



KANSAS CORPORATION COMMISSION 1159653
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

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



1159653

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

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

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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
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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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	LYLE 1-14
Doc ID	1159653

Tops

Name	Top	Datum
ANHYDRITE	505	+1254
BASE ANHYDRITE	517	+1242
HEEBNER	2884	-1125
TORONTO	2900	-1141
DOUGLAS	2916	-1157
BROWN LIME	3006	-1247
LANSING	3030	-1271
BASE KANSAS CITY	3261	-1502
ARBUCKLE	3281	-1522

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	LYLE 1-14
Doc ID	1159653

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
SURFACE	12.25	8.625	24	384	A-CONN BLEND	175	3%CC, 1/4#CF
SURFACE - CONT	12.25	8.625	24	384	COMMON	175	2%CC, 1/4#CF
PRODUCTION	7.875	5.5	15.5	3399	COMMON	150	18% Salt
RATHOLE	7.875	5.5	15.5	3399	60/40 POZMIX	30	



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	Well Name	Lyle #1-14
Well Operator	LD Drilling	Unique Well ID	DST #1 Lansing "A-F" 3006'-3100'
Contact	LD Davis	Surface Location	Sec 14-20s-11w-Barton Co.-KS
Site Contact	Kurt Talbott	Test Unit	#5
Field	Chase Silica	Pool	NA
Well Type	Vertical	Job Number	F141
Prepared By	Jake Fahrenbruch	Qualified By	Kurt Talbott

Test Information

Test Type	Conventional Bottom-Hole	Test Purpose	Initial Test
Formation	Lansing "A-F" 3006'-3100'	Gauge Name	0062
Start Test Date	2013/06/29	Start Test Time	12:37:00
Final Test Date	2013/06/29	Final Test Time	17:37:00

Test Results

30 min initial flow period: Surface blow, increased to 2.5" in bucket.
 30 min initial shut-in period: No blowback.
 30 min final flow period: 1" blow, increased to 2.5" in bucket.
 30 min final shut-in period: No blowback.

Recovered: 30' Drilling Mud 100% mud
 -----60' Gas In Pipe
 -----Tool Sample: 100% mud
 -----Bottom-Hole Temperature: 97 Deg F

Pressures:
 IHP: 1453
 IFP: 11-20
 ISIP: 61
 FFP: 16-20
 FSIP: 55
 FHP: 1450



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: lyle1dst1

TIME ON: 12:37
TIME OFF: 17:37

Company LD Drilling Lease & Well No. Lyle #1-14
Contractor Petromark Drilling, Rig #2 Charge to LD Drilling
Elevation 1759' KB Formation Lansing "A-F" Effective Pay _____ Ft. Ticket No. F141
Date 6.29.2013 Sec. 14 Twp. 20 S Range 11 W County Barton State KANSAS
Test Approved By Kurt Talbott Diamond Representative Jake Fahrenbruch

Formation Test No. 1 Interval Tested from 3006 ft. to 3100 ft. Total Depth 3100 ft.
Packer Depth 3001 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3006 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 2991 ft. Recorder Number 0062 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3097 ft. Recorder Number 11033 Cap. 5,150 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 51 Drill Collar Length 120 ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 9.6 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 5000 P.P.M. Drill Pipe Length 2861 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number NA Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 94 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 28' perf in anchor Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Surface blow, increased to 2.5" in bucket. No blowback.

2nd Open: 1" blow, increased to 2.5" in bucket. No blowback.

Recovered <u>30</u> ft. of <u>Drilling Mud</u>	<u>100%</u> mud
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: <u>Tool Sample: 100% mud</u>	
	Price Job
	Other Charges
	Insurance
	Total

