



KANSAS CORPORATION COMMISSION 1160250
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: _____



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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	HEJNY 1-23
Doc ID	1160250

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	HEJNY 1-23
Doc ID	1160250

Tops

Name	Top	Datum
TOPEKA	2937	-947
QUEEN HILL	3076	-1086
PLATTSMOUTH	3109	-1119
HEEBNER	3166	-1176
TORONTO	3184	-1194
DOUGLAS	3199	-1209
LANSING	3233	-1243
LANSING G	3323	-1333
BASE KANSAS CITY	3451	-1461
CONGLOMERATE	3461	-1471
ARBUCKLE	3488	-1498



Diamond Testing General Report

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

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

General Information

Company Name	LD Drilling Inc.	Well Name	Hejny #1-23
Well Operator	LD Drilling Inc.	Unique Well ID	DST #1 Plattsmouth 3094'-3118'
Contact	LD Davis	Surface Location	Sec 23-16s-15w-Barton Co.-KS
Site Contact	Kieth Reavis	Test Unit	#5
Field	NA	Pool	NA
Well Type	Vertical	Job Number	F153
Prepared By	Jake Fahrenbruch	Qualified By	Kieth Reavis

Test Information

Test Type	Conventional Bottom-Hole	Test Purpose	Initial Test
Formation	Plattsmouth 3094'-3118'	Gauge Name	0062
Start Test Date	2013/07/28	Start Test Time	21:39:00
Final Test Date	2013/07/29	Final Test Time	04:54:00

Test Results

30 minute initial flow period:	Surface blow, increased to 2" in bucket.
45 minute initial shut-in period:	No blow.
90 minute final flow period:	Surface blow, increased to 2.75" in bucket.
45 minute final shut-in period:	No blow.

Recovered: 85' Muddy Water 65% wtr, 35% mud
 ----- Chlorides: 16,000 PPM
 ----- RW: .3 ohm @ 63 Deg F
 ----- PH: 9.0
 ----- Tool Sample: Muddy Water
 ----- Bottom-Hole Temp: 93 Deg F

Pressures: IHP: 1453
 IFP: 9-23
 ISIP: 973
 FFP: 21-47
 FSIP: 893
 FHP: 1452

Thank you!



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HEJNY1DST1

TIME ON: 9:39 PM (28th)
TIME OFF: 4:54 AM (29th)

Company LD Drilling Inc. Lease & Well No. Hejny #1-23
Contractor Petromark Drilling Rig #2 Charge to LD Drilling Inc.
Elevation 1990' KB Formation Plattsmouth Effective Pay _____ Ft. Ticket No. F153
Date 7.29.13 Sec. 23 Twp. _____ 16 S Range _____ 15 W County Barrton State KANSAS
Test Approved By Kieth Reavis Diamond Representative Jake Fahrenbruch

Formation Test No. ONE Interval Tested from 3094 ft. to 3118 ft. Total Depth 3118 ft.
Packer Depth 3089 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3094 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3079 ft. Recorder Number 0062 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3115 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 62 Drill Collar Length 120 ft. I.D. 2 1/4 in.
Weight 8.9 Water Loss 8.0 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 3,000 P.P.M. Drill Pipe Length 2949 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 24 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" in bucket.

2nd Open: Surface blow, increased to 2.75" in bucket.

Recovered 85 ft. of Muddy Water 65% wtr, 35% mud

Recovered _____ ft. of Chlorides: 16,000 PPM

Recovered _____ ft. of RW: .3 ohm @ 63 Deg F

Recovered _____ ft. of PH: 9.0

Recovered _____ ft. of Tool Sample: Muddy Water

Recovered _____ ft. of _____

Remarks: _____

Price Job

Other Charges

Insurance

Total

Time Set Packer(s) 11:30 PM (28th) ^{A.M.}/_{P.M.} Time Started Off Bottom 3:00 AM (29th) ^{A.M.}/_{P.M.} Maximum Temperature 93 Deg F

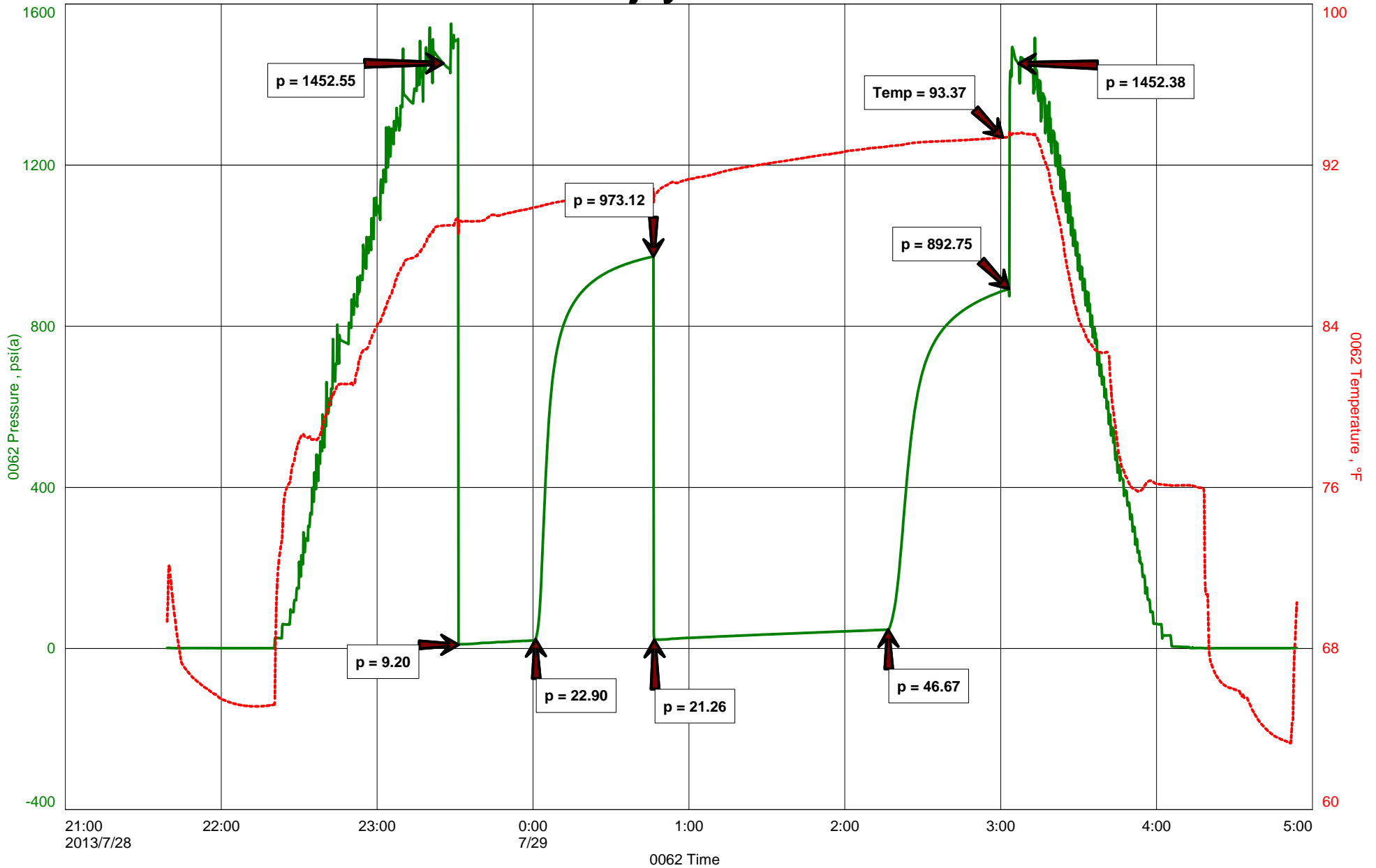
Initial Hydrostatic Pressure..... (A) 1453 P.S.I.
Initial Flow Period..... Minutes 30 (B) 9 P.S.I. to (C) 23 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 973 P.S.I.
Final Flow Period..... Minutes 90 (E) 21 P.S.I. to (F) 47 P.S.I.
Final Closed In Period..... Minutes 45 (G) 893 P.S.I.
Final Hydrostatic Pressure..... (H) 1452 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 Inc.
DST #1 Plattsmouth 3094'-3118'
Start Test Date: 2013/07/28
Final Test Date: 2013/07/29

Hejny #1-23
Formation: Plattsmouth 3094'-3118'
Pool: NA
Job Number: F153

Hejny #1-23





Diamond Testing General Report

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

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

General Information

Company Name	LD Drilling Inc.	Well Name	Hejny #1-23
Well Operator	LD Drilling Inc.	Unique Well ID	DST #2 LKC "A&B" 3235'-3275'
Contact	LD Davis	Surface Location	Sec 23-16s-15w-Barton Co.-KS
Site Contact	Keith Reavis	Test Unit	#5
Field	NA	Pool	NA
Well Type	Vertical	Job Number	F154
Prepared By	Jake Fahrenbruch	Qualified By	Keith Reavis

Test Information

Test Type	Conventional Bottom-Hole	Test Purpose	Initial Test
Formation	LKC "A&B" 3235'-3275'	Gauge Name	0062
Start Test Date	2013/07/29	Start Test Time	17:09:00
Final Test Date	2013/07/29	Final Test Time	23:14:00

Test Results

30 minute initial flow period:	Surface blow, increased to 4.75" in bucket.
45 minute initial shut-in period:	No blow.
45 minute final flow period:	Surface blow, increased to 5" in bucket.
60 minute final shut-in period:	No Blow.

