representative Jason McLemore

Formation Test No. 1 Interval Tested from 3280 ft. to 3355 ft. Total Depth 3355 ft.  
Packer Depth 3275 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 3280 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3265 ft. Recorder Number 5513 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 3352 ft. Recorder Number 13338 Cap. 4950 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type Chemical Viscosity 59 Drill Collar Length 120 ft. I.D. 2 1/4 in.  
Weight 9.4 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 5000 P.P.M. Drill Pipe Length 3132 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number S Test Tool Length 28 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out No Anchor Length 75 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 63' DP in Anchor Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Very Weak Intermittent Surface Blow, No Blowback  
2nd Open: Pull Tool

Recovered 5 ft. of Drilling Mud  
Recovered 5 ft. of Total Fluid  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of <u>Tool Sample: Drilling Mud</u>	Other Charges
Remarks: _____	Insurance
_____	Total

Time Set Packer(s) 7:40 AM A.M. P.M. Time Started Off Bottom 8:40 AM A.M. P.M. Maximum Temperature 99

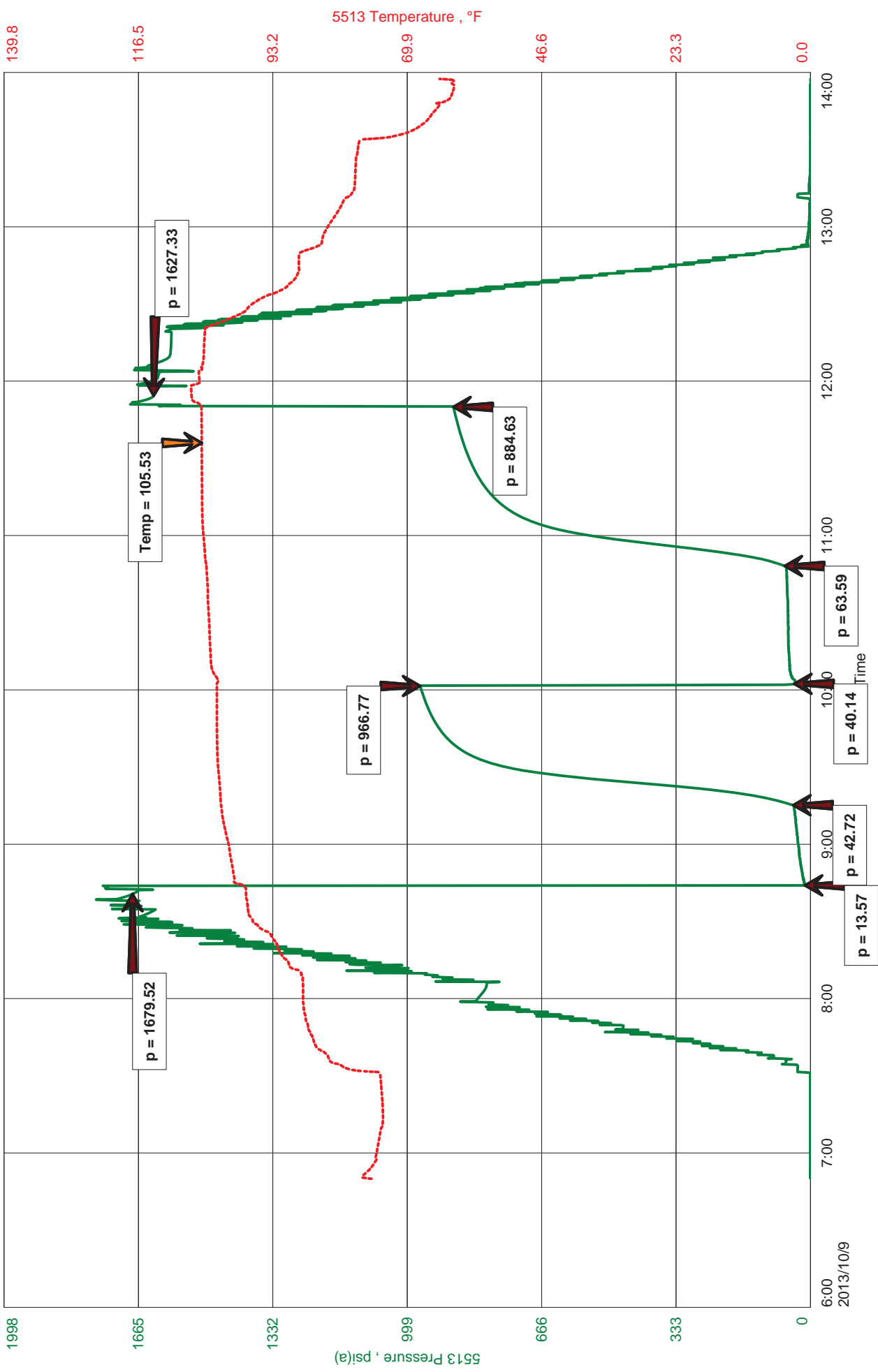
Initial Hydrostatic Pressure..... (A) 1590 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 9 P.S.I. to (C) 13 P.S.I.  
Initial Closed In Period..... Minutes 30 (D) 54 P.S.I.  
Final Flow Period..... Minutes 0 (E) \_\_\_\_\_ P.S.I. to (F) \_\_\_\_\_ P.S.I.  
Final Closed In Period..... Minutes 0 (G) \_\_\_\_\_ P.S.I.  
Final Hydrostatic Pressure..... (H) 1578 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.