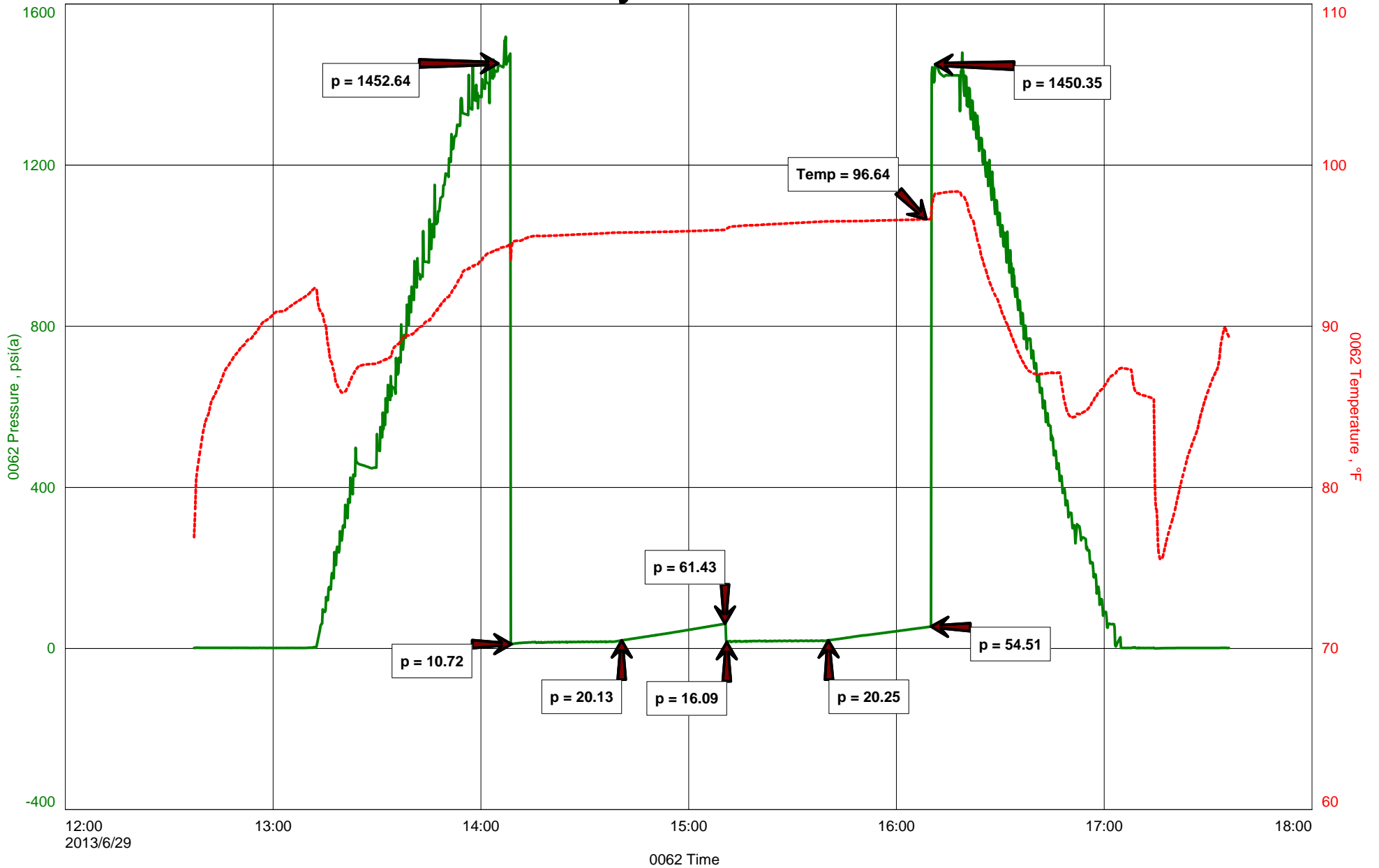
Time Set Packer(s) 14:10 A.M. P.M. Time Started Off Bottom 16:10 A.M. P.M. Maximum Temperature 97 Deg F
Initial Hydrostatic Pressure..... (A) 1453 P.S.I.
Initial Flow Period..... Minutes 30 (B) 11 P.S.I. to (C) 20 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 61 P.S.I.
Final Flow Period..... Minutes 30 (E) 16 P.S.I. to (F) 20 P.S.I.
Final Closed In Period..... Minutes 30 (G) 55 P.S.I.
Final Hydrostatic Pressure..... (H) 1450 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.

LD Drilling
DST #1 Lansing "A-F" 3006'-3100'
Start Test Date: 2013/06/29
Final Test Date: 2013/06/29

Lyle #1-14
Formation: Lansing "A-F" 3006'-3100'
Pool: NA
Job Number: F141

Lyle #1-14





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	Well Name	Lyle #1-14
Well Operator	LD Drilling	Unique Well ID	DST #2 Lansinh "H,I,J" 3132'-3220'
Contact	LD Davis	Surface Location	Sec 14-20s-11w-Barton Co.-KS
Site Contact	Kurt Talbott	Test Unit	#5
Field	Chase Silica	Pool	NA
Well Type	Vertical	Job Number	F142
Prepared By	Jake Fahrenbruch	Qualified By	Kurt Talbott

Test Information

Test Type	Conventional Bottom-Hole	Test Purpose	Initial Test
Formation	Lansing "H,I,J" 3132'-3220'	Gauge Name	0062
Start Test Date	2013/06/30	Start Test Time	05:42:00
Final Test Date	2013/06/30	Final Test Time	10:29:00

Test Results

30 minute initial flow period: Surface blow, increased to 2.5" in bucket.
 30 minute initial shut-in period: No Blowback.
 30 minute final flow period: 1.5" blow, increased to 3.5" in bucket.
 30 minute final shut-in period: No Blowback.

Recovered: 25' Drlg Mud 100% mud
 ---- +/- 60' Gas In Pipe
 ---- Tool Sample: Drlg Mud w/trace show oil (less than 1% oil)
 ---- Bottom-Hole Temperature: 98 Deg F

Pressures: IHP: 1534
 IFP: 11-20
 ISIP: 75
 FFP: 17-21
 FSIP: 55
 FHP: 1528



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: lyle1dst2

TIME ON: 05:42
TIME OFF: 10:29

Company LD Drilling Lease & Well No. Lyle #1-14
Contractor Petromark Drilling, Rig #2 Charge to LD Drilling
Elevation 1759' KB Formation Lansing "H,I,J" Effective Pay _____ Ft. Ticket No. F142
Date 6.30.2013 Sec. 14 Twp. 20 S Range 11 W County Barton State KANSAS
Test Approved By Kurt Talbott Diamond Representative Jake Fahrenbruch

Formation Test No. 2 Interval Tested from 3132 ft. to 3220 ft. Total Depth 3220 ft.
Packer Depth 3127 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3132 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3117 ft. Recorder Number 0062 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3217 ft. Recorder Number 11033 Cap. 5,150 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 51 Drill Collar Length 120 ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 9.6 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 5000 P.P.M. Drill Pipe Length 2987 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number NA Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 88 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: Surface blow, increased to 2.5" in bucket. No blowback.
2nd Open: 1.5" blow, increased to 3.5" in bucket. No blowback.

