



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1248906
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: _____



1248906

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> _____
-------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	BH FARMS 2-20
Doc ID	1248906

Tops

Name	Top	Datum
HEEBNER	3112	-1249
TORONTO	3130	-1267
DOUGLAS	3144	-1281
BROWN LIME	3242	-1379
LANSING	3256	-1393
BASE KANSAS CITY	3471	-1611
VIOLA	3480	-1617
SIMPSON SHALE	3510	-1647
ARBUCKLE	3564	-1701

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	BH FARMS 2-20
Doc ID	1248906

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	372	A-CONN	175	3%CC, 1/4 # Celoflake
Surface	12.25	8.625	24	372	COMMON	175	2%CC, 1/4# CF
Production	7.875	5.5	15.5	3670	AA-2	150	10% Salt, 1/4# CF
Production	7.875	5.5	15.5	3670	60/40 POZMIX	30	RATHOLE



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: bhfarm2-20dst1

TIME ON: 18:57 2-15
TIME OFF: 1:54 2-16

Company LD Drilling Inc Lease & Well No. B-H Farms #2-20
Contractor Petromark Rig #2 Charge to LD Drilling Inc
Elevation 1863 KB Formation Lan A-C Effective Pay _____ Ft. Ticket No. S0540
Date 2-15-15 Sec. 20 Twp. 21 S Range 12 W County Stafford State KANSAS
Test Approved By Kurt Talbot Diamond Representative Jacob McCallie

Formation Test No. 1 Interval Tested from 3260 ft. to 3310 ft. Total Depth 3310 ft.
Packer Depth 3255 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.
Packer Depth 3260 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3248 ft. Recorder Number 5515 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3295 ft. Recorder Number 5586 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 49 Drill Collar Length 123 ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 8.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 5,900 P.P.M. Drill Pipe Length 3111 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number NA Test Tool Length 26 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 50 (18.5A) 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: BB in 40 seconds (GTS in 7 min) NOBB
2nd Open: BB Immediate NOBB

Recovered _____ ft. of Gas to surface
Recovered 128 ft. of Mud 100% M
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: Diesel in bucket	Insurance
Tool Sample: 100% M	Total

Time Set Packer(s) 8:53 PM A.M. P.M. Time Started Off Bottom 11:53 PM A.M. P.M. Maximum Temperature 105

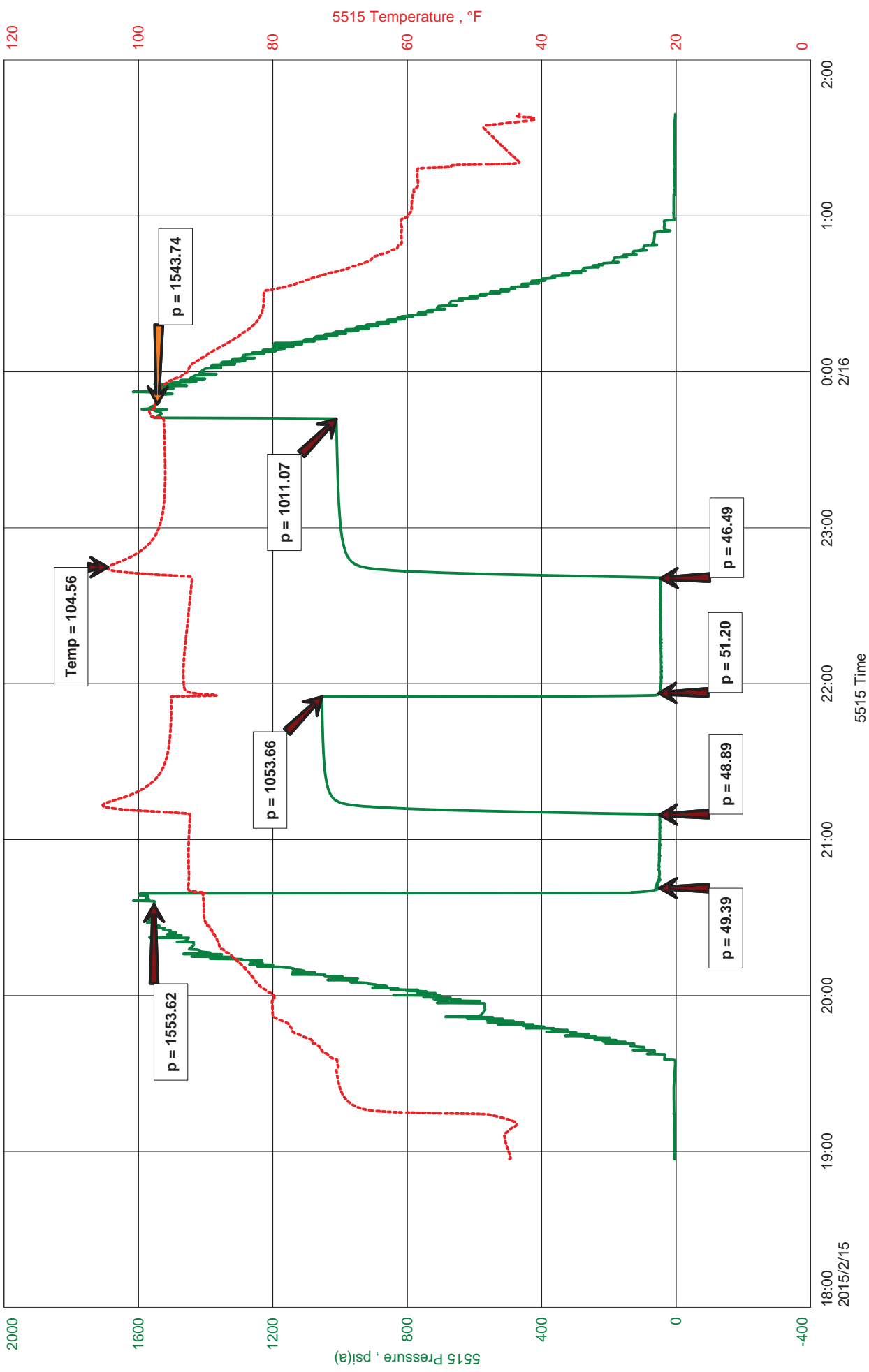
Initial Hydrostatic Pressure..... (A) 1554 P.S.I.
Initial Flow Period..... Minutes 30 (B) 49 P.S.I. to (C) 49 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1054 P.S.I.
Final Flow Period..... Minutes 45 (E) 51 P.S.I. to (F) 46 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1011 P.S.I.
Final Hydrostatic Pressure..... (H) 1544 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 Lans A-C 3260-3310'
Start Test Date: 2015/02/15
Final Test Date: 2015/02/16

B-H Farms #2-20
Formation: DST #1 Lans A-C 3260-3310'
Pool: Infield
Job Number: S0540

