

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1331433  
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: \_\_\_\_\_

1331433

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](mailto: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:  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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Commingled <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	JERRY 1-29
Doc ID	1331433

Tops

Name	Top	Datum
ANHYDRITE	2917	+395
BASE ANHYDRITE	2954	+358
WAB STOTLER	3832	-520
HEEBNER	4140	-828
LANSING	4190	-878
BASE KANSAS CITY	4448	-1136
PAWNEE	4556	-1244
FORT SCOTT	4622	-1310
CHEROKEE	4649	-1337
MISSISSIPPI	4790	-1478



# DIAMOND TESTING, LLC

TESTER : TIM VENTERS  
CELL # 620-388-6333

## General Information

Company Name	L.D. DRILLING, INC.	MARILYN DAVIS	Job Number	T569
Contact		JERRY #1-29	Representative	TIM VENTERS
Well Name		DST #1, MARM./ALT., 4441-4520	Well Operator	L.D. DRILLING, INC.
Unique Well ID		SEC 29-6S-35W, THOMAS CO. KS.	Report Date	2016/11/10
Surface Location			Prepared By	TIM VENTERS
Well License Number				
Field		WILDCAT		
Well Type		Vertical		

## Test Information

Test Type	CONVENTIONAL
Formation	DST #1, MARM./ALT., 4441-4520
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2016/11/10	Start Test Time	00:15:00
Final Test Date	2016/11/10	Final Test Time	07:45:00

Gauge Name	5504
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## Test Results

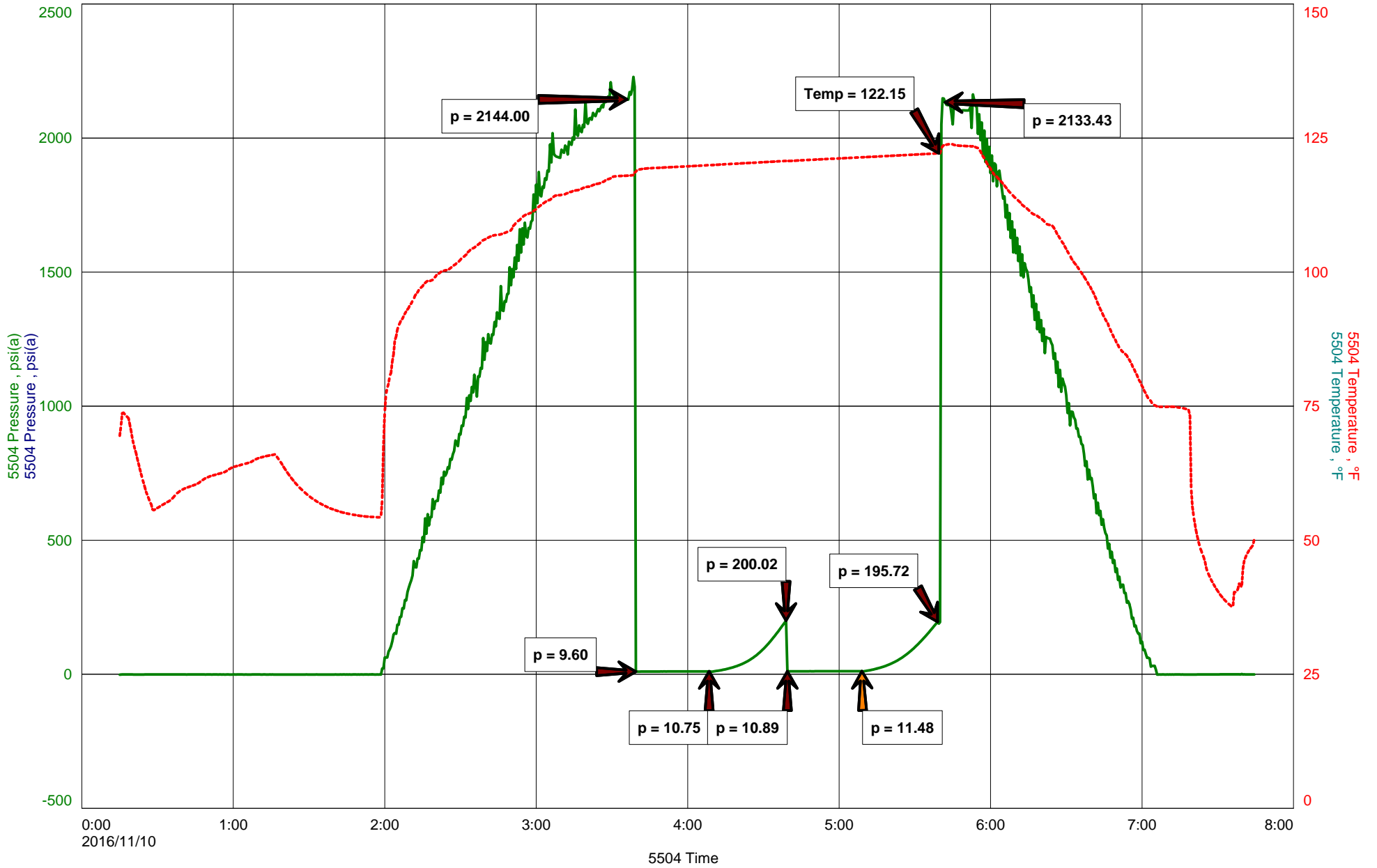
RECOVERED: 5' M W/O SPKS, OIL SPECKS, 100% MUD