Recovered 25 ft. of Drlg Mud 100% mud
Recovered _____ ft. of +/- 60' Gas In Pipe
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>Tool Sample: Drlg Mud w/trace show of oil (less than 1% oil)</u>	Insurance
	Total

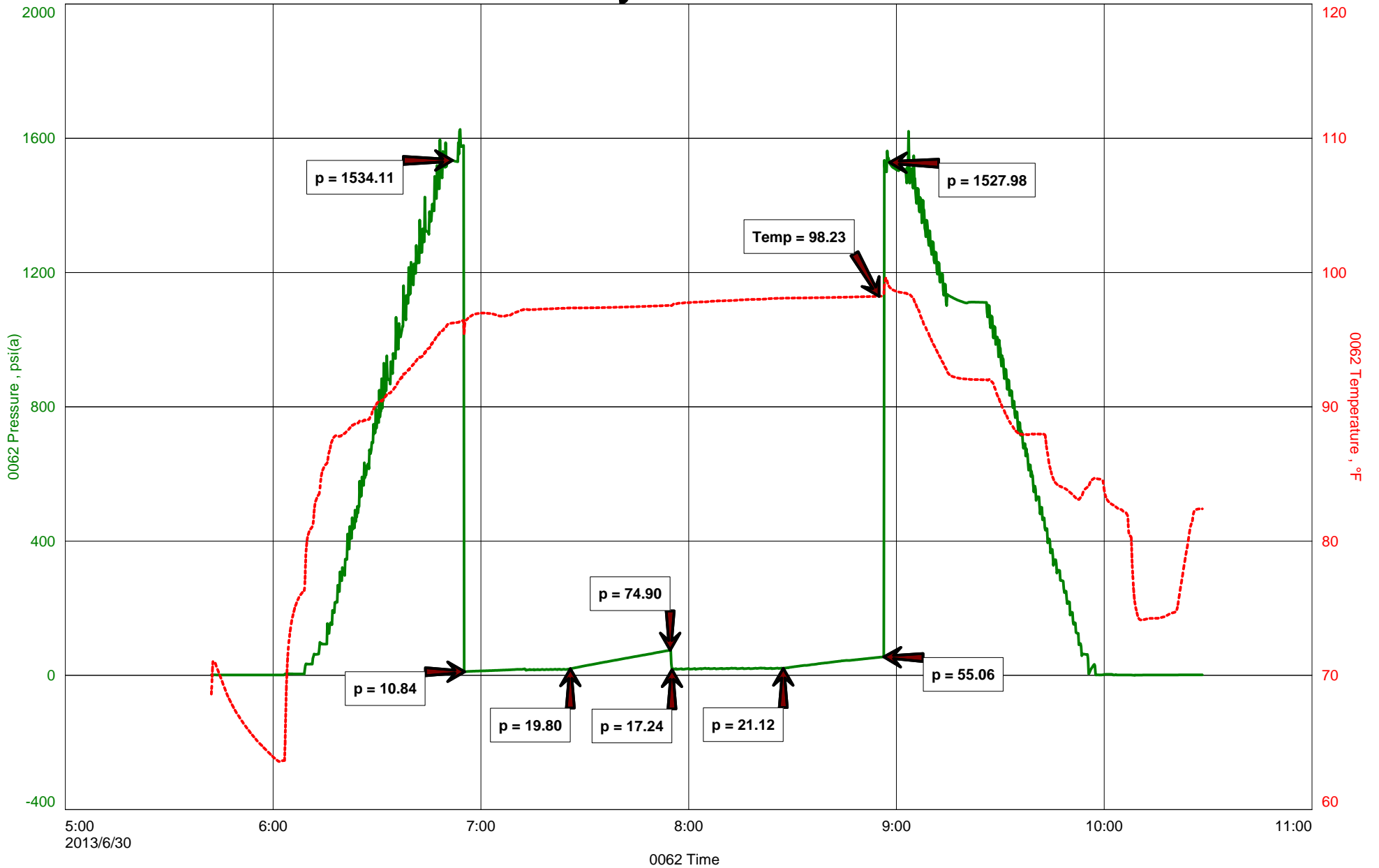
Time Set Packer(s) 06:55 A.M. P.M. Time Started Off Bottom 08:55 A.M. P.M. Maximum Temperature 98 Deg F
Initial Hydrostatic Pressure..... (A) 1534 P.S.I.
Initial Flow Period..... Minutes 30 (B) 11 P.S.I. to (C) 20 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 75 P.S.I.
Final Flow Period..... Minutes 30 (E) 17 P.S.I. to (F) 21 P.S.I.
Final Closed In Period..... Minutes 30 (G) 55 P.S.I.
Final Hydrostatic Pressure..... (H) 1528 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.

LD Drilling
DST #2 Lansinh "H,I,J" 3132'-3220'
Start Test Date: 2013/06/30
Final Test Date: 2013/06/30

Lyle #1-14
Formation: Lansing "H,I,J" 3132'-3220'
Pool: NA
Job Number: F142

Lyle #1-14





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	Well Name	Lyle #1-14
Well Operator	LD Drilling	Unique Well ID	DST #2 Arbuckle 3276'-3289'
Contact	LD Davis	Surface Location	Sec 14-20s-11w-Barton Co.-KS
Site Contact	Kurt Talbott	Test Unit	#5
Field	Chase Silica	Pool	NA
Well Type	Vertical	Job Number	F143
Prepared By	Jake Fahrenbruch	Qualified By	Kurt Talbott

Test Information

Test Type	Conventional Bottom-Hole	Test Purpose	Initial Test
Formation	Arbuckle 3276'-3289'	Gauge Name	0062
Start Test Date	2013/06/30	Start Test Time	21:08:30
Final Test Date	2013/07/01	Final Test Time	04:26:00

Test Results

30 minute initial flow period:	B.O.B. in 6.5 minutes.
45 minute initial shut-in period:	Blowback @ B.O.B. in 12 minutes.
45 minute final flow period:	B.O.B. in 9.5 minutes.
60 minute final shut-in period:	Blowback increased to 3" in bucket.