B-H Farms #2-20



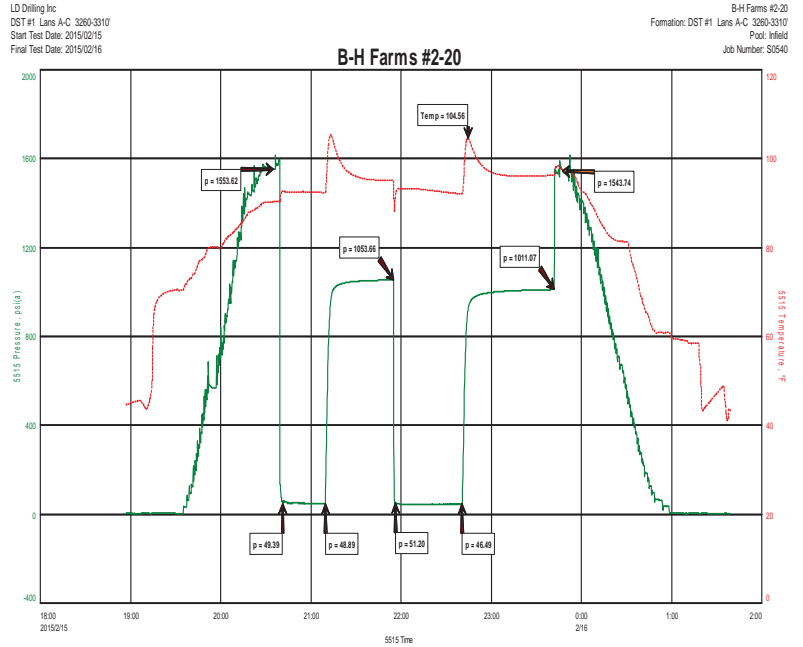


Hoisington, Kansas

JACOB MCCALLIE
620-617-7116
mccallie.dtlc@gmail.com

General Information

Company Name	LD Drilling Inc	Contact	LD Davis
Well Name	B-H Farms #2-20	Well Name	B-H Farms #2-20
Unique Well ID	DST #1 Lans A-C 3260-3310'	Surface Location	SEC 20-21S-12W Stafford County
Field	Mueller	Well Operator	LD Drilling Inc
Well Fluid Type	02 Gas	Test Type	Drill Stem Test
Formation	DST #1 Lans A-C 3260-3310'	Well Type	Vertical
Well Fluid Type	02 Gas	Formation	DST #1 Lans A-C 3260-3310'
Test Purpose (AEUB)	Initial Test	Well Fluid Type	02 Gas
Start Test Date	2015/02/15	Test Purpose (AEUB)	Initial Test
Start Test Time	18:57:00	Start Test Date	2015/02/15
Final Test Date	2015/02/16	Start Test Time	18:57:00
Final Test Time	01:54:00	Final Test Date	2015/02/16
Job Number	S0540	Final Test Time	01:54:00
Representative	Jacob McCallie	Job Number	S0540
Prepared By	Jacob McCallie	Representative	Jacob McCallie
Report Date	2015/02/15	Prepared By	Jacob McCallie
		Report Date	2015/02/15



FLUID RECOVERY

Gas to Surface

128' Mud 100% M

TOOL SAMPLE:

100% M



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: bhfarm2-20dst2

TIME ON: 2-16 20:23
TIME OFF: 2-17 03:23

Company LD Drilling Inc Lease & Well No. B-H Farms #2-20
Contractor Petromark Rig #2 Charge to LD Drilling Inc
Elevation 1863 KB Formation _____ Lan H-J Effective Pay _____ Ft. Ticket No. S0541
Date 2-16-15 Sec. 20 Twp. _____ 21 S Range _____ 12 W County _____ Stafford State KANSAS
Test Approved By Kurt Talbot Diamond Representative _____ Jacob McCallie

Formation Test No. 2 Interval Tested from 3368 ft. to 3431 ft. Total Depth _____ 3431 ft.
Packer Depth _____ 3363 ft. Size 6 3/4 in. Packer depth _____ -- ft. Size 6 3/4 in.
Packer Depth _____ 3368 ft. Size 6 3/4 in. Packer depth _____ -- ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ 3356 ft. Recorder Number _____ 5515 Cap. _____ 5,000 P.S.I.
Bottom Recorder Depth (Outside) _____ 3403 ft. Recorder Number _____ 5586 Cap. _____ 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 43 Drill Collar Length _____ 123 ft. I.D. _____ 2 1/4 in.
Weight _____ 9.2 Water Loss _____ 10.4 cc. Weight Pipe Length _____ 0 ft. I.D. _____ 2 7/8 in.
Chlorides _____ 7,200 P.P.M. Drill Pipe Length _____ 3219 ft. I.D. _____ 3 1/2 in.
Jars: Make STERLING Serial Number _____ NA Test Tool Length _____ 26 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length _____ 63 (31.5 A) 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: 1/4" Blow- Built to BB in 18 min **NOBB**
2nd Open: 2 1/2" Blow- Built to BB in 13 min **NOBB**

Recovered _____ 182 ft. of GIP
Recovered _____ 67 ft. of SLOC SLWCM 10% O 10% W 80% M
Recovered _____ 67 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Recovered _____ ft. of _____	Insurance
Remarks: <u>Diesel in bucket</u>	
<u>Tool Sample: 22% O 48% W 30% M</u>	Total

Time Set Packer(s) 2-16 10:17 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 2-17 1:17 AM ^{A.M.}/_{P.M.} Maximum Temperature _____ 100

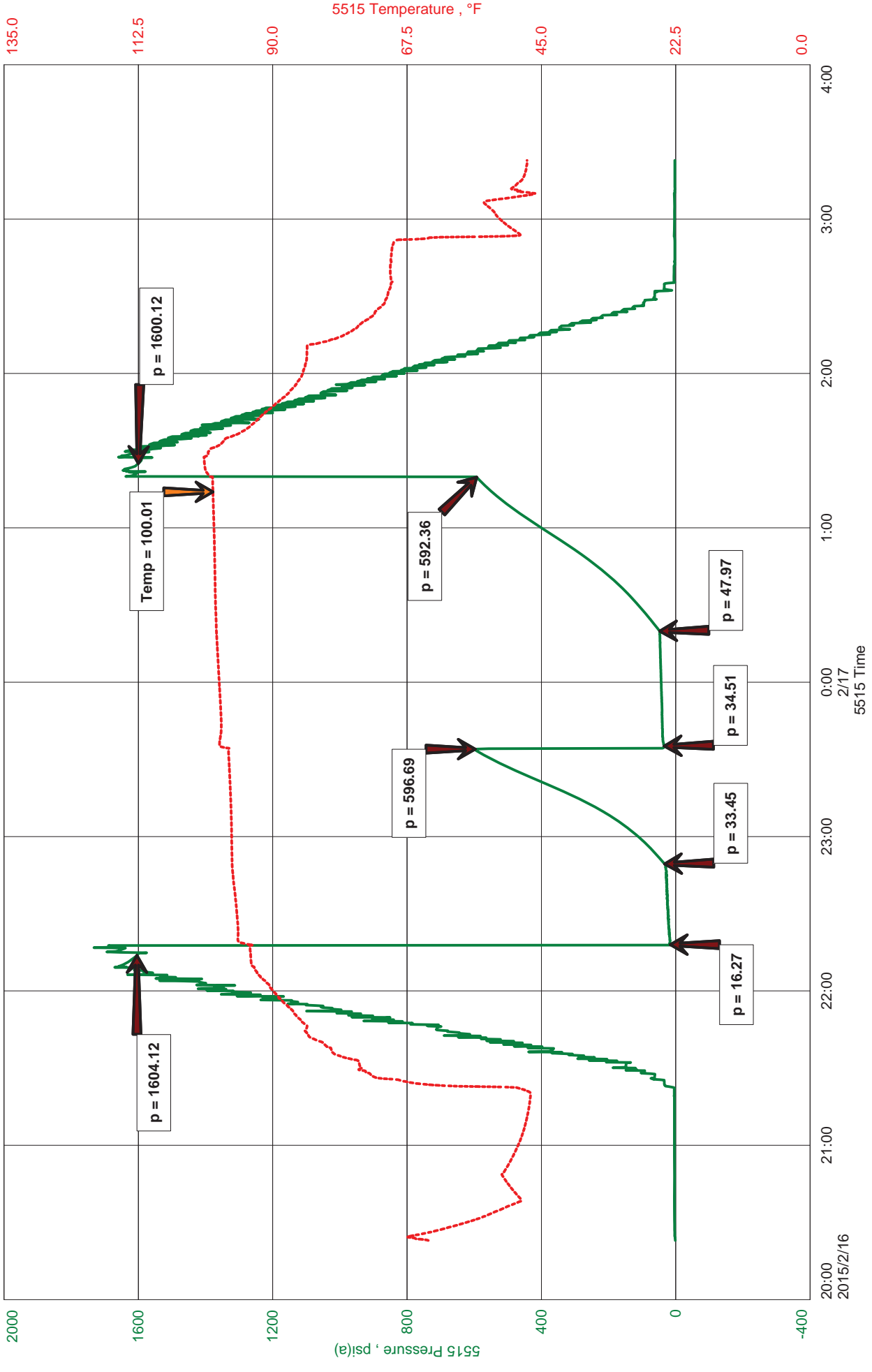
Initial Hydrostatic Pressure..... (A) _____ 1604 P.S.I.
Initial Flow Period..... Minutes 30 (B) _____ 16 P.S.I. to (C) _____ 33 P.S.I.
Initial Closed In Period..... Minutes 45 (D) _____ 597 P.S.I.
Final Flow Period..... Minutes 45 (E) _____ 35 P.S.I. to (F) _____ 48 P.S.I.
Final Closed In Period..... Minutes 60 (G) _____ 592 P.S.I.
Final Hydrostatic Pressure..... (H) _____ 1600 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 LANS H-J 3368-3431'
 Start Test Date: 2015/02/16
 Final Test Date: 2015/02/17