Recovered: 135' MCW 90% wtr, 10% mud
 ----- Tool Sample: MCW w/ slight oil scum
 ----- Chlorides: 30,000 PPM
 ----- RW: .11 ohm @ 72 Deg F
 ----- PH: 7.5
 ----- Bottom-Hole Temp: 97 Deg F

Pressures: IHP: 1548
 IFP: 9-53
 ISIP: 817
 FFP: 55-81
 FSIP: 775
 FHP: 1548

Thanks!



DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: HEJNY1DST2

TIME ON: 4:36 PM
 TIME OFF: 11:14 PM

Company LD Drilling Inc. Lease & Well No. Hejny #1-23
 Contractor Petromark Drilling Rig #2 Charge to LD Drilling Inc.
 Elevation 1990' KB Formation LKC "A&B" Effective Pay _____ Ft. Ticket No. F154
 Date 7.29.13 Sec. 23 Twp. 16 S Range 15 W County Barton State KANSAS
 Test Approved By Keith Reavis Diamond Representative Jake Fahrenbruch

Formation Test No. TWO Interval Tested from 3235 ft. to 3275 ft. Total Depth 3275 ft.
 Packer Depth 3230 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3235 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3220 ft. Recorder Number 0062 Cap. 5,000 P.S.I.
 Bottom Recorder Depth (Outside) 3272 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 54 Drill Collar Length 120 ft. I.D. 2 1/4 in.
 Weight 9.0 Water Loss 8.8 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 5,000 P.P.M. Drill Pipe Length 3090 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 40 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 31' DP in anchor Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Surface blow, increased to 4.75" in bucket.
 2nd Open: Surface blow, increased to 5" in bucket.

Recovered 135 ft. of MCW 90% wtr, 10% mud
 Recovered _____ ft. of Tool Sample: MCW w/slight oil scum
 Recovered _____ ft. of Chlorides: 30,000 PPM
 Recovered _____ ft. of RW: .11 ohm @ 72 Deg F

Recovered _____ ft. of <u>PH: 7.5</u>	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
_____	Total

Time Set Packer(s) 6:28 PM A.M. P.M. Time Started Off Bottom 9:28 PM A.M. P.M. Maximum Temperature 97 Deg F

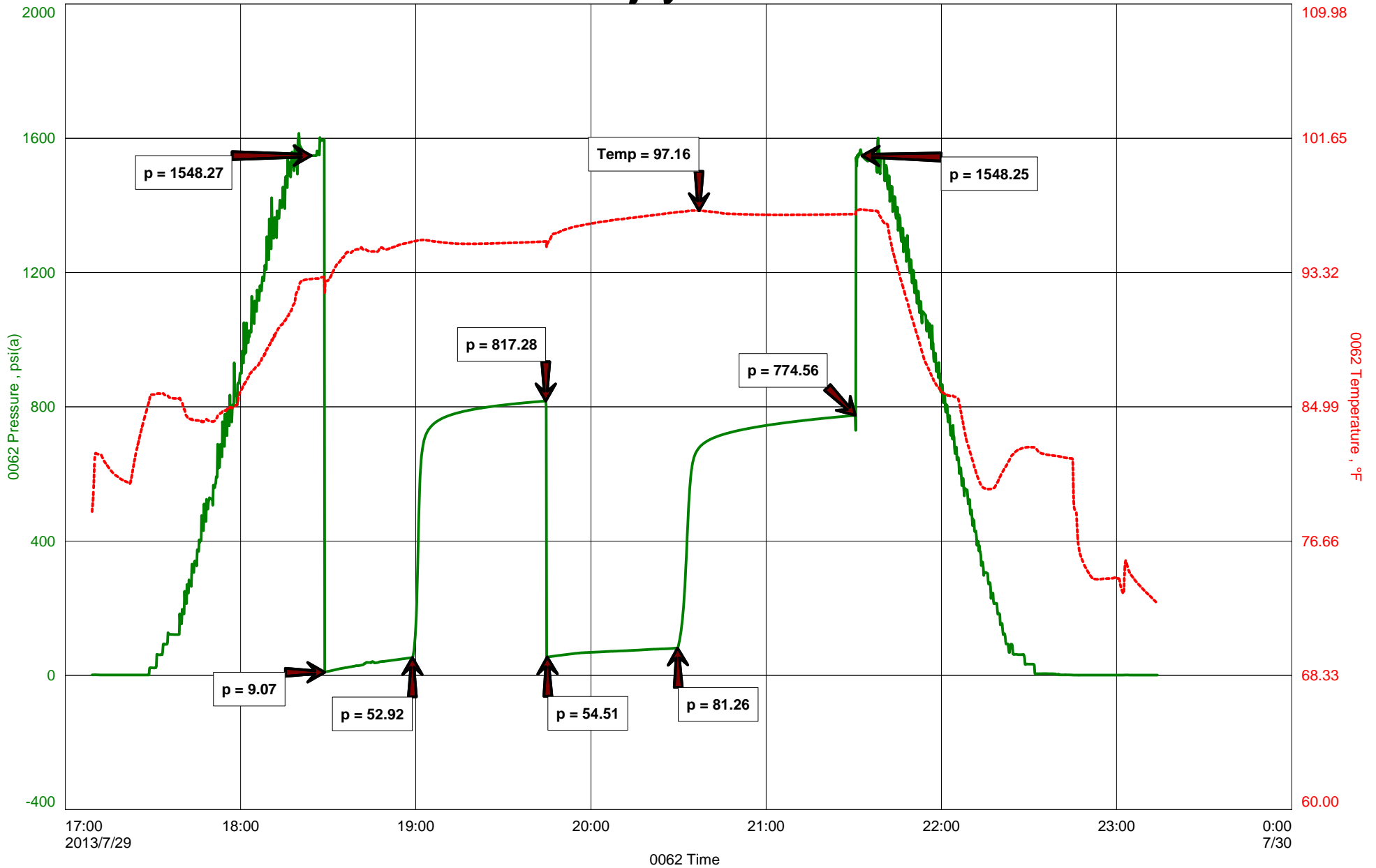
Initial Hydrostatic Pressure..... (A) 1548 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 9 P.S.I. to (C) 53 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 817 P.S.I.
 Final Flow Period..... Minutes 45 (E) 55 P.S.I. to (F) 81 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 775 P.S.I.
 Final Hydrostatic Pressure..... (H) 1548 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 Inc.
DST #2 LKC "A&B" 3235'-3275'
Start Test Date: 2013/07/29
Final Test Date: 2013/07/29

Hejny #1-23
Formation: LKC "A&B" 3235'-3275'
Pool: NA
Job Number: F154

Hejny #1-23





Diamond Testing General Report

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

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

General Information

Company Name	LD Drilling Inc.	Well Name	Hejny #1-23
Well Operator	LD Drilling Inc.	Unique Well ID	DST #3 L, KC "F&G" 3306'-3328'
Contact	LD Davis	Surface Location	Sec 23-16s-15w-Barton Co.-KS
Site Contact	Keith Reavis	Test Unit	#5
Field	NA	Pool	NA
Well Type	Vertical	Job Number	F155
Prepared By	Jake Fahrenbruch	Qualified By	Keith Reavis

Test Information

Test Type	Conventional Bottom-Hole	Test Purpose	Initial Test
Formation	L, KC "F&G" 3306'-3328'	Gauge Name	0062
Start Test Date	2013/07/30	Start Test Time	06:42:00
Final Test Date	2013/07/30	Final Test Time	13:04:00

Test Results

30 minute initial flow period:	Surface blow, increased to B.O.B. in 4.25 minutes.
45 minute initial shut-in period:	Blowback increased to 2".
45 minute final flow period:	Surface blow, increased to B.O.B. in 8 minutes.
60 minute final shut-in period:	Blowback increased to 5".