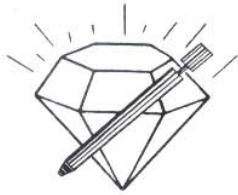
TOOL SAMPLE: TRACE OIL <1%, 100% MUD

L.D. DRILLING, INC.  
DST #1, MARM./ALT., 4441-4520  
Start Test Date: 2016/11/10  
Final Test Date: 2016/11/10

JERRY #1-29  
Formation: DST #1, MARM./ALT., 4441-4520  
Pool: WILDCAT  
Job Number: T569

# JERRY #1-29





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: JERRY1-29DST1

TIME ON: 00:15  
TIME OFF: 07:45

Company L.D. DRILLING, INC. Lease & Well No. JERRY #1-19  
Contractor L.D. DRILLING, INC. RIG #1 Charge to L.D. DRILLING, INC.  
Elevation 3312 KB Formation MARM./ALT. Effective Pay \_\_\_\_\_ Ft. Ticket No. T569  
Date 11-10-16 Sec. 29 Twp. 6 S Range 35 W County THOMAS State KANSAS  
Test Approved By KIM SHOEMAKER Diamond Representative TIM VENTERS

Formation Test No. 1 Interval Tested from 4441 ft. to 4520 ft. Total Depth 4520 ft.  
Packer Depth 4436 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4441 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
Top Recorder Depth (Inside) 4422 ft. Recorder Number 5504 Cap. 5,000 P.S.I.  
Bottom Recorder Depth (Outside) 4517 ft. Recorder Number 11029 Cap. 5,025 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 54 Drill Collar Length 0 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 3,000 P.P.M. Drill Pipe Length 4408 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 17 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. <sup>62' DP IN ANCHOR</sup> Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW, BUILDING TO 3/4 INCH. (NO BB)  
2nd Open: VERY WEAK SURFACE BLOW, LASTING 4 MIN. ( NO BB)

Recovered <u>5</u> ft. of <u>M W/ O SPKS, OIL SPECKS, 100% MUD</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>TRACE OIL &lt;1%, 100% MUD</u>	Total

Time Set Packer(s) 3:39 AM <sup>A.M.</sup> P.M. Time Started Off Bottom 5:39 AM <sup>A.M.</sup> P.M. Maximum Temperature 122 deg.  
Initial Hydrostatic Pressure..... (A) 2144 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 10 P.S.I. to (C) 11 P.S.I.  
Initial Closed In Period..... Minutes 30 (D) 200 P.S.I.  
Final Flow Period..... Minutes 30 (E) 11 P.S.I. to (F) 11 P.S.I.  
Final Closed In Period..... Minutes 30 (G) 196 P.S.I.  
Final Hydrostatic Pressure..... (H) 2133 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.

# DIAMOND TESTING, LLC

TESTER : TIM VENTERS  
CELL # 620-388-6333

## General Information

Company Name	L.D. DRILLING, INC.	MARILYN DAVIS	Job Number	T570
Contact		JERRY #1-29	Representative	TIM VENTERS
Well Name		DST #2, PAWNEE, 4525-4580	Well Operator	L.D. DRILLING, INC.
Unique Well ID			Report Date	2016/11/11
Surface Location	SEC 29-6S-35W, THOMAS CO. KS.		Prepared By	TIM VENTERS
Well License Number				
Field		WILDCAT		
Well Type		Vertical		

## Test Information

Test Type	CONVENTIONAL
Formation	DST #2, PAWNEE, 4525-4580
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2016/11/10	Start Test Time	17:28:00
Final Test Date	2016/11/11	Final Test Time	01:42:00

Gauge Name	5504
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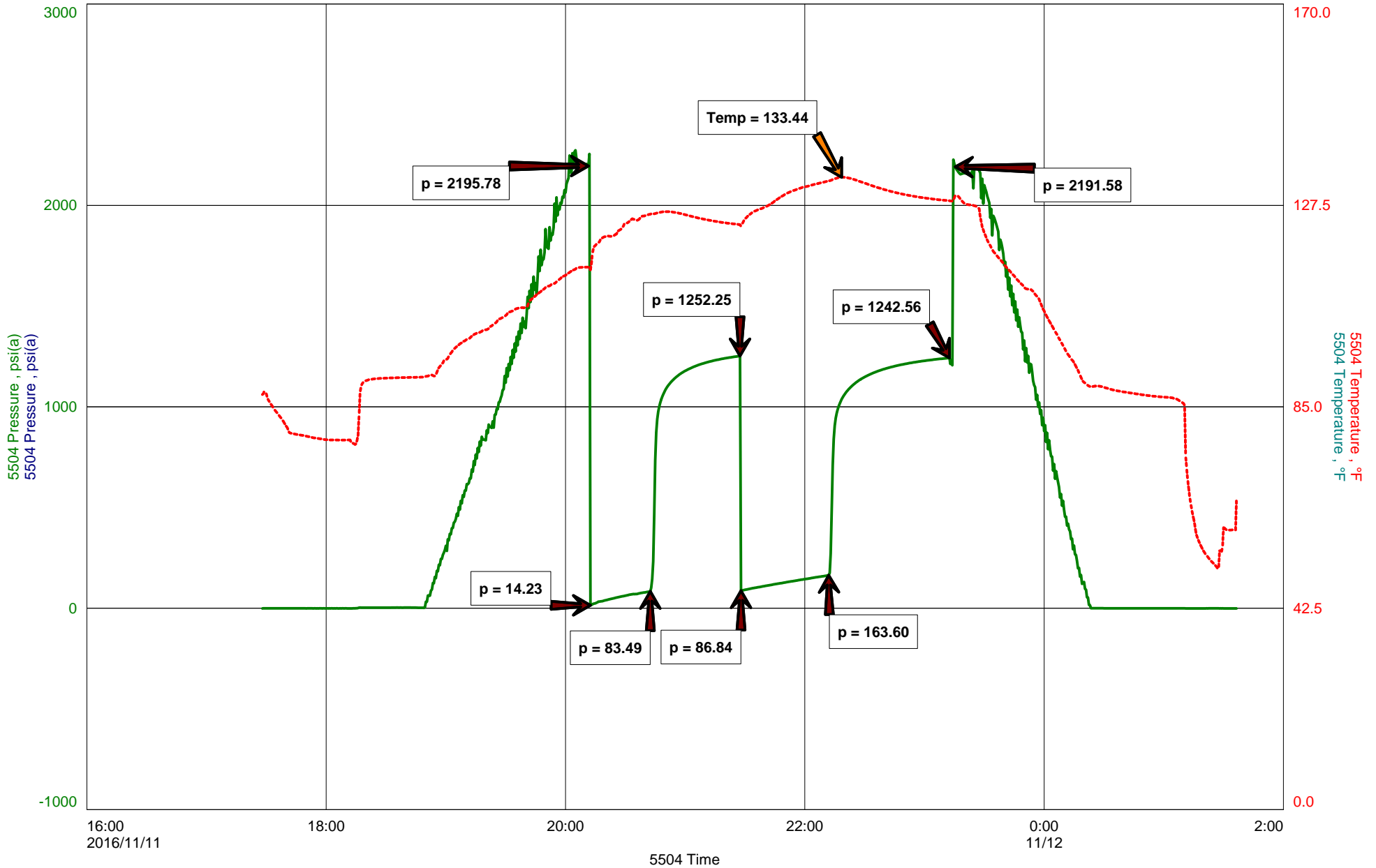
## Test Results

