



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1238217
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: _____



1238217

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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	DODGE 2-31
Doc ID	1238217

Tops

Name	Top	Datum
ANHYDRITE	784	+1053
BASE ANHYDRITE	806	+1031
TOPEKA	2779	-942
HEEBNER	3025	-1188
BROWN LIME	3100	-1263
LANSING	3109	-1272
BASE KANSAS CITY	3311	-1474
ARBUCKLE	3335	-1498



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

31-17-13

FIELD SERVICE TICKET
1718 11684 A

DATE _____ TICKET NO. _____

DATE OF JOB <u>11-15-14</u> DISTRICT <u>Pratt</u>		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 <u>L.O. Drilling inc.</u>		LEASE <u>Dodge</u> WELL NO. <u>2-31</u>							
ADDRESS		COUNTY <u>Barber</u> STATE <u>KS</u>							
CITY STATE		SERVICE CREW <u>Marral, Hanson, Gibson</u>							
AUTHORIZED BY		JOB TYPE: <u>CNW 8 1/2" Surface</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>37586</u>	<u>5</u>						<u>11-14-14</u>		<u>10:30</u>
						ARRIVED AT JOB	<u>11-15-14</u>		<u>1:00</u>
						START OPERATION			<u>6:45</u>
<u>77686/19905</u>	<u>5</u>					FINISH OPERATION			<u>11:45</u>
<u>19959/73768</u>	<u>5</u>					RELEASED			<u>12:30</u>
						MILES FROM STATION TO WELL			<u>65</u>

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 Brandon D. Wells
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 101	A-CO ₂ BLEND CNT	SK	175		3,150 00
CP 100C	COMMON CNT	SK	200		3,200 00
CC 102	CELLULOSE	lb	94		347 60
CC 109	Calcium Chloride	lb	871		914 55
CF 105	JOB RUBBER Plug 8 1/2"	EA	1		225 00
E 100	P.Y. Miles	Mi	65		292 50
E 101	HEAVY EQ Miles	Mi	130		975 00
E 113	PROP. + Bulk P-1	rm	1147		2,868 13
GP 201	DEPTH charge 501-1000'	4hr	1		1,200 00
CC 240	Blend + Mix charge	SK	375		525 00
CC 504	Plug container	JOB	1		250 00
5005	Supervisor	EA	1		175 00
SUB TOTAL					<u>14,122.98</u>

CHEMICAL / ACID DATA:

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

TOTAL 10,874 69

SERVICE REPRESENTATIVE Mike Marral

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: x Brandon D. Wells
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer LD Drilling	Lease No.	Date 11-15-14
Lease Doppe	Well # 2-31	
Field Order # 11684	Station Pratt	Casing 8 5/8
		Depth 805.24
Type Job CNW SURFACE 8 5/8	Formation	Legal Description 31-17-13
		County Barton
		State Ks

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size 8 5/8	Tubing Size	Shots/Ft		Acid 175 SK A-con	RATE 3%	PRESS 25	ISIP 25
Depth 805.24	Depth	From	To	Pre-Pad 200 SK	Max 2%	Min	5 Min 2%
Volume 30.3	Volume	From	To	Pad			10 Min.
Max Press 500	Max Press	From	To	Frac	Avg		15 Min.
Well Connection P.C.	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 765.24	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative	Station Manager	Treater
37586	77686	19905
MATTM	HANSON	GILSON
19959	73766	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1:00					ON LOCATION / SAFETY MEETING
4:45					Run 8 5/8 28" casing
6:25					CASING ON BOTTOM
6:35					HOOK TO CASING / BREAK CIRC W. RIG
6:48	200		3	5	PUMP 3 BBL WATER
6:50	200		30	5	MIX 75 SKS CMT / OUT OF WATER
7:10					Circulate hole clean of cmt
10:55	200		3	5	Pump 3 BBL WATER
10:58	200		77	5	MIX 175 SKS A-con
11:15	200		42	5	MIX 200 SKS COMMON
11:24					RELEASE PLUG
11:30	300			5	START DISPLACEMENT
11:38	400		40	3	SLOW RATE
11:42	500		47.8		Plug Down, Shut in well 9 BBLs CMT TO SURFACE
					JOB COMPLETE Thank You! MIKE MATTAL JOSH + AALON

Customer <i>L.D. Drilling</i>	Lease No.	Date <i>11-20-14</i>
Lease <i>Dodge</i>	Well # <i>2-31</i>	
Field Order # <i>1522</i>	Station <i>Pratt</i>	Casing
Type Job <i>gnw PTA</i>	Formation	Depth <i>3315</i>
		County <i>Barton</i>
		State <i>KS</i>
		Legal Description <i>31-17-13</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
Depth	Depth	From	To	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 *David* Station Manager *Kevin* Treater *Joe*