Recovered:

20'	Free Oil
50'	GMWCO 10% gas, 50% oil, 25% wtr, 15% mud
205'	Salt Water
----	750' Gas In Pipe
----	275' Total Recovered Fluid
----	Tool Sample: SMOCW 91% wtr, 6% oil, 3% mud
----	Gravity: 39 (corrected)
----	Chlorides: 85,000 PPM
----	RW: .07 ohm @ 76 Deg F
----	PH: 7.5
----	Bottom-Hole Temp: 101 Deg F

Pressures:

IHP:	1591
IFP:	24-93
ISIP:	839
FFP:	99-144
FSIP:	820
FHP:	1591

Thanks!



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HEJNY1DST3

TIME ON: 6:42 AM
TIME OFF: 1:04 PM

Company LD Drilling Inc. Lease & Well No. Hejny #1-23
Contractor Petromark Drilling Rig #2 Charge to LD Drilling Inc.
Elevation 1990' KB Formation LKC "F&G" Effective Pay _____ Ft. Ticket No. F155
Date 7.30.13 Sec. 23 Twp. 16 S Range 15 W County Barton State KANSAS
Test Approved By Keith Reavis Diamond Representative Jake Fahrenbruch

Formation Test No. THREE Interval Tested from 3306 ft. to 3328 ft. Total Depth 3328 ft.
Packer Depth 3301 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3306 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3291 ft. Recorder Number 0062 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3325 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 9.4 Water Loss 9.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 8,000 P.P.M. Drill Pipe Length 3160 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 22 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 B.O.B. in 4.25 minutes. Blowback increased to 2".
2nd Open: Surface blow, increased to B.O.B. in 8 minutes. Blowback increased to 5".

Recovered 20 ft. of Free Oil
Recovered 50 ft. of GMWCO 10% gas, 50% oil, 25% wtr, 15% mud
Recovered 205 ft. of Salt Water
Recovered _____ ft. of 750' Gas In Pipe
Recovered _____ ft. of 275' Total Fluid Recovered
Recovered _____ ft. of Gravity: 39 (corrected)
Remarks: _____ Chlorides: 85,000 PPM
_____ RW: .07 ohm @ 76 Deg F
_____ PH: 7.5

	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) 8:10 AM A.M. Time Started Off Bottom 11:10 AM P.M. Maximum Temperature 101 Deg F

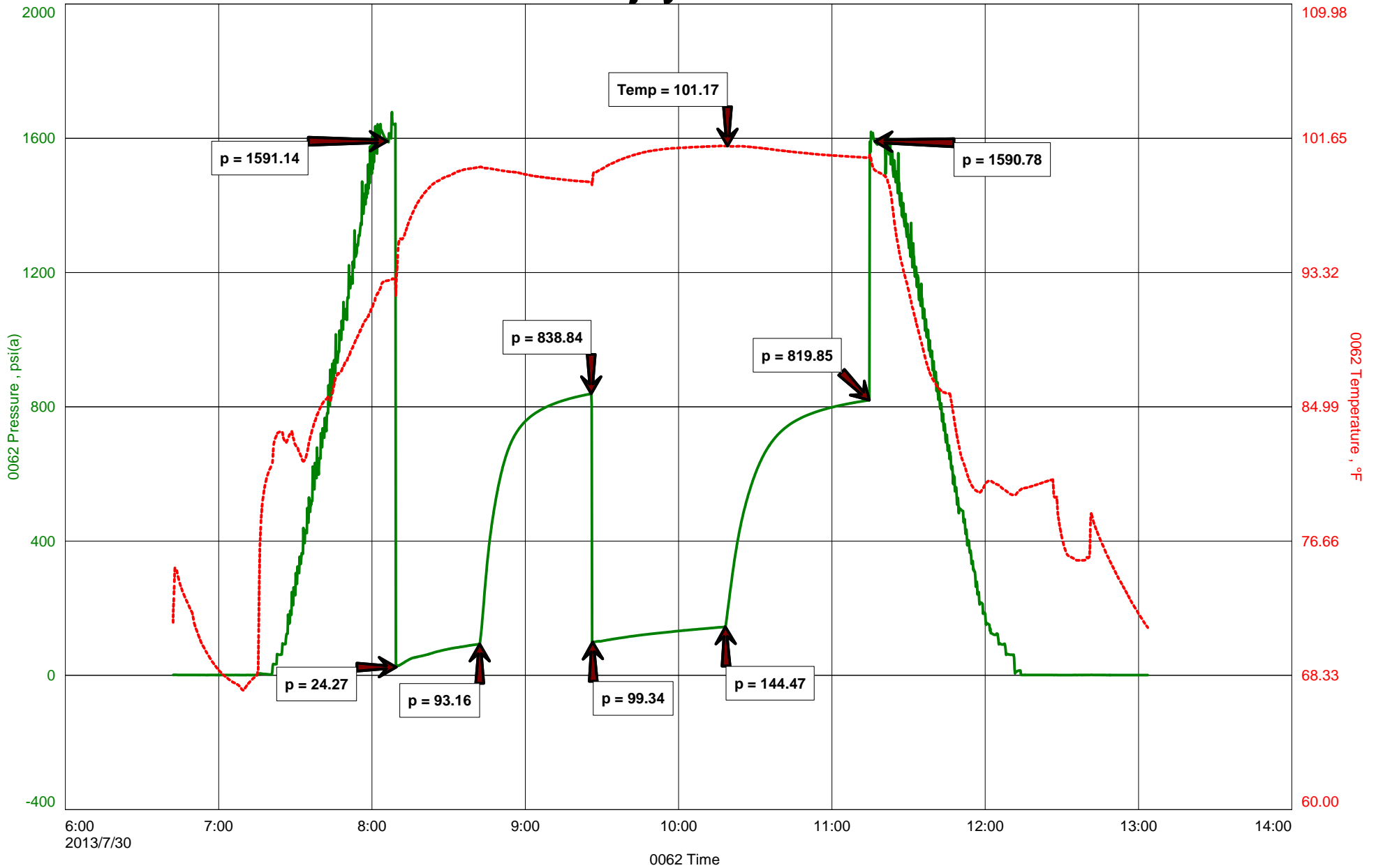
Initial Hydrostatic Pressure..... (A) 1591 P.S.I.
Initial Flow Period..... Minutes 30 (B) 24 P.S.I. to (C) 93 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 839 P.S.I.
Final Flow Period..... Minutes 45 (E) 99 P.S.I. to (F) 144 P.S.I.
Final Closed In Period..... Minutes 60 (G) 820 P.S.I.
Final Hydrostatic Pressure..... (H) 1591 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 Inc.
DST #3 L, KC "F&G" 3306'-3328'
Start Test Date: 2013/07/30
Final Test Date: 2013/07/30

Hejny #1-23
Formation: L, KC "F&G" 3306'-3328'
Pool: NA
Job Number: F155

Hejny #1-23





Diamond Testing General Report

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

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

General Information

Company Name	LD Drilling Inc.	Well Name	Hejny #1-23
Well Operator	LD Drilling Inc.	Unique Well ID	DST #4, Arbuckle, 3428'-3490'
Contact	LD Davis	Surface Location	Sec 23-16s-15w-Barton Co.-KS
Site Contact	Keith Reavis	Test Unit	#5
Field	NA	Pool	NA
Well Type	Vertical	Job Number	F156
Prepared By	Jake Fahrenbruch	Qualified By	Keith Reavis

Test Information

Test Type	Conventional Bottom-Hole	Test Purpose	Initial Test
Formation	Arbuckle, 3428'-3490'	Gauge Name	0062
Start Test Date	2013/07/31	Start Test Time	06:10:00
Final Test Date	2013/07/31	Final Test Time	11:13:00

Test Results

30 minute initial flow period:	Surface blow, increased to .75" in bucket.
45 minute initial shut-in period:	No blow.
30 minute final flow period:	No blow, flushed tool, .25" blow, blow died.
30 minute final shut-in period:	No blow.