B-H Farms #2-20
 Formation: DST #2 LANS H-J 3368-3431'
 Pool: Infield
 Job Number: S0541

B-H Farms #2-20



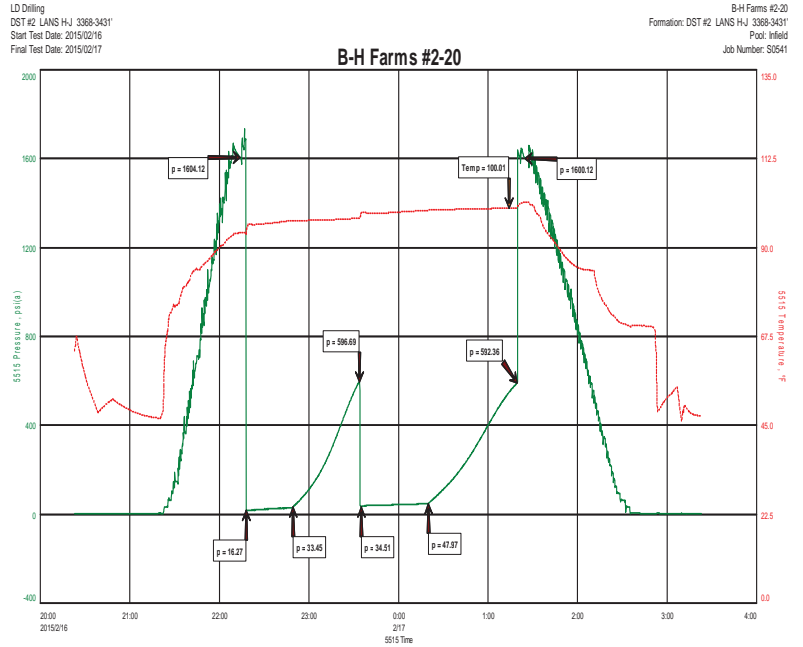


Hoisington, Kansas

JACOB MCCALLIE
620-617-7116
mccallie.dtlc@gmail.com

General Information

Company Name	LD Drilling	Contact	LD Davis
Well Name	B-H Farms #2-20	Well Name	B-H Farms #2-20
Unique Well ID	DST #2 LANS H-J 3368-3431'	Surface Location	SEC 20-21S-12W Stafford County
Field	Mueller	Well Operator	LD Drilling
Well Drilling	Drill Stem Test	Test Type	Vertical
Formation	DST #2 LANS H-J 3368-3431'	Well Fluid Type	02 Gas
Well Fluid Type	02 Gas	Test Purpose (AEUB)	Initial Test
Test Purpose (AEUB)	Initial Test	Start Test Date	2015/02/16
Start Test Date	2015/02/16	Start Test Time	20:23:00
Start Test Time	20:23:00	Final Test Date	2015/02/17
Final Test Date	2015/02/17	Final Test Time	03:23:00
Final Test Time	03:23:00	Job Number	S0541
Job Number	S0541	Representative	Jacob McCallie
Representative	Jacob McCallie	Prepared By	Jacob McCallie
Prepared By	Jacob McCallie	Report Date	2015/02/16
Report Date	2015/02/16		



FLUID RECOVERY

182'	GIP	
67'	SLOCSLWCM	10% O 10% W 80% M
67'	TOTAL FLUID	

TOOL SAMPLE:
 22% O 48% W 30% M



DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: bhfarm2-20dst3

TIME ON: 2-17 21:35
 TIME OFF: 2-18 06:11

Company LD Drilling Inc Lease & Well No. B-H Farms #2-20
 Contractor Petromark Rig #2 Charge to LD Drilling Inc
 Elevation 1863 KB Formation Arbuckle Effective Pay _____ Ft. Ticket No. S0542
 Date 2-17-15 Sec. 20 Twp. 21 S Range 12 W County Stafford State KANSAS
 Test Approved By Kurt Talbot Diamond Representative Jacob McCallie

Formation Test No. 3 Interval Tested from 3467 ft. to 3567 ft. Total Depth 3567 ft.
 Packer Depth 3462 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.
 Packer Depth 3467 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3455 ft. Recorder Number 5515 Cap. 5,000 P.S.I.
 Bottom Recorder Depth (Outside) 3534 ft. Recorder Number 5586 Cap. 5,000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 47 Drill Collar Length 123 ft. I.D. 2 1/4 in.
 Weight 9.35 Water Loss 11.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 8,200 P.P.M. Drill Pipe Length 3318 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number NA Test Tool Length 26 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 100 (37A) 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: 2" Blow- Built to BB in 4 1/2 min **BBBB**
 2nd Open: 1 1/2" Blow- Built to BB in 4 min **BBBB**

Recovered 1702 ft. of GIP
 Recovered 286 ft. of CO 100% O Gravity: 41 @ 60 degrees F
 Recovered 406 ft. of HMCHGCO 32% G 38% O 30% M
 Recovered 692 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>Diesel in bucket</u>	Insurance
<u>Tool Sample: 42% O 58% M</u>	Total

Time Set Packer(s) 2-17 11:32 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 2-18 2:32 AM ^{A.M.}/_{P.M.} Maximum Temperature 101