Service Units	<i>84981</i>	<i>19843</i>	<i>19854</i>	<i>73768</i>	<i>92911</i>				
Driver Names	<i>JOS</i>		<i>Becky</i>		<i>Joe</i>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1600</i>					<i>ON LOC / safety</i>
<i>1930</i>	<i>200</i>		<i>20</i>	<i>4</i>	<i>Plug 1 set @ 3315'</i>
			<i>12</i>		<i>H2O spacer</i>
			<i>5</i>		<i>mix 50 sk of 60/40 POZ @ 13.8</i>
<i>1400</i>	<i>200</i>		<i>38</i>	<i>4</i>	<i>H2O spacer</i>
					<i>must pull 20 JTS and circ with Big</i>
<i>2036</i>	<i>100</i>		<i>10</i>	<i>4</i>	<i>Plug 2 set 850'</i>
			<i>12</i>		<i>H2O spacer</i>
			<i>2</i>		<i>mix 50 sk 60/40 POZ @ 13.8 #</i>
<i>2045</i>	<i>100</i>		<i>6</i>	<i>4</i>	<i>H2O spacer</i>
					<i>mad</i>
<i>2100</i>	<i>100</i>		<i>5</i>	<i>4</i>	<i>Plug 3 set @ 350'</i>
			<i>20</i>		<i>H2O spacer</i>
					<i>mix 80 sk 60/40 POZ @ 13.8 #</i>
<i>2108</i>	<i>100</i>		<i>1</i>	<i>4</i>	<i>H2O spacer</i>
					<i>Plug 4 set @ 40'</i>
	<i>100</i>		<i>2</i>	<i>4</i>	<i>mix 10 sk of 60/40 POZ @ 13.8 #</i>
					<i>with 5/8 Plug in Hole</i>
<i>2130</i>	<i>100</i>		<i>7</i>	<i>4</i>	<i>mix 30 sk of 60/40 POZ @ 13.8</i>
					<i>SO BH</i>
					<i>JOB COMPLETE</i>
					<i>Thank you, JAL</i>



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: dodge2-31dst1

TIME ON: 05:38
TIME OFF: 11:43

Company LD Drilling Inc. Lease & Well No. Dodge #2-31
Contractor Petromark Drilling Rig 2 Charge to LD Drilling Inc.
Elevation 1837 KB Formation Arbuckle Effective Pay _____ Ft. Ticket No. S0517
Date 11-19-14 Sec. 31 Twp. _____ 17 S Range _____ 13 W County _____ Barton State KANSAS
Test Approved By Kim Shoemaker Diamond Representative _____ Jacob McCallie

Formation Test No. 1 Interval Tested from 3307 ft. to 3347 ft. Total Depth 3347 ft.
Packer Depth 3302 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3307 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3288 ft. Recorder Number 5515 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3310 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 58 Drill Collar Length 123 ft. I.D. 2 1/4 in.
Weight 8.9 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4,600 P.P.M. Drill Pipe Length 3151 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 4 Test Tool Length 33 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. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: 1/4" Blow- Built to 1 1/4" in 30 min **NOBB**
2nd Open: No Blow- Built to WSB in 30 min **NOBB**

Recovered 2 ft. of CO 100% O GRAVITY: 35 @ 60 degrees F
Recovered 26 ft. of SLOCM 5% O 95% M
Recovered 28 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 78% M</u>	Total

Time Set Packer(s) 8:01 AM A.M. Time Started Off Bottom 10:01 AM P.M. Maximum Temperature 100