Recovered: 10' Drilling Mud
----- Tool Sample: SOSM (less than 1% oil)
----- Bottom-Hole Temp: 99 Deg F

Pressures: IHP: 1706
IFP: 13-16
ISIP: 83
FFP: 17-29
FSIP: 55
FHP: 1704

Thanks!



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HEJNY1DST4

TIME ON: 6:10 AM
TIME OFF: 11:13 AM

Company LD Drilling Inc. Lease & Well No. Hejny #1-23
Contractor Petromark Drilling Rig #2 Charge to LD Drilling Inc.
Elevation 1990' KB Formation _____ Arbuckle Effective Pay _____ Ft. Ticket No. F156
Date 7.31.13 Sec. 23 Twp. _____ 16 S Range _____ 15 W County _____ Barton State KANSAS
Test Approved By Keith Reavis Diamond Representative Jake Fahrenbruch

Formation Test No. FOUR Interval Tested from 3428 ft. to 3490 ft. Total Depth 3490 ft.
Packer Depth 3423 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3428 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3413 ft. Recorder Number 0062 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3487 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 55 Drill Collar Length 120 ft. I.D. 2 1/4 in.
Weight 9.5 Water Loss 9.6 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 8,000 P.P.M. Drill Pipe Length 3283 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 62 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 .75" in bucket.
2nd Open: No blow, flushed tool, .25" blow, blow died.

Recovered <u>10</u> ft. of <u>Drilling Mud</u>	
Recovered _____ ft. of <u>Tool Sample: SOSM (less than 1% oil)</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
	Total

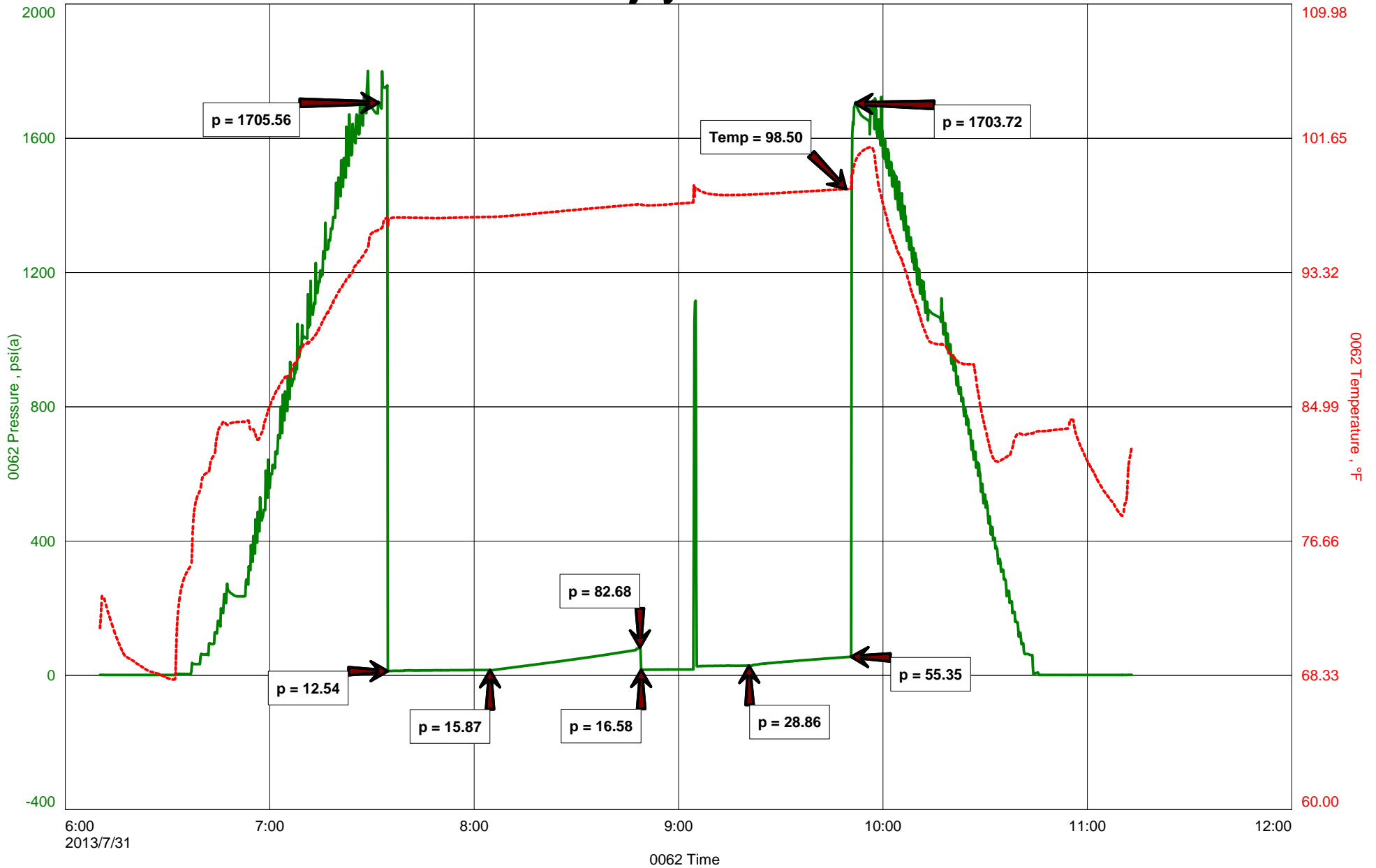
Time Set Packer(s) 7:35 AM A.M. P.M. Time Started Off Bottom 9:50 AM A.M. P.M. Maximum Temperature 99 Deg F
Initial Hydrostatic Pressure..... (A) 1706 P.S.I.
Initial Flow Period..... Minutes 30 (B) 13 P.S.I. to (C) 16 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 83 P.S.I.
Final Flow Period..... Minutes 30 (E) 17 P.S.I. to (F) 29 P.S.I.
Final Closed In Period..... Minutes 30 (G) 55 P.S.I.
Final Hydrostatic Pressure..... (H) 1704 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 Inc.
DST #4, Arbuckle, 3428'-3490'
Start Test Date: 2013/07/31
Final Test Date: 2013/07/31

Hejny #1-23
Formation: Arbuckle, 3428'-3490'
Pool: NA
Job Number: F156

Hejny #1-23





Diamond Testing General Report

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

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

General Information

Company Name	LD Drilling Inc.	Well Name	Hejny #1-23
Well Operator	LD Drilling Inc.	Unique Well ID	DST #5, Arbuckle, 3491'-3504'
Contact	LD Davis	Surface Location	Dec 23-16s-15w-Barton Co.-KS
Site Contact	Keith Reavis	Test Unit	#5
Field	NA	Pool	NA
Well Type	Vertical	Job Number	F157
Prepared By	Jake Fahrenbruch	Qualified By	Keith Reavis

Test Information

Test Type	Conventional Bottom-Hole	Test Purpose	Initial Test
Formation	Arbuckle, 3491'-3504'	Gauge Name	0062
Start Test Date	2013/07/31	Start Test Time	17:06:00
Final Test Date	2013/07/31	Final Test Time	23:39:00

Test Results

30 minute initial flow period: Surface blow, increased to 2.5" in bucket.
 45 minute initial shut-in period: No blow.
 45 minute final flow period: Surface blow, increased to 3" in bucket.
 60 minute final shut-in period: No blow.

Recovered: 120' MCW 88% wtr, 12% mud
 ----- Tool Sample: SMCW w/trace oil show <1% oil, 91% wtr, 8% mud
 ----- Bottom-Hole Temp: 101 Deg F
 ----- Chlorides: 28,000 PPM
 ----- RW: .22 ohm @ 78 Deg F
 ----- PH: 8.0

Pressures: IHP: 1726
 IFP: 11-34
 ISIP: 1056
 FFP: 36-67
 FSIP: 1000
 FHP: 1726

Thanks!