600' Total Recovered Fluid:

360'	Clean Oil	100% oil
120'	GCWMO	20% gas, 30% oil, 25% wtr, 25% mud
120'	OMCW	10% oil, 80% wtr, 10% mud
-----	600' Gas In Pipe	
-----	Tool Sample: WCO	10% wtr, 90% oil
-----	Gravity: 37 (corrected)	
-----	Chlorides: 1,100 PPM	
-----	RW: .42 ohm @ 60 Deg F	
-----	PH: 8.0	
-----	Bottom-Hole Temperature: 107 Deg F	

Pressures:

IHP:	1614
IFP:	17-132
ISIP:	1055
FFP:	133-234
FSIP:	1042
FHP:	1611



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: lyle1dst3

TIME ON: 21:08
TIME OFF: 04:26 (7-1-13)

Company LD Drilling Lease & Well No. Lyle #1-14
Contractor Petromark Drilling, Rig #2 Charge to LD Drilling
Elevation 1759' KB Formation Arbuckle Effective Pay _____ Ft. Ticket No. F143
Date 6.30.2013 Sec. 14 Twp. 20 S Range 11 W County Barton State KANSAS
Test Approved By Kurt Talbott Diamond Representative Jake Fahrenbruch

Formation Test No. 3 Interval Tested from 3276 ft. to 3289 ft. Total Depth 3289 ft.
Packer Depth 3271 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3276 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3261 ft. Recorder Number 0062 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3286 ft. Recorder Number 11033 Cap. 5,150 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 49 Drill Collar Length 120 ft. I.D. 2 1/4 in.
Weight 8.8 Water Loss 9.6 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 9000 P.P.M. Drill Pipe Length 3131 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number NA Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 13 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: B.O.B. in 6.5 minutes. Blowback @ B.O.B. in 12 minutes.
2nd Open: B.O.B. in 9.5 minutes. Blowback increased to 3" in bucket.

Recovered 360 ft. of Clean Oil 100% oil
Recovered 120 ft. of GCMWO 20% gas, 30% oil, 25% wtr, 25% mud
Recovered 120 ft. of OMCW 10% oil, 80% wtr, 10% mud
Recovered _____ ft. of 600' Gas In Pipe

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>Total Recovered Fluid: 600'</u>	Insurance
Tool Sample: <u>WCO 10% wtr, 90% oil</u>	
Chlorides: <u>1,100 PPM // RW: .42 ohm @ 60 Deg F // PH: 8.0 // Gravity: 37 (corrected)</u>	Total

Time Set Packer(s) 22:28 A.M. P.M. Time Started Off Bottom 01:28 A.M. P.M. Maximum Temperature 107 Deg F

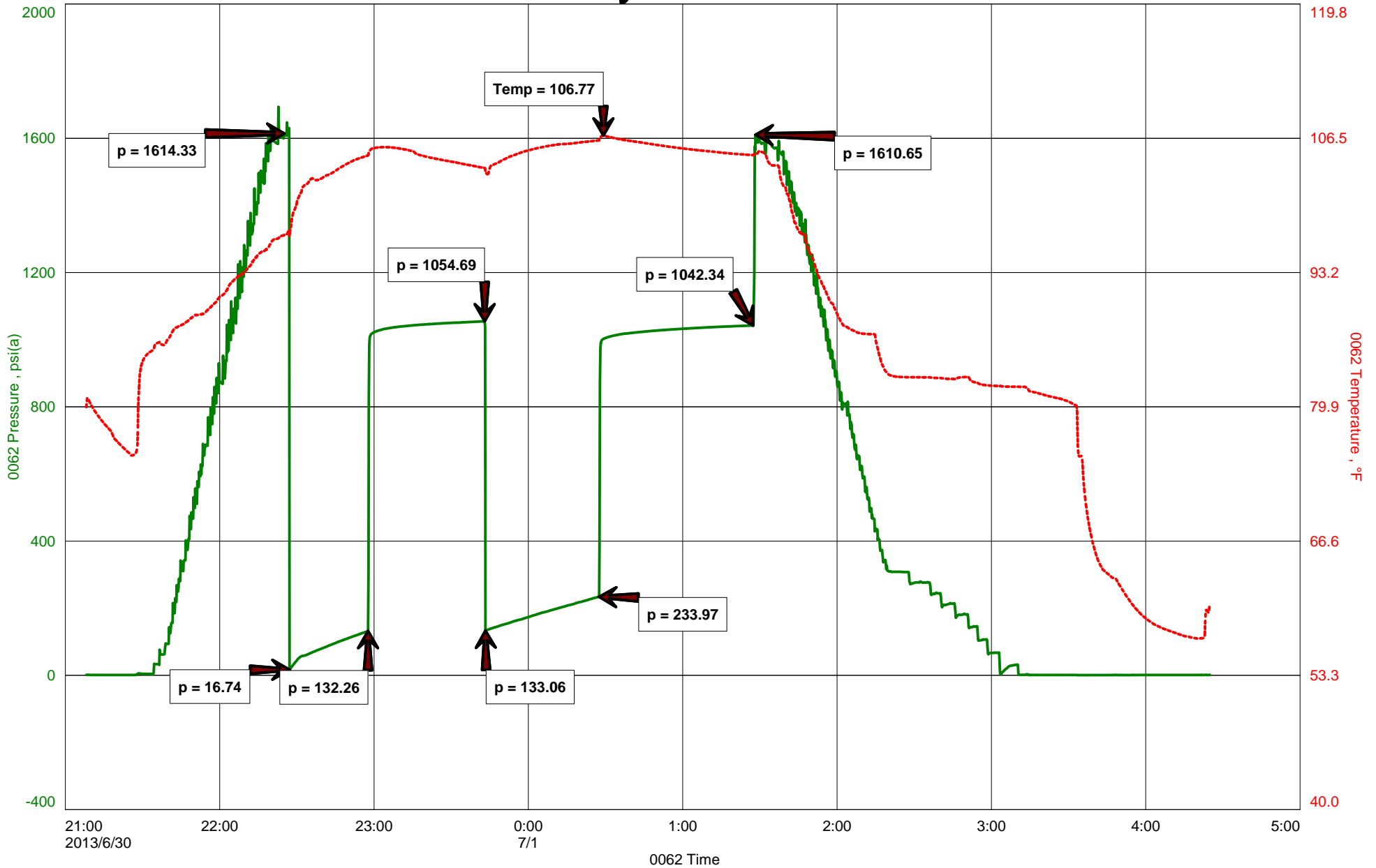
Initial Hydrostatic Pressure..... (A) 1614 P.S.I.
Initial Flow Period..... Minutes 30 (B) 17 P.S.I. to (C) 132 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1055 P.S.I.
Final Flow Period..... Minutes 45 (E) 133 P.S.I. to (F) 234 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1042 P.S.I.
Final Hydrostatic Pressure..... (H) 1611 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.

