



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1238213  
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
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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: \_\_\_\_\_



1238213

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
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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
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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> _____
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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> _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	BARNES 1-21
Doc ID	1238213

All Electric Logs Run

COMPENSATED DENSITY / NEUTRON LOG
DUAL INDUCTION LOG
MICRO LOG
SONIC LOG

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	BARNES 1-21
Doc ID	1238213

Tops

Name	Top	Datum
ANHYDRITE	895	+1036
BASE ANHYDRITE	920	+1011
TOPEKA	2886	-955
HEEBNER	3120	-1189
TORONTO	3129	-1198
DOUGLAS	3148	-1217
BROWN LIME	3193	-1262
LANSING	3201	-1270
BASE KANSAS CITY	3405	-1474
CONGLOMERATE	3417	-1486
ARBUCKLE	3451	-1520



# Diamond Testing General Report

**John Riedl**  
**TESTER**  
**CELL: 620-793-0550**

## General Information

<b>Company Name</b>	L D DRILLING INC	<b>Job Number</b>	J3317
<b>Contact</b>	L D DAVIS	<b>Representative</b>	JOHN RIEDL
<b>Well Name</b>	BARNES 1-21	<b>Well Operator</b>	L D DRILLING INC
<b>Unique Well ID</b>		<b>Report Date</b>	2014/11/08
<b>Surface Location</b>	S21/18S/14W	<b>Prepared By</b>	JOHN RIEDL
<b>Field</b>		<b>Qualified By</b>	JIM MUSGROVE

## Test Information

<b>Test Type</b>	DST #1 CONVENTIONAL
<b>Formation</b>	LKC A+B
<b>Well Fluid Type</b>	
<b>Test Purpose</b>	

<b>Start Test Date</b>	2014/11/07	<b>Start Test Time</b>	22:00:00
<b>Final Test Date</b>	2014/11/08	<b>Final Test Time</b>	03:00:00

## Test Recovery

RECOVERY: 20' OIL SPECKED DRILLING MUD



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: STC/Barnes1-21dst1

TIME ON: 10:00 11/7/2014  
TIME OFF: 03:00 11/8/2014

Company L D DRILLING INC Lease & Well No. BARNES 1-21  
Contractor PETROMARK RIG 2 Charge to L D DRILLING INC.  
Elevation 1935 K.B Formation LKC A+B Effective Pay \_\_\_\_\_ Ft. Ticket No. J3317  
Date 11/07/14 Sec. 21 Twp. \_\_\_\_\_ 18 S Range \_\_\_\_\_ 14 W County BARTON State KANSAS  
Test Approved By JIM MUSGROVE Diamond Representative JOHN RIEDL

Formation Test No. 1 Interval Tested from 3204 ft. to 3271 ft. Total Depth 3271 ft.  
Packer Depth 3199 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 3204 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
Top Recorder Depth (Inside) 3207 ft. Recorder Number 30046 Cap. 6000 P.S.I.  
Bottom Recorder Depth (Outside) 3268 ft. Recorder Number 13498 Cap. 6000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 55 Drill Collar Length 129 ft. I.D. 2 1/4 in.  
Weight 8.9 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 5300 P.P.M. Drill Pipe Length 3064 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number NOT REQUESTED Test Tool Length 20 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 67 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 + DEAD IN 10 MIN.  
2nd Open: NO BLOW

Recovered 20 ft. of OIL SPECKED DRILLING MUD  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

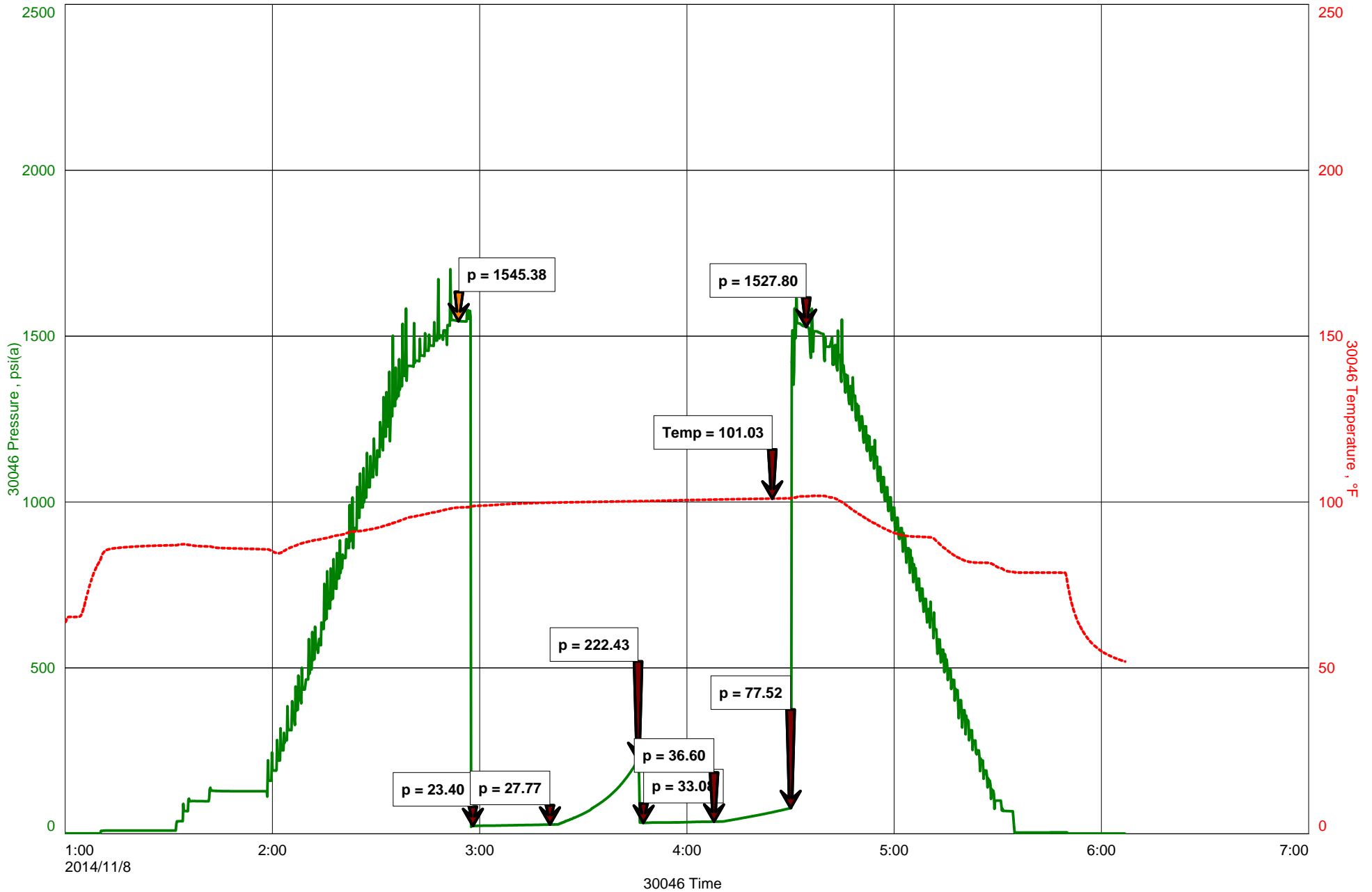
Remarks: TOTAL FLUID REC: 20' IN DRILL COLLAR  
TOOL SAMPLE GRINDOUT: 100%MUD

Time Set Packer(s) 12:00 A.M A.M. P.M. Time Started Off Bottom 1:20 A.M A.M. P.M. Maximum Temperature 101

Initial Hydrostatic Pressure..... (A) 1545 P.S.I.  
Initial Flow Period..... Minutes 20 (B) 23 P.S.I. to (C) 28 P.S.I.  
Initial Closed In Period..... Minutes 20 (D) 222 P.S.I.  
Final Flow Period..... Minutes 20 (E) 33 P.S.I. to (F) 36 P.S.I.  
Final Closed In Period..... Minutes 20 (G) 78 P.S.I.  
Final Hydrostatic Pressure..... (H) 1527 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.