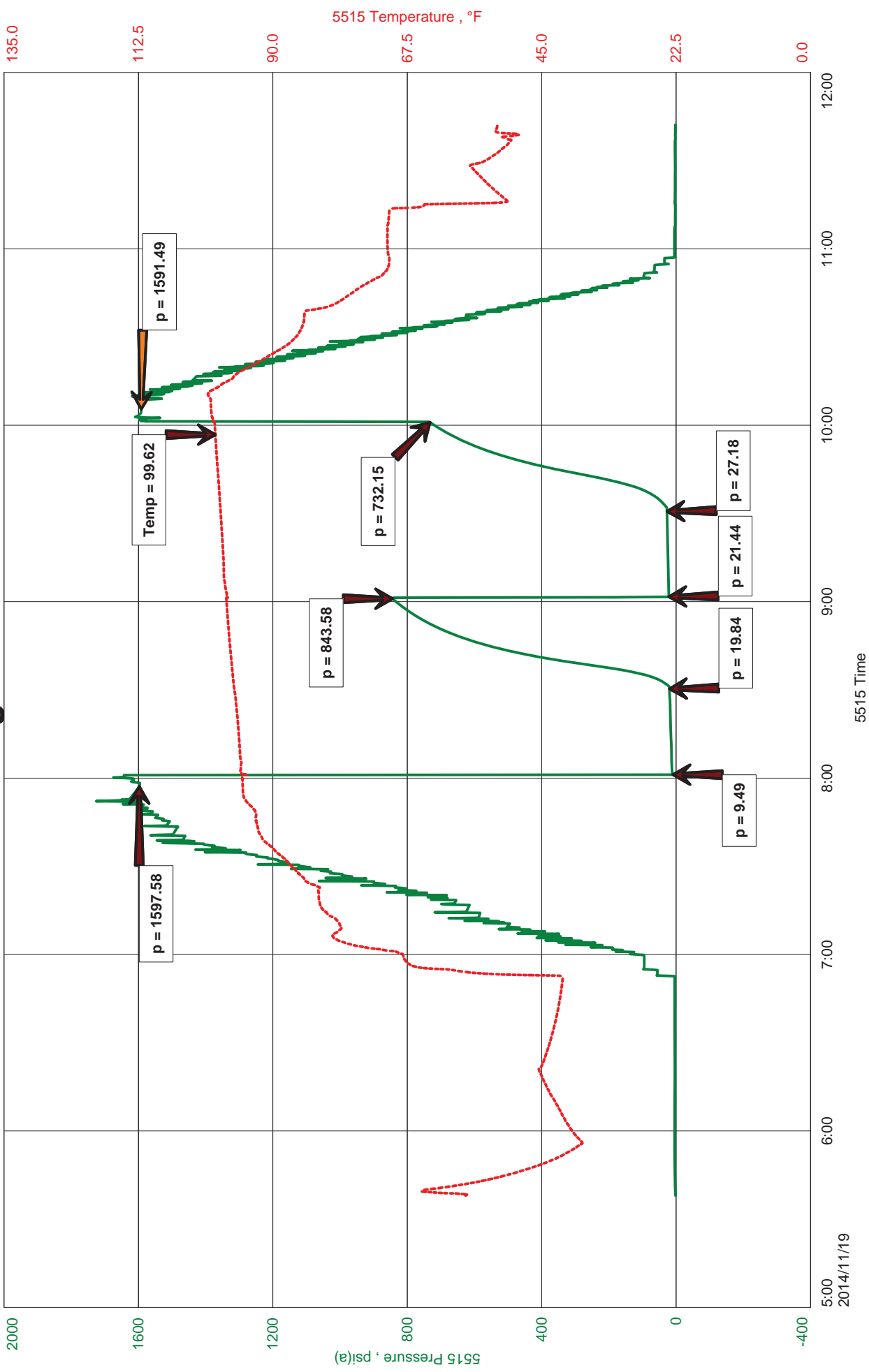
Initial Hydrostatic Pressure..... (A) 1598 P.S.I.
Initial Flow Period..... Minutes 30 (B) 9 P.S.I. to (C) 20 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 844 P.S.I.
Final Flow Period..... Minutes 30 (E) 21 P.S.I. to (F) 27 P.S.I.
Final Closed In Period..... Minutes 30 (G) 732 P.S.I.
Final Hydrostatic 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 #1 Arbuckle 3307-3347'
Start Test Date: 2014/11/19
Final Test Date: 2014/11/19

Dodge #2-31
Formation: DST #1 Arbuckle 3307-3347'
Pool: Infield
Job Number: S0517

Dodge #2-31





Hoisington, Kansas

JACOB MCCALLIE
620-627-7116
mccallie.dtlc@gmail.com

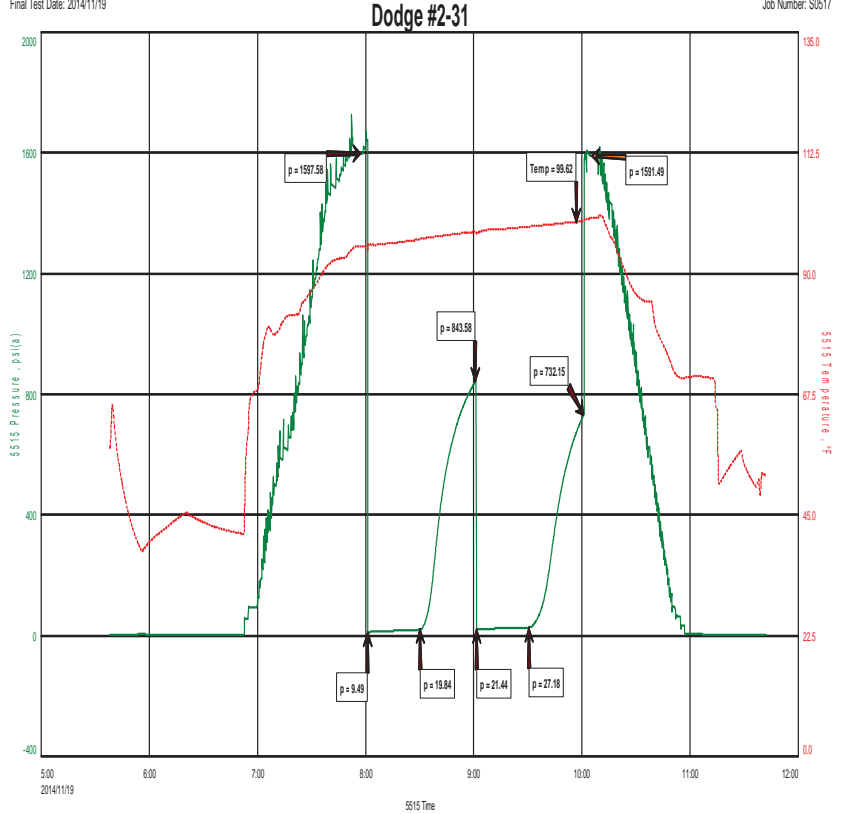
General Information

Company Name LD Drilling Inc.