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HEJNY1DST5

TIME ON: 5:06 PM
TIME OFF: 11:39 PM

Company LD Drilling Inc. Lease & Well No. Hejny #1-23
Contractor Petromark Drilling Rig #2 Charge to LD Drilling Inc.
Elevation 1990' KB Formation _____ Arbuckle Effective Pay _____ Ft. Ticket No. F157
Date 7.31.13 Sec. 23 Twp. _____ 16 S Range _____ 15 W County _____ Barton State KANSAS
Test Approved By Keith Reavis Diamond Representative Jake Fahrenbruch

Formation Test No. FIVE Interval Tested from 3491 ft. to 3504 ft. Total Depth 3504 ft.
Packer Depth 3486 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3491 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3476 ft. Recorder Number 0062 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3501 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 54 Drill Collar Length 120 ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 9.6 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 8,000 P.P.M. Drill Pipe Length 3346 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: Surface blow, increased to 2.5" in bucket.
2nd Open: Surface blow, increased to 3" in bucket.

Recovered 120 ft. of MCW 88% wtr, 12% mud
Recovered _____ ft. of Tool Sample: SMCW w/trace oil show <1% oil, 91% wtr, 8% mud
Recovered _____ ft. of Chlorides: 28,000 PPM
Recovered _____ ft. of RW: .22 ohm @ 78 Deg F

Recovered _____ ft. of PH: 8.0	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
_____	Total

Time Set Packer(s) 6:52 PM A.M. P.M. Time Started Off Bottom 9:52 PM A.M. P.M. Maximum Temperature 101 Deg F

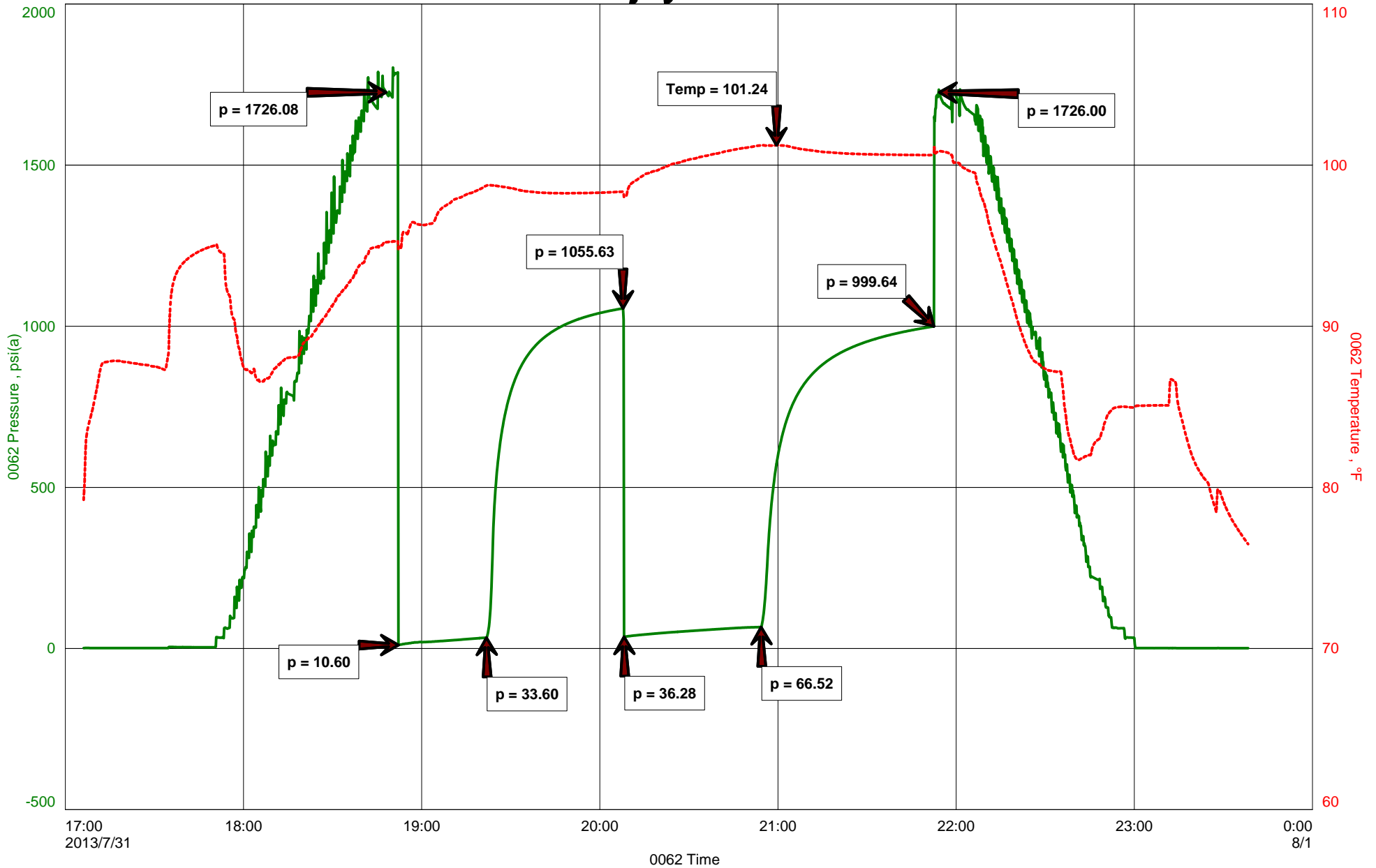
Initial Hydrostatic Pressure..... (A) 1726 P.S.I.
Initial Flow Period..... Minutes 30 (B) 11 P.S.I. to (C) 34 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1056 P.S.I.
Final Flow Period..... Minutes 45 (E) 36 P.S.I. to (F) 67 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1000 P.S.I.
Final Hydrostatic Pressure..... (H) 1726 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 Inc.
DST #5, Arbuckle, 3491'-3504'
Start Test Date: 2013/07/31
Final Test Date: 2013/07/31

Hejny #1-23
Formation: Arbuckle, 3491'-3504'
Pool: NA
Job Number: F157

Hejny #1-23



OPERATOR

Company: L D Drilling, Inc.
 Address: 7 SW 26th Ave.
 Great Bend, KS 67530

Contact Geologist: 620-793-3051
 Contact Phone Nbr: Hejny #1-23
 Well Name: Sec. 23 - T16S - R15W
 Location: Pool: Kansas
 State: API: 15-009-25864-0000
 Field: un-named
 Country: USA

Scale 1:240 Impenial

Well Name: Hejny #1-23
 Surface Location: Sec. 23 - T16S - R15W
 Bottom Location: API: 15-009-25864-0000
 License Number: 6039
 Spud Date: 7/24/2013
 Region: Barton County
 Drilling Completed: 8/1/2013
 Surface Coordinates: 990' FSL & 330' FEL
 Bottom Hole Coordinates: 1985.00ft
 Ground Elevation: 0.00ft
 K.B. Elevation: 2900.00ft
 Logged Interval: 2900.00ft
 Total Depth: 3565.00ft
 Formation:
 Drilling Fluid Type: Chemical/Fresh Water Gel

Time: 12:00 AM
 Time: 4:55 AM

To: 3565.00ft

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude:
 N/S Co-ord: 990' FSL
 E/W Co-ord: 330' FEL
 Latitude:

LOGGED BY

Keith Reavis
Consulting Geologist

Company: Keith Reavis, Inc.
 Address: 3420 22nd Street
 Great Bend, KS 67530

Phone Nbr: 620-617-4091
 Logged By: KLG #136

Name: Keith Reavis

CONTRACTOR

Contractor: Petromark Drilling
 Rig #: 2
 Rig Type: mud rotary
 Spud Date: 7/24/2013
 TD Date: 8/1/2013
 Rig Release:

Time: 12:00 AM
 Time: 4:55 AM
 Time:

ELEVATIONS

K.B. Elevation: 0.00ft
 K.B. to Ground: 1990.00ft
 Ground Elevation: 1985.00ft

NOTES

After evaluation of DST #3 and electrical logs, the operator elected to run 5 1/2" production casing and further test the Lansing G zone through perforations and stimulation.

The samples were saved and will be available for review at the Kansas Geological Survey Well Sample Library located in Wichita, KS.