# BARNES 1-21





# Diamond Testing General Report

**John Riedl**  
**TESTER**  
**CELL: 620-793-0550**

## General Information

<b>Company Name</b>	L D DRILLING INC	<b>Job Number</b>	J3318
<b>Contact</b>	L D DAVIS	<b>Representative</b>	JOHN RIEDL
<b>Well Name</b>	BARNES 1-21	<b>Well Operator</b>	L D DRILLING INC
<b>Unique Well ID</b>		<b>Report Date</b>	2014/11/08
<b>Surface Location</b>	S21/18S/14W	<b>Prepared By</b>	JOHN RIEDL
<b>Field</b>		<b>Qualified By</b>	KURT TALBOTT

## Test Information

<b>Test Type</b>	DST #1 CONVENTIONAL
<b>Formation</b>	LKC "H"
<b>Well Fluid Type</b>	
<b>Test Purpose</b>	

<b>Start Test Date</b>	2014/11/08	<b>Start Test Time</b>	12:00:00
<b>Final Test Date</b>	2914/11/08	<b>Final Test Time</b>	18:15:00

## Test Recovery

RECOVERY: 500' GAS IN PIPE  
40' GAS+MUD CUT OIL





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: STC/Barnes1-21dst2

TIME ON: 12:00 11/8/2014  
TIME OFF: 18:15 11/8/2014

Company L D DRILLING INC Lease & Well No. BARNES 1-21  
Contractor PETROMARK RIG 2 Charge to L D DRILLING INC.  
Elevation 1935 K.B Formation LKC "H" Effective Pay \_\_\_\_\_ Ft. Ticket No. J3318  
Date 11/08/14 Sec. 21 Twp. 18 S Range 14 W County BARTON State KANSAS  
Test Approved By KURT TALBOTT Diamond Representative JOHN RIEDL

Formation Test No. 2 Interval Tested from 3316 ft. to 3353 ft. Total Depth 3353 ft.  
Packer Depth 3311 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 3316 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

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

Top Recorder Depth (Inside) 3319 ft. Recorder Number 30046 Cap. 6000 P.S.I.  
Bottom Recorder Depth (Outside) 3350 ft. Recorder Number 13498 Cap. 6000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 48 Drill Collar Length 120 ft. I.D. 2 1/4 in.  
Weight 9.2 Water Loss 10 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 7200 P.P.M. Drill Pipe Length 3176 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number NOT REQUESTED Test Tool Length 20 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 37 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 (1/2")  
2nd Open: FAIR (BUILT THROUGHOUT TO 4") NO BB

Recovered 500 ft. of GAS IN PIPE  
Recovered 40 ft. of G+MCO (20%GAS 25%MUD 55%OIL)  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: TOTAL FLUID REC: 40' IN DRILL COLLAR  
TOOL SAMPLE GRINDOUT: 10%MUD 20%GAS 70%OIL)

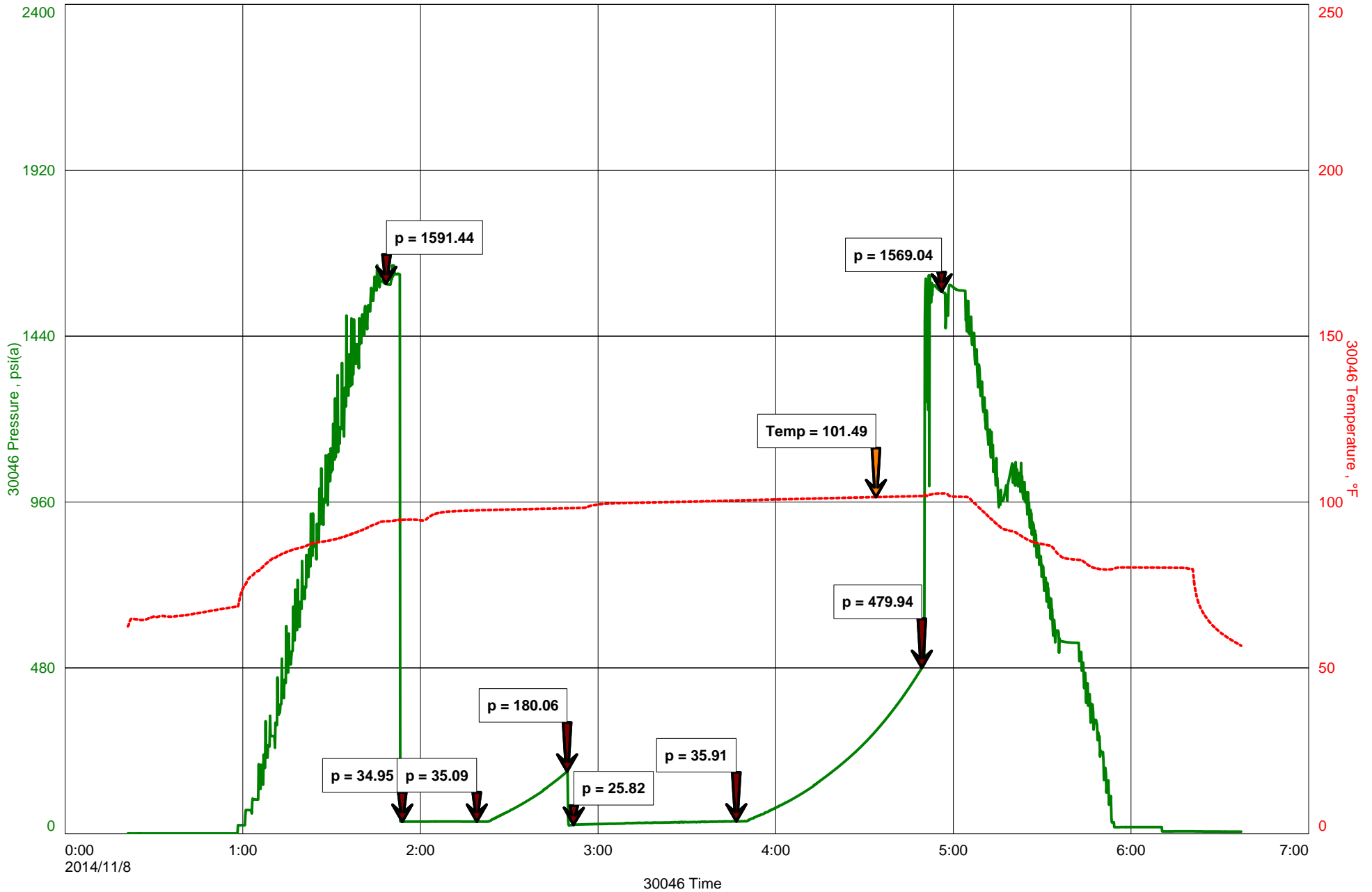
	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) 1:30 P.M <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 4:30 P.M <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 101

Initial Hydrostatic Pressure..... (A) 1591 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 35 P.S.I. to (C) 37 P.S.I.  
Initial Closed In Period..... Minutes 30 (D) 180 P.S.I.  
Final Flow Period..... Minutes 60 (E) 27 P.S.I. to (F) 37 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 480 P.S.I.  
Final Hydrostatic Pressure..... (H) 1570 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.