Contact	LD Davis
Well Name	Dodge #2-31
Unique Well ID	DST #1 Arbuckle 3307-3347'
Surface Location	SEC 31-17S-13W Barton County
Field	Finn
Well Operator	LD Drilling Inc.
Test Type	Drill Stem Test
Well Type	Vertical
Formation	DST #1 Arbuckle 3307-3347'
Well Fluid Type	01 Oil
Test Purpose (AEUB)	Initial Test
Start Test Date	2014/11/19
Start Test Time	05:38:00
Final Test Date	2014/11/19
Final Test Time	11:43:00
Job Number	S0517
Representative	Jacob McCallie
Prepared By	Jacob McCallie
Report Date	2014/11/19

LD Drilling Inc.
 DST #1 Arbuckle 3307-3347
 Start Test Date: 2014/11/19
 Final Test Date: 2014/11/19

Dodge #2-31
 Formation: DST #1 Arbuckle 3307-3347
 Pool: Infield
 Job Number: S0517



FLUID RECOVERY

2'	CO	100% O
26'	SLOCM	5% O 95% M
28'	TOTAL FLUID	

GRAVITY: 35 @ 60 degrees F

TOOL SAMPLE:
 22% O 78% M



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: dodge2-31dst2

TIME ON: 11-19 17:00
TIME OFF: 11-20 00:16

Company LD Drilling Inc. Lease & Well No. Dodge #2-31
Contractor Petromark Drilling Rig 2 Charge to LD Drilling Inc.
Elevation 1837 KB Formation Arbuckle Effective Pay _____ Ft. Ticket No. S0518
Date 11-19-14 Sec. 31 Twp. 17 S Range 13 W County Barton State KANSAS
Test Approved By Kim Shoemaker Diamond Representative Jacob McCallie

Formation Test No. 2 Interval Tested from 3305 ft. to 3354 ft. Total Depth 3354 ft.
Packer Depth 3300 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.
Packer Depth 3305 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3286 ft. Recorder Number 5515 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3342 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 56 Drill Collar Length 123 ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 6,300 P.P.M. Drill Pipe Length 3149 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 4 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 49 (17.5 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: 1/2" Blow- Built to 3 1/2" in 30 min **NOBB**
2nd Open: WSB- Built to 2 1/4" in 45 min **NOBB**

Recovered 113 ft. of OSM 2% O 98% M
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks: _____
Diesel in bucket
TOOL SAMPLE: 5% O 95% M

Time Set Packer(s) 7:00 PM A.M. Time Started Off Bottom 10:00 PM P.M. Maximum Temperature 98

Initial Hydrostatic Pressure..... (A) 1615 P.S.I.
Initial Flow Period..... Minutes 30 (B) 12 P.S.I. to (C) 37 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 837 P.S.I.
Final Flow Period..... Minutes 45 (E) 40 P.S.I. to (F) 66 P.S.I.
Final Closed In Period..... Minutes 60 (G) 794 P.S.I.
Final Hydrostatic Pressure..... (H) 1591 P.S.I.

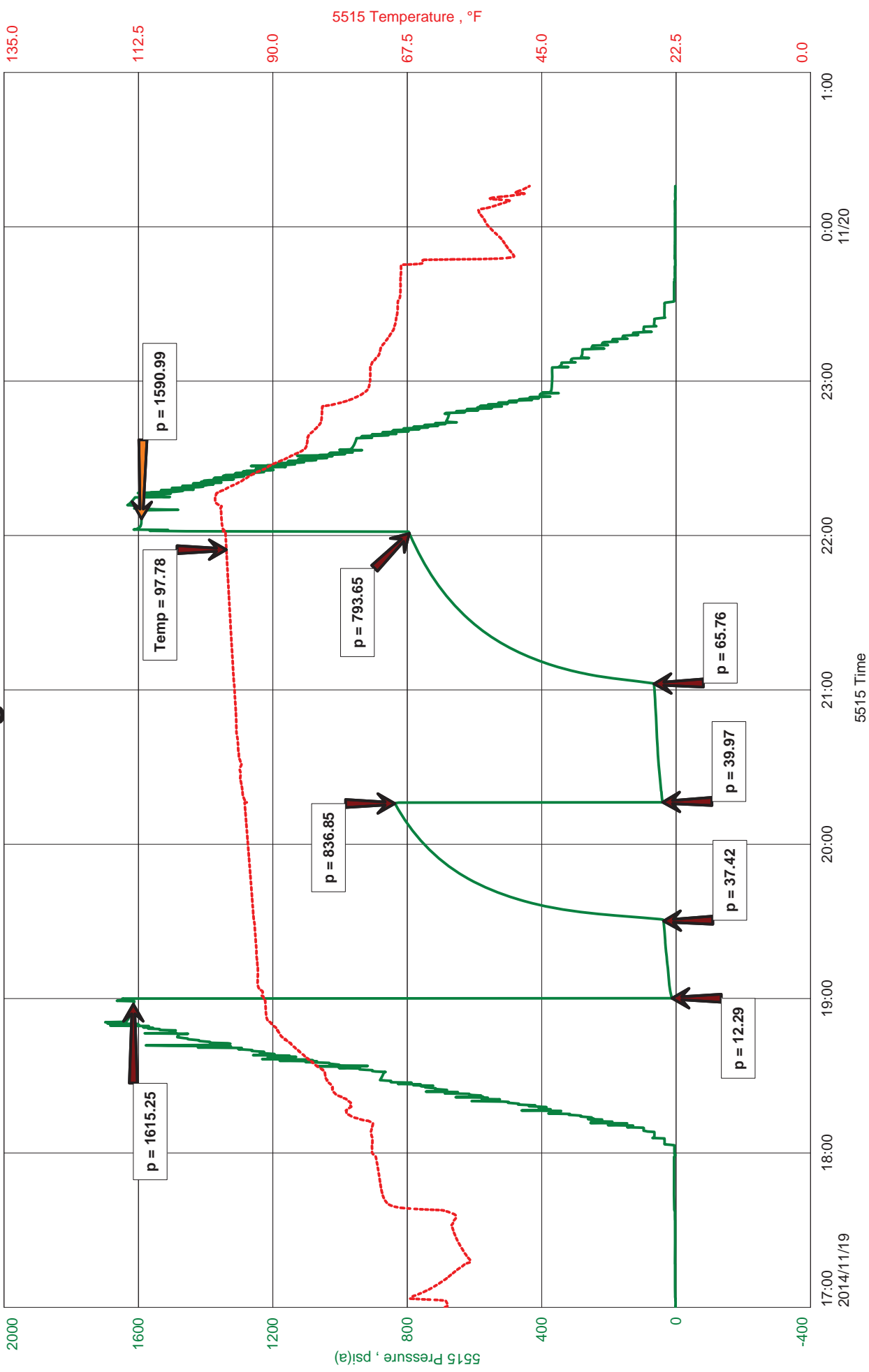
Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged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