RECOVERED: 550' GAS IN PIPE  
110' G,SMCO, 1% GAS, 92% OIL, 7% MUD  
200' GO, 2% GAS, 98% OIL, GRAVITY: 25  
10' G,HMCO, 3% GAS, 50% OIL, 47% MUD  
60' G,HOCM, 10% GAS, 34% OIL, 56% MUD  
380' TOTAL FLUID

TOOL SAMPLE: 99% OIL, 1% MUD



# JERRY #1-29





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: JERRY1-29DST2

TIME ON: 17:28 11-10-16  
TIME OFF: 01:42 11-11-16

Company L.D. DRILLING, INC. Lease & Well No. JERRY #1-19  
Contractor L.D. DRILLING, INC. RIG #1 Charge to L.D. DRILLING, INC.  
Elevation 3312 KB Formation PAWNEE Effective Pay \_\_\_\_\_ Ft. Ticket No. T570  
Date 11-10-16 Sec. 29 Twp. \_\_\_\_\_ 6 S Range \_\_\_\_\_ 35 W County THOMAS State KANSAS  
Test Approved By KIM SHOEMAKER Diamond Representative TIM VENTERS

Formation Test No. 2 Interval Tested from 4525 ft. to 4580 ft. Total Depth 4580 ft.  
Packer Depth 4520 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4525 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

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

Top Recorder Depth (Inside) 4506 ft. Recorder Number 5504 Cap. 5,000 P.S.I.  
Bottom Recorder Depth (Outside) 4577 ft. Recorder Number 11029 Cap. 5,025 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 48 Drill Collar Length 0 ft. I.D. 2 1/4 in.  
Weight 9.3 Water Loss 10.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 4,000 P.P.M. Drill Pipe Length 4492 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 24 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. <sup>31' DP IN ANCHOR</sup> Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK 1/4 INCH BLOW, BUILDING, REACHING BOB 13 MIN. (2 3/4" BB)  
2nd Open: WEAK 1/4 INCH BLOW, BUILDING REACHING BOB 16 1/2 MIN. (4" BB)

Recovered 550 ft. of GAS IN PIPE  
Recovered 110 ft. of G,SMCO, 1% GAS, 92% OIL, 7% MUD  
Recovered 200 ft. of GO, 2% GAS, 98% OIL, GRAVITY: 25  
Recovered 10 ft. of G,HMCO, 3% GAS, 50% OIL, 47% MUD  
Recovered 60 ft. of G,HOCM, 10% GAS, 34% OIL, 56% MUD  
Recovered 380 ft. of TOTAL FLUID

Remarks: _____	Price Job
_____	Other Charges
_____	Insurance
TOOL SAMPLE: 99% OIL, 1% MUD	Total

Time Set Packer(s) 8:12 PM A.M. P.M. Time Started Off Bottom 11:12 PM A.M. P.M. Maximum Temperature 133 deg.

Initial Hydrostatic Pressure..... (A) 2196 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 14 P.S.I. to (C) 83 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 1252 P.S.I.  
Final Flow Period..... Minutes 45 (E) 87 P.S.I. to (F) 164 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 1243 P.S.I.  
Final Hydrostatic Pressure..... (H) 1292 P.S.I.