LD Drilling
DST #2 Arbuckle 3276'-3289'
Start Test Date: 2013/06/30
Final Test Date: 2013/07/01

Lyle #1-14
Formation: Arbuckle 3276'-3289'
Pool: NA
Job Number: F143

Lyle #1-14





James C. Musgrove
Petroleum Geologist

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

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY LD Drilling
LEASE Lyle #1-14
FIELD Chase-Silica
LOCATION se-nw-nw-nw (4701' FSL, 554' FWL)
SEC 14 TWP 20S RGE 11W
COUNTY Barton STATE Kansas

ELEVATIONS
KB: 1759
DF: _____
GL: 1754
Measurements Are All From KB

CONTRACTOR Petromark Drilling Rig #2
SPUD June 25, 2013 COMP July 1, 2013
RTD 3400 LTD 3401
MUD UP 2600 TYPE MUD Chemical displaced

CASING SURFACE 8 7/8" @ 389'
PRODUCTION 5 1/2" @ 3400'
ELECTRICAL SURVEYS
By Pioneer DFL, CNL/CDL, micro

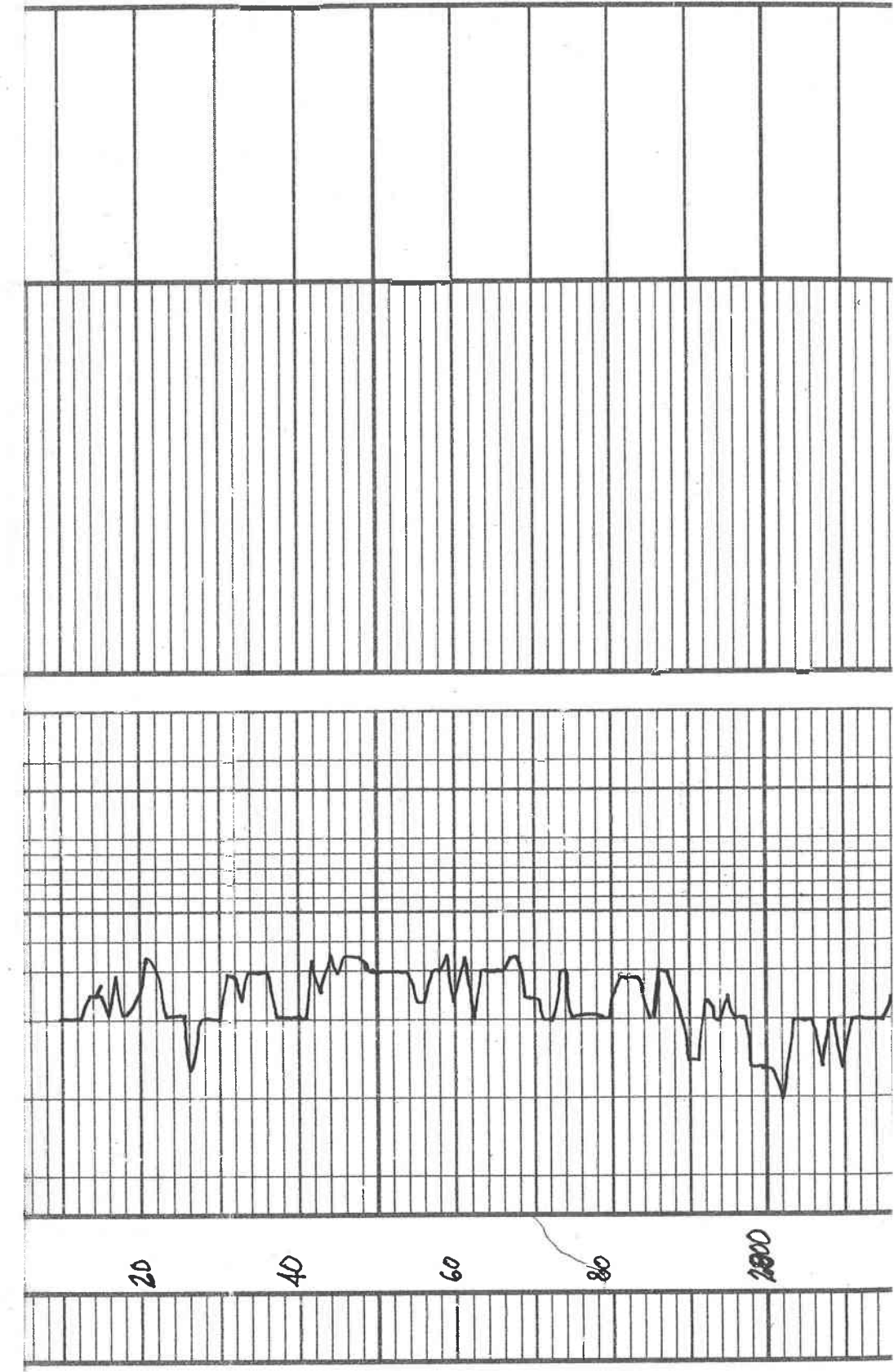
SAMPLES SAVED FROM 2800 TO _____
DRILLING TIME KEPT FROM 2700 TO _____
SAMPLES EXAMINED FROM 2800 TO _____
GEOLOGICAL SUPERVISION FROM 2950 TO _____
GEOLOGIST ON WELL Kurt Talbott & James C. Musgrove