Respectfully submitted,
 Keith Reavis

LD Drilling Company

daily drilling report

DATE	7:00 AM DEPTH	REMARKS
07/27/2013		Geologist Keith Reavis on location @ 1325 hrs, 2978 ft, drilling ahead Topeka, Queen Hill, Plattsmouth, show in Plattsmouth warrants test location and pits flooded from rains, put on bank, S.D.O.W.
07/28/2013	3118 DST #1	waiting on rains to quit, condition mud, T1H with test tools, conducting DST #1
07/29/2013	3118	complete DST #1, successful test, T1H w/bit, resume drilling, drill Heebner, Toronto, Douglas, Lansing, shows in A-B warrant test, conduct and complete DST #2, successful test, T1H w/bit
07/30/2013	3328	resume drilling, show in F and G warrant test, conduct and complete DST #3, successful test, T1H w/bit, resume drilling, lower KC
07/31/2013	3490	drilling Conglomerate, Arbuckle, show in Arbuckle warrants test, conducting and complete DST #4, cut more Arbuckle, run condemnation test, DST #5, successful test, T1H w/bit
08/01/2013	3565	rathole to TD 3565 ft, 0455 hrs, ctcch, TOH, conduct and complete logging operations, geologist released 1200 hrs

LD Drilling Company

well comparison sheet

DRILLING WELL

COMPARISON WELL
 K-G Oil - Nettlesingham #1

COMPARISON WELL
 National Oil - Hejny #1

Formation	1990 KB			1990 KB			1986 KB			Structural Relationship			
	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Log	Sample	Log	Sample	Log
Topeka	2935	-945	2937	-947				2936	-950			5	3
Queen Hill	3074	-1084	3076	-1086	2	0	3080	-1094		10	8		
Plattsmouth	3106	-1116	3109	-1119	0	-3	3113	-1127		11	8		
Heelner	3165	-1175	3166	-1176	-1	-2	3170	-1184		9	8		
Toronto	3183	-1193	3184	-1194	-1	-2	3188	-1202		9	8		
Douglas	3200	-1210	3199	-1209	-1	0	3204	-1218		8	9		
Lansing G	3231	-1241	3233	-1243	1	-1	3236	-1250		9	7		
Base KC	3321	-1331	3323	-1333	3	1	3331	-1345		14	12		
Congl.	3449	-1459	3451	-1461	3	1	3460	-1474		15	13		
Aztecule	3457	-1467	3461	-1471	5	1	3468	-1482		15	11		
Total Depth	3488	-1498	3488	-1498	20	20	3508	-1518		20	8	8	8
	3465	-1475	3468	-1478	63	60	3487	-1501		26	26	23	23

ROCK TYPES

Dolprim shale, gray
Lmst fw<7 shale, gm

Lmst fw7> shale, red
Carbon Sh

ACCESSORIES

MINERAL
▲ Chert, dark
● Sandy
△ Chert White

FOSSIL
∧ Bioclastic or Fragmental
F Fossils < 20%
φ Oolite
♣ Pellets
♣ Oomoldic

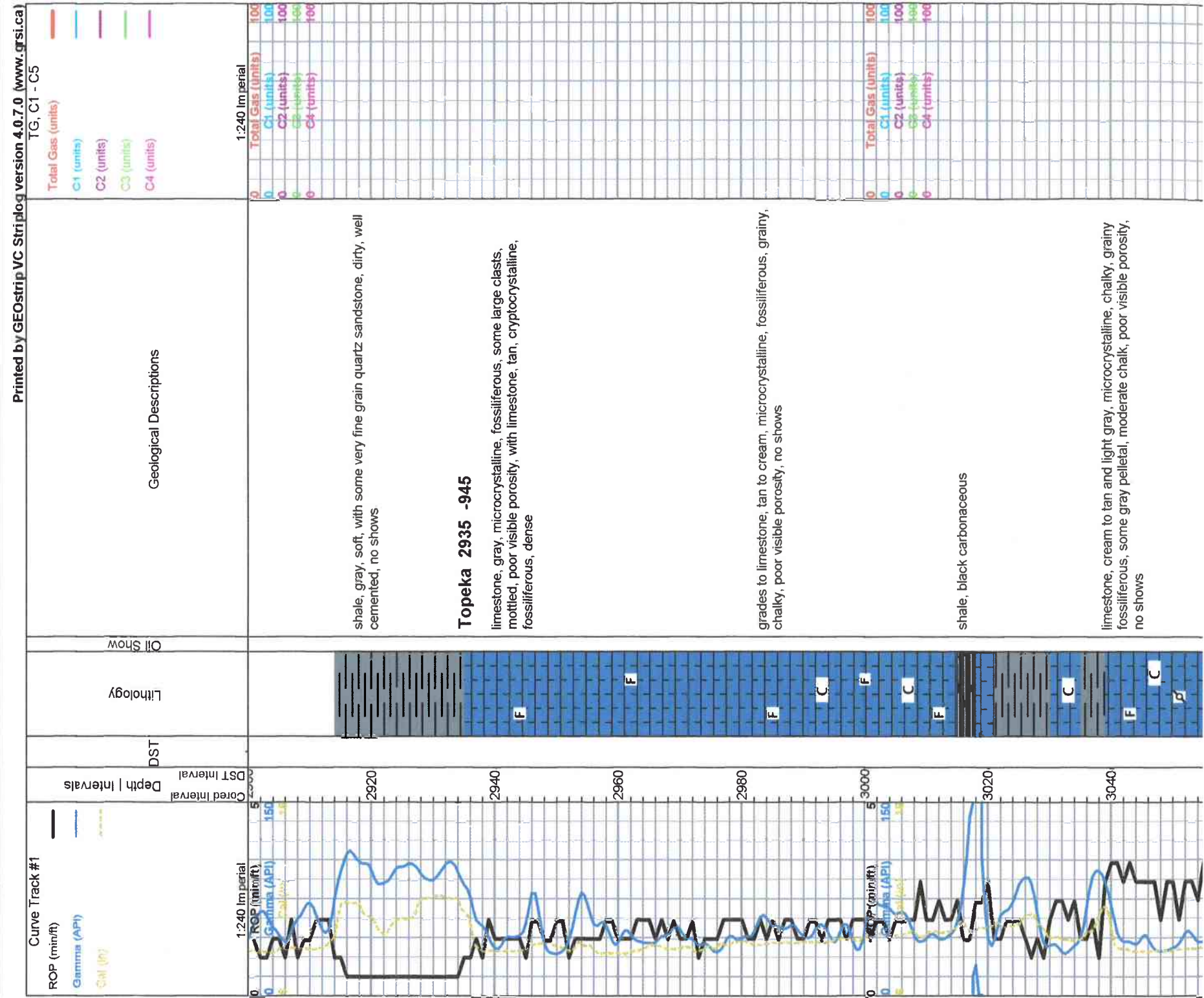
TEXTURE
C Chalky
L Lithogr

OTHER SYMBOLS

MISC
Daily Report
Digital Photo
Document
Folder
Link
Vertical Log File
Horizontal Log File
Core Log File
Drill Cuttings Rpt

Oil Show
● Good Show
● Fair Show
● Poor Show
○ Spotted or Trace
○ Questionable Stn
D Dead Oil Stn
■ Fluorescence
* Gas

DST
DST Int
DST alt
Core
tail pipe



Queen Hill 3074 -1084

shale, black carbonaceous

limestone, gray to light gray and tan, microcrystalline, very fossiliferous, some pellaletal, chalky, poor visible porosity, no shows



Plattsmouth 3106 -1116

limestone, cream to white, bioclastic, cherty to chalky, some fair interclast porosity, spotty to wormy brown and black interclast stain, slight show free oil, poor fluorescence, slow streaming cut, fleeting odor

limestone, white to gray, microcrystalline, chalky in part, fossiliferous, scattered bioclastic, few pieces spotty stain, sheen oil on break, no odor, abundant shales and pyrite in samples, some scattered white fossiliferous cherts

as above, still abundant shales and pyrite

Heebner 3165 -1175

shale, black carbonaceous

Toronto 3183 -1193

limestone, white to cream, micro-cryptocrystalline, fossiliferous, chalky, poor visible porosity, with limestone, light gray, cryptocrystalline, dense, fossiliferous, no shows (samples cleaning up)

Douglas 3200 -1210

shale, gray to green, silty in part, trace dense light gray siltstone

Lansing 3231 -1241

limestone, cream to light gray, microcrystalline, fossiliferous, some secondary calcite seams, some lightly stained edge etching and small vugs, sheen oil, fleeting odor



as above

limestone, cream, bioclastic, very small chips, saturated stain, slight show oil on break, light fluorescence, poor cut, fleeting odor