# BARNES 1-21





# Diamond Testing General Report

**John Riedl**  
**TESTER**  
**CELL: 620-793-0550**

## General Information

<b>Company Name</b>	LD DRILLING INC	<b>Job Number</b>	J3319
<b>Contact</b>	LD DAVIS	<b>Representative</b>	JOHN RIEDL
<b>Well Name</b>	BARNES 1-21	<b>Well Operator</b>	LD DRILLING INC
<b>Unique Well ID</b>		<b>Report Date</b>	2014/11/09
<b>Surface Location</b>	S21/18S/14W	<b>Prepared By</b>	JOHN RIEDL
<b>Field</b>		<b>Qualified By</b>	KURT TALBOTT

## Test Information

<b>Test Type</b>	DST #3 CONVENTIONAL
<b>Formation</b>	LKC "I,J,K"
<b>Well Fluid Type</b>	
<b>Test Purpose</b>	

<b>Start Test Date</b>	2014/11/09	<b>Start Test Time</b>	02:30:00
<b>Final Test Date</b>	2014/11/09	<b>Final Test Time</b>	08:45:00

## Test Recovery

RECOVERY: 60' GAS IN PIPE  
120' GAS+MUD CUT OIL



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: STC/Barnes1-21dst3

TIME ON: 2:30 11/9/2014  
TIME OFF: 8:50 11/9/2014

Company L D DRILLING INC Lease & Well No. BARNES 1-21  
Contractor PETROMARK RIG 2 Charge to L D DRILLING INC.  
Elevation 1935 K.B Formation LKC "H" Effective Pay \_\_\_\_\_ Ft. Ticket No. J3319  
Date 11/09/14 Sec. 21 Twp. 18 S Range 14 W County BARTON State KANSAS  
Test Approved By KURT TALBOTT Diamond Representative JOHN RIEDL

Formation Test No. 3 Interval Tested from 3354 ft. to 3408 ft. Total Depth 3408 ft.  
Packer Depth 3349 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 3354 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
Top Recorder Depth (Inside) 3357 ft. Recorder Number 30046 Cap. 6000 P.S.I.  
Bottom Recorder Depth (Outside) 3405 ft. Recorder Number 13498 Cap. 6000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 52 Drill Collar Length 120 ft. I.D. 2 1/4 in.  
Weight 9.2 Water Loss 10 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 7200 P.P.M. Drill Pipe Length 3365 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number NOT REQUESTED Test Tool Length 20 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 54 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 31' drillpipe Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK (BUILT THROUGHOUT TO 2")  
2nd Open: WEAK(BUILT THROUGHOUT TO 3") NO BB

Recovered 60 ft. of GAS IN PIPE  
Recovered 120 ft. of G+MCO (20%GAS 40%MUD 40%OIL)  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: TOTAL FLUID REC: 120' IN DRILL COLLAR  
TOOL SAMPLE GRINDOUT: 5%GAS 15%%MUD 80%OIL)

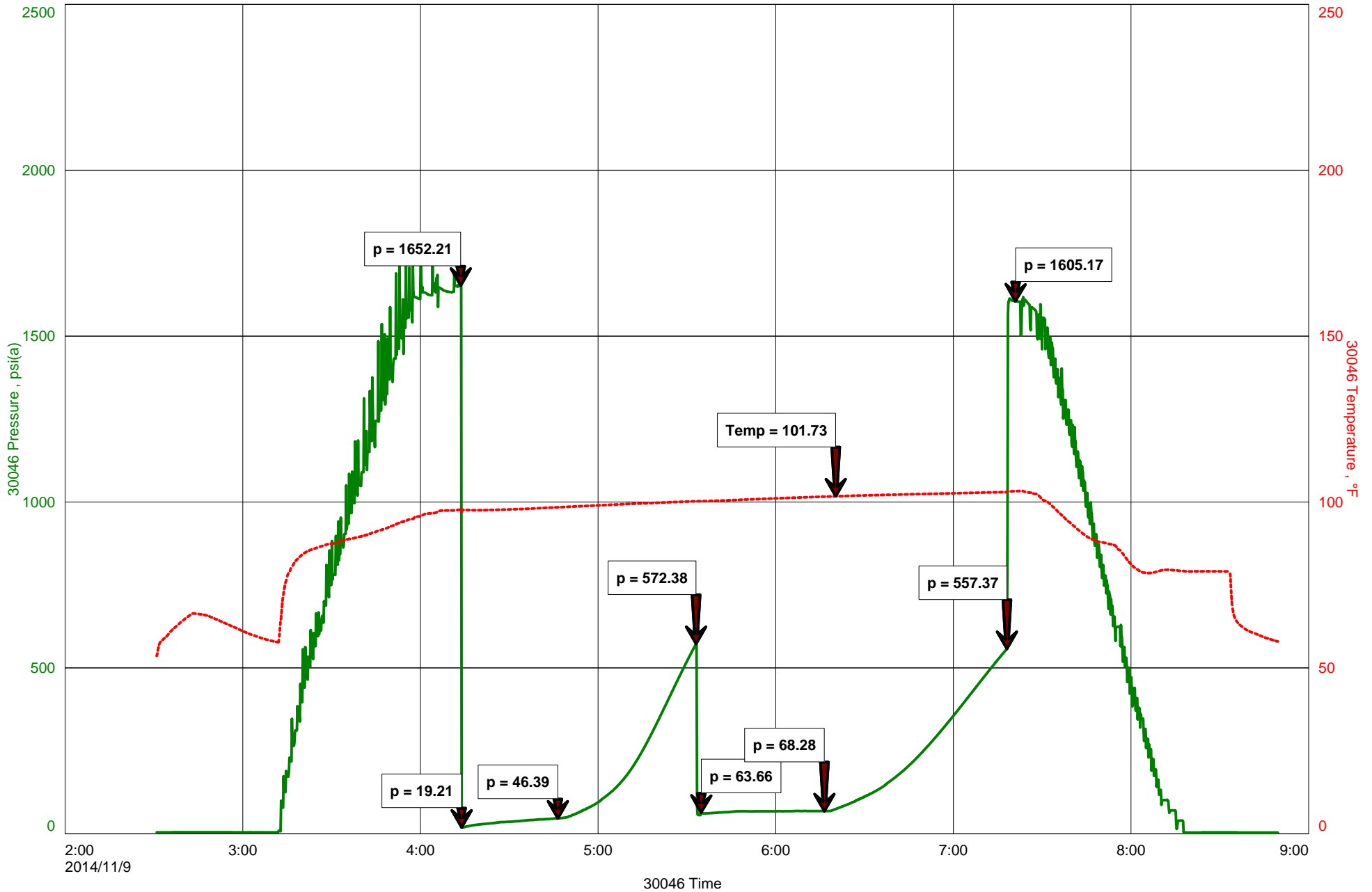
	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) 4:15 A.M <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 7:15 A.M <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 102

Initial Hydrostatic Pressure..... (A) 1652 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 19 P.S.I. to (C) 46 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 572 P.S.I.  
Final Flow Period..... Minutes 45 (E) 64 P.S.I. to (F) 68 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 557 P.S.I.  
Final Hydrostatic Pressure..... (H) 1605 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.

