

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1347803  
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: \_\_\_\_\_

1347803

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:  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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	BRACK 1-6
Doc ID	1347803

Tops

Name	Top	Datum
ANHYDRITE	3224	+334
BASE ANHYDRITE	3264	+294
HEEBNER	4330	-772
LANSING	4388	-830
BASE KANSAS CITY	4674	-1116
PAWNEE	4790	-1232
FORT SCOTT	4856	-1298
CHEROKEE	4886	-1328
MISSISSIPPI	5127	-1569







Service Order #: 75152C

Date: 03-Feb-17

Well Name	Location	County	St	API#		
BRACK 1-6		SHERMAN	KS			
Formation	Cement Via	Type Of Service	Well Type	Age	AFE#	PO#
	CASING	SURFACE	OIL	NEW		

Customer: LD DRILLING

Remarks: \* 80.8 bbls / 375 sks pumped  
\* 10.3 bbls / 47.8 sks returned  
(32.6 bbls / 151.3 sks calculated annular volume)

Customer Rep: RICK WILSON PH:

WELLBORE DATA

Type	Size	Weight	Depth	Volume
Surface Casing:	8.625	24.0	443.6	
Production Casing:				
Intermediate:				
Drill Pipe:				
Tubing:				

OTHER DATA

BHT	Max PSI	Total Depth
	1,000	446.0

Packer or RetainerType / Depth:

Perf Depths:	#	Total
	0	0
	0	
	0	

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

TIME	PUMP RATES		DENSITY (lb/gal)	PRESS (psi)	STG TOT (bbls)	TOTAL (bbls)	REMARKS
	WATER (gpm)	PUMP (bpm)					
2:28	66	0.0	8.26	12	7	4.5	PRIME UP PUMP
2:40	1	0.0	8.30	19	7	0.1	LOAD WELL / BREAK CIRCULATION
2:45	348	0.0	8.30	85	7	14.1	SHUT DOWN / CIRCULATION ESTABLISHED
2:53	4	0.0	14.84	42	7	0.0	BATCH UP & PUMP CEMENT @ 14.8 PPG
3:12	3	0.1	14.81	55	7	84.3	SHUT DOWN / GET READY TO DROP PLUG
3:14	6	0.5	10.03	280	7	84.5	DROP PLUG / START DISPLACEMENT
3:22	2	0.0	7.42	163	7	27.9	SHUT DOWN / SHUT IN PSI / END JOB

Summary

Max Fl. Rate	Avg Fl. Rate	Max Psi	Avg Psi
0.5	2.3	396	139

Customer Acknowledgement:

Service Rating:

- Satisfactory
- Unsatisfactory

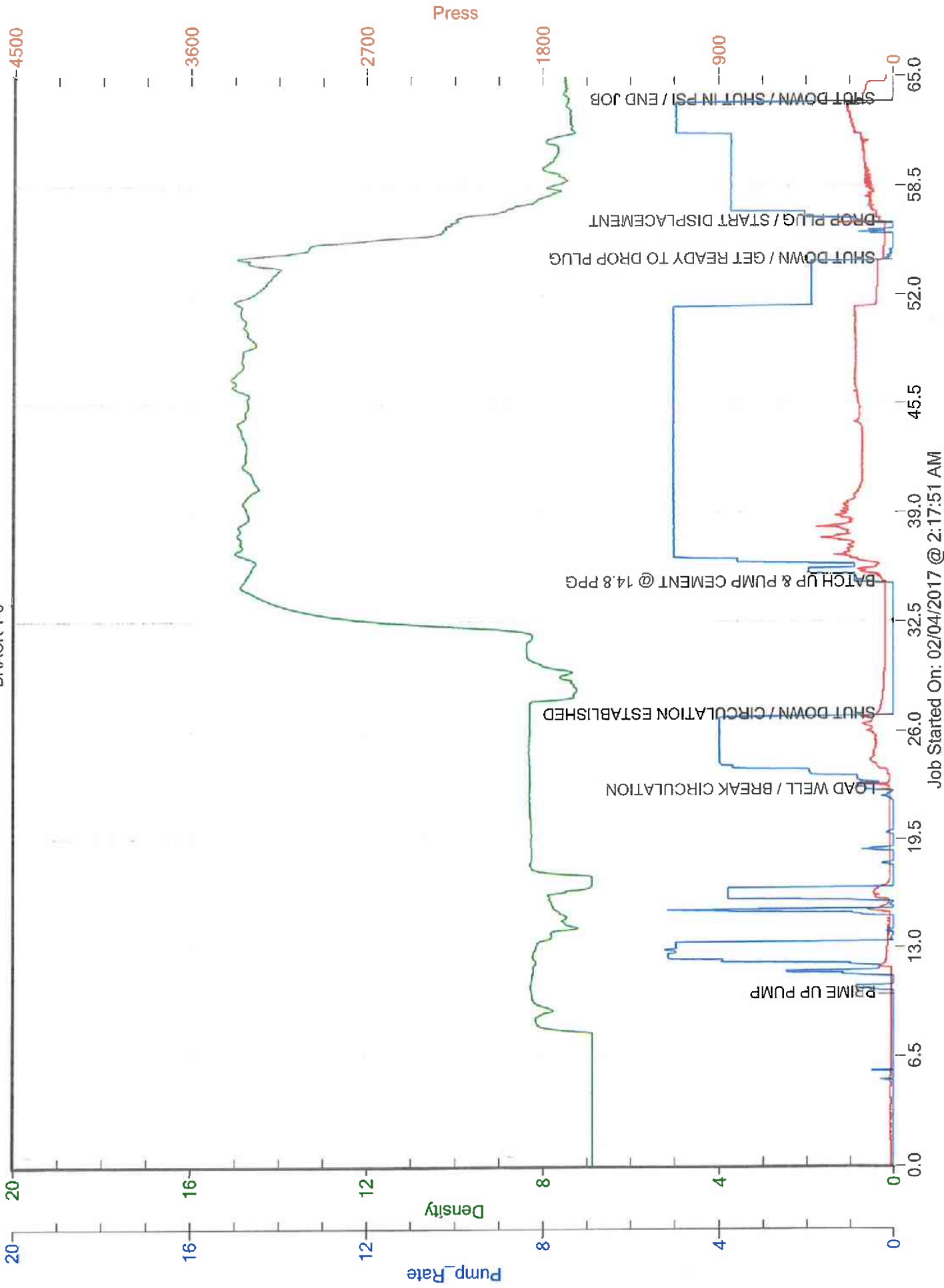
Cementer:

CORY THAUT

PRODUCTS USED

60/40 Poz + 3% CaCl + 2% Gel + 1/4 lb/sk Cello Flake

# LD DRILLING BRACK 1-6





**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 09984 A

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

DATE OF JOB		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 <i>L.D. Drilling Inc.</i>				LEASE <i>Brack</i>				WELL NO. <i>1-6</i>	
ADDRESS				COUNTY <i>Sherman</i>		STATE <i>KS</i>			
CITY		STATE		SERVICE CREW <i>Scotty, Scott, Jimmy, Ryan</i>					
AUTHORIZED BY <i>Mark Davis</i>				JOB TYPE: <i>Plug to Abandon 242</i>					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM PM	TIME
<i>84982</i>	<i>13</i>					ARRIVED AT JOB	<i>2/14/17</i>	AM PM	<i>7:00</i>
<i>84985</i>	<i>15</i>					START OPERATION	<i>2/14/17</i>	AM PM	<i>9:28</i>
						FINISH OPERATION	<i>2/15/17</i>	AM PM	<i>2:40</i>
						RELEASED	<i>2/15/17</i>	AM PM	<i>3:30</i>
						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: *Mark Davis B.D.S. 01*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
<i>CP103</i>	<i>60/40 POZ</i>	<i>SK</i>	<i>240</i>		
<i>CC200</i>	<i>Cement Col</i>	<i>lb</i>	<i>414</i>		
<i>CC102</i>	<i>Cellulose</i>	<i>lb</i>	<i>60</i>		
<i>CF153</i>	<i>Wooden Cement Plug</i>	<i>EA</i>	<i>1</i>		
<i>L100</i>	<i>Unit Mileage Charge Pick up</i>	<i>M1</i>	<i>100</i>		
<i>L101</i>	<i>Heavy Equipment Mileage</i>	<i>M1</i>	<i>200</i>		
<i>L113</i>	<i>Plug &amp; Bulk Delivery Charge</i>	<i>TM</i>	<i>10.35</i>		
<i>CE204</i>	<i>Depth Charge 3001-4000'</i>	<i>Whs</i>	<i>1</i>		
<i>CE240</i>	<i>Blending &amp; Mixing Service Charge</i>	<i>SK</i>	<i>240</i>		
<i>5003</i>	<i>Service Supervisor 1st 8 hrs</i>	<i>EA</i>	<i>1</i>		
SUB TOTAL					

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		<i>5,198.48</i>

SERVICE REPRESENTATIVE: *[Signature]* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *L.D. Drilling B.D.S. 01*  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. \_\_\_\_\_



Customer <i>L.D. Drilling Inc</i>		Lease No.		Date <i>2/15</i>	
Lease <i>Black</i>		Well # <i>1-6</i>			
Field Order # <i>09934 A</i>	Station <i>Pratt, KS</i>	Casing <i>4 1/2 O.P.</i>	Depth <i>3250</i>	County <i>Shepherd</i>	State <i>KS</i>
Type Job <i>Plug in Abandon 242</i>			Formation	Legal Description <i>6 65 34</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
<i>4 1/2 O.P.</i>		From	To	Pre Pad		Max		5 Min.
Depth <i>3250</i>	Depth	From	To	Pad		Min		10 Min.
Volume <i>54.215</i>	Volume	From	To	Frac		Avg		15 Min.
Max Press	Max Press	From	To			HHP Used		Annulus Pressure
Well Connection <i>4 1/2</i>	Annulus Vol. <i>151.45</i>	From	To	Flush		Gas Volume		Total Load
Plug Depth	Packer Depth	From	To					