L D Drilling, Inc  
DST #2 LKC H-I 3390-3425  
Start Test Date: 2013/10/09  
Final Test Date: 2013/10/10

Sheila #1-23  
Formation: LKC H-I  
Pool: Wildcat  
Job Number: K042

# Sheila #1-23





**JASON MCLEMORE**

**CELL # 620-6170527**

**General Information**

<b>Company Name</b>	L D Drilling, Inc	<b>Job Number</b>	K042
<b>Contact</b>		<b>Representative</b>	Jason McLemore
<b>Well Name</b>	Sheila #1-23	<b>Well Operator</b>	L D Drilling, Inc
<b>Unique Well ID</b>	DST #2 LKC H-I 3390-3425	<b>Prepared By</b>	Jason McLemore
<b>Surface Location</b>	23-20s-14w-Barton	<b>Qualified By</b>	Kim Shoemaker
<b>Field</b>	Liberty	<b>Test Unit</b>	#7
<b>Well Type</b>	Vertical		

**Test Information**

<b>Test Type</b>	Drill Stem Test	<b>Representative</b>	Jason McLemore
<b>Formation</b>	LKC H-I	<b>Well Operator</b>	L D Drilling, Inc
<b>Well Fluid Type</b>	01 Oil	<b>Report Date</b>	2013/10/10
<b>Test Purpose (AEUB)</b>	Initial Test	<b>Prepared By</b>	Jason McLemore
<b>Start Test Date</b>	2013/10/09	<b>Start Test Time</b>	18:50:00
<b>Final Test Date</b>	2013/10/10	<b>Final Test Time</b>	01:58:00

**Test Results**

**RECOVERED:**

100 OCM, 4%O, 96%M  
 35 Frothy Muddy Oil, 20%G, 40%O, 40%M  
 135 Total Fluid

1245' Gas In Pipe

Tool Sample: Muddy Oil, 75%O, 25% M





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: sheila1dst2

TIME ON: 6:50 PM  
TIME OFF: 1:58 AM

Company L D Drilling Inc Lease & Well No. Sheila #1-23  
Contractor Petromark #2 Charge to L D Drilling Inc  
Elevation KB 1886 Formation LKC H-I Effective Pay \_\_\_\_\_ Ft. Ticket No. K042  
Date 10-09-13 Sec. 23 Twp. \_\_\_\_\_ 20s S Range 14w-Barton W County Barton State KANSAS  
Test Approved By Kim Shoemaker Diamond Representative Jason McLemore

Formation Test No. 2 Interval Tested from 3390 ft. to 3425 ft. Total Depth 3425 ft.  
Packer Depth 3385 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 3390 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3375 ft. Recorder Number 5513 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 3422 ft. Recorder Number 13338 Cap. 4950 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type Chemical Viscosity 59 Drill Collar Length 120 ft. I.D. 2 1/4 in.  
Weight 9.4 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 5000 P.P.M. Drill Pipe Length 3242 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number S Test Tool Length 28 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out No Anchor Length 35 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: Good Blow, BOB in 7 Min., No Blowback  
2nd Open: Good Blow, BOB in 3 Min., No Blowback

Recovered 100 ft. of OCM 4%M, 96%O  
Recovered 35 ft. of Frothy Muddy Oil 20%G, 40%O, 40%M  
Recovered 135 ft. of Total Fluid

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of <u>1245' Gas In Pipe</u>	Other Charges
Recovered _____ ft. of _____	Insurance
Remarks: <u>Tool Sample: Muddy Oil, 75%O, 25%M</u>	Total

Time Set Packer(s) 8:45 PM A.M. P.M. Time Started Off Bottom 11:45 PM A.M. P.M. Maximum Temperature 106

Initial Hydrostatic Pressure..... (A) 1679 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 14 P.S.I. to (C) 43 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 967 P.S.I.  
Final Flow Period..... Minutes 45 (E) 40 P.S.I. to (F) 64 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 885 P.S.I.  
Final Hydrostatic Pressure..... (H) 1627 P.S.I.