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

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

FIELD SERVICE TICKET  
1718 13932 A

29-6-35

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

DATE OF JOB <u>11/13/2016</u>	DISTRICT <u>Pratt, KS</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>LD Drilling, Inc</u>	LEASE <u>Jerry</u>						WELL NO. <u>1-29</u>			
ADDRESS	COUNTY <u>Thomas</u>	STATE <u>KS</u>								
CITY	STATE						SERVICE CREW <u>Derin, m. mcgrew, EJ</u>			
AUTHORIZED BY	JOB TYPE: <u>242/ Long Str. ns</u>									
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<u>19843</u>	<u>1</u>						<u>11/12</u>			<u>9:00</u>
<u>73768</u>	<u>1/2</u>									
						ARRIVED AT JOB	<u>11/12</u>			<u>4:00</u>
						START OPERATION	<u>11/13</u>			<u>12:30</u>
						FINISH OPERATION	<u>11/13</u>			<u>1:30</u>
						RELEASED	<u>11/13</u>			<u>2:30</u>
						MILES FROM STATION TO WELL	<u>240</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: [Signature]  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	PA2 Cement	SK	150		2,550 00
CP103	60/40 P02	SK	30		360 00
CC102	Celloflex	Lb	38		140 60
CC111	S91t	Lb	816		408 00
CC113	Gypsum	Lb	705		528 75
CC129	FLA-322	Lb	113		847 50
CC201	Gilsonite	Lb	900		603 00
CF607	Latch Down Plug & Bolt, 5/8" (Blue)	Eg	1		400 00
CF1251	Auto Fill Float shoe (Blue)	Eg	1		360 00
CF1651	Turbolizer, 5/8" (Blue)	Eg	8		880 00
CF1901	5/8" Bore" (Blue)	Eg	1		290 00
CC151	Mud Flush	Gal	1,000		1,500 00
E100	unit mileage charge - Pickup & Steno	M	100		450 00
E101	Heavy Equipment Mileage	M	200		1,500 00
E113	Proppant & Bulk Delivery Charge, per ton mile	TonM	835		2,087 50
CE205	Depth Charge, 4001-S, 000	4hr	1		2,152 00
CE240	Blending & Mixing Service Charge	SK	180		252 00
CE504	Plus container utilization charge	JOB	1		250 00
SC03	Service Supervisor, First 8 hrs on loc.	Eg	1		125 00

SUB TOTAL 16,102 35

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$		
MATERIALS	%TAX ON \$		
Discount	TOTAL	<u>8,373</u>	<u>22</u>

SERVICE REPRESENTATIVE <u>[Signature]</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>[Signature]</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
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FIELD SERVICE ORDER NO.

Customer <b>LD Drilling, Inc</b>	Lease No.	Date <b>11/13/2016</b>
Lease <b>Jerry</b>	Well # <b>1-29</b>	
Field Order # <b>13932</b>	Station <b>Pratt, KS</b>	Casing <b>5 1/2</b>
		Depth <b>4767</b>
Type Job <b>242 / Longstring</b>	Formation <b>TD-4900</b>	County <b>Thomas</b>
		State <b>KS</b>
		Legal Description <b>29-6-35</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <b>5 1/2</b>	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
Depth <b>4797</b>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <b>113 1/2</b>	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 <b>4752</b>	Packer Depth	From	To	Flush <b>Freshwater</b>	Gas Volume		Total Load	

Customer Representative <b>Rick / Kevin Goraley</b>	Station Manager <b>Kevin Goraley</b>	Treater <b>Darin Franklin</b>
Service Units <b>92911 84981 19843 19960 73768</b>		
Driver Names <b>Darin Mike McGrew Mike McGrew EJ EJ</b>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<b>11:00pm</b>					<b>On Location / Safety Meeting</b>
					<b>5 1/2 casing set &amp;</b>
					<b>T-1, 2, 3, 5, 7, 9, 11, 13 B-1</b>
					<b>150SK AA2 cement, 10% SSHT, 10% Gypsum</b>
					<b>• 8% FLA-322, 6# G. Isomite, 1/4# Cellfloc</b>
					<b>14.8 pps, 1.54 ve. H<sub>2</sub>O, 6.52 water</b>
<b>11:30pm</b>					<b>Pipe on bottom &amp; break circulation</b>
<b>11/13</b>					<b>Pump 5 bbls water</b>
<b>12:30pm</b>	<b>300</b>		<b>24</b>	<b>6</b>	<b>Pump 24 bbls Flush</b>
	<b>300</b>		<b>5</b>	<b>6</b>	<b>Pump 5 bbls water</b>
	<b>400</b>		<b>41</b>	<b>6</b>	<b>mix 150SK cement</b>
					<b>Shut down</b>
					<b>Wash Pump &amp; lines &amp; Release Plug</b>
<b>12:50pm</b>	<b>700</b>		<b>0</b>	<b>6</b>	<b>Start displacement</b>
	<b>700</b>		<b>95</b>	<b>6</b>	<b>lift Pressure</b>
	<b>800</b>		<b>103</b>	<b>3</b>	<b>slow rate</b>
<b>1:15am</b>	<b>1500</b>		<b>111 1/2</b>	<b>3</b>	<b>Bump plug</b>
					<b>Flush</b>
	<b>50</b>		<b>7</b>	<b>3</b>	<b>Plug Re+ hole</b>
<b>1:30am</b>					<b>Job complete / Darin &amp; crew</b>
					<b>Thank you!!!</b>