# BARNES 1-21





# Diamond Testing General Report

**John Riedl**  
**TESTER**  
**CELL: 620-793-0550**

## General Information

<b>Company Name</b>	LD DRILLING INC	<b>Job Number</b>	J3320
<b>Contact</b>	LD DAVIS	<b>Representative</b>	JOHN RIEDL
<b>Well Name</b>	BARNES 1-21	<b>Well Operator</b>	L D DRILLING INC
<b>Unique Well ID</b>		<b>Report Date</b>	2014/11/10
<b>Surface Location</b>	S21/18S/14W	<b>Prepared By</b>	JOHN RIEDL
<b>Field</b>		<b>Qualified By</b>	KURT TALBOTT

## Test Information

<b>Test Type</b>	DST #4 CONVENTIONAL
<b>Formation</b>	ARBUCKLE
<b>Well Fluid Type</b>	
<b>Test Purpose</b>	

<b>Start Test Date</b>	2014/11/09	<b>Start Test Time</b>	18:30:00
<b>Final Test Date</b>	2014/11/10	<b>Final Test Time</b>	00:40:00

## Test Recovery

RECOVERY: 65' OIL SPECKED MUD





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: STC/Barnes1-21dst4

TIME ON: 18:30 11/9/2014  
TIME OFF: 00:40 11/9/2014

Company L D DRILLING INC Lease & Well No. BARNES 1-21  
Contractor PETROMARK RIG 2 Charge to L D DRILLING INC.  
Elevation 1935 K.B Formation ARBUCKLE Effective Pay \_\_\_\_\_ Ft. Ticket No. J3320  
Date 11/09/14 Sec. 21 Twp. 18 S Range 14 W County BARTON State KANSAS  
Test Approved By KURT TALBOTT Diamond Representative JOHN RIEDL

Formation Test No. 4 Interval Tested from 3416 ft. to 3458 ft. Total Depth 3458 ft.

Packer Depth 3411 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Packer Depth 3416 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

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

Top Recorder Depth (Inside) 3419 ft. Recorder Number 30046 Cap. 6000 P.S.I.

Bottom Recorder Depth (Outside) 3455 ft. Recorder Number 13498 Cap. 6000 P.S.I.

Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 50 Drill Collar Length 120 ft. I.D. 2 1/4 in.

Weight 9.2 Water Loss 9,2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 7500 P.P.M. Drill Pipe Length 3276 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number NOT REQUESTED Test Tool Length 20 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO Anchor Length 42 ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 31' drillpipe Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: WEAK (1/2" DEC. TO 1/4")

2nd Open: WEAK(1/4")

**NO BB**

Recovered 65 ft. of OIL SPECKED MUD

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: TOTAL FLUID REC: 65' IN DRILL COLLAR

TOOL SAMPLE GRINDOUT: 100%MUD

Time Set Packer(s) 8:35 P.M <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 10:35 P.M <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 101

Initial Hydrostatic Pressure..... (A) 1672 P.S.I.

Initial Flow Period..... Minutes 30 (B) 27 P.S.I. to (C) 41 P.S.I.

Initial Closed In Period..... Minutes 30 (D) 686 P.S.I.

Final Flow Period..... Minutes 30 (E) 43 P.S.I. to (F) 56 P.S.I.

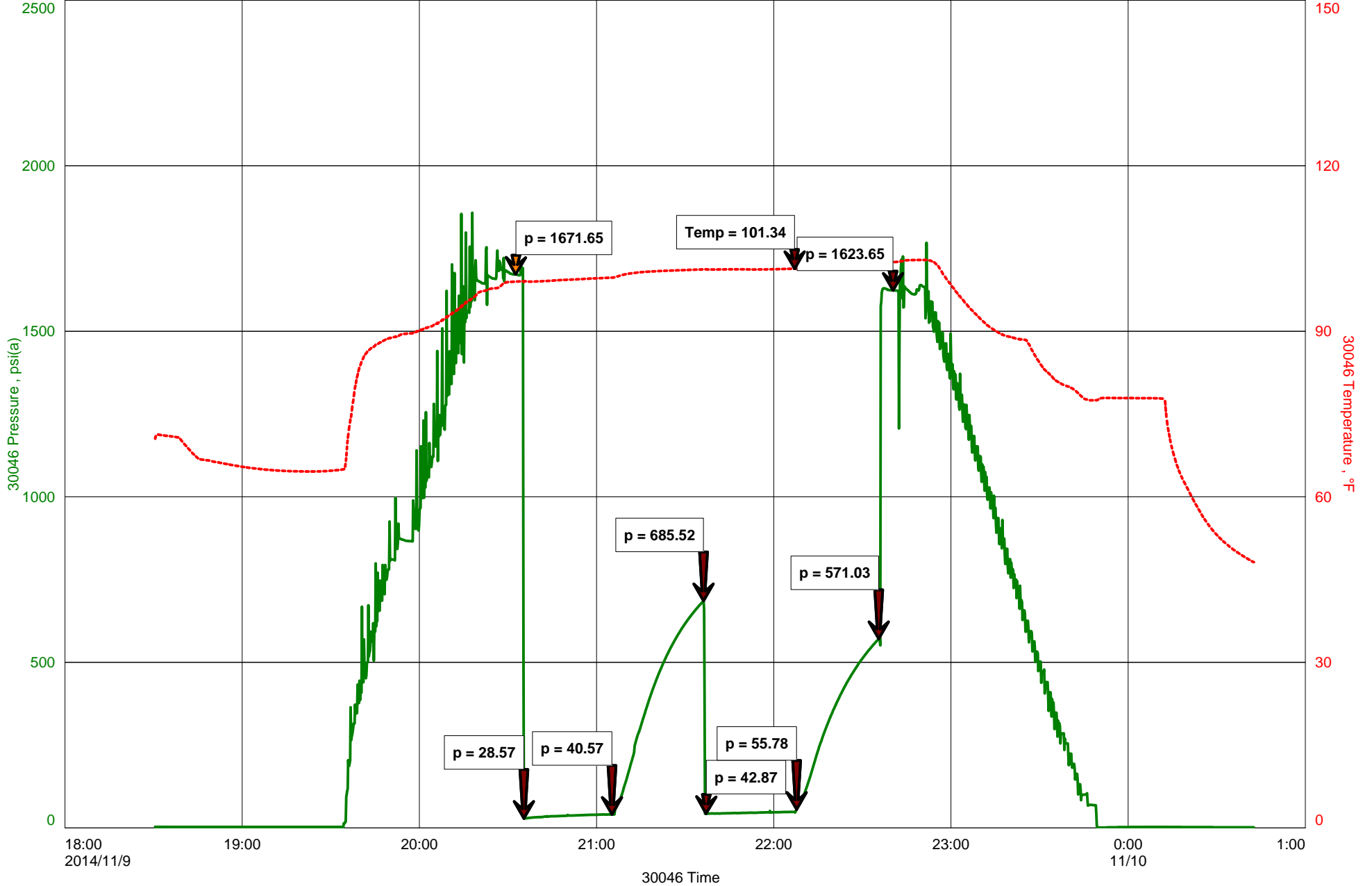
Final Closed In Period..... Minutes 30 (G) 571 P.S.I.

Final Hydrostatic Pressure..... (H) 1624 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.