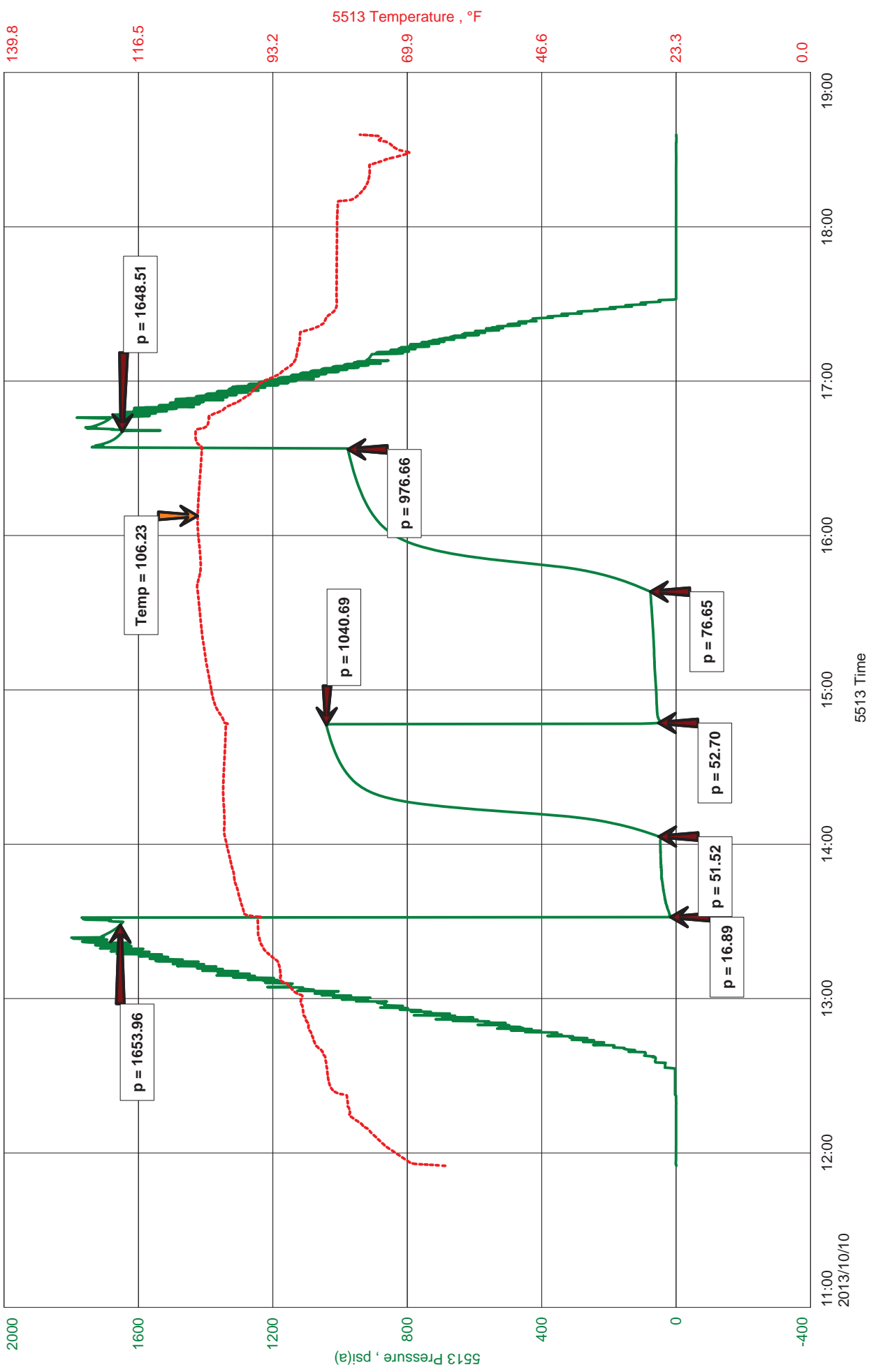
Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



L D Drilling, Inc  
DST #3 LKC J-K 3420-3495  
Start Test Date: 2013/10/10  
Final Test Date: 2013/10/10

Sheila #1-23  
Formation: LKC J-K  
Pool: wildcat  
Job Number: K043

# Sheila #1-23





**JASON MCLEMORE**

**CELL # 620-6170527**

**General Information**

<b>Company Name</b>	L D Drilling, Inc	<b>L D Davis</b>	<b>Job Number</b>	K043
<b>Contact</b>		<b>Sheila #1-23</b>	<b>Representative</b>	Jason McLemore
<b>Well Name</b>		<b>DST #3 LKC J-K 3420-3495</b>	<b>Well Operator</b>	L D Drilling, Inc.
<b>Unique Well ID</b>		<b>23-20s-14w-Barton</b>	<b>Prepared By</b>	Jason McLemore
<b>Surface Location</b>		<b>Liberty</b>	<b>Qualified By</b>	Kim Shoemaker
<b>Field</b>		<b>Vertical</b>	<b>Test Unit</b>	#7
<b>Well Type</b>				

**Test Information**

<b>Test Type</b>	Drill Stem Test	<b>Representative</b>	Jason McLemore
<b>Formation</b>	LKC J-K	<b>Well Operator</b>	L D Drilling, Inc.
<b>Well Fluid Type</b>	01 Oil	<b>Report Date</b>	2013/10/10
<b>Test Purpose (AEUB)</b>	Initial Test	<b>Prepared By</b>	Jason McLemore
<b>Start Test Date</b>	2013/10/10	<b>Start Test Time</b>	11:12:00
<b>Final Test Date</b>	2013/10/10	<b>Final Test Time</b>	17:53:00