Price Job
Other Charges
Insurance
Total

LD Drilling Inc
DST #2 Arbuckle 3305-3354'
Start Test Date: 2014/11/19
Final Test Date: 2014/11/20

Dodge #2-31
Formation: DST #2 Arbuckle 3305-3354'
Pool: Infield
Job Number: S0518

Dodge #2-31





Hoisington, Kansas

JACOB MCCALLIE
620-627-7116
mccallie.dtlc@gmail.com

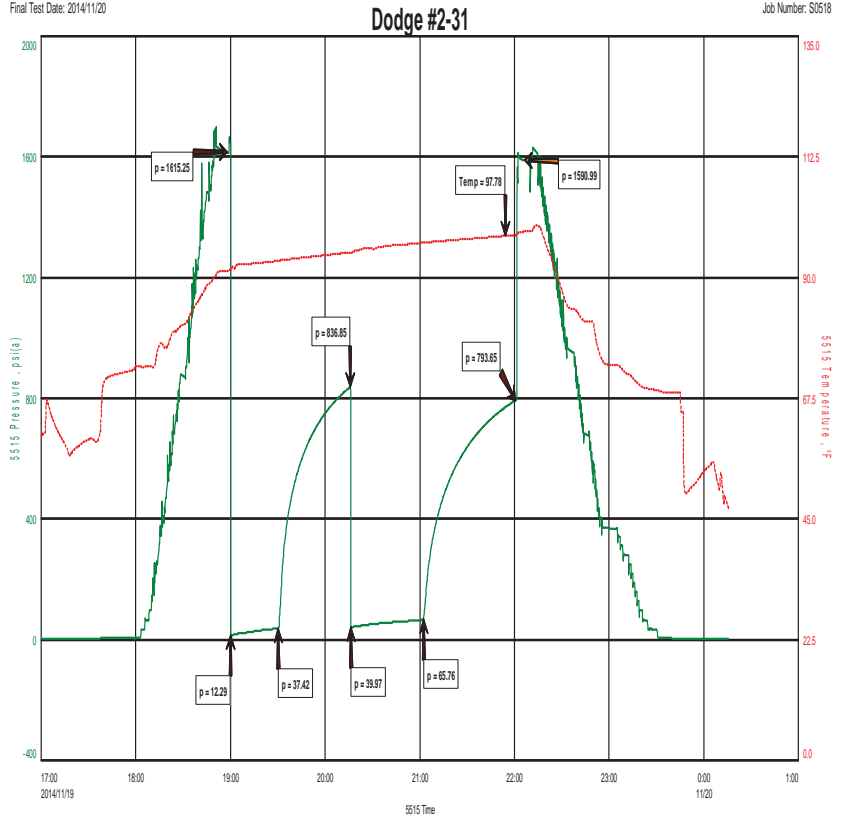
General Information

Company Name LD Drilling Inc

Contact	LD Davis
Well Name	Dodge #2-31
Unique Well ID	DST #2 Arbuckle 3305-3354'
Surface Location	SEC 31-17S-13W Barton County
Field	Finn
Well Operator	LD Drilling Inc
Test Type	Drill Stem Test
Well Type	Vertical
Formation	DST #2 Arbuckle 3305-3354'
Well Fluid Type	01 Oil
Test Purpose (AEUB)	Initial Test
Start Test Date	2014/11/19
Start Test Time	17:00:00
Final Test Date	2014/11/20
Final Test Time	00:16:00
Job Number	S0518
Representative	Jacob McCallie
Prepared By	Jacob McCallie
Report Date	2014/11/19

LD Drilling Inc
 DST #2 Arbuckle 3305-3354'
 Start Test Date: 2014/11/19
 Final Test Date: 2014/11/20

Dodge #2-31
 Formation: DST #2 Arbuckle 3305-3354'
 Pool: Infield
 Job Number: S0518