Lansing G 3321 -1331

limestone, cream, oolitic to oomoldic, good oomold and inter-oolite porosity, fair light stain to barren, good sheen, few pieces bleeding gas with good show on break, faint odor, light fluorescence, good cut

grades to mostly barren white to cream oomoldic, flood chalk

limestone, cream to gray, micro-cryptocrystalline, fossiliferous to lithographic, some oolitic, abundant chalk, some light scattered stain, no show free oil or odor, abundant chalk

as above

limestone, white to light gray, sub-oomoldic to oolitic, fair scattered porosity, barren, abundant chalk

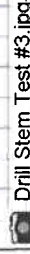
limestone, white to cream and gray, mixed fossiliferous, still carrying abundant oomoldic, abundant shales, poor samples, no shows or odor

Mud-Co Mud chk @ 3118 ft 1950 hrs. 7/28/13
Vis. 62 Wt. 8.9
PV 16 YP 23
WL 8.0
Cake 1/32,
pH 10.0
CHL 3000 ppm
Ca 10 ppm
Sol 4.2 LCM 0#
DMC \$1051.10
CMC \$6583.95

Mud-Co Mud chk @ 3153 ft. 0815 hrs. 7/29/13
Vis. 54 Wt. 9.0
PV 12 YP 22
WL 8.8
Cake 1/32,
pH 10.0
CHL 5000 ppm
Ca 10 ppm
Sol 4.8 LCM 0#
DMC \$0
CMC \$6583.95



Mud-Co Mud chk @ 3328 ft. 0830 hrs. 7/30/13
Vis. 49 Wt. 9.4
PV 10 YP 24
WL 9.2
Cake 1/32,
pH 9.5
CHL 8000 ppm
Ca 10 ppm
Sol 7.3 LCM 0#
DMC \$0
CMC \$6583.95



D S T # 1

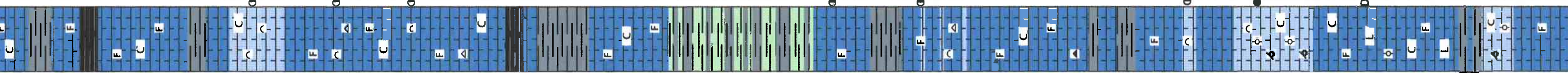
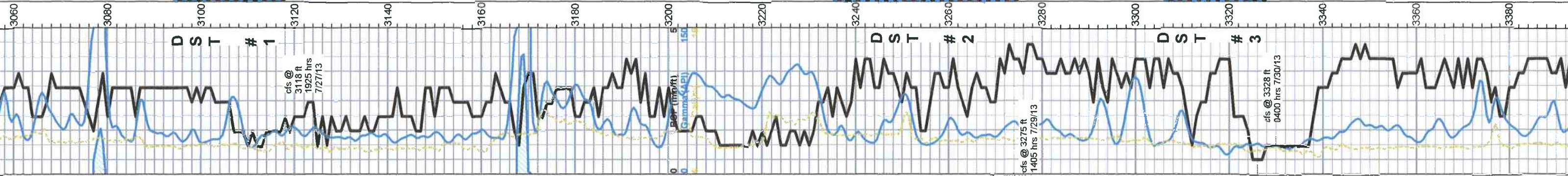
cfs @ 3118 ft 1925 hrs 7/27/13

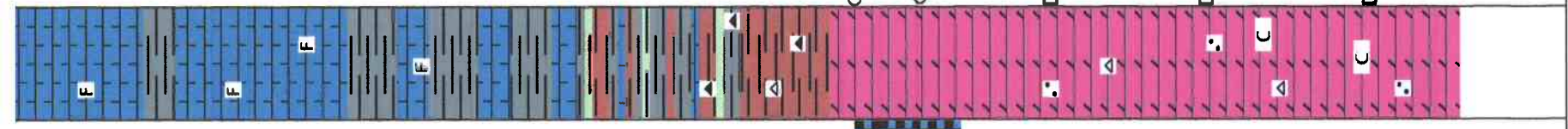
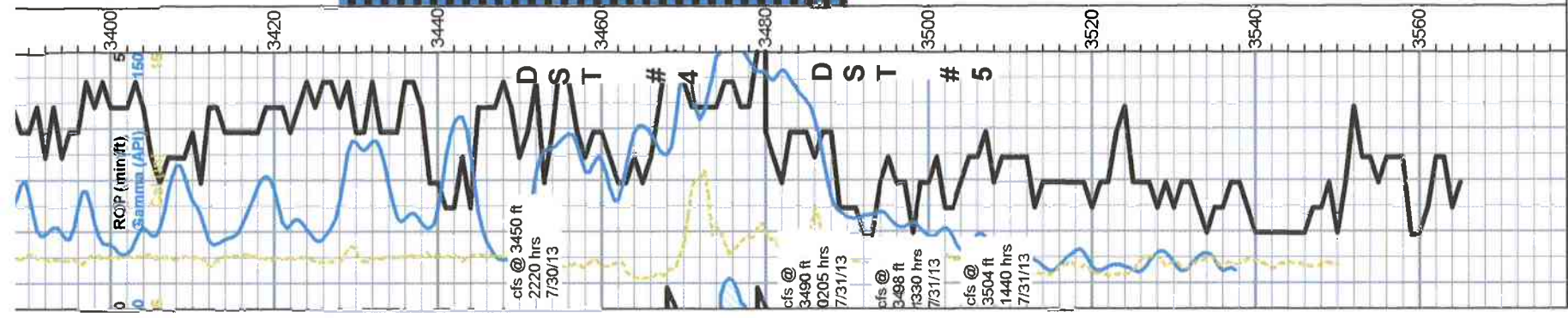
D S T # 2

cfs @ 3275 ft 1405 hrs 7/29/13

D S T # 3

cfs @ 3328 ft 0400 hrs 7/30/13





limestone, mixed cream to white and light gray, fossiliferous, scattered oolitic and oomoldic, no shows or odor, abundant shales, limestone samples small, poor samples

as above

limestones, cream to light gray, fossiliferous, poor porosity, no shows

Base KC 3449 -1459

Conglomerate 3457 -1467
mixed gray, green and red shales, mixed limestones, red wash in samples, no shows, some pyrite

3490 sample - a.a., influx orange chert

flood red shale, heavy red wash, increase orange chert, some gray fossiliferous chert, flood chalk/caliche

Arbuckle 3488 -1498
dolomite, light gray, micro-fine crystalline, rhombic to sub-rhombic and reworked to weathered, some fair porosity, abundant caliche infill, friable in part, light intercrystalline stain, fair sheen with slight show free oil, fleeting odor, bright yellow/green fluorescence, good instant to streaming cut

3598 cfs samples, a.a., slightly pyritic, no odor
3504 samples a.a.

dolomite as above, with dolomite, white to pale green, crypto-microcrystalline, some rhombic, some sandy, mostly barren with some slight staining, no show free oil, no odor, some scattered white boney cherts

dolomites as above, still some slight stain, flood caliche, some fine crystalline porous rhombic dolomite, good porosity, no odor

Rotary TD 3565 ft, 0455 hrs 8/1/13
Nabors Log TD 3568
Complete Logging Operations @ 1130 hrs 8/1/13

stroked pump back from 60 to 51 spm

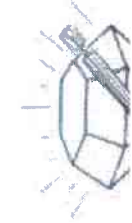
Drill Stem Test #4.jpg

Drill Stem Test #5.jpg

Mud-Co Mud chk @ 3490 ft, 0800 hrs, 7/31/13
Vrs. 55 Wt, 9.5
PV 12 YP 22
WL 9.6
Cake 1/32,
pH 9.5
CHL 8000 ppm
Ca 10 ppm
Sol 8.7 LCM 0#
DMC \$1019.25
CMC \$7603.20



Drill Stem Test #1.jpg



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

TIME ON: 9:39 PM (28th)
TIME OFF: 4:54 AM (29th)



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 08572 A

DATE _____ TICKET NO. _____

DATE OF JOB 8-1-2013 DISTRICT _____		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 CD DRILLING, INC.		LEASE HEJNY 1-23 WELL NO. _____						
ADDRESS _____		COUNTY BARTON STATE Ks.						
CITY _____ STATE _____		SERVICE CREW CESLEY, MARQUEZ, KUEMIN						
AUTHORIZED BY _____		JOB TYPE: CNW-5 1/2" L.S.						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	TIME
37586	3					8-1-2013	PM	1:30
19889-19843	3					ARRIVED AT JOB	PM	4:00
19889-19843						START OPERATION	PM	5:00
19903-13768	3					FINISH OPERATION	PM	7:00
						RELEASED	PM	7:45
						MILES FROM STATION TO WELL _____		