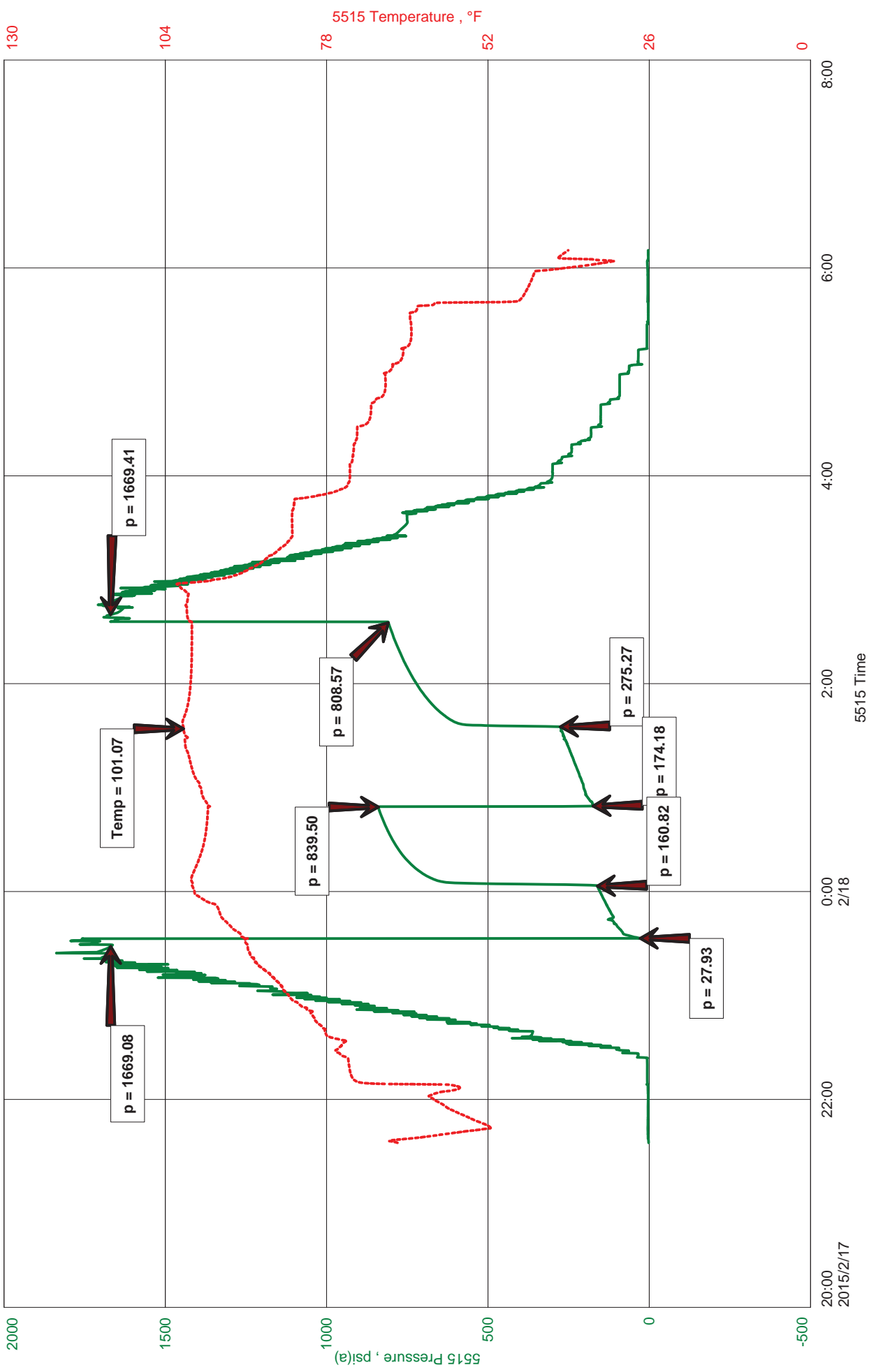
Initial Hydrostatic Pressure..... (A) 1669 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 28 P.S.I. to (C) 161 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 840 P.S.I.
 Final Flow Period..... Minutes 45 (E) 174 P.S.I. to (F) 275 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 809 P.S.I.
 Final Hydrostatic Pressure..... (H) 1669 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 Arbuckle 3467-3567'
Start Test Date: 2015/02/17
Final Test Date: 2015/02/18

B-H Farms #2-20
Formation: DST #3 Arbuckle 3467-3567'
Pool: Infield
Job Number: S0542

B-H Farms #2-20



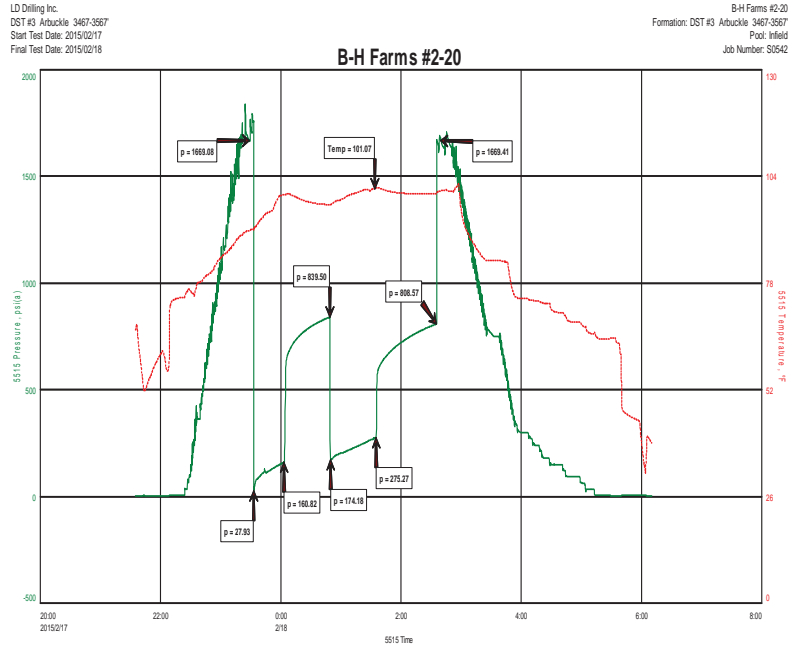


Hoisington, Kansas

JACOB MCCALLIE
620-617-7116
mccallie.dtlc@gmail.com

General Information

Company Name	LD Drilling Inc.	Contact	LD Davis
Well Name	B-H Farms #2-20	Well Name	B-H Farms #2-20
Unique Well ID	DST #3 Arbuckle 3467-3567'	Surface Location	SEC 20-21S-12W Stafford County
Field	Mueller	Well Operator	LD Drilling Inc.
Well Type	Vertical	Test Type	Drill Stem Test
Formation	DST #3 Arbuckle 3467-3567'	Well Type	Vertical
Well Fluid Type	01 Oil	Formation	DST #3 Arbuckle 3467-3567'
Test Purpose (AEUB)	Initial Test	Well Fluid Type	01 Oil
Start Test Date	2015/02/17	Test Purpose (AEUB)	Initial Test
Start Test Time	21:35:00	Start Test Date	2015/02/17
Final Test Date	2015/02/18	Start Test Time	21:35:00
Final Test Time	06:11:00	Final Test Date	2015/02/18
Job Number	S0542	Final Test Time	06:11:00
Representative	Jacob McCallie	Job Number	S0542
Prepared By	Jacob McCallie	Representative	Jacob McCallie
Report Date	2015/02/17	Prepared By	Jacob McCallie
		Report Date	2015/02/17