FLUID RECOVERY

113' OSM 2% O 98% M

TOOL SAMPLE:
 5% O 95% M



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: dodge2-31dst3

TIME ON: 06:07
TIME OFF: 13:11

Company LD Drilling Inc. Lease & Well No. Dodge #2-31
Contractor Petromark Drilling Rig 2 Charge to LD Drilling Inc.
Elevation 1837 KB Formation Arbuckle Effective Pay _____ Ft. Ticket No. S0519
Date 11-20-14 Sec. 31 Twp. _____ 17 S Range _____ 13 W County _____ Barton State KANSAS
Test Approved By Kim Shoemaker Diamond Representative _____ Jacob McCallie

Formation Test No. 3 Interval Tested from 3350 ft. to 3360 ft. Total Depth 3360 ft.
Packer Depth 3345 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3350 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3335 ft. Recorder Number _____ 5515 Cap. _____ 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3351 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 56 Drill Collar Length 123 ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 6,300 P.P.M. Drill Pipe Length 3198 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number SJ Test Tool Length 29 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 10 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: 1/2" Blow- Built to 5 1/2" in 30 min **NOBB**
2nd Open: WSB- Built to 5 1/2" in 45 min **NOBB**

Recovered 138 ft. of SLMCW 87% W 13% M
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks: _____
Diesel in bucket
TOOL SAMPLE: 1% O 59% W 40% M

Time Set Packer(s) 8:35 AM A.M. P.M. Time Started Off Bottom 11:35 AM A.M. P.M. Maximum Temperature 103

Initial Hydrostatic Pressure..... (A) 1643 P.S.I.
Initial Flow Period..... Minutes 30 (B) 12 P.S.I. to (C) 45 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1071 P.S.I.
Final Flow Period..... Minutes 45 (E) 47 P.S.I. to (F) 75 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1056 P.S.I.
Final Hydrostatic Pressure..... (H) 1601 P.S.I.

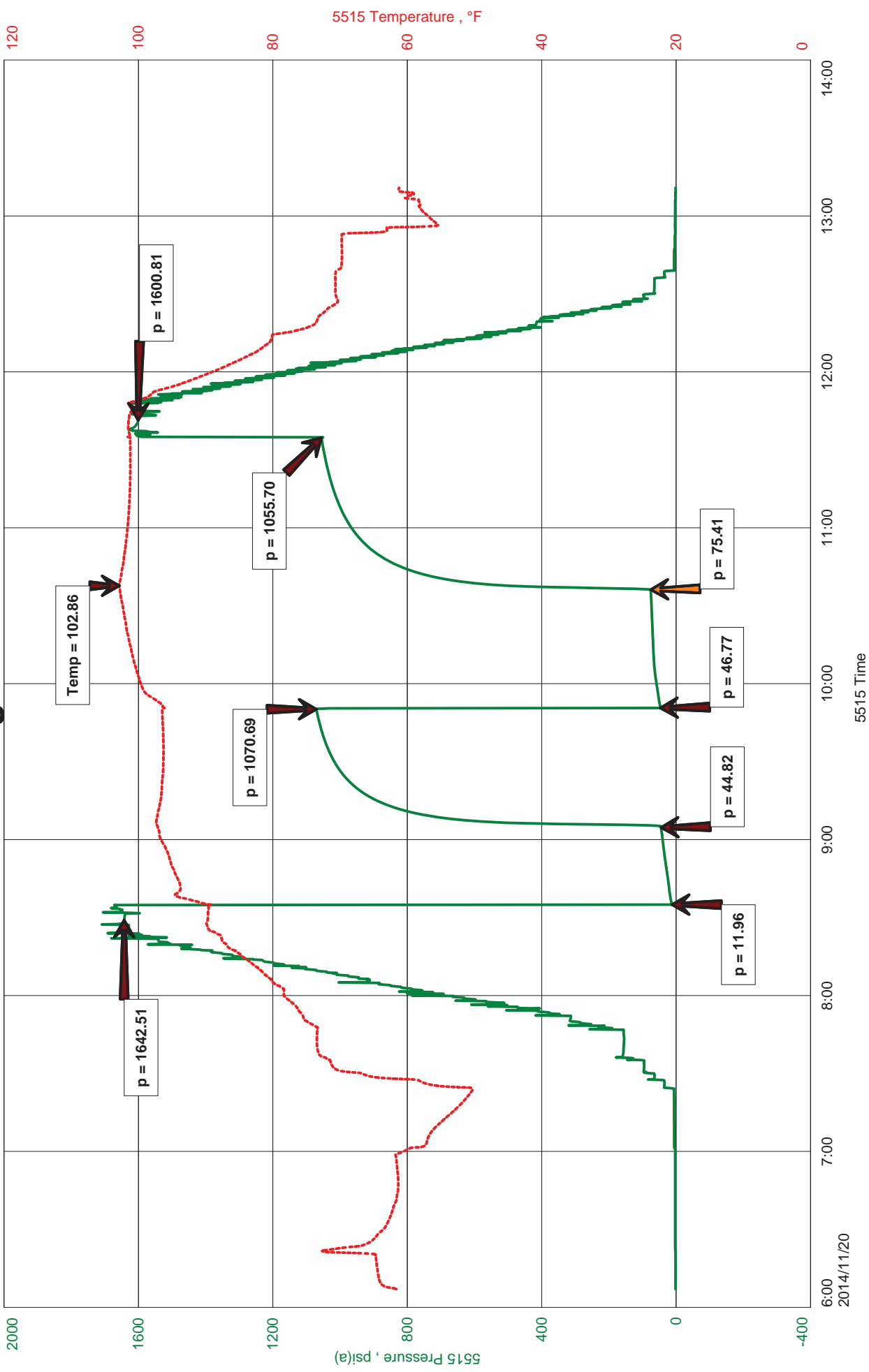
Price Job
Other Charges
Insurance
Total

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

LD Drilling Inc
DST #3 Arbuckle 3350-3360'
Start Test Date: 2014/11/20
Final Test Date: 2014/11/20