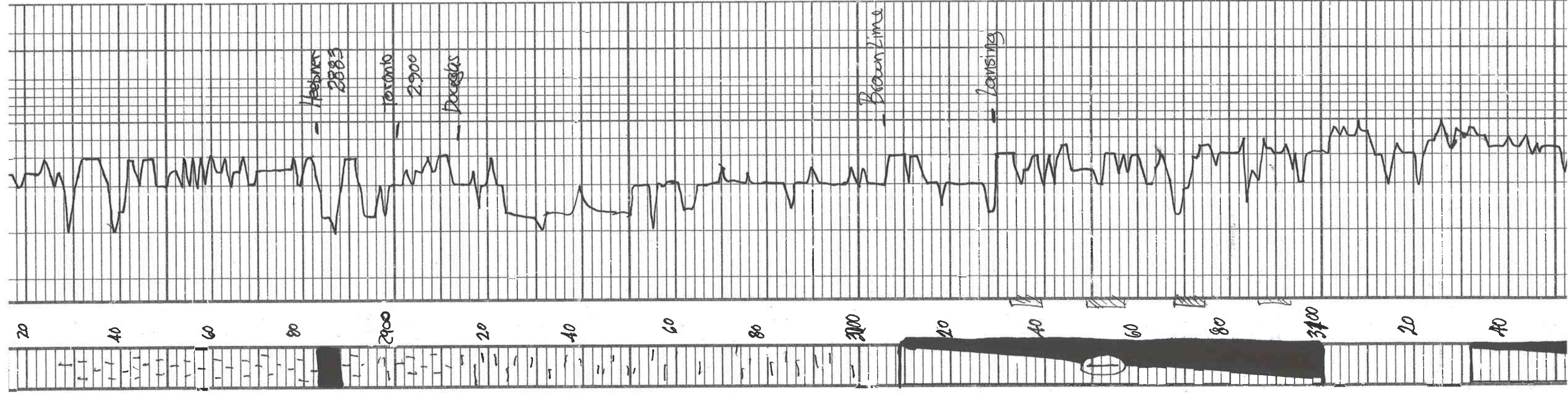
FORMATION TOPS	LOG	SAMPLES
anhydrite	505 +1254	
Base anhydrite	517 +1242	
Heebner	2884 -1125	
Toronto	2900 -1141	
Douglas	2916 -1157	
Brown lime	3006 -1247	
Wanating	3030 -1271	
Base Kansas City	3261 -1502	
Arbuckle	3281 -1522	
RTD	3400 -1641	
WTD	3401 -1642	

REMARKS

5 1/2" production casing was set & cemented on the Lyle #1-A.
Respectfully submitted,
Kurt Talbott & James C. Musgrove
Petroleum Geologist

2700





LS-grey/blk, silt, few fossils, poor ppt to 100' depth, chalky

LS-grey/blk, silt, fossils, very poor source of chalky.

Black Carbon Shale

LS-grey/blk, silt, fossils, coarse N. pores

Shale-grey/blk-silty, mica

Trace - Sarsa - lg-grey/blk poor inter grain, friable NFO

Shale-maroon/grey/blk

~ ~ ~

A/H

~ ~ ~

LS-tan/blk, few fossils, silt, coarse, poor ppt, by ~ ~ ~

LS-crm/blk, silt, fossils, porous, chalky

LS-crm/blk, silt, oil, fossils, poor ppt to 100' depth, dark bluish to silty sh, tan to blk, fine

~ ~ ~

LS-crm/blk, silt, oil, porous, trace fossils, N. pores, Fracture.

LS-tan/grey/blk, silt, oil, fossils, sec. poor, tan to blk, dark bluish, mica, color.

LS-crm/blk, silt, oil, poor-ppt, thin oil, coarse, chalky

~ ~ ~

LS-crm/blk, silt, oil, poor-ppt

DST # 1 3006-3100
30-30-30-30
Blow weak (2 1/2")
2nd opening, weak (2 1/2")
Recovery: 60' Gas in pipe
90' mud
PRESSURE: IS: P 61 psf
FS: P 55 "I"
TYP 11-20 "I"
SEP 16-20 "I"
MSM
1453-1450

DST # 2 3132-3220
30-30-30-30-30
Blow weak (2 1/2")
2nd opening, weak (3 1/2")
Recovery: 60' Gas in pipe
95' mud
PRESSURE: IS: P 75 psf
FS: P 55 "

J 2/155' n
 H 11-20"
 S 17-21"
 MSK
 1534-1528'

LS-bankm. fsh fossils poor
 ppt to mch of cherty
 sh

LS-ambery fsh, oil, poor in
 bed to mch of trace bluish
 sh. Fr odor

LS-wat/hty, fsh, oil fossils
 poor in part of greenish sh
 sh, fractured, etc.

LS-hty/m, sh, oil, dense
 fossilifer

??

LS-am/ten, fsh, dense
 fossilifer. Shale - brown/gm

??

LS-gry/ten, fsh, dense
 fossilifer

AA - Trace sh, MSF

??

Trace br-wat/hty, f-m, brown, iron
 sh, SFO

pot wat/hty, f-m, brown, iron
 sh, SFO, good odor

oil, wat/hty, m, sh, f
 good sh, x. light, brown

light brown sh, SFO, odor

oil, few siltstone (room)

good sh - brown, brown
 brown/siltstone, SFO, odor

??