FLUID RECOVERY

1702'	GIP			
286'	CO	100% O	GRAVITY: 41 @ 60 degrees F	
406'	HMCHGCO	32% G 38% O 30% M		
692'	TOTAL FLUID			

TOOL SAMPLE:
 42% O 58% M



Musgrove

Petroleum Geology
212 Main Street, Claflin KS

Geologist's Report

Company: LD Drilling, Inc

Lease: BH Farms #2-20

Field: Mueller

Surface Location: W2-SE-SE-NW (2310' FNL & 2100' FWL)

Sec: 20 Twp: 21S Rge: 12W

County: Stafford State: Kansas

GL: 1858' KB: 1863'

Contractor: Petromark Drilling Rig #2

Spud: 2/11/15 Comp: 2/18/15

RTD: 3675' LTD: 3676'

Mud Up: +/- 2700' Mud Type: Chemical Displaced

Drilling Time Kept From: 2900' to RTD

Samples Saved From: 2900' to RTD

Samples Examined: 2900' to RTD

Geological Supervision: 3075' to RTD

Geologist on Well: Kurt Talbott

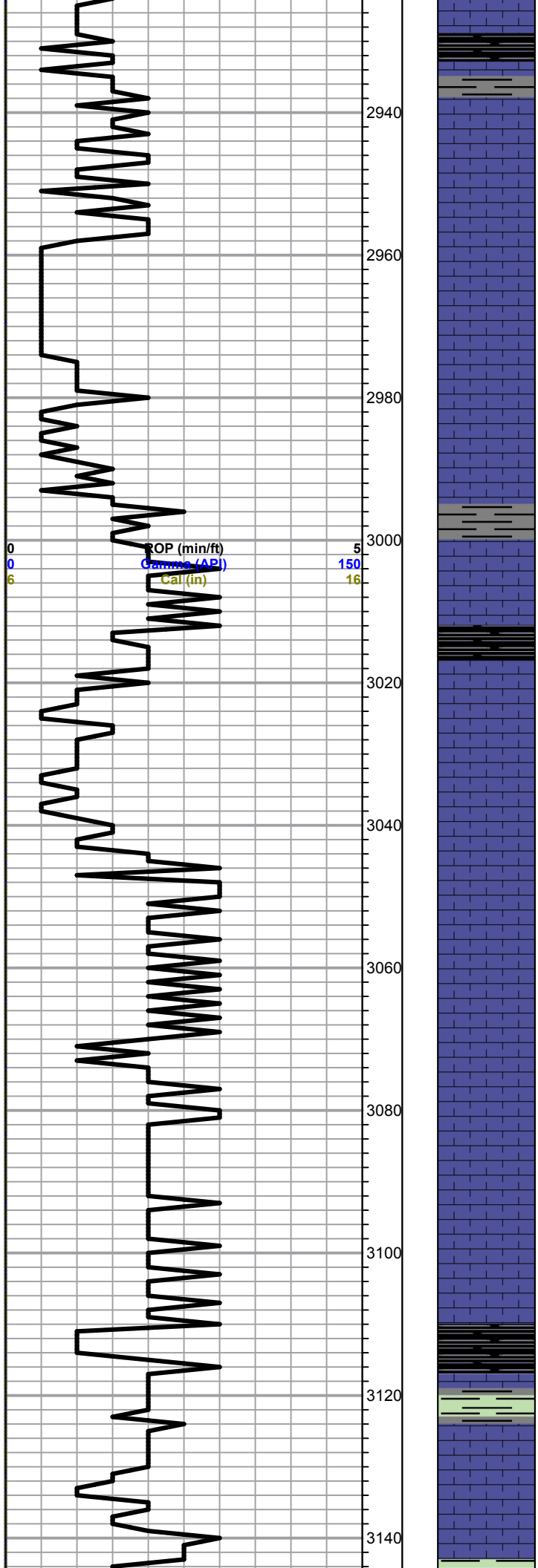
Surface Casing: 8 5/8"@ 372'

Production Casing: 5 1/2" @

Wireline Logs: By Nabors: CNL/CDL, DIL, MEL

Well Comparison

FORMATION	WELL BEING DRILLED		OFFSET		OFFSET	
	LD	LD SS	LD	SS	LD	SS
ANHYDRITE			677	1193	673	
BASE ANHYDRITE					694	
HEEBNER	3112	-1249	3118	-1248	3122	-1257
TORONTO	3130	-1267	3138	-1268	3140	-1275
DOUGLAS	3144	-1281	3152	-1282	3154	-1289
BROWN LIME	3242	-1379	3249	-1379	3252	-1387
LANSING	3256	-1393	3265	-1395	3268	-1403
BASE KC	3471	-1611	3484	-1614	3484	-1619



A/A plus Black carbon shale

Ls-gry, ool, few fossils, poor vis por, chert-gry/tan

Ls-crm/tan, fine to med xln, dolomitic in part, poor to fair iner xln to oom por, chalky

Ls-crm, fxln, dolomitic in part, poor iner xln to scattered oom por, chalky

Ls-crm/tan, fxln, ol/fossils, poor vis por, chert-gry/tan

A/A Trace black carbon shale

Ls-lt gry/crm, fxln, oo/fossils, scattered iner xln por, chalky, chert-boney wht

A/A

Ls-crm/lt gry/ wht, fxln, dolomitic in part, poor vi spor, chert-boney wht/crm

Ls-gry/tan, fxln, ool, few fossils, poor vis por, cherty in part,

Ls-gry/tan, fxln, ool/few fossils, poor vis por, cherty in part,

Heebner 3110.0 (-1247.0)
(-1249.0)

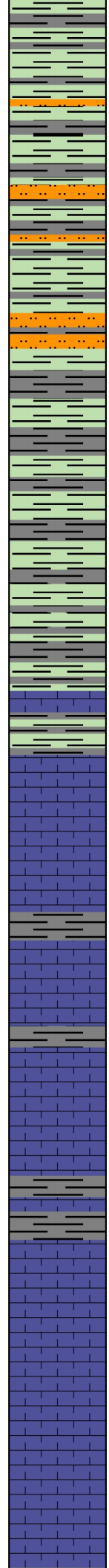
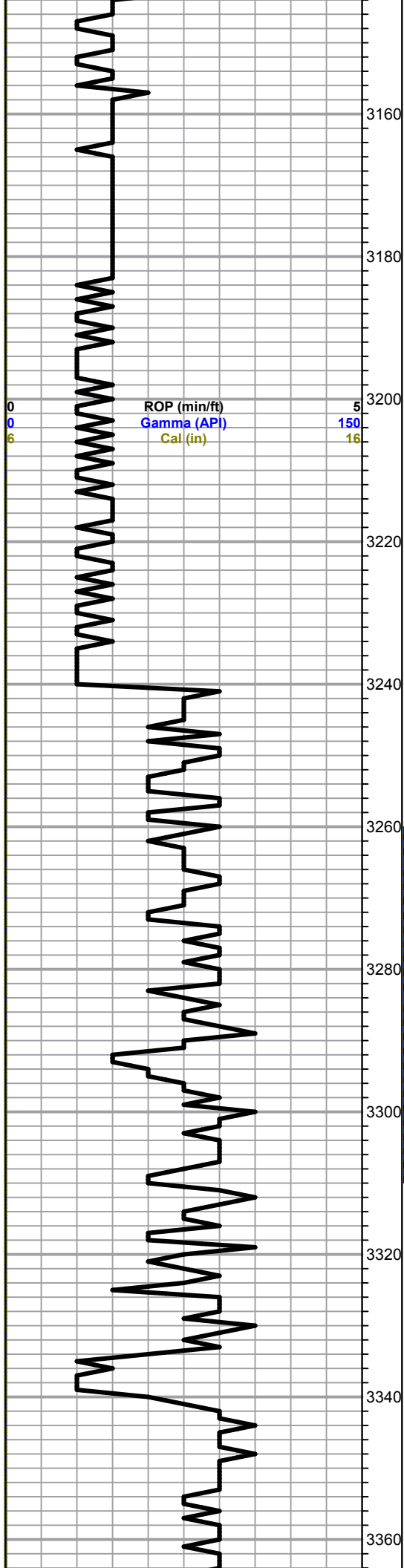
Black carbon shale