Dodge #2-31
Formation: DST #3 Arbuckle 3350-3360'
Pool: Infield
Job Number: S0519

Dodge #2-31





Hoisington, Kansas

JACOB MCCALLIE
620-627-7116
mccallie.dtlc@gmail.com

General Information

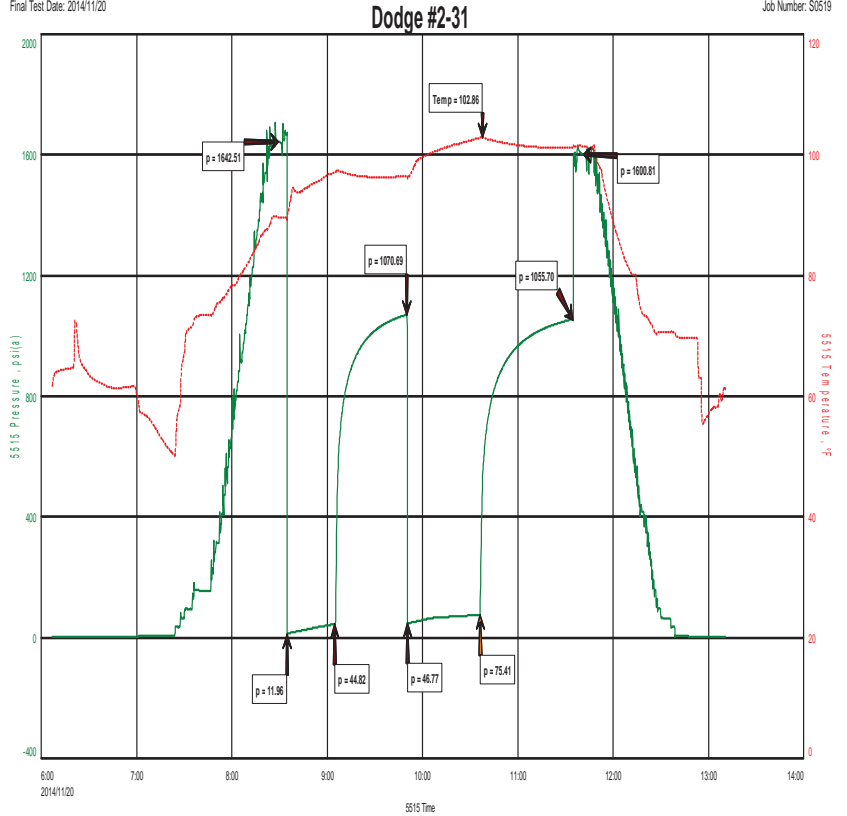
Company Name LD Drilling Inc

Contact
Well Name
Unique Well ID
Surface Location
Field
Well Operator
Test Type
Well Type
Formation
Well Fluid Type
Test Purpose (AEUB)
Start Test Date
Start Test Time
Final Test Date
Final Test Time
Job Number
Representative
Prepared By
Report Date

LD Davis
Dodge #2-31
DST #3 Arbuckle 3350-3360'
SEC 31-17S-13W Barton County
Finn
LD Drilling Inc.
Drill Stem Test
Vertical
DST #3 Arbuckle 3350-3360'
06 Water
Initial Test
2014/11/20
06:07:00
2014/11/20
13:11:00
S0519
Jacob McCallie
Jacob McCallie
2014/11/20

LD Drilling Inc
DST #3 Arbuckle 3350-3360'
Start Test Date: 2014/11/20
Final Test Date: 2014/11/20

Dodge #2-31
Formation: DST #3 Arbuckle 3350-3360'
Pool: Infield
Job Number: S0519



FLUID RECOVERY

138' slmcw 87% W 13% M

PH: 7
RW: .4 @ 50 degrees F
Chlorides: 20,000 ppm

TOOL SAMPLE:
1% O 59% W 40% M

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 * WICHITA, KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.