Customer Representative <i>Rick</i>			Station Manager <i>Scotty</i>			Treater <i>Scott Cousins</i>		
Service Units	<i>84991</i>	<i>84992</i>	<i>84993</i>	<i>84994</i>	<i>84995</i>			
Driver Names	<i>Spencer</i>	<i>Wynn</i>	<i>Robert</i>	<i>Scott</i>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>7:00</i>					<i>On location Safety Meeting Rig up hole loaded with rig</i>
<i>9:28</i>	<i>300</i>			<i>4</i>	<i>Pump H2O Spacer 3250'</i>
<i>9:30</i>	<i>250</i>		<i>15</i>	<i>4</i>	<i>Mix 50 SKS 60/40 13.7 mg</i>
<i>9:34</i>	<i>200</i>		<i>12.9</i>	<i>4</i>	<i>Pump H2O Spacer</i>
<i>9:35</i>	<i>75</i>		<i>5</i>	<i>4</i>	<i>Start Mud displacement</i>
<i>9:45</i>	<i>0</i>		<i>37</i>	<i>0</i>	<i>Shut down</i>
<i>10:38</i>					<i>Lead hole with Rig 2300'</i>
<i>10:40</i>	<i>200</i>			<i>4</i>	<i>Pump H2O Spacer</i>
<i>10:42</i>	<i>200</i>		<i>15</i>	<i>4</i>	<i>M. 100 SKS 60/40 15.7 mg</i>
<i>10:48</i>	<i>100</i>		<i>25.8</i>	<i>4</i>	<i>Pump H2O Spacer</i>
<i>10:49</i>	<i>50</i>		<i>5</i>	<i>4</i>	<i>Start Mud displacement</i>
<i>10:54</i>	<i>0</i>		<i>24.2</i>	<i>0</i>	<i>Shut down</i>
<i>12:50</i>					<i>Lead hole with Rig 490'</i>
<i>12:52</i>	<i>80</i>			<i>4.5</i>	<i>Pump H2O Spacer</i>
<i>12:55</i>	<i>120</i>		<i>15</i>	<i>4.5</i>	<i>M. 100 SKS 60/40 13.7 mg</i>
<i>12:59</i>	<i>80</i>		<i>12.9</i>	<i>4.5</i>	<i>Start Displacement</i>
<i>1:00</i>	<i>0</i>		<i>3</i>	<i>0</i>	<i>Shut down</i>
					<i>Pump H2O Spacer 40'</i>
<i>11:30</i>	<i>0</i>			<i>3</i>	<i>M. 10 SKS 60/40 13.7</i>
<i>11:31</i>	<i>0</i>		<i>26</i>	<i>0</i>	<i>Shut down Cement Circulated</i>
<i>11:40</i>	<i>0</i>		<i>7</i>	<i>3</i>	<i>Plug in Rate hole 30 SKS</i>



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: Brack 1-6 Dst 1

TIME ON: 12:34  
TIME OFF: 19:35

Company L.D Drilling Inc Lease & Well No. L.D Drilling Inc  
Contractor L.D Drilling Inc Charge to L.D Drilling Inc  
Elevation 3558 KB Formation L/KC H-J Effective Pay \_\_\_\_\_ Ft. Ticket No. RR261  
Date Feb-10-2016 Sec. 6 Twp. 6 S Range 38 W County W Sherman State KANSAS  
Test Approved By Kim Shoemaker Diamond Representative \_\_\_\_\_

Formation Test No. 1 Interval Tested from 4514 ft. to 4598 ft. Total Depth 4598 ft.  
Packer Depth 4509 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4514 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

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

Top Recorder Depth (Inside) 4502 ft. Recorder Number 0062 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 4588 ft. Recorder Number 8471 Cap. 5000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type Chem Viscosity 59 Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
Weight 9.4 Water Loss 8.9 cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides 3400 P.P.M. Drill Pipe Length 4482 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number 12 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? na Reversed Out na Anchor Length 84A (16P) 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 1/2 inches in 30 mins) NOBB  
2nd Open: WSB ( Built to 1/4" inches 45 mins ) NOBB

Recovered <u>32</u> ft. of <u>M</u>	<u>100%</u> <u>M</u>
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>Tool Sample: 100% M</u>	Insurance
	Total

Time Set Packer(s) 3:11 PM A.M. P.M. Time Started Off Bottom 6:11 PM A.M. P.M. Maximum Temperature 128