Toronto 3127.0 (-1264.0)
(-1267.0)

Ls-wht/crm, fxln, sucrosic in part, scattered ppt to iner xln por, chalky in part

Douglas 3143.0 (-1280.0)

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



(-1281.0)

Shale-brwn/grn/gry

Shale-maroon/gry/grn, soft, silty in part, mica

A/A

Shale-maroon/gry/grn, soft, silty, mica

A/A

Brown Lime 3240.0 (-1377.0)
(-1379.0)

Ls-tan/buff, fxln, dense, cherty in part, poor vis por

Lansing 3255.0 (-1392.0)
(-1393.0)

Ls-tan/crm, fxln, fossils/ool, poor vis por, cherty in part, slightly chalky

Ls-lt gry/crm, fossils, poor inner xln por, dark brown stains, TrSFO, fair odor, slightly chalky

Ls-gry/tan, fxln, fossils, poor to fair inner particle to vuggy por, dark brown stains, SFO, odor

Ls-gry/crm, fxln, ool, few fossils, poor scattered inner xln por, Trace dark brown stains, NSFO, shale-gry/brwn

Ls-crm/lt gry, fxln, ool, poor inner xln por, Trace spotty stains, NSFO, shale-gry/grn

Ls-wht/crm, fxln, ool, oom por, dark brown to black stains, NSFO, chalky

Ls-crm/tan, ool, scattered sub oom por, Trace stains, NSFO, chalky, Shale-gry/grn

Ls-tan/gry, fxln, dense, poor vis por

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

DST #1 3260-3310
30-45-45-60
IF: BOB 40 sec; GTS 7 min. Measured as follows:
10 min 654 MCF/D
20 min 654 MCF/D
30 min 654 MCF/D

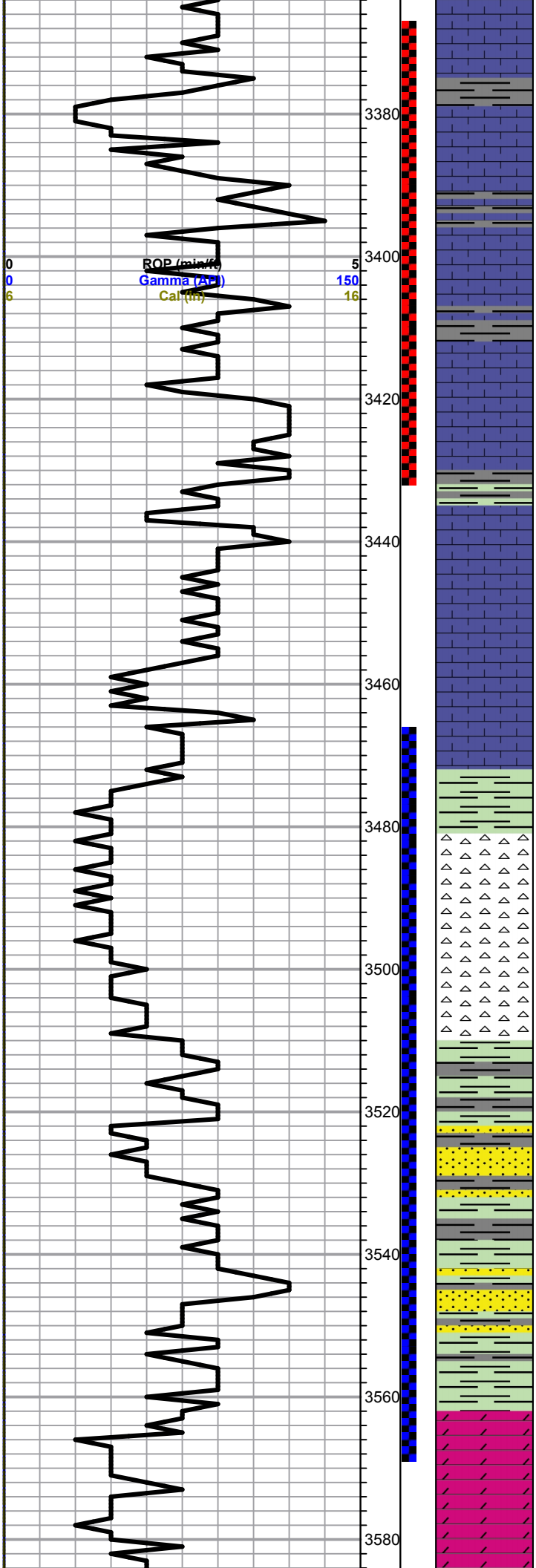
Final Flow measured as follows:
10 min 527 MCF/D
30min 527 MCF/D
45min 527 MCF/D

Recovery:
128' Mud

Pressures:
ISIP 1054 psi
FSIP 1011 psi
IFP 49-49 psi
FFP 51-46 psi
HSH 1554-1544 psi

DST #2 3368-3431
30-45-45-60
IF:BOB 18 min

Recovery:
182' GIP
67' SIOCMW
(10o 10w 80m)



Ls-tan/gry, fxln, dense, poor vis por,
 cherty in part,

 Ls-frm/tan, fxln, ool, scattered oom to
 vug por, brown stains, SFO, odor,
 slightly chalky

 Ls-frm/wht/lt gry, fxln, ool, poor vis por,
 cherty in part,

 Ls-frm/tan, fxln, ool, fair scattered vug
 por, dark brown stains, SFO, good odor,

 Ls-wht/lt gry, fxln, scattered iner xln por,
 SFO, good odor

 Ls-wht/frm, fxln, ool, poor vis por,
 chalky, Cherty in part, Shale-gry/grn

 Ls-frm/tan, fxln, poor vis por, cherty,
 chalky, shale-gry/grn

 Ls-tan/gry, fxln, ool, scattered iner ool
 por, cherty in part, Trace Stains, NSFO,
 chalky

Base KC 3474.0 (-1611.0)
(-1611.0)
 Shale-gry/grn/maroon

Viola 3480.0 (-1617.0)
(-1617.0)
 Chert-frm/tan/gry, semi-trip, dark brown
 to black stains, NSFO, very faint odor