**Test Results**

**RECOVERED:**

180 Gassy Oil, 30%G, 70%O  
15 Frothy Muddy Oil, 30%G, 50%O, 20%M  
195 Total Fluid

**1605' Gas In Pipe**

**Oil Gravity: 28**



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: sheila1dst3

TIME ON: 11:12 AM  
TIME OFF: 17:53 PM

Company L D Drilling Inc Lease & Well No. Sheila #1-23  
Contractor Petromark #2 Charge to L D Drilling Inc  
Elevation KB 1886 Formation LKC J-K Effective Pay \_\_\_\_\_ Ft. Ticket No. K043  
Date 10-10-13 Sec. 23 Twp. \_\_\_\_\_ 20s S Range 14w-Barton W County Barton State KANSAS  
Test Approved By Kim Shoemaker Diamond Representative Jason McLemore

Formation Test No. 3 Interval Tested from 3420 ft. to 3495 ft. Total Depth 3495 ft.  
Packer Depth 3415 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 3420 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3405 ft. Recorder Number 5513 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 3492 ft. Recorder Number 13338 Cap. 4950 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type Chemical Viscosity 58 Drill Collar Length 120 ft. I.D. 2 1/4 in.  
Weight 9.2 Water Loss 9.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 7000 P.P.M. Drill Pipe Length 3272 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number S Test Tool Length 28 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out No Anchor Length 75 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 63' DP in Anchor Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Good Blow, BOB in 7 Min., Blowback Built to 3"  
2nd Open: Strong Blow, BOB in 20 Seconds, Blowback Built to 8"

Recovered 180 ft. of Gassy Oil, 30%G, 70%O  
Recovered 15 ft. of Frothy Muddy Oil 30%G, 50%O, 20%M  
Recovered 195 ft. of Total Fluid

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of <u>1605' Gas In Pipe</u>	Other Charges
Recovered _____ ft. of <u>Gravity: 28</u>	Insurance
Remarks: <u>Tool Sample: Oil</u>	Total

Time Set Packer(s) 12:49 PM A.M. P.M. Time Started Off Bottom 15:49 PM A.M. P.M. Maximum Temperature 106

Initial Hydrostatic Pressure..... (A) 1654 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 17 P.S.I. to (C) 52 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 1041 P.S.I.  
Final Flow Period..... Minutes 45 (E) 53 P.S.I. to (F) 77 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 977 P.S.I.  
Final Hydrostatic Pressure..... (H) 1649 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 <u>L. D. DRILLING, INC.</u>	ELEVATIONS
LEASE <u># 1-23 SHEILA</u>	KB <u>1891</u>
FIELD <u>WILDCAT</u>	DF _____
LOCATION <u>1372' FNL ; 316' FWL</u>	GL <u>1886</u>
SEC <u>23</u> TWSP <u>20S</u> RGE <u>14W</u>	Measurements Are All From <u>1891 KB</u>
COUNTY <u>BARTON</u> STATE <u>KANSAS</u>	
CONTRACTOR <u>PETROMARK DRILLING RIG 2</u>	CASING
SPUD <u>10-5-03 COMP 10-11-13</u>	SURFACE <u>8 5/8" @ 851'</u>
RTD <u>3691</u> LTD <u>3694</u>	PRODUCTION <u>4 1/2" @</u>
MUD UP <u>2841</u> TYPE MUD <u>CHEMICAL</u>	ELECTRICAL SURVEYS
	DUAL IND., DENS.-N., MICRO

SAMPLES SAVED FROM 3000 TO 3691

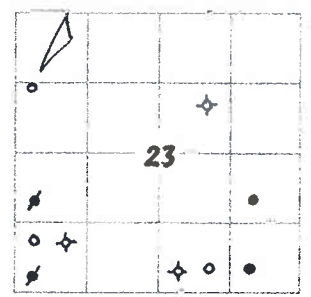
DRILLING TIME KEPT FROM 2700 TO 3691

SAMPLES EXAMINED FROM 3000 TO 3691

GEOLOGICAL SUPERVISION FROM 3200 TO 3639

GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	815+1076	809+1082
TOPEKA	2819-928	2819-928
HEEBNER	3162-1271	3160-1269
BROWN LIME	3266-1375	3265-1374
LANSING	3275-1384	3276-1385
B/KC	3490-1599	3489-1598
ARBUCKLE	3624-1733	3620-1729