??

oil, wat/hty, m, sh, f
 sh, SFO, brown - brown

sh, SFO, f, g, odor

??

oil, brown, wat/hty, sub-ambery
 sh, SFO, f, g, odor

??

??

??

??

DST # 3 3276-3289
 30-45-45-60
 Blow string (BOB 6/min)
 and opening string (BOB 9 min)
 Recovery: 600 gas in pi
 360 clean oil
 (order) 120' oil & gas
 cut muddy water
 (2070 gal, 30700L)
 25% water
 25% mud
 120' oil cut
 muddy water
 (1070 gal, 8070L)
 10% mud
 PRESSURES
 ISIP 1055 PA
 SSIP 1042 "
 ISIP 11-132 "
 ISIP 133-234 "
 MSK
 1614
 -1611

odor

odor

odor

odor

odor

odor

60 80 120 20 40 60 80 3300 20 40 60 80 3400

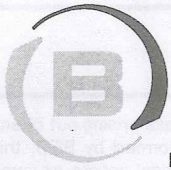
(A)

(B)

Base Kansas
 City 3261
 (-1502)

Arbuckle
 3283
 (-1524)

RTD 3400 - 1641



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 08384 A

DATE _____ TICKET NO. _____

DATE OF JOB 07-01-13 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 LYLE 1-14 WELL NO.:							
ADDRESS		COUNTY BARTON STATE KS							
CITY STATE		SERVICE CREW Sullivan, Morrow, Pyle							
AUTHORIZED BY		JOB TYPE: CROW 5 1/2 Long String							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
3370B-20920	40	md					7-1-13	AM	1:30
70959-19918	40	md				ARRIVED AT JOB		AM	7:20
37900						START OPERATION		PM	10:20
						FINISH OPERATION		AM	11:00
						RELEASED		PM	11:45
						MILES FROM STATION TO WELL			50

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: *Jim Mickel*
(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		2,400.00
CP 103	60/40 cmt	SK	30		360.00
CC 105	C-41 Deformer	lb	36		144.00
CC 111	SALT	lb	1216		608.00
CC 112	cmt fraction Reducer	lb	106		636.00
CC 113	Gypsum	lb	705		528.75
CC 201	gilsonite	lb	750		502.50
CF 103	Top Rubber Plug 5 1/2	SA	1		105.00
CF 251	Slide Shoe	SA	1		250.00
CF 1451	INSERF Float	SA	1		215.00
CF 1451	Tanbolizec	SA	6		660.00
CC 159	Flow Seal	gal	330		1,980.00
E 100	rule rd	mi	50		212.50
E 101	Heavy Foot	md	100		700.00
E 113	Bank Delay	TM	418		668.00
CE 204	Depth change	SA	1		2,160.00
CE 240	Blending - mixing	SK	180		252.00
CE 504	Plug Contain Perfor	SA	1		250.00
S003	Sealant Superlime	SK	1		175.00

SUB TOTAL **HC** 9,605.06

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE *Robert J. Miller*
FIELD SERVICE ORDER NO. _____

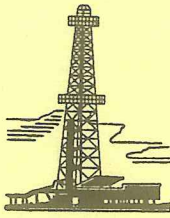
THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *Jim Mickel*
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Customer <i>L.D. Drilling</i>	Lease No.	Date <i>07-01-13</i>
Lease <i>LYLF</i>	Well # <i>1-14</i>	
Field Order # <i>8384</i>	Station <i>PRATT KS</i>	Casing <i>5 1/2</i>
	Depth <i>3401</i>	County <i>BARTON</i>
Type Job <i>CNW 5 1/2 long string</i>	Formation	Legal Description <i>14-20-11</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>5 1/2</i>				Pre Pad	Max		5 Min.	
Depth <i>3401</i>	Depth	From	To	Pad	Min		10 Min.	
Volume <i>80.7</i>	Volume	From	To	Frac	Avg		15 Min.	
Max Press <i>1500</i>	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection <i>P.C.</i>	Annulus Vol.	From	To	Flush	Gas Volume		Total Load	
Plug Depth <i>3391'</i>	Packer Depth	From	To					

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert Sullivan</i>
Service Units <i>37900 33708 20920 70959 19918</i>		
Driver Names <i>Sullivan Melhorn Phye</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>0720</i>					<i>on loc safety meeting</i>
					<i>Run 76 JTS 5 1/2 15.5 csg.</i>
<i>9:25</i>					<i>CASING ON BOTTOM</i>
<i>9:35</i>					<i>Hook Rig circ. csg.</i>
<i>10:20</i>	<i>100</i>		<i>5</i>	<i>3.5</i>	<i>st SPACER</i>
			<i>8</i>		<i>st Sodium Silicate</i>
			<i>5</i>		<i>SPACER</i>
				<i>4.5</i>	<i>mix emt 150 sk AA-2 emt @ 15.5 PPG.</i>
			<i>37</i>		<i>emt mix-d shot down. wash, pump, line</i>
					<i>Release Plug</i>
				<i>5.5</i>	<i>st Disp</i>
	<i>250</i>		<i>58</i>		<i>lift Ps.</i>
	<i>450</i>		<i>70</i>	<i>2.5</i>	<i>slow rate</i>
<i>1:300</i>	<i>1300</i>		<i>81</i>		<i>Plug down</i>
			<i>7</i>		<i>plug R.H w/ 30sk</i>
					<i>JOB Complete</i>
					<i>Thank you</i>