 Chert-boney wht/frm, scattered por,
 Trace black stains, NSFO, faint gassy
 odor

Simpson 3511.0 (-1648.0)
(-1647.0)
 Shale-brwn/maroon/gry

 Shale A/A, Trace sand-wht/clear, fine
 grained, poor vis por, friable

 Shale-gry/maroon/aqua green

Arbuckle 3560.0 (-1697.0)
(-1701.0)
 Dol-frm/tan, fxln poor iner xln por,
 golden to dark brown stains, SFO, good
 odor

 Dol-cm/tan/buff, fine to med xln, fair iner
 xln to vuggy por, brown stains, SFO,
 good odor

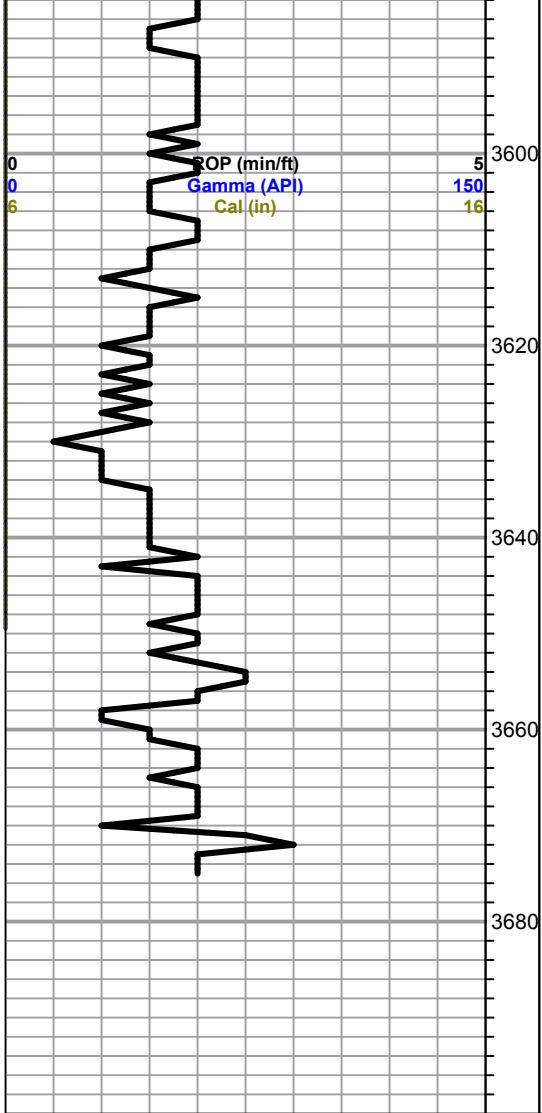
Pressures:
 ISIP 597 psi
 FSIP 592 psi
 IFP 16-33 psi
 FFP 35-48 psi
 HSH 1604-1600 psi

Total Gas (units) 100
 C1 (units) 100
 C2 (units) 100
 C3 (units) 100
 C4 (units) 100

DST #3 3467-3567
 30-45-45-60
 IF: BOB 4 1/2 min
 ISI: BOB

Recovery:
 1702' GIP
 286' Clean Oil
 406' HOGCM
 (32g 38o 30m)

Pressures:
 ISIP 840 psi
 FSIP 809 psi
 IFP 28-161 psi
 FFP 174-275 psi
 HSH 1669-1669 psi



Dol-tan/buff, f-med xln, poor to fair iner xln por, golden to dark brown stains, TrSFO, fair odor, chalky in part,

Dol-tan/buff, f-med xln, few rhomb xln, fair iner xln por, scattered brown stains, dark brown to black stains, NSFO, sour odor

Dol-crm/tan, fxln, fair iner xln por, dark brown to black spotty stains, NSFO,

A/A Chalky
Chert-tan/buff

Dol-crm/tan, fine to med xln, poor to fair iner xln por, spotty dark brwn stains, NSFO, faint odor, Chert-boney wht/crm

Dol-crm/tan, fine to med xln, poor iner xln por, spotty stains, NSFO, faint odor, chert-boney wht/crm

Total Depth 3675.0 (-1812.0)
(-1813.0)

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



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ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 12119 A

20-215-12W

DATE _____ TICKET NO. _____

DATE OF JOB 2/19/15	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 L.D. Drilling, Inc.	LEASE B H Farms	WELL NO. 1-20								
ADDRESS	COUNTY Stafford	STATE KS								
CITY	STATE	SERVICE CREW Scott, Shawn, Aaron								
AUTHORIZED BY L.D. Davis	JOB TYPE: 5 1/2 Longstring CNU									
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
27463	.5					ARRIVED AT JOB	2/19/15		PM	6:00
21010	.25					START OPERATION	2/19/15		PM	10:48
						FINISH OPERATION	2/19/15		PM	11:30
						RELEASED	2/19/15		PM	12:15
						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 L.D. Davis By D. Scott
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
CP105	AA2 Cement	SK	150		2550.00	
CP103	60/40 POZ	SK	30		360.00	
CC102	Celloflake	lb	38		140.60	
CC111	Salt	lb	816		408.00	
CC113	Gypsum	lb	705		528.75	
CC129	F/A-322	lb	113		847.50	
CC201	Gilsonite	lb	900		603.00	
CF607	Latch Down Plug + Baffle 5 1/2	Ea	1		400.00	
CF1251	Auto Fill Float Shoe 5 1/2	Ea	1		360.00	
CF1651	Carbonizers 5 1/2	Ea	6		660.00	
CF1901	5 1/2 Basket	Ea	1		290.00	
CC151	Mud Flush	Ga	500		750.00	
CC131	Sugar	lb	50		250.00	
E100	Unit Mileage Pickups, Small Vans	MI	45		202.50	
E101	Heavy Equipment Mileage	MI	90		675.00	
E113	Prop + Bulk Delivery Chrg per ton Mi	TM	376		939.38	
CE204	Depth Charge 3001-4000'	4hrs	1		2160.00	
CE240	Blending + Mixing Service Charge	SK	180		252.00	
CE504	Plug Container Utilization	Job	1		250.00	
S003	Service Supervisor first 8 hr on loc	Ea	1		175.00	
					SUB TOTAL	175.00

CHEMICAL / ACID DATA:

SUB TOTAL 12,801.73
 SERVICE & EQUIPMENT %TAX ON \$
 MATERIALS %TAX ON \$

TOTAL 8,961.21

Discounted Total 8,961.21

SERVICE REPRESENTATIVE <u>[Signature]</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>L.D. Davis</u> By <u>D. Scott</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
----------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------

FIELD SERVICE ORDER NO.