LEASE # 2-31 DODGE

FIELD FINN

LOCATION 620' FSL & 680' FWL

SEC 31 TWSP 176 RGE 13W

COUNTY BARTON STATE KANSAS

CONTRACTOR PETROMARK DRILLING RIG 2

SPUD 11-19-14 COMP 11-20-14

RTD 3360 LTD _____

MUD UP 2640 TYPE MUD CHEMICAL

ELEVATIONS

KB 1837

DF _____

GL 1832

Measurements Are All From 1837 KB

CASING

SURFACE 8 5/8" @ 800'

PRODUCTION _____

ELECTRICAL SURVEYS

None

SAMPLES SAVED FROM 2700 TO 3360

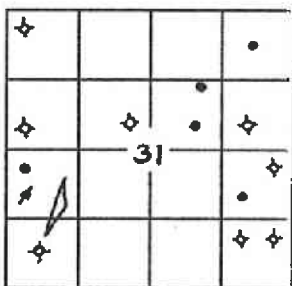
DRILLING TIME KEPT FROM 2700 TO 3360

SAMPLES EXAMINED FROM 2700 TO 3360

GEOLOGICAL SUPERVISION FROM 2900 TO 3360

GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE		784+1053
B/ANH.		806+1031
TOPEKA		2779-942
HEEBNER		3025-1188
BROWN LIME		3100-1263
LANSING		3109-1272
B/KC		3311-1474
ARBUCKLE		3335-1498
RTD		3360-1523



REMARKS

11-14-14 5200
11-15 @ 805'
11-16 @ 1365'
11-17 @ 2315'
11-18 @ 2975'
11-19 @ 3347'
11-20 @ 3360'

API: 15-009-26053

LEGEND

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

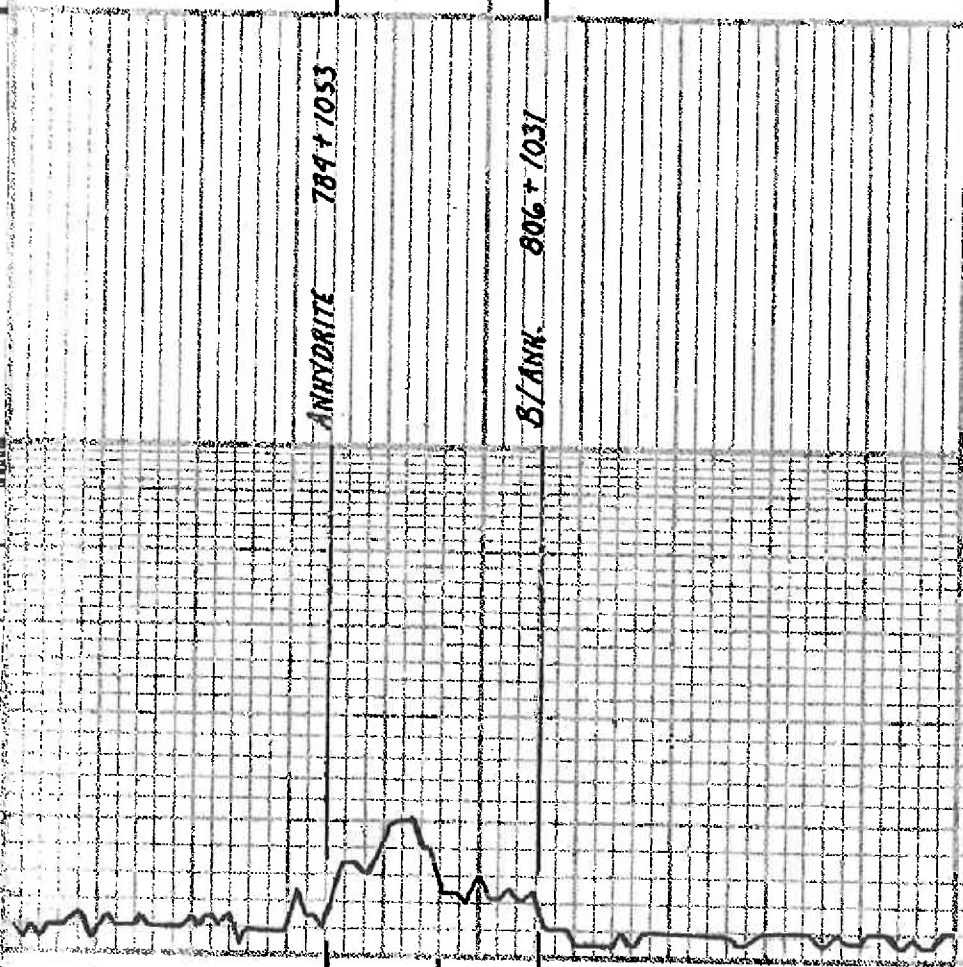
SHOE01-06

DRILLING TIME IN MINUTES
PER FOOT
Rate of Penetration Increases

DEPTH
750
800
850

SAMPLE DESCRIPTIONS

REMARKS



LITHOLOGY

850

2700

2800

2900

Samples are logged

Sh. 614

TOPEKA 2779-912

ls. 7' to 10' sh. foss. sh. chly.

ls. 11' 6" sh. foss. w/ DEEP FOSS.

ls. 12' 6" od. chly.

ls. 14' 6" sh. foss. sh. d

ls. 16' 6" Dai.

ls. 18' 6" YSH FOSS.

sh. 18k

ls. 19' 6" sh. foss.

sh. 19 1/2

ls. 21' 6" YSH FOSS. sh. d

sh. 21 1/2

ls. 23' 6" YSH FOSS. YSH. daly.

ls. 25' 6" sh. foss. sh. chly.

sh. 26k bed.

ls. 28' 6" sh. foss. sh. chly.

ls. 30' 6" od. chly.

ls. 32' 6" YSH FOSS. sh. chly.