REMARKS

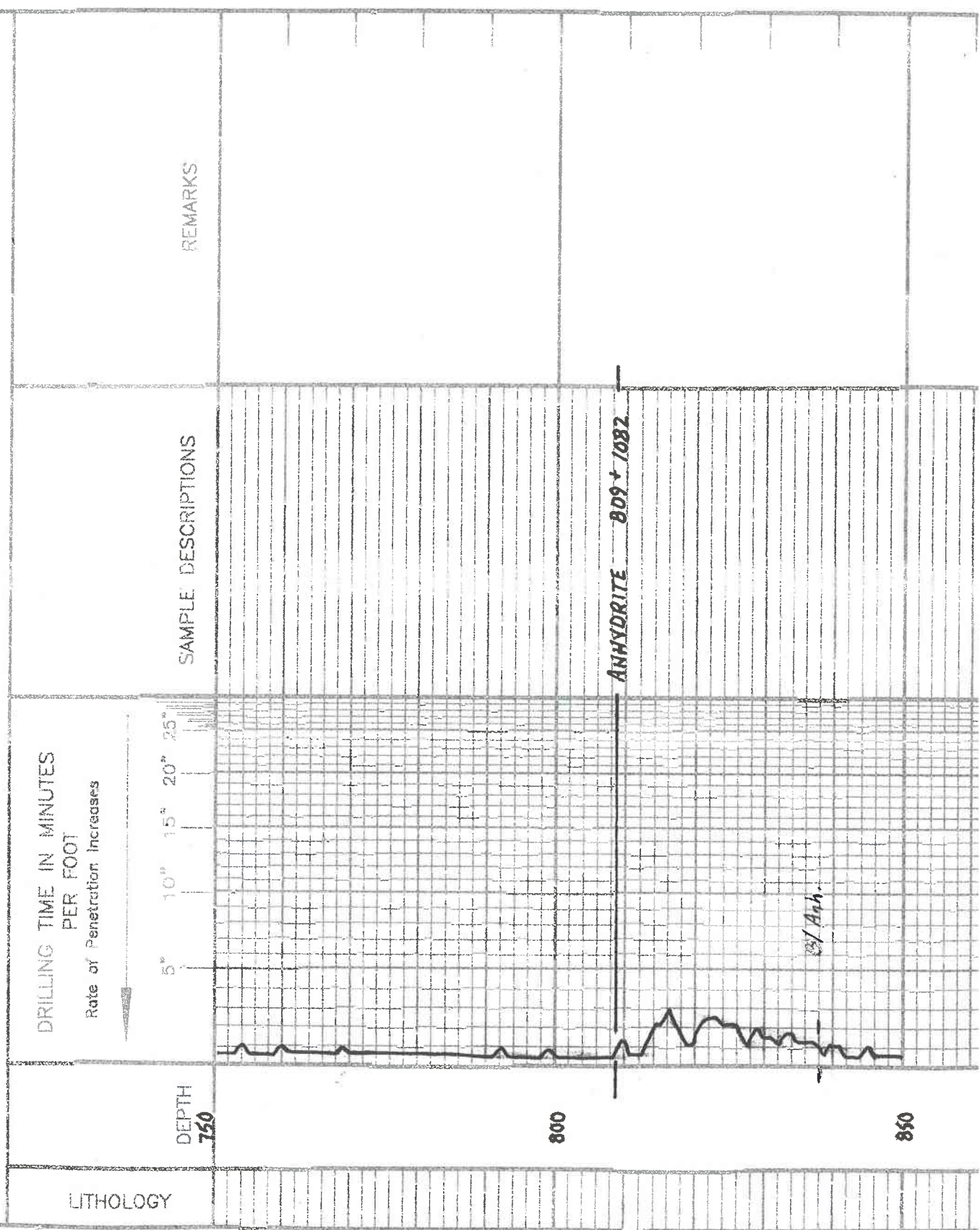
10-5-13 SPUD  
 10-6 @ 856'  
 10-7 @ 1830'  
 10-8 @ 2841'  
 10-9 @ 3355'  
 10-10 @ 3468'  
 10-11 @ 3691'

APL 15-009-25885

### LEGEND

- Anhydrite
- Salt
- Sandstone
- Shale
- Carb sh
- Limestone
- Coil Lime
- Chert
- Dolomite