# BARNES 1-21







# Diamond Testing General Report

**John Riedl**  
**TESTER**  
**CELL: 620-793-0550**

## General Information

<b>Company Name</b>	LD DRLG	<b>Job Number</b>	J3321
<b>Contact</b>	LD DAVIS	<b>Representative</b>	JOHN RIEDL
<b>Well Name</b>	BARNES 1-21	<b>Well Operator</b>	L D DRILLING INC
<b>Unique Well ID</b>		<b>Report Date</b>	2014/11/10
<b>Surface Location</b>	S21/18S/14W	<b>Prepared By</b>	JOHN RIEDL
<b>Field</b>		<b>Qualified By</b>	KURT TALBOTT

## Test Information

<b>Test Type</b>	DST #5 CONVENTIONAL
<b>Formation</b>	ARBUCKLE
<b>Well Fluid Type</b>	
<b>Test Purpose</b>	

<b>Start Test Date</b>		<b>Start Test Time</b>	06:30:00
<b>Final Test Date</b>	2014/11/10	<b>Final Test Time</b>	12:45:00

## Test Recovery

RECOVERY: 250' VERY SLIGHTLY OIL CUT MUDDY WATER



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: STC/Barnes1-21dst5

TIME ON: 18:30 11/10/2014  
TIME OFF: 12:45 11/10/2014

Company L D DRILLING INC Lease & Well No. BARNES 1-21  
Contractor PETROMARK RIG 2 Charge to L D DRILLING INC.  
Elevation 1935 K.B Formation ARBUCKLE Effective Pay \_\_\_\_\_ Ft. Ticket No. J33210  
Date 11/10/14 Sec. 21 Twp. 18 S Range 14 W County BARTON State KANSAS  
Test Approved By KURT TALBOTT Diamond Representative JOHN RIEDL

Formation Test No. 5 Interval Tested from 3416 ft. to 3463 ft. Total Depth 3463 ft.  
Packer Depth 3411 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 3416 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
Top Recorder Depth (Inside) 3419 ft. Recorder Number 30046 Cap. 6000 P.S.I.  
Bottom Recorder Depth (Outside) 3460 ft. Recorder Number 13498 Cap. 6000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

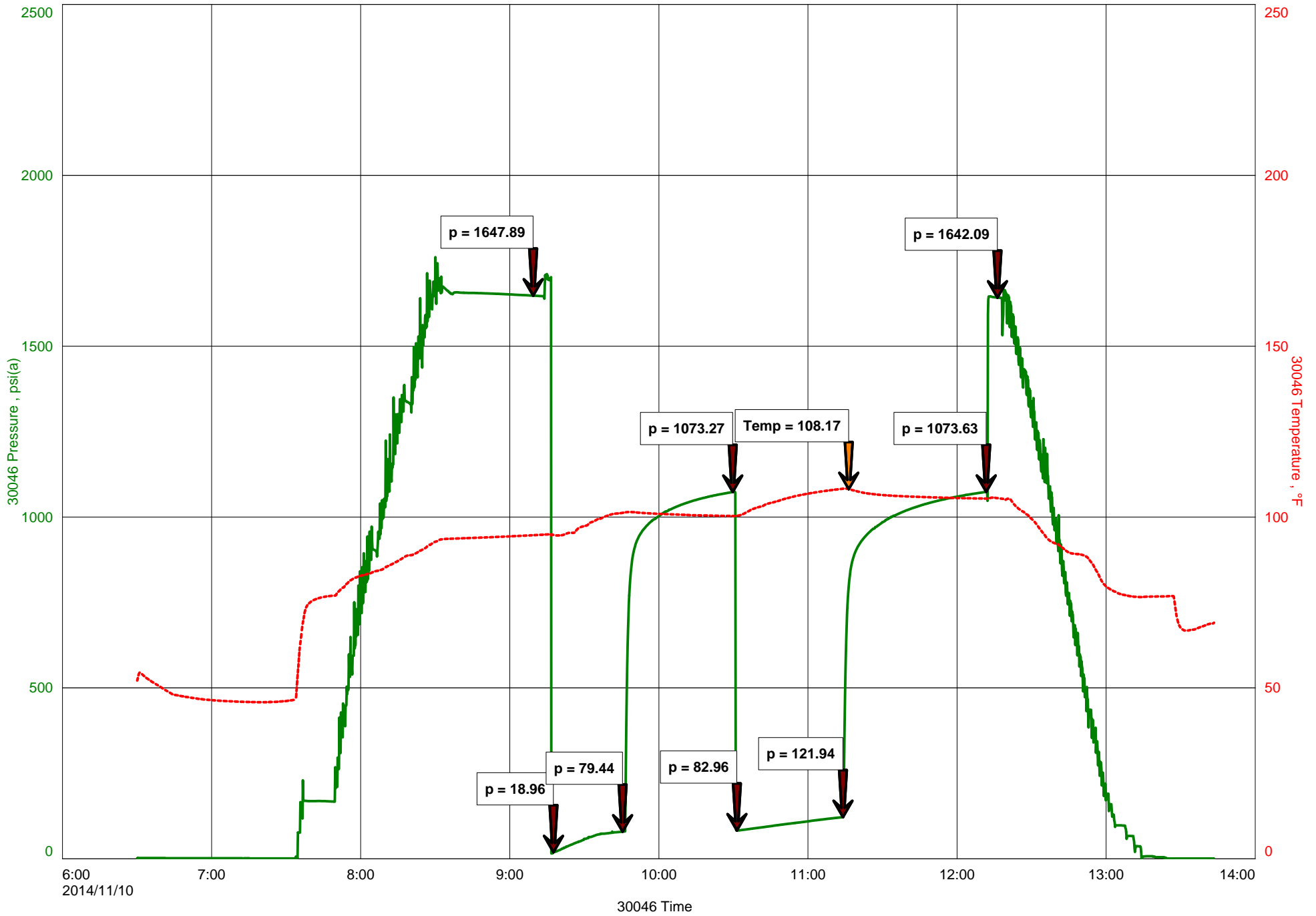
Mud Type CHEMICAL Viscosity 50 Drill Collar Length 120 ft. I.D. 2 1/4 in.  
Weight 9.2 Water Loss 9.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 7500 P.P.M. Drill Pipe Length 3276 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number NOT REQUESTED Test Tool Length 20 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 47 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 31' drillpipe Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK (BUILT THROUGHOUT TO 3")  
2nd Open: FAIR (4") NO BB

Recovered <u>250</u> ft. of <u>SLOCMW (1%OIL 24%MUD 74%WATER CHLORIDES 26,000Ppm)</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>TOTAL FLUID REC: 250' (125' IN DRILL COLLAR, 125' IN DRILL PIPE)</u>	Insurance
<u>TOOL SAMPLE GRINDOUT: 1%OIL 5%MUD 94%WATER</u>	
	Total

Time Set Packer(s) 8:15 A.M <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 11:15 A.M <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 108  
Initial Hydrostatic Pressure..... (A) 1647 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 19 P.S.I. to (C) 79 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 1074 P.S.I.  
Final Flow Period..... Minutes 45 (E) 83 P.S.I. to (F) 122 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 1074 P.S.I.  
Final Hydrostatic Pressure..... (H) 1642 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.