**L. D. DRILLING**  
 7 SW 26th Avenue  
 GREAT BEND, KS 67530

Customer \_\_\_\_\_ Order \_\_\_\_\_

Lease JERRY 137 Date \_\_\_\_\_

Description of Pipe 5

Amount 4752.79

Jts.	Ft.	Ins.	Ft.	Ins.	Ft.	Ins.	Ft.	Ins.	Ft.	Ins.
1	41	03	41	03	41	05	41	07		
2	41	03	41	03	41	03	41	03		
3	41	03	41	03	41	03	41	03		
4	41	03	41	03	41	03	41	03		
5	41	03	41	03	41	03	41	03		
6	41	03	41	03	41	03	41	03		
7	41	03	41	03	41	03	41	03		
8	41	03	41	03	41	03	41	03		
9	41	03	41	03	41	03	41	03		
10	41	03	41	03	41	03	41	03		
11	41	03	41	03	41	03	41	03		
12	41	03	41	03	41	03	41	03		
13	41	03	41	03	41	03	41	03		
14	41	03	41	03	41	03	41	03		
15	41	03	41	03	41	03	41	03		
16	41	03	41	03	41	03	41	03		
17	41	03	41	03	41	03	41	03		
18	41	03	41	03	41	03	41	03		
19	41	03	41	03	41	03	41	03		
20	41	03	41	03	41	03	41	03		
21	41	03	41	03	41	03	41	03		
22	41	03	41	03	41	03	41	03		
23	41	03	41	03	41	03	41	03		
24	41	03	41	03	41	03	41	03		
25	41	03	41	03	41	03	41	03		
26	41	03	41	03	41	03	41	03		
27	41	03	41	03	41	03	41	03		
28	41	03	41	03	41	03	41	03		
29	41	03	41	03	41	03	41	03		
30	41	03	41	03	41	03	41	03		
Total	1263	43	1257	45	1260	50	971	41		

TOTAL PIECES \_\_\_\_\_ LENGTH \_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_

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





Service Order #: 70,082C

Date: 03-Nov-16

Well Name	Location	County	St	API#		
JERRY 1-29	SEC 29-6-35	THOMAS	KS			
Formation	Cement Via	Type Of Service	Well Type	Age	AFE#	PO#
	TUBING	SURFACE		NEW		

Customer: LD DRILLING

Remarks: 60/40 POZ, 1.21 YIELD, 14.8#

MIX 300 SKS, 64.6 BBLs @ 14.8 PPG  
SHUT DOWN / CLEAR PUMP AND LINE  
DISPLACEMENT 21 BBL  
PUMPED 21 BBLs TO PIT

Customer Rep: RICK PH:

WELLBORE DATA

Type	Size	Weight	Depth	Volume
Surface Casing:	8.625	24.0	353.0	
Production Casing:				
Intermediate:				
Drill Pipe:				
Tubing:				

OTHER DATA

BHT	Max PSI	Total Depth
		357.0

Packer or Retainer Type / Depth:

--	--

Type	Size	Depth (Top)	Depth (Bot)	Volume
Liner:				
Open Hole:	12.250	0.0	357.0	

Perf Depths:	#	Total
	0	0
	0	
	0	

TIME	PUMP RATES		DENSITY (lb/gal)	PRESS (psi)	STG TOT (bbls)	TOTAL (bbls)	REMARKS
	WATER (gpm)	PUMP (bpm)					
22:12	0	0.3	14.69	6	0.0	82.5	ANNOTATION
22:19	0	0.2	10.21	110	21.2	103.7	PLUG DOWN
22:23	0	0.5	10.32	0	23.2	105.7	Paused 22:23:47

Summary

Max Fl. Rate	Avg Fl. Rate	Max Psi	Avg Psi
0.5	3.6	171	100

Customer Acknowledgement:

Service Rating:

- Satisfactory
- Unsatisfactory

Cementer:

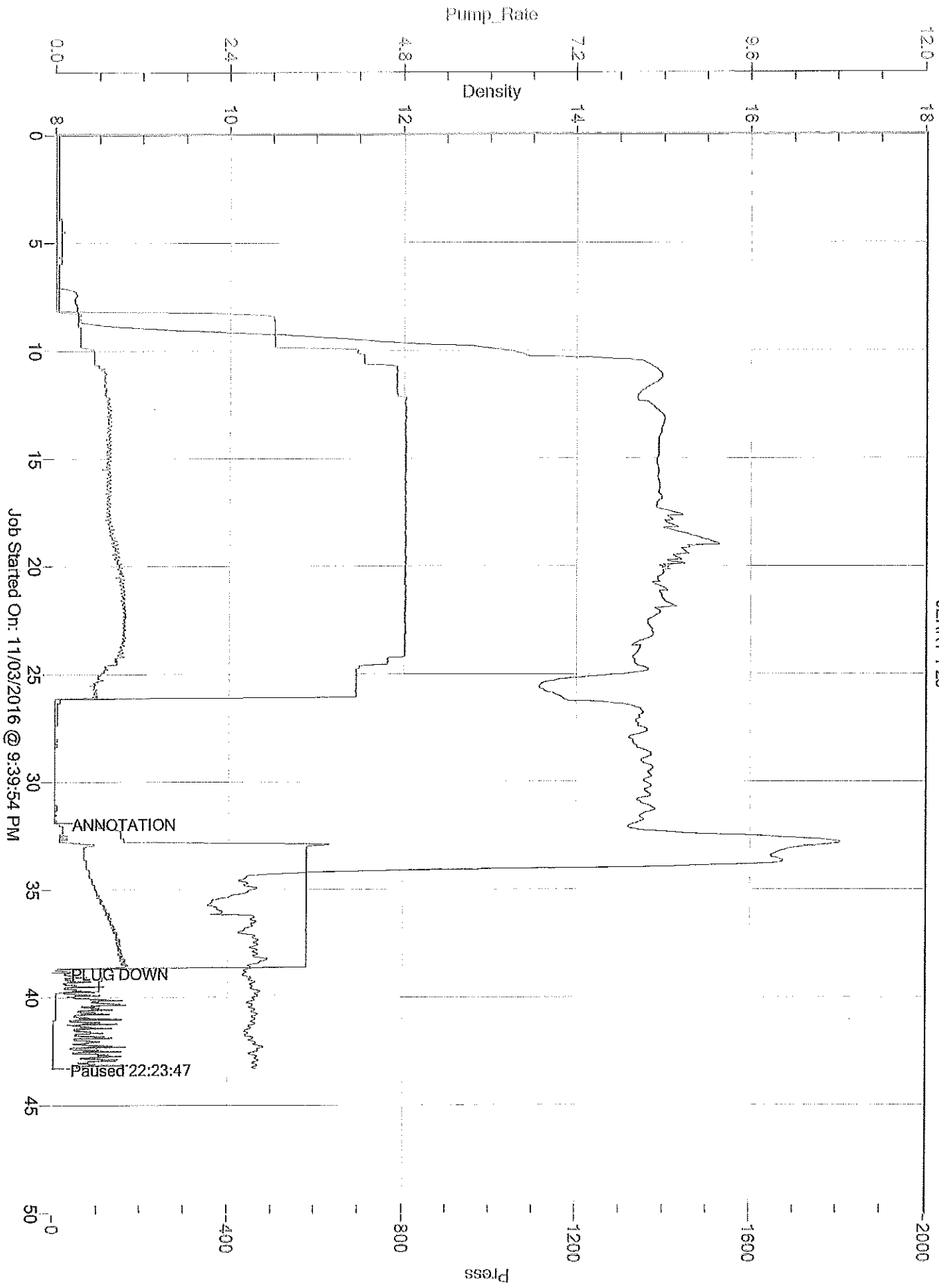
K.LESLEY

PRODUCTS USED

300 SKS 60/40 POZ

# LD DRILLING

JERRY 1-29



Job Started On: 11/03/2016 @ 9:39:54 PM



# KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 \* WICHITA, KS

## GEOLOGIST'S REPORT

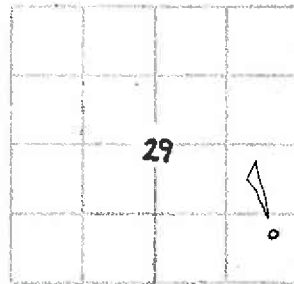
DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.  
 LEASE \* 1-29 JERRY  
 FIELD WILDCAT  
 LOCATION 965' FSL & 491' FEL  
 SEC 29 TWP 6s RGE 35w  
 COUNTY THOMAS STATE KANSAS  
 CONTRACTOR L. D. DRILLING, INC.  
 SPUD 11-3-16 COMP 11-12-16  
 RTD 4900 LTD 4901  
 MUD UP 3600 TYPE MUD CHEMICAL

ELEVATIONS  
 KB 3312  
 DF \_\_\_\_\_  
 GL 3307  
 Measurements Are All From 3312 KB  
 CASING  
 SURFACE 8 5/8" @ 353'  
 PRODUCTION 5 1/2" @  
 ELECTRICAL SURVEYS  
 DUAL IND., DENS-N. MICRO

SAMPLES SAVED FROM 3700 TO 4900  
 DRILLING TIME KEPT FROM 3500 TO 4900  
 SAMPLES EXAMINED FROM 3700 TO 4900  
 GEOLOGICAL SUPERVISION FROM 3800 TO 4900  
 GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	2917+395	2920+392
B/ANN.	2954+358	2956+356
WAB., STOTLER	3832-520	3828-516
HEEBNER	4140-828	4138-826
LANSING	4190-878	4183-871
B/KC	4448-1136	4442-1130
PAWNEE	4556-1244	4556-1244
FORTSCOTT	4622-1310	4620-1308
CHEROKEE	4649-1337	4648-1336
MISSISSIPPI	4790-1478	4790-1478



API: 15-193-20978

REMARKS

11-3-16 SPUD  
 11-4 @ 353'  
 11-5 @ 1665'  
 11-6 @ 2735'  
 11-7 @ 3490'  
 11-8 @ 4000'  
 11-9 @ 4408'  
 11-10 @ 4520'  
 11-11 @ 4600'  
 11-12 @ 4900'