SHOE01-06





2700

2800

2900

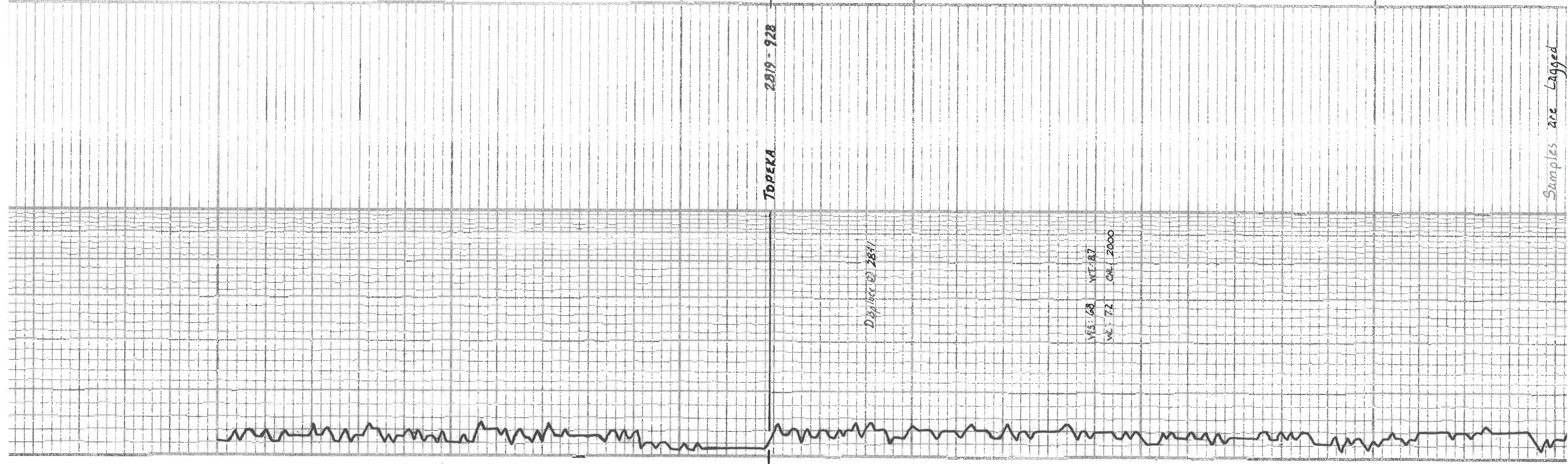
TOPEKA 2819 - 928

Displaced @ 2831'

WLS: 68 MT: 87

WL: 72 CAL: 2000

Samples are Lagged













Pol. Ta Gy. M&Xln

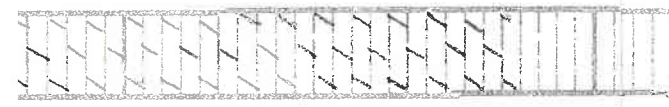
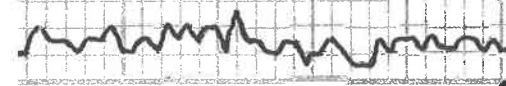
A. wt.

Pol. Ta wt M&Xln

Pol. Ta wt M&Xln

RTD 36.91/1800

3700





**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET  
1718 09077 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB <b>10-11-13</b> DISTRICT <b>PRATT KS</b>		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 <b>L.O. Drilling</b>		LEASE <b>Sheila</b>		1-23 WELL NO.					
ADDRESS		COUNTY <b>BARTON</b>		STATE <b>KS</b>					
CITY STATE		SERVICE CREW <b>Sullivan, Gary, Phye</b>							
AUTHORIZED BY		JOB TYPE: <b>ONW Longstay</b>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED <b>10-11-13</b>	DATE	AM	TIME
<b>19889-19843</b>	<b>35</b>							<b>PM</b>	<b>1:30</b>
<b>10959-19918</b>	<b>35</b>					ARRIVED AT JOB		<b>AM</b>	<b>4:15</b>
<b>37900</b>						START OPERATION		<b>AM</b>	<b>6:50</b>
						FINISH OPERATION		<b>AM</b>	<b>7:20</b>
						RELEASED		<b>AM</b>	<b>8:00</b>
						MILES FROM STATION TO WELL			<b>50</b>

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: *[Signature]*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 100 c	Common cmt	SK	150		2400 00
CP 100 c	Common	SK	30		480 00
CC 105	C-41 NeoAmen	lb	43		172 00
CC 111	SALT	lb	1465		732 50
CC 112	CMT Friction Redan	lb	128		768 00
CC 113	Gypsum	lb	850		637 50
CC 201	gypsum	lb	900		603 00
CF 102	1/2" Rubber Plug 4 1/2	SA	1		80 00
CF 250	Joint Shoe	SA	1		225 00
CF 1450	Flapper Insert Head	SA	1		200 00
CF 1650	Tambol	SA	1		510 00
CC 155	Super Fluid	ML	500		765 00
E 100	nutco rd	ml	50		233 75
E 101	Heavy Grit	ml	110		770 00
E 113	Beak Nubing	TM	468		748 00
CE 204	Depth Charge	SA	1		2,160 00
CE 240	Blender - chit	SK	180		252 00
CE 504	Plus Container Rental	SA	1		250 00
S 003	Solvent Saponifier	SA	1		175 00

SUB TOTAL **9,121.31**

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		<i>Thank you</i>

SERVICE REPRESENTATIVE *Robert [Signature]*  
FIELD SERVICE ORDER NO. \_\_\_\_\_

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *[Signature]*  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Customer <i>L.O. Drilling</i>	Lease No.	Date <i>10-11-13</i>	
Lease <i>Sheila</i>	Well # <i>1-23</i>		
Field Order # <i>9077</i>	Station <i>PRATT KS</i>	Casing <i>4 1/2</i>	Depth <i>3698</i>
Type Job <i>CNW 4 1/2 long string</i>	Formation	County <i>BARTON</i>	State <i>KS</i>
		Legal Description <i>23-20-14</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>4 1/2</i>								
Depth <i>3698</i>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <i>58</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press <i>1,500</i>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <i>P.C</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <i>3081</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert Sullivan</i>
Service Units <i>37900 19889 19843 70959 19918</i>		
Driver Names <i>Sullivan Young Phye</i>		