Customer <i>L.D. Drilling, Inc</i>		Lease No.		Date <i>2/19/15</i>	
Lease <i>BH Farms</i>		Well # <i>1-20</i>			
Field Order # <i>12119 A</i>	Station <i>Pratt KS</i>	Casing <i>5 1/2</i>	Depth <i>3670</i>	County <i>Stafford</i>	State <i>KS</i>
Type Job <i>5 1/2 Long string CNW</i>			Formation	Legal Description <i>70 215 1242</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			5 Min.	
Depth <i>3670</i>	Depth	From	To	Pad	Min		10 Min.	
Volume <i>87.3460</i>	Volume	From	To	Frac	Avg		15 Min.	
Max Press <i>2000</i>	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection <i>5 1/2</i>	Annulus Vol.	From	To	Flush	Gas Volume		Total Load	
Plug Depth	Packer Depth	From	To					

Customer Representative <i>David Scott</i>			Station Manager <i>Kevin Cordley</i>			Treater <i>Scott Graves</i>		
Service Units	<i>38970</i>	<i>27463</i>	<i>70959</i>	<i>21010</i>				
Driver Names	<i>Scott</i>	<i>Shawn</i>	<i>Aaron</i>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>6:00</i>					<i>On Location Safety meeting Rig up</i>
<i>8:00</i>					<i>Run Flood Equipment Tubs# 1,3,5,7,9,11</i>
					<i>13 Tubset #5</i>
<i>9:45</i>					<i>Circulate on bottom 1 hour</i>
<i>10:48</i>	<i>400</i>			<i>4.5</i>	<i>Pump H2O spacer</i>
<i>10:49</i>	<i>500</i>		<i>5</i>	<i>4.7</i>	<i>Pump Mud Flush</i>
<i>10:54</i>	<i>500</i>		<i>24</i>	<i>5.6</i>	<i>Pump H2O spacer</i>
<i>10:55</i>	<i>400</i>		<i>5</i>	<i>5.8</i>	<i>Mix 150 sks AA2 Cement 14.8 API</i>
<i>11:03</i>	<i>0</i>		<i>41.2</i>		<i>Shut down</i>
<i>11:04</i>					<i>Wash pump + lines</i>
<i>11:05</i>	<i>0</i>			<i>6.9</i>	<i>Start Displacement</i>
<i>11:15</i>	<i>300</i>		<i>61</i>	<i>5.5</i>	<i>lift pressure</i>
<i>11:22</i>	<i>700</i>		<i>26</i>	<i>3</i>	<i>Plug landed</i>
<i>11:22</i>	<i>1300</i>				<i>Pressure up on plug</i>
<i>11:23</i>					<i>Release Pressure NO Returns</i>
<i>11:27</i>	<i>0</i>			<i>3</i>	<i>Plug cut hole 30 sks 60/40 P02</i>
<i>11:30</i>			<i>8</i>		<i>Shut down</i>
					<i>Job Complete</i>



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PRESSURE PUMPING & WIRELINE

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Phone 620-672-1201

FIELD SERVICE TICKET
1718 12119 A

20-215-12W

DATE _____ TICKET NO. _____

DATE OF JOB 2/19/15	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 L.D. Drilling, Inc	LEASE B H Farms						WELL NO. 1-20			
ADDRESS	COUNTY Stafford	STATE KS								
CITY	STATE	SERVICE CREW Scott, Shawn, Aaron								
AUTHORIZED BY L.D. Davis	JOB TYPE: 5 1/2 Longstring CNU									
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
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21010	.25					START OPERATION	2/19/15		PM	10:48
						FINISH OPERATION	2/19/15		PM	11:30
						RELEASED	2/19/15		PM	12:15
						MILES FROM STATION TO WELL				

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

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SIGNED L.D. Davis By D. Scott
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
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CC102	Celloflake	lb	38		140.60
CC111	Salt	lb	816		408.00
CC113	Gypsum	lb	705		528.75
CC129	F/A-322	lb	113		847.50
CC201	Gilsonite	lb	900		603.00
CF607	Latch Down Plug + Baffle 5 1/2	Ea	1		400.00
CF1251	Auto Fill Float Shoe 5 1/2	Ea	1		360.00
CF1651	Carbonizers 5 1/2	Ea	6		660.00
CF1901	5 1/2 Basket	Ea	1		290.00
CC151	Mud Flush	Ga	500		750.00
CC131	Sugar	lb	50		250.00
E100	Unit Mileage Pickups, Small Vans	MI	45		202.50
E101	Heavy Equipment Mileage	MI	90		675.00
E113	Prop + Bulk Delivery Chrg per ton Mi	TM	376		939.38
CE204	Depth Charge 3001-4000'	4hrs	1		2160.00
CE240	Blending + Mixing Service Charge	SK	180		252.00
CE504	Plug Container Utilization	Job	1		250.00
S003	Service Supervisor first 8 hr on loc	Ea	1		175.00
SUB TOTAL					175.00

CHEMICAL / ACID DATA:

SUB TOTAL 12,801.73
 SERVICE & EQUIPMENT %TAX ON \$
 MATERIALS %TAX ON \$

TOTAL 8,961.21

Discounted Total 8,961.21

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FIELD SERVICE ORDER NO.

Customer <i>L.D. Drilling, Inc</i>		Lease No.		Date <i>2/19/15</i>	
Lease <i>BH Farms</i>		Well # <i>1-20</i>			
Field Order # <i>12119 A</i>	Station <i>Pratt KS</i>	Casing <i>5 1/2</i>	Depth <i>3670</i>	County <i>Stafford</i>	State <i>KS</i>
Type Job <i>5 1/2 Long string CNW</i>			Formation	Legal Description <i>70 215 1242</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			5 Min.	
Depth <i>3670</i>	Depth	From	To	Pad	Min		10 Min.	
Volume <i>87.3460</i>	Volume	From	To	Frac	Avg		15 Min.	
Max Press <i>2000</i>	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection <i>5 1/2</i>	Annulus Vol.	From	To	Flush	Gas Volume		Total Load	
Plug Depth	Packer Depth	From	To					

Customer Representative <i>David Scott</i>			Station Manager <i>Kevin Cordley</i>			Treater <i>Scott Graves</i>		
Service Units	<i>38970</i>	<i>27463</i>	<i>70959</i>	<i>21010</i>				
Driver Names	<i>Scott</i>	<i>Shawn</i>	<i>Aaron</i>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>6:00</i>					<i>On Location Safety meeting Rig up</i>
<i>8:00</i>					<i>Run Flood Equipment Tubs# 1,3,5,7,9,11</i>
					<i>13 Tubset #5</i>
<i>9:45</i>					<i>Circulate on bottom 1 hour</i>
<i>10:48</i>	<i>400</i>			<i>4.5</i>	<i>Pump H2O spacer</i>
<i>10:49</i>	<i>500</i>		<i>5</i>	<i>4.7</i>	<i>Pump Mud Flush</i>
<i>10:54</i>	<i>500</i>		<i>24</i>	<i>5.6</i>	<i>Pump H2O spacer</i>
<i>10:55</i>	<i>400</i>		<i>5</i>	<i>5.8</i>	<i>Mix 150 sks AA2 Cement 14.8 API</i>
<i>11:03</i>	<i>0</i>		<i>41.2</i>		<i>Shut down</i>
<i>11:04</i>					<i>Wash pump + lines</i>
<i>11:05</i>	<i>0</i>			<i>6.9</i>	<i>Start Displacement</i>
<i>11:15</i>	<i>300</i>		<i>61</i>	<i>5.5</i>	<i>lift pressure</i>
<i>11:22</i>	<i>700</i>		<i>26</i>	<i>3</i>	<i>Plug landed</i>
<i>11:22</i>	<i>1300</i>				<i>Pressure up on plug</i>
<i>11:23</i>					<i>Release Pressure NO Returns</i>
<i>11:27</i>	<i>0</i>			<i>3</i>	<i>Plug cut hole 30 sks 60/40 P02</i>
<i>11:30</i>			<i>8</i>		<i>Shut down</i>
					<i>Job Complete</i>