### LEGEND

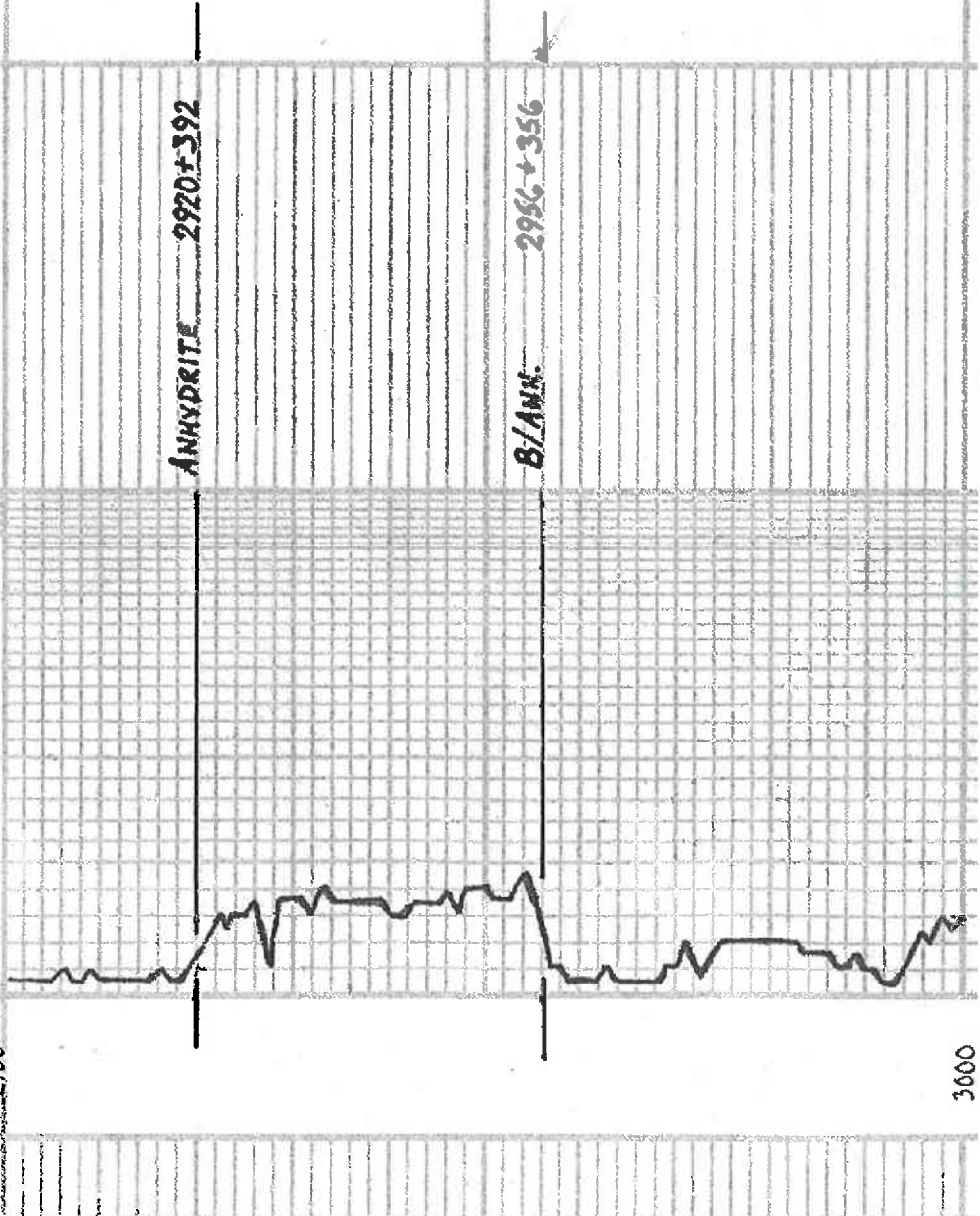
- Anhydrite
- Salt
- Sandstone
- Shale
- Coar. sh.
- Limestone
- Col. Lime
- Chert
- Dolomite

DRILLING TIME IN MINUTES  
 PER FOOT  
 Rate of Penetration Increases

DEPTH  
 2900

REMARKS

SAMPLE DESCRIPTIONS



LITHOLOGY

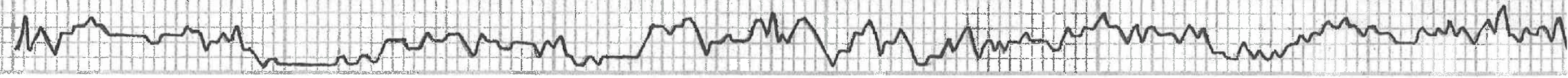
SL-0911-11

3500

3600

3700

Wt: 30  
Wt: 9.8  
Wt: 1000



Samples are logged

Sh. 1000 y

Sh. 1000 y. Pink

Sh. 1000 y. 1000 y. 1000 y. 1000 y.

15. 1000 y. 1000 y. 1000 y.

Sh. 1000 y.

15. 1000 y. 1000 y. 1000 y. 1000 y.

15. 1000 y. 1000 y.

3800

3900

4000

4100

Sh. Bl.

LS. Tan. Silty. Silt. Foss.

Sh. Tan. Silty.

**STOTLER 3028-516**

LS. Tan. Silty. Foss.

LS. Tan. Silty. Silt. Foss. P. B. P. P. Debris - Del. (3860)  
Bl. Sand. Silty. Foss. No. Foss. Foss. Del.

LS. G. Silty. Foss.

LS. Tan. Silty. Foss. Silty.

Sh. Silty.

LS. Tan. Silty. Foss. Silty.

LS. Tan. Silty. Foss. Silty. Foss. No. Foss. V. Foss. (3900)

Sh. Silty.

LS. Tan. Silty. Foss.

LS. Tan. Silty. Foss. Silty.

Sh. Bl.

LS. Tan. Silty. Foss.

LS. Tan. Silty. Foss. Silty.

Sh. Bl. Mottled

LS. Tan. Silty. Foss.

LS. Tan. Silty. Foss. Silty.

Sh. Bl.

Sh. Tan. Silty. Foss. Silty.

Sh. Bl.

LS. Tan. Silty. Foss. Silty. Foss. (4040)

LS. Tan. Silty. Foss.

LS. Tan. Silty. Foss.

Sh. Bl.

Sh. Bl.

Sh. Bl. Silty. Foss. Silty.

Sh. Bl. Silty.

LS. Tan. Silty. Foss. Silty.