Office  
 (620) 588-4250 212 Main St. • P.O. Box 215 • Claflin, KS 67525  
 Home  
 (620) 587-3444

James C. Musgrove  
 Petroleum Geologist

# GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY LD Drilling

LEASE Barnes #1-21

FIELD \_\_\_\_\_

LOCATION SE-NW-SE-NW (1882' ENL'S 1864' FW)

SEC 21 TWP 18S RGE 14W

COUNTY Barton STATE Kansas

CONTRACTOR Petromark (rig #2)

SPUD 11/1/14 COMP 11/10/14

RTD 3463 LTD 3457

MUD UP 2700 TYPE MUD Chemical displaced

SAMPLES SAVED FROM 2800

DRILLING TIME KEPT FROM 2800

SAMPLES EXAMINED FROM 2800

GEOLOGICAL SUPERVISION FROM 3100

GEOLOGIST ON WELL Jim Musgrove 2800-3300 / Kurt Talbott 3300 RTD

ELEVATIONS

KB 1931

DF \_\_\_\_\_

GL 1926

Measurements Are All From -KB-

SURFACE CASING 8981' 914

PRODUCTION 5 1/2" 3462

ELECTRICAL SURVEYS

By Nabors, Dual induction, compensated dens./norm, micro

TO \_\_\_\_\_

TO \_\_\_\_\_

TO RTD

TO 3463

FORMATION TOPS

LOG

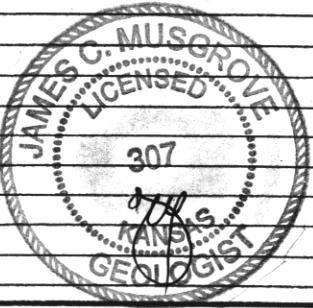
SAMPLES

anhydrite	895	+1036	RTD 3463	-1532			
Basal anhydrite	920	+1011	RTD 3457	-1526			
Topeka	2886	-955					
Lechner	3120	-1189					
Toronto	3129	-1198					
Douglas	3148	-1217					
Brown Lime	3193	-1262					
Mansing	3201	-1270					
Base Kansas City	3405	-1474					
Chimney Rock	3417	-1486					
Arbuckle	3451	-1520					

REMARKS

Recommendations, 5 1/2" production casing was set & cemented in the Barnes #1-21.

Respectfully submitted  
 James C. Musgrove & Kurt Talbott  
 Petroleum Geologists



LEGEND

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

DRILLING TIME  
 Logarithmic Scale)

DEPTH

207 / 207

207 / 207

.5 1 2 3 4 5 10 15 20 30

SAMPLE DESCRIPTIONS

REMARKS

20

40

60

80

2960

20

40

60

80

3000

lt grey dk grey, cherty  
dense

grey }  
greyish green  
silty sh.

openka

lt tan/grey, (x.t.) few  
green fossils, poor fr g  
mfs

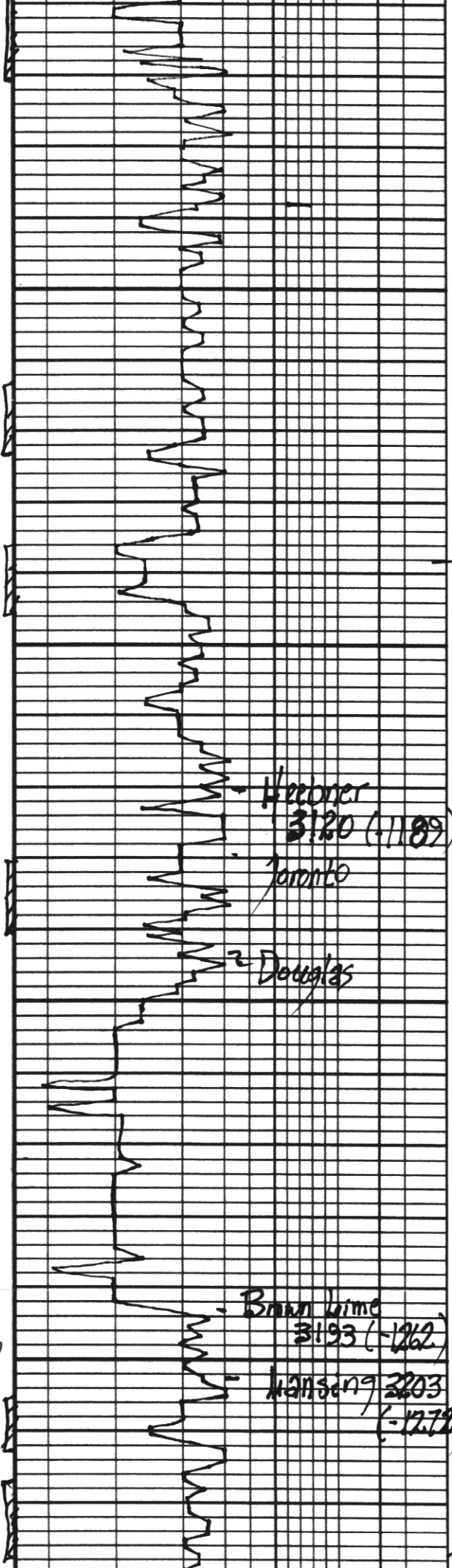
dark, few sh  
fin wh/grey d

blk carb sh

grey/green sh



20  
40  
60  
80  
3100  
20  
40  
60  
80  
3200  
20



ls; wh/gm, fxt,  
slightly foss; scatt g<sup>+</sup>

32

ax; dense

~ blk carb. sh.

32

ls, wh/gm (fx) cherty;  
few foss; gran n/s

32

ls, gm, wh (fx) foss;  
cherty in part  
+ gray foss d

ls; tan/gm; foss; cherty  
scatt g<sup>+</sup>  
+ gray d

32

~ blk carb. sh.

- 1931 4B

ls; gm, wh (fx) slightly  
ty; few foss; Jr. gray spotty  
edge staining; nsg - no odor.

~ gray/greyish green  
silty sh; Jr. vfg; mica;  
sd; n/s

32

silty vc. sh.

32

odor ??

Heedner  
3120 (-1189)

Taronto

Douglas

Brown lime  
3193 (-1262)

Kansan  
3203  
(-1272)

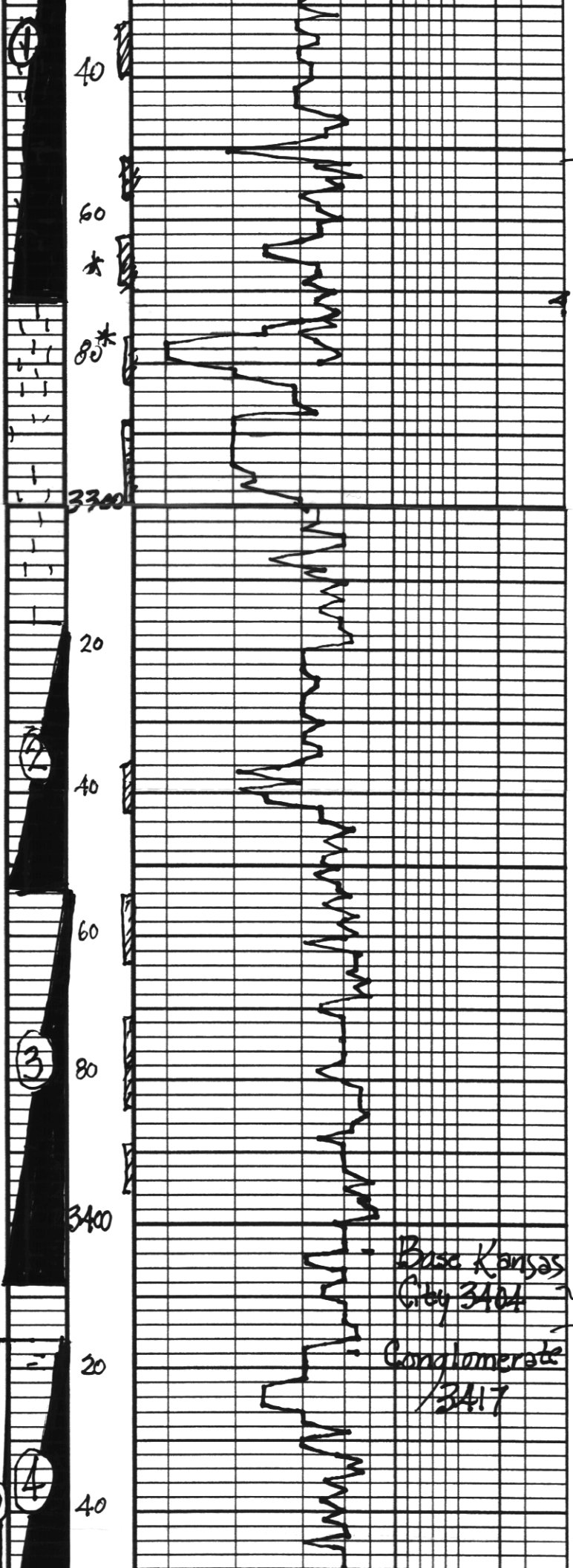
ls, tan brown, fxt,  
slightly ty/n/s

ls; gm, wh (fx) cherty;  
few n/s; Jr. gray blk stn.  
nsg, nsg

odor ??