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
<i>4:15</i>					<i>on low safety medicine</i>
					<i>Run 86 54s 4 1/2 # 11.6 csp.</i>
<i>5:35</i>					<i>CASING on Bottom</i>
<i>5:45</i>					<i>Hook up air csp.</i>
<i>6:50</i>	<i>100</i>		<i>5</i>	<i>3</i>	<i>8t SPACER</i>
			<i>12</i>		<i>mix Super Flush</i>
			<i>5</i>		<i>SPACER</i>
			<i>4.5</i>		<i>mix cmt 150 sk com @ 15.5ppg</i>
			<i>48</i>		<i>cmt mixed shot down WASH LINEUP</i>
					<i>Release Plug</i>
			<i>5</i>		<i>8t Disp</i>
	<i>250</i>		<i>28</i>		<i>lift PSI</i>
	<i>550</i>			<i>2.5</i>	<i>SLOW RATE</i>
<i>7:20</i>	<i>1400</i>		<i>58</i>		<i>Plug down Float held.</i>
			<i>7</i>		<i>Plug R/H of 30 sk com</i>
					<i>JOB Complete</i>
					<i>Thank you</i>



3468-95  
A-D 3405-25  
A-F 3288-3355



# Petromark Drilling

## PIPE TALLY

RTO 3691  
RTO 3694

CUSTOMER 10 JAWA 1-23 DATE 10-11-13

CARRIER \_\_\_\_\_ /B.L.# \_\_\_\_\_ CUST. ORDER NO. \_\_\_\_\_

STORE LOCATION \_\_\_\_\_ P.O.# \_\_\_\_\_ LOCATION: \_\_\_\_\_

SIZE 4 1/2 WT. \_\_\_\_\_ GRADE \_\_\_\_\_ MILL \_\_\_\_\_ RANGE \_\_\_\_\_ THREAD \_\_\_\_\_

No.	Ft.	In.	No.	Ft.	In.	No.	Ft.	In.	No.	Ft.	In.	No.	Ft.	In.	No.	Ft.	In.	No.	Ft.	In.			
1	15	35	26	44	40	51	44	38	76	44	23	101			126			151			176		
2	41	10	27	42	24	52	44	40	77	44	13	102			127			152			177		
3	44	43	28	44	35	53	44	28	78	44	42	103			128	3698.42		153	42		178	86 Jts	
4	39	15	29	44	44	54	44	41	79	44	38	104			129	- 15.85		154			179	out	
5	41	88	30	40	58	55	44	44	80	44	24	105			130	3682.57		155			180		
6	44	48	31	44	42	56	44	32	81	44	34	106			131			156			181		
7	44	45	32	44	38	57	44	35	82	44	42	107			132	+ 10.00		157			182	LT	
8	44	23	33	44	39	58	42	85	83	44	50	108			133	3692.57		158			183		
9	43	23	34	44	25	59	44	40	84	44	40	109			134			159			184		
10	44	36	35	44	33	60	44	37	85	37	10	110			135			160			185		
11	42	95	36	44	44	61	44	02	86	17	51	111	SHOE JTS		136			161			186		
12	44	37	37	44	21	62	44	45	87			112			137			162			187		
13	44	38	38	34	28	63	44	44	88			113			138	SET 4 1/2 AT 3690		163			188		
14	44	40	39	44	40	64	44	43	89			114			139	1' OFF BOTTOM		164			189		
15	44	45	40	43	64	65	44	30	90			115			140			165			190		
16	44	39	41	44	35	66	44	37	91			116			141	INSERT FLOAT AT 3673		166			191		
17	44	38	42	39	54	67	44	41	92			117			142			167			192		
18	44	22	43	44	31	68	42	19	93			118			143			168			193		
19	40	51	44	40	50	69	44	32	94			119			144			169			194		
20	44	34	45	44	10	70	44	39	95			120			145			170			195		
21	44	30	46	44	37	71	44	26	96			121			146			171			196		
22	44	33	47	44	39	72	42	24	97			122			147			172			197		
23	44	37	48	44	45	73	42		98			123			148			173			198		
24	40	04	49	44	40	74	44	30	99			124			149			174			199		
25	44	37	50	44	36	75	44	29	100			125			150			175			200		
Total	1066	16		1083	52		1100	64		454	10												

NO. JOINTS 86

TALLIED BY DL

FOOTAGE \_\_\_\_\_

TOTAL 3698.42 FT.

RECIEVED BY \_\_\_\_\_

# Mud-Co / Service Mud Inc.

100 S. Main, Suite #310 • Wichita, KS 67202 • Ph. 316-264-2814 • Fax 316-264-5024

Jim Roberts - Chuck Latham

Pratt, KS Warehouse  
Ph. 620-672-2957 24 Hr.