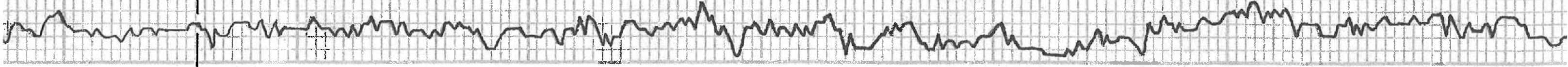
Sh. Bl.

Sh. Bl.

LS. Tan. Silty. Foss. Silty. Foss.

✓ LOG

V: 5  
VE: 8  
WL: 76  
CAL: 2500



LS. Silty shale with calc. sh.

LS. To Silty shale / Bl. Fac.

**HEESNER 4138-826**

LS. w/ silty shale - clay

Sh. Blue-grey shale

Sh. Blue-grey shale

LS. w/ silty shale, Bl. fac. / DE BL. BL. sh. 5500. No Blue. No color

**LANSING 4183-871**

LS. w/ silty shale - sh. shale

Sh. Bl. sh.

Sh. Bl. sh.

LS. w/ silty shale, Bl. fac. / No color

Sh. Bl. sh.

LS. w/ silty shale, Bl. fac.

LS. w/ silty shale - shale

LS. Clay shale

LS. w/ silty shale

LS. w/ silty shale

LS. w/ silty shale - clay shale

LS. w/ silty shale - clay shale

LS. w/ silty shale - clay shale

**MUNCIE-CREEK 4310-998**

LS. w/ silty shale

Sh. Bl. sh.

LS. w/ silty shale - clay shale

LS. w/ silty shale - clay shale / No color

Sh. Bl. sh.

LS. w/ silty shale

Sh. Bl. sh.

LS. w/ silty shale

LS. w/ silty shale

**STARK 4381-1069**

Sh. Bl. sh.

Sh. Bl. sh.

LS. w/ silty shale - shale - shale

Sh. Bl. sh.

Sh. Bl. sh.

LS. w/ silty shale - shale

**BIKC 4412-1130**

Sh. Bl. sh.

**MIRAMON 4452-1140**

Sh. Bl. sh.

**DST (1) 4411-9520**  
1st well flow built to 374'

V 106

TORONTO

V 106

V 106

VIS: 54  
WT: 93  
ML: 88  
CIL: 3000

DST (1)

V 106

4200

4300

4400



Sb. Yellow Cl. Westford & Yellow

MISSISSIPPI 4790-4718

65.2.14.4. Foss. Celestine

Dol. G. Fresh. Sive.

Sb. 64.14.4.4

Dol. Sp. 4.4. 5.5.5.5. Fresh. Sive.

Dol. 4.4. Fresh. w/ Dol. Incl.

Dol. 4.4. Fresh. Sive. Foss. Loggy

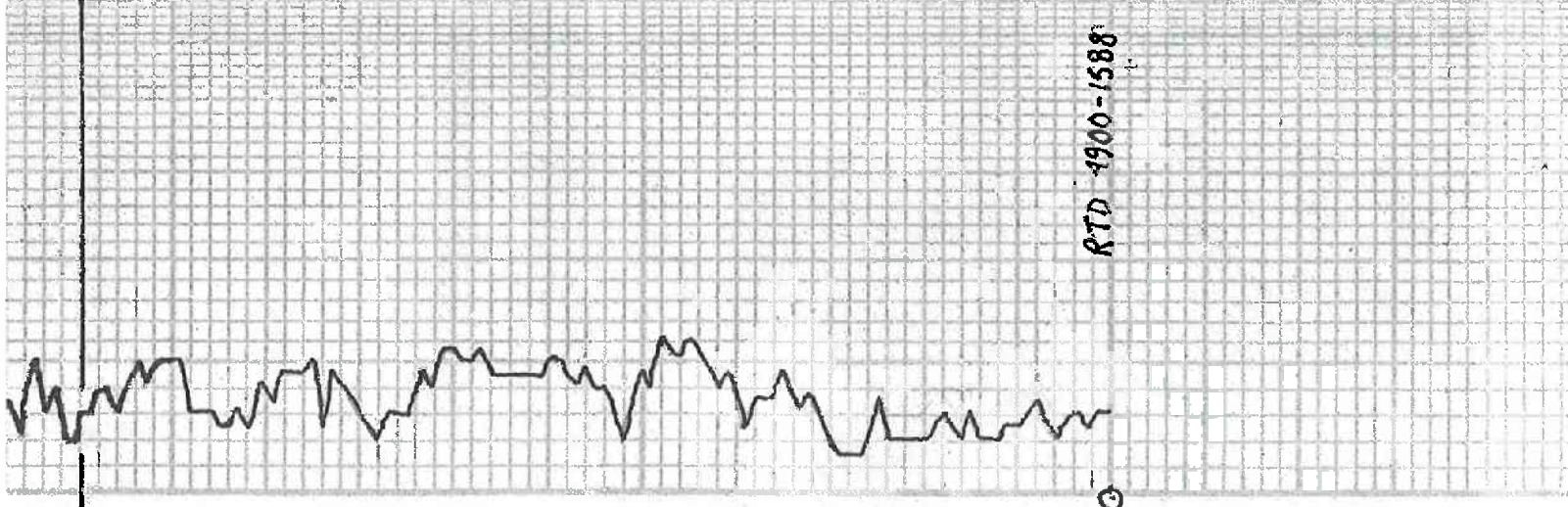
Sb. Yellow Cl.

Dol. 4.4. Fresh. w/ Dol. Incl.

4.4.4.4. Foss.

Dol. 4.4. Fresh. Sive.

4.4.4.4. Sh. Fresh.



4800

4900

RTD 4900-1588