Petromark Drilling

PIPE TALLY

3725-3289
3226
TD-3400
LTD-3401

CUSTOMER RD DATE _____

CARRIER _____ /B.L.# _____ CUST. ORDER NO. _____

STORE LOCATION _____ P.O.# _____ LOCATION: _____

SIZE _____ 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	13	17	26	45	15	51	45	11	76	45	17	101			126			151			176		
2	45	15	27	45	15	52	45	12	77	45	12	102	OUT		127			152			177		
3	45	15	28	45	08	53	45	12	78	45	16	103	OUT		128			153			178		
4	45	12	29	45	16	54	45	15	79	45	15	104	OUT		129			154			179		
5	45	17	30	45	13	55	45	11	80	10	60	105	SHOE		130			155			180		
6	45	19	31	45	05	56	45	12	81			106			131			156			181		
7	45	13	32	45	16	57	45	15	82			107			132			157			182		
8	45	17	33	45	04	58	45	14	83			108			133			158			183		
9	45	17	34	45	13	59	45	08	84			109			134			159			184		
10	45	15	35	45	16	60	45	17	85			110			135			160			185		
11	45	13	36	44	43	61	45	12	86			111			136			161			186		
12	45	15	37	45	14	62	45	16	87			112			137			162			187		
13	45	17	38	45	13	63	45	15	88			113			138			163			188		
14	45	13	39	45	13	64	45	15	89			114			139			164			189		
15	45	12	40	45	15	65	45	14	90			115			140			165			190		
16	45	15	41	45	14	66	45	13	91			116			141			166			191		
17	45	15	42	44	77	67	45	12	92			117			142			167			192		
18	45	13	43	45	15	68	45	14	93			118			143			168			193		
19	45	16	44	45	15	69	45	16	94			119			144			169			194		
20	45	12	45	45	16	70	45	12	95			120			145			170			195		
21	45	15	46	45	13	71	45	14	96			121			146			171			196		
22	45	16	47	45	12	72	45	15	97			122			147			172			197		
23	45	10	48	45	11	73	45	15	98			123			148			173			198		
24	45	14	49	45	09	74	45	13	99			124			149			174			199		
25	45	15	50	45	16	75	45	10	100			125			150			175			200		
Total	1096	68		1127	17		1128	33		191	20												

NO. JOINTS 80

TALLIED BY _____

FOOTAGE _____ TOTAL 3543.38 FT. _____

RECEIVED BY _____

RUN 76 JTS 5 1/2 15.5# = 3394.78

TD-3400'

LAND JT = 10.00

3404.78

JTS OUT LTD-3401'

SHOE JT = 10.60

INWSET = 3394.18

#1 - 13.17'

#77 - 45.12'

#78 - 45.16'

#79 - 45.15'

SET 5 1/2 AT 3399', PUC AT 3389'

CENT - 1-3-4-6-8-10

DST#3-3276'-3289' 450' OR



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 08661 A

DATE _____ TICKET NO. _____

DATE OF JOB 6-26-13 DISTRICT Pratt		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:								
CUSTOMER LD Drilling inc		LEASE L41e		WELL NO. 1-14						
ADDRESS		COUNTY Barton		STATE KS						
CITY STATE		SERVICE CREW MATTAI/melhuir/44-71								
AUTHORIZED BY		JOB TYPE: S.P. CWU								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
37216	1						6-26-13			2:30
						ARRIVED AT JOB				5:30
33708/20920	1					START OPERATION				7:20
						FINISH OPERATION				8:20
19826/19860	1					RELEASED				9:00
						MILES FROM STATION TO WELL				50

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

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

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP101	B-con blend common	SK	175		2,150 00
CP100C	COMMON cement	SK	175		2,400 00
CC102	COLLOIDAL	LB	88		328 60
CC109	Calcium chloride	LB	825		866 25
CF-153	WOODEN Plug 8 9/16	EA	1		160 00
E100	P.H. MILEAGE	ME	500		212 50
E101	HEAVY EQ. MILEAGE	ME	100		700 00
E113	PROPANE + Bulk delivery charge	TAM	425		1,320 00
CE200	DEPTH charge 0-500'	4hr	1		1,000 00
CE240	BLEND + MIX charge	SK	350		490 00
CE504	Plug container utilization charge	JOB	1		250 00
5003	Service supervisor first 8 hrs	EA	1		175 00
SUB TOTAL					8,587 01

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE Mike MAITAI	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>X [Signature]</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
---	---

FIELD SERVICE ORDER NO.

Customer LD Drilling inc.	Lease No.	Date 6-26-13
Lease LYLE	Well # 1-14	
Field Order # 8661	Station PRATT	Casing 379.4 Depth 384 County BATON State KS
Type Job CNW S.P.	Formation	Legal Description 14-20-11

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
4 7/8				CMF A-CO₂				
Depth 384	Depth	From	To	Pre Pad 2.47 yd	Max 3% cc	1/4 4 ct	5 Min.	
Volume 24.46	Volume	From	To	Pad CMF COMMON	Min		10 Min.	
Max Press 300	Max Press	From	To	Frac 1.20 yd	Avg 2% cc	1/4 ct	15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 364	Packer Depth	From	To	Flush 23	Gas Volume		Total Load	

Customer Representative JIM	Station Manager GOUDLEY	Treater MATT
------------------------------------	--------------------------------	---------------------

Service Units	37216	33708	20920	19280	19860				
Driver Names	MATT	MELHORN		WHEMIN					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:45					TRUCKS ON LOCATION / SARRY MEETING
					8 5/8 ON BOTTOM
					HOOK UP TO CSNG. Break circ v. Rig
7:20	300			6	MIX 175 SKS A-CO ₂
7:36	100		80	6	MIX 175 SKS COMMON
7:47			120		Release Plugs
7:50			140	5	DISPLACE WITH H ₂ O
7:57				3	SLOW RATE
8:00	200		143		SHUT IN WELL W
					23 BBLs TO PIT
					CIRC THRU JOB
					JOB COMPLETE
					THANK
					MIKE MATT