Lamar, CO Warehouse  
Ph. 719-336-8114 24 Hr.

Hays, KS Warehouse  
Ph. 785-621-4232

Reid Atkins  
Colby, KS  
785-694-3741

TD - 3691'

3698.42 - 86 JTS TRACED  
- 15.85 - #1 OUT

Rick Hughes  
Great Bend, KS  
620-791-7623

3682.57 - 85 JTS IN WELL  
+ 10.00 - LAND IT

Jason Whiting  
Great Bend, KS  
620-282-0556

3692.57

33	34	35	36
1	6	5	4
3	2	1	6

Tony Maestas  
Lamar, CO  
316-772-6679

TRG BOTTOM AT 3691'  
SET 4 1/2" AT 3690' 18" 1' OFF BOTTOM

24	19	20	21	22	23	24	19
----	----	----	----	----	----	----	----

Brad Bortz  
Pratt, KS  
620-793-2421

CENTRALIZER - (1) 3673', (2) 3587',  
(5) 3506', (7) 3417', (9) 3329',  
(10) 3242'

29	30	31	32	33	34	35	36
6	5	4	3	2	1		

Jody Dietz  
Coldwater, KS  
620-770-0607

Gary Schmidberger  
Hays, KS  
785-259-2757

DST 1 KC A-F - 3282' TO 3355'  
DST 2 KC H-I - 3405' TO 3425'  
DST 3 ? - 3468' TO 3495'

Justin Whiting  
Scott City, KS  
620-214-3630

John Boele  
Sterling, KS  
620-204-0522





**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET  
1718 09123 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB: 10-06-13		DISTRICT: PRATT KS		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				LEASE: SHEILA		1-23		WELL NO.:	
ADDRESS:				COUNTY: BARTON		STATE: KS			
CITY:				STATE:		SERVICE CREW: Sullivan, McPraw, Another			
AUTHORIZED BY:				JOB TYPE: CNW 8 3/4" Surface					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
33708-20920	45 min						10-6-13	AM	2:00
19903-73768	45 min							PM	4:20
37900								AM	5:30
								AM	6:15
								AM	7:00
						MILES FROM STATION TO WELL: 55			

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: \_\_\_\_\_  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 100	A-Low Blend cont	SK	200		3,600.00
CP 100 c	Commercial cont	SK	200		3,200.00
CC 102	CellFabo	lb	100		270.00
CC 109	Calcium chloride	lb	940		987.00
CF 105	TOP Rubber Plug 8 3/4"	SA	1		225.00
E 100	Pickup mi	mi	55		233.95
E 101	Heavy Spot	mi	110		770.00
E 113	Bulk Making	SM	1034		1,654.40
CE 201	Depth checks 500'-1000'	SA	1		1,200.00
CE 240	Blending - medium	SK	400		560.00
CE 504	plug locator Rental	SA	1		250.00
S 003	Service Supervision	SA	1		175.00

SUB TOTAL: 9,918.80

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT %TAX ON \$  
MATERIALS %TAX ON \$

TOTAL: 9,918.80

SERVICE REPRESENTATIVE: *[Signature]*  
THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *[Signature]*  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. \_\_\_\_\_

Customer <i>L.D. Drilling</i>	Lease No.	Date <i>10-06-13</i>			
Lease <i>SHEILA</i>	Well # <i>7-23</i>				
Field Order # <i>9123</i>	Station <i>PRATT KS</i>	Casing <i>8 5/8</i>	Depth <i>856'</i>	County <i>BARFORD</i>	State <i>KS</i>
Type Job <i>CNW 8 5/8 Surface</i>	Formation	Legal Description <i>23-20-14</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>856'</i>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <i>53</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press <i>500</i>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <i>P.C.</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <i>030</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative	Station Manager <i>DAVE Scott</i>	Treater <i>Robert Johnson</i>
Service Units <i>37900 33708 20920 19903 73768</i>		
Driver Names <i>Scallan McRAW Anotny</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>4:20</i>					<i>on loc saty meetg</i>
					<i>run 20 fts 8 5/8 #23 csg.</i>
<i>5:15</i>					<i>CASING ON BOTTOM</i>
<i>5:25</i>					<i>HOOK BY CIRC. CSG.</i>
<i>5:30</i>			<i>3</i>	<i>3</i>	<i>1st SPACER</i>
	<i>250</i>		<i>88</i>	<i>4.5</i>	<i>mix A-CW Blend cont 3%cc 1/4" celled</i>
			<i>42</i>		<i>mix common cont w/ 2%cc 1/4" c.</i>
					<i>cont mixed shut down</i>
					<i>Release Plug</i>
				<i>4.5</i>	<i>1st Disp.</i>
<i>6:15</i>	<i>300</i>		<i>53</i>		<i>Plug down</i>
					<i>1 circ 15 BBL cont Pit</i>
					<i>JOB Complete</i>
					<i>Thank you</i>