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

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

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 100C	COMMON CMT.	SK	150		2,400.00
CP 103	60/40 POZ	SK	30		360.00
CC 105	C-41P DEFOAMER	lb	36		144.00
CC 111	SALT	lb	1265		632.50
CC 112	CMT. FRICTION REDUCER	lb	106		636.00
CC 113	GYP SUM	lb	705		528.75
CC 201	GILSONITE	lb	750		502.50
CF 103	TOP ROBBER CMT. PLOG, 5 1/2"	EA	1		105.00
CF 251	REGULAR GUIDE SHOE, 5 1/2"	EA	1		250.00
CF 1451	FLAPPER TYPE INSERT FLOAT VALVE, 5 1/2"	EA	1		215.00
CF 1651	TURBOCIZER, 5 1/2"	EA	6		660.00
CC 159	FLOW-SEAL II (SODIUM SILICATE) 12%	GAL	330		1,980.00
E 100	PICKUP MILEAGE	MI	80		340.00
E 101	HEAVY EQUIPMENT MILEAGE	MI	160		1,120.00
E 113	BULK DELIVERY	TM	680		1,088.00
CE 204	DEPTH CHARGE, 3001'-4000'	HR	1-4		2,160.00
CE 240	BLENDING CHARGE	SK	180		252.00
CE 504	PLOG CONTAINER CHARGE	JOB	1		250.00
S 003	SERVICE SUPERVISOR	EA	1		175.00
SUB TOTAL					10,349.00

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE *[Signature]*
FIELD SERVICE ORDER NO. _____

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

Customer LD DRILLING, INC.	Lease No.	Date 8-1-2013
Lease HEINY	Well # 1-23	
Field Order # 08572	Station PRATT, KS.	County BARTON
Type Job CNW - 5 1/2" L.S.	Formation TD - 3564'	State Ks.
		Legal Description 23-16-15

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2" x 14"	Tubing Size	Shots/Ft	CMT -	Acid 150 SKS. COMMON		RATE	PRESS	ISIP
Depth 3570.8'	Depth	From	To	Pre Pad @ 1.39 CU FT	Max			5 Min.
Volume 87.12 BBL	Volume	From	To	Pad	Min	SJ = 20.07'		10 Min.
Max Press 1500	Max Press	From	To	Frac	Avg	INSERT - 3544'		15 Min.
Well Connection P.I.C.	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth 3540'	Packer Depth	From	To	Flush 86.6 BBL	Gas Volume			Total Load

Customer Representative LD DAVIS	Station Manager K. GORDLEY	Treater K. LESLEY
Service Units 37586 19889 19843 19903 73768 19907		
Driver Names LESLEY MARQUEZ — KUEMIN — GORDLEY		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
3:45 PM					ON LOCATION - SAFETY MEETING
4:00 PM					RUN 85 JTS. 5 1/2" x CSG.
4 PM					TURBD. - 1, 2, 3, 5, 7, 9
4 PM					CSG. DN BOTTOM
5:30 PM					HOOK UP TO CSG. / BREAK CIRC. W/ RIG
6:15 PM	200		5	6	H2O AHEAD
6:17 PM	200		7.5	6	SODIUM SILICATE
6:18 PM	200		5	6	H2O SPACER
6:19 PM	100		37	6	MIX 150 SKS. COMMON @ 15.4 PPG
6:25 PM					CLEAR PUMP & LINE / DROP PLUG
6:29 PM	0		0	6	START DISPLACEMENT
6:38 PM	500		58	5	LIFT PRESSURE
6:42 PM	900		80	3	SLOW RATE
6:45 PM	1500		86.6	2	PLUG DOWN - HELD
					CIRC. THRU JOB
6:50 PM			6	2	PLUG R.H. W/ 30 SKS. 60/40 POZ
					JOB COMPLETE,
					THANKS -
					KEVEN LESLEY

Customer L.D. Drilling inc	Lease No.	Date 7-25-13
Lease H-304	Well # 1-23	
Field Order # 8673	Station PRATT	Casing 8 5/8 Depth 468 County BARROW State KS
Type Job CONV SR	Formation	Legal Description 23-16-15

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 8 5/8	Tubing Size	Shots/Ft		Acid 350 SK 60/40 POZ	RATE	PRESS	ISIP	
Depth 468	Depth	From	To	Pre Pad 3% cc 1/4 # C.F.	Max		5 Min.	
Volume 29.76	Volume	From	To	Pad	Min		10 Min.	
Max Press 300	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 448	Packer Depth	From	To	Flush 28.49	Gas Volume		Total Load	

Customer Representative JIM	Station Manager Kevin Guidry	Treater MIKE MATTAL
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Service Units 71183	27463	19831	19862				
Driver Names MATTAL	YUNNY	PARSON					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:15					ON LOCATION / SERVICE MEETING
5:50					RUN 8 5/8 CSNG
6:30					HOOK UP TO CSNG / BREAK CIRC W REG
6:35	150		5	5	PUMP 5 BBI H ₂ O
6:37	200		85	5	MIX 350 SK 60/40 POZ
6:55					RELEASE PLUG
6:58				5	START DISP.
7:04	250		18	3	SLOW RATE
7:06	300		28		LAND PLUG SHUT IN WELL
					CIRCULATE 20 BBI TO PIT
					JOB COMPLETE
					THANK YOU
					MIKE MATTAL

Customer <i>LD DRAWDING</i>	Lease No.	Date <i>8-30-13</i>
Lease <i>HE JNY</i>	Well # <i>1-23</i>	
Field Order # <i>8117</i>	Station <i>PRATT, KS</i>	Casing <i>5 1/2</i>
Type Job <i>CNW - SERVICE</i>	Formation <i>KC F</i>	Legal Description <i>23-16-15</i>
	Depth	County <i>BARTON</i>
		State <i>KS</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>5 1/2</i>	<i>2 3/8</i>							
Depth	Depth	From <i>3300</i>	To <i>3305</i>	Pre Pad	Max			5 Min.
Volume	Volume	From	To	Pad	Min			10 Min.
Max Press	Max Press	From	To	Frac	Avg			15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume			Total Load

Customer Representative <i>DARWIN</i>	Station Manager <i>KEVIN</i>	Treater <i>GONSLY</i>
Service Units <i>1990</i>	<i>77686-19905</i>	<i>19831-19862</i>
Driver Names <i>KC</i>	<i>JOE</i>	<i>ANDREW</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>0800</i>					<i>ON LOCATION</i>
<i>0830</i>		<i>2000</i>	<i>7</i>	<i>1</i>	<i>PSI TEST CLOSURE 2000#</i>
					<i>SET PKL-3233 PORT 3312-15</i>
	<i>500</i>		<i>24</i>	<i>3</i>	<i>PSI PAWN - 500#</i>
		<i>150</i>	<i>8</i>	<i>2 3/4</i>	<i>ENVI. RATE - 2 3/4 RIM-150#</i>
<i>0845</i>		<i>0</i>	<i>21</i>	<i>2 3/4</i>	<i>MIX 100 SH COMMON</i>
		<i>150</i>	<i>0</i>	<i>2 3/4</i>	<i>START DESP.</i>
		<i>1300</i>	<i>10</i>	<i>1</i>	<i>10 bbl OUT - STOP?</i>
		<i>2000</i>	<i>11</i>		<i>STARTING</i>
<i>0945</i>					<i>RELEASE PSI - HOLD</i>
	<i>400</i>		<i>15</i>	<i>2</i>	<i>RELEASE OUT</i>
<i>1000</i>		<i>2000</i>	<i>1/2</i>	<i>1/2</i>	<i>PULL 1 ST & TEST 50 - HOLD</i>
					<i>RUN 3 1/2 ITS AND</i>
					<i>WASH THROUGH SERVICE</i>
<i>1030</i>	<i>400</i>		<i>25</i>	<i>2</i>	<i>LINE CLEAN</i>
					<i>PULL TUBING</i>
<i>1100</i>					<i>JOB COMPLETE - KEVIN</i>