ls; wh/gm; fxt, foss -

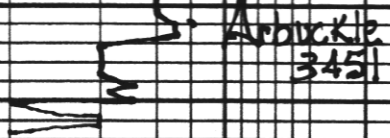
??



Spary white cement - poor dev's m/s	odor
ls, gray, 100% cherty dsc, ??? stn nsfo; ??? odor	}
gray/bk sh.	}
ls, gray/wh; ool; Cherty; Jr. brown stn, wk sfo; ??? odor	odor
ls, gray; crm; ool; Sr ool Jr. bk/brown stn; Jr. fo, st/s; odor	}
???	
dsc; a.o., brown splty stn; nsfo; st/lfr; odor	odor
ls, crm; ool; foss; sub-ool Poor stn; nsfo; fair odor	
	Dst # 1 3204-3271 20-20-20-20 Blow, weak (died 10 Rec; 20' mud (mins) Pressures; Isip 222 psi Isip 78 Ifp 23-28 FFP 33-36 NSH 1545-1527
ls, crm/wh; fxd; ool; fr. muddy; ool; good stn sst; sfo; good odor	
???	
ls, wh/gray; ool; cherty; scat' ool; Jr. Poor stn; nsfo; no odor	Dst # 2 3316-3353 30-30-60-60 Blow weak (1 1/2") 2nd opening; fair (4") Rec; 500' gas in pipe 40' gassy mud cut oil (20% gas; 25% mud; 55% oil) Pressures; Isip 180 psi Isip 180 Ifp 35-37 FFP 27-37 NSH 1591-1570
ls, crm/wh; ool; poor vis'o dk brown stn; sfo; st. odor	
Jr. bk./gray stn.	
ls, crm/ham; ool/foss; partly dev's; Jr. brown stn; Jr. fo; no odor	
gray/mae/green sh	
ls, wh; cherty -> dy (dense)	
v.c. soft sh	Dst # 3 3354 - 3408 30-45-45-60 Blow weak (2") Rec; 60' gas in pipe 120' gassy muddy oil (20% gas; 100% oil)
???	
Jr. wh; dense ls; sh ool	
Jr. wh/orange A	
???	

Base Kansas  
City 3404

Conglomerate  
3417



RTD 3463

~ dol, wh, f med xl) fr. IX 20  
dk. brown stn, sfo, good odor

~ dol, wh, med xl, few coarse  
xl) fr. good IX 20. dk brown  
stn, sfo, ft. odor

(1000) 4010 mud)  
4070 oil)  
Pressures) ISIP 572 PSI  
fs: P 557  
IJP 19-46  
fJP 64-68  
MSH  
1652-1605  
PS

DSE #5 3416-3463  
30-30-45-45

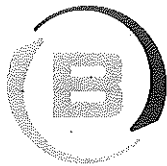
Blow, weak (3")

REC, 2.50 very slightly  
oil cut muddy water  
(29% oil; 25% mud;  
44% water)

pressures: ISIP 1074 PSI  
fsip 1074  
IJP 19-19  
fJP 83-122  
MSH 1642-1647 PSI

DSE #4 3416  
- 3450  
30-30-30-30  
Blow, weak (1/2")  
Rec) 65' oil specked  
mud  
pressures: ISIP 686 PSI  
fs: P 571  
IJP 27-41  
fJP 43-56  
MSH  
1672  
- 1624 PSI





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

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

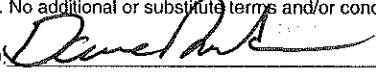
FIELD SERVICE TICKET  
1718 10750 A

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

DATE OF JOB: <b>11-11-14</b>	DISTRICT: <b>FLA901/BS</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>CO BREWERS, INC</b>	LEASE: <b>GALVES 1-21</b>	WELL NO.:					
ADDRESS:	COUNTY: <b>BARBON</b>	STATE: <b>KS</b>					
CITY:	STATE:	SERVICE CREW: <b>K.S. STARR</b>					
AUTHORIZED BY:	JOB TYPE: <b>CNW - CONCRETE</b>						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE AM PM TIME
<b>19907</b>		<b>19903</b>	<b>1/2</b>				<b>11-11 1100</b>
<b>84981</b>	<b>1/2</b>	<b>21010</b>				ARRIVED AT JOB	<b>1500</b>
<b>19843</b>						START OPERATION	<b>1730</b>
						FINISH OPERATION	<b>1806</b>
						RELEASED	<b>1900</b>
						MILES FROM STATION TO WELL	<b>65</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:   
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

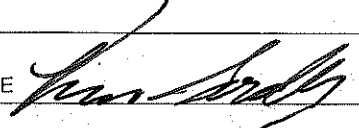
ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CF00C	COMMON CEMENT	SK	150		2406.00
CF103	60/40 P02	SK	30		360.00
CC111	SILTS	Yd.	675		337.50
CC130	WCA-1 C-51	Yd.	29		725.00
CC201	CASONITE	Yd.	750		502.50
CF607	SIL LATCH DOWN PUG	EA	1		400.00
CF1251	SIL VFA FLOAT STOP	EA	1		360.00
CF1651	SIL TURBOCHARGER	EA	6		648.00
CF1901	SIL BRASLER	EA	1		280.00
CF204	CUTY MAX	EA	4		160.00
CC151	MURFUSH	gal.	1000		500.00
E100	PICKUP MILEAGE	mi.	75		337.50
E101	HANDY EQUIP. MILEAGE	mi.	150		1125.00
E113	BULL DELIVERY	TM	626		1565.63
CE104	DEPTH CHARGE 3001'-4000'	EA	1		2160.00
CE140	BLENKING CHARGE	SK	180		252.00
CE304	PVC CONTAINER	EA	1		250.00
5003	SEALANCE SUPERVISION	EA	1		175.00


SUB TOTAL **13,540.13**

CHEMICAL / ACID DATA:			

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

DISCOUNT TOTAL **10,425.90**  
PAID

SERVICE REPRESENTATIVE: 

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

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

Customer	LD DRILLING, INC	Lease No.		Date	11-11-14
Lease	BARNES	Well #	1-21		
Field Order #	10150	Station	Pratt, KS	Casing	3 1/2
Type Job	CNN-LOW STRONG	Depth	3530	County	BARTON
		Formation	TD-3535	State	KS
				Legal Description	21-18-14

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
3 1/2				Pre Pad				5 Min.
Depth	Depth	From	To	Pad	Min			10 Min.
3530				Frac	Avg			15 Min.
Volume	Volume	From	To		HHP Used			Annulus Pressure
				Flush	Gas Volume			Total Load
Well Connection	Annulus Vol.	From	To					
Packer Depth	Packer Depth	From	To					

Customer Representative	LD	Station Manager	KEVIN	Treater	CONLEY
Service Units	19907 84981-19843		19903-21010		
Driver Names	HC	STAN	DAVE		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1500					ON LOCATION
					RUN 3530' 5 1/2" USED CSC-112 PPS
					FRONT SHOE, LATCH, BAFFLE
					DN 1 1/2" COLLAR - 11 ST
					CENT-1-3-5-7-9-11 BASKET-4
					THE BOTTOM-DRAP BRAC-CERC.
					RECIPROCATATE CASING
					5 1/2" SET AT 3536'
1730	400		24	6	RUN P 24 bbl MANUFURSTA
	400		5	4	RUN P 5 bbl H2O
	300		34	6	MIX 150 SK COMMON
					10% SPT, 5% HCL, 2% SOWTE, 2%
					WLA-1 AT 15.2#, 1.30' CRT/SK
					STOP- WASH LINE- DRAP PING
	0		0	6	START WASH w/ 2% HCL H2O
	200		60	6	LEFT COMMENT
	600		80	4	SLOW RATE
1800	1500		86	4	PLUG DOWN- H2O
					RUN RAT HOLE- 30 SK 60/40
					JOB COMPLETE- KEVIN



# Petromark Drilling

715-3535

## PIPE TALLY

CUSTOMER L.W. Barnes 1-21 DATE 11-11-141

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

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

SIZE 5/8 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.	No.	Ft.	In.	
1	11	76	26	31	52	51	32	15	76	31	74	101	32	40	126			151			176			
2	32	57	27	33	60	52	36	83	77	31	60	102	29	49	127			152			177			
3	33	83	28	33	45	53	28	24	78	32	57	103	31	98	128			153			178			
4	27	94	29	32	63	54	30	34	79	32	44	104	32	35	129			154			179			
5	32	51	30	32	44	55	32	58	80	32	19	105	32	81	130			155			180			
6	31	10	31	32	01	56	50	7	81	31	66	106	30	11	131			156			181			
7	30	27	32	33	63	57	34	3	82	32	45	107	32	41	132			157			182			
8	23	17	33	32	70	58	32	87	83	31	75	108	32	32	133			158			183			
9	27	15	34	29	39	59	32	12	84	30	57	109	32	30	134			159			184			
10	31	30	35	28	89	60	31	67	85	29	30	110	32	66	135			160			185			
11	32	01	36	32	30	61	36	13	86	32	11	111	31	97	136			161			186			
12	32	73	37	27	90	62	32	60	87	32	40	112	32	54	137			162			187			
13	30	65	38	32	50	63	43	46	88	31	30	113	32	05	138			163			188			
14	35	12	39	34	96	64	42	12	89	32	12	114	31	61	139			164			189			
15	31	69	40	32	57	65	39	39	90	32	33	115	32	17	140			165			190			
16	31	63	41	27	43	66	42	01	91	32	01	116	31	57	141			166			191			
17	32	55	42	31	22	67	42	72	92	32	10	117	32	12	142			167			192			
18	30	70	43	31	95	68	32	65	93	32	13	118	32	26	143			168			193			
19	22	62	44	28	97	69	31	95	94	32	58	119	15	41	144			169			194			
20	22	16	45	29	72	70	32	53	95	32	15	120	59	1	145			170			195			
21	32	49	46	30	39	71	31	51	96	32	22	121			146			171			196			
22	23	11	47	32	07	72	32	62	97	31	97	122			147			172			197			
23	23	06	48	30	93	73	31	74	98	31	94	123			148			173			198			
24	30	57	49	32	08	74	31	18	99	30	57	124			149			174			199			
25	32	14	50	32	23	75	31	79	100	32	59	125			150			175			200			
Total	775	76	✓	784	08	✓	813	72	✓	795	54	✓	591	70	✓									

NO. JOINTS 119

TALLIED BY

FOOTAGE \_\_\_\_\_

TOTAL 3740.70 FT.

B.D.W.

RECEIVED BY \_\_\_\_\_





**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 11780 A

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

DATE OF JOB: 11/4/14		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, INC.				LEASE: BARNES		1.21		WELL NO.:	
ADDRESS:				COUNTY: BARTON		STATE: KS			
CITY:				STATE:		SERVICE CREW: Sullivan, Egan, Phyc			
AUTHORIZED BY:				JOB TYPE: CIVIL 8 3/8 Suction					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
27463	1						11-4-14	PM	8:00
19889-19862	1					ARRIVED AT JOB		AM	7:00
37900						START OPERATION		AM	12:35
						FINISH OPERATION		AM	1:30
						RELEASED		AM	1:45
						MILES FROM STATION TO WELL			15

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 101	A-CON Blend cont	sk	200		3,600.00
CP 100-c	CONV mix cont	sk	200		3,200.00
CC 102	cellFAKE	lb	101		373.70
CC 109	blower deflated	lb	940		987.00
CF 105	TOP Ribbon Plug 8 5/8	SA	1		275.00
E 100	Deck m	m	75		337.50
E 101	Heavy cont m	m	150		1,125.00
E 113	Bulk Poly m	Tm	1410		2,525.00
PE 201	Depth display - 1000'	SA	1		1,200.00
PE 240	Blending machine	sk	400		560.00
PE 304	Plug Cement material	SA	1		250.00
S 003	Service Supervisor	SA	1		175.00
SUB TOTAL					15,556.20

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		11,979.81

SERVICE REPRESENTATIVE: Robert Sullivan	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Brandon Willis
FIELD SERVICE ORDER NO.:	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Customer <i>L.D. Drilling</i>	Lease No.	Date <i>11/04/14</i>	
Lease <i>BARNES</i>	Well # <i>1-21</i>	Field Order # <i>1180</i>	County <i>BARTON</i>
Station <i>PRA-HAVILK</i>	Casing <i>8 5/8</i>	Depth <i>917'</i>	State <i>KS</i>
Type Job <i>CNW 8 5/8 surface</i>	Formation	Legal Description <i>21-18-14</i>	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
<i>8 5/8</i>							
Depth <i>917</i>	Depth	From	To	Pre Pad	Max		5 Min.
Volume <i>57</i>	Volume	From	To	Pad	Min		10 Min.
Max Press <i>1000</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>817</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert Sullivan</i>
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Service Units	<i>3900</i>	<i>27463</i>	<i>19889</i>	<i>19802</i>					
Driver Names	<i>Will</i>	<i>Frank</i>	<i>Phyllis</i>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>10:45</i>					<i>on loc</i>
					<i>Run 8 5/8 cas.</i>
					<i>CASING ON BOTTOM</i>
<i>12:20</i>					<i>Hook up casing</i>
<i>12:35</i>			<i>3</i>	<i>3.5</i>	<i>SPACER</i>
			<i>88</i>	<i>4.5</i>	<i>mix cont 200 st A-con @ 12ppg 3%cc 1/4 ct</i>
			<i>42</i>		<i>mix tail cont 200 st con 2%cc 1/4 ct</i>
					<i>cont mix (E) shut down</i>
					<i>Release Plug</i>
				<i>4</i>	<i>st disp</i>
<i>1:30</i>			<i>57</i>		<i>plug down</i>
					<i>CIRC 15 BBL cont Pit</i>
					<i>SOB complete</i>
					<i>Thank you</i>