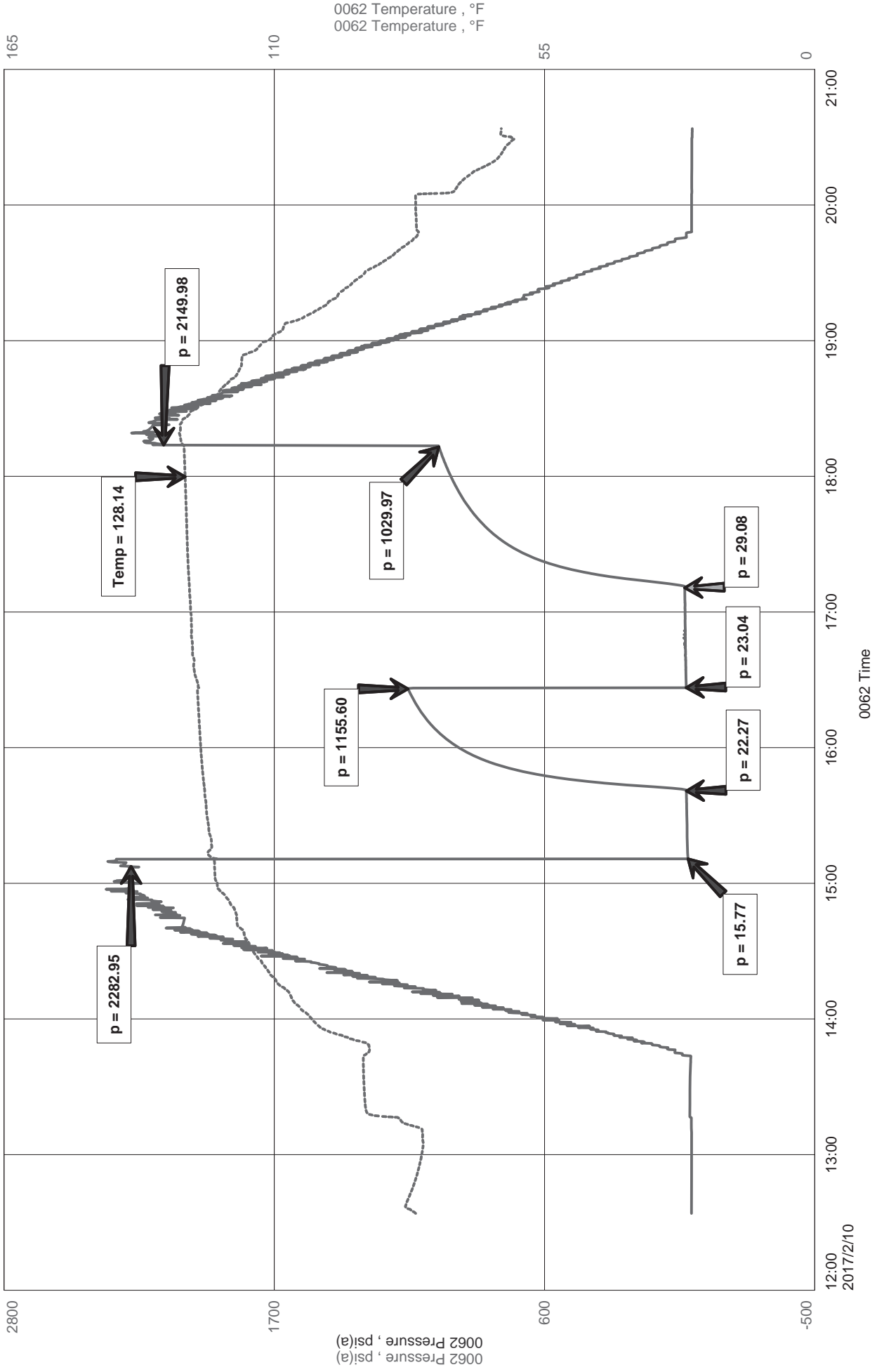
Initial Hydrostatic Pressure..... (A) 2283 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 16 P.S.I. to (C) 22 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 1156 P.S.I.  
Final Flow Period..... Minutes 45 (E) 23 P.S.I. to (F) 29 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 1030 P.S.I.  
Final Hydrostatic Pressure..... (H) 2150 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.

L.D Drilling Inc  
DST 1 L/KC H-J (4514-4598)  
Start Test Date: 2017/02/10  
Final Test Date: 2017/02/10

Brack 1-6  
Formation: DST 1 L/KC H-J (4514-4598)  
Pool: Infield  
Job Number: RR261

# Brack 1-6





Diamond Testing LLC  
 P.O. Box 157  
 HoisingtonKS 67544

**Ricky Ray - Tester**  
**(620) 617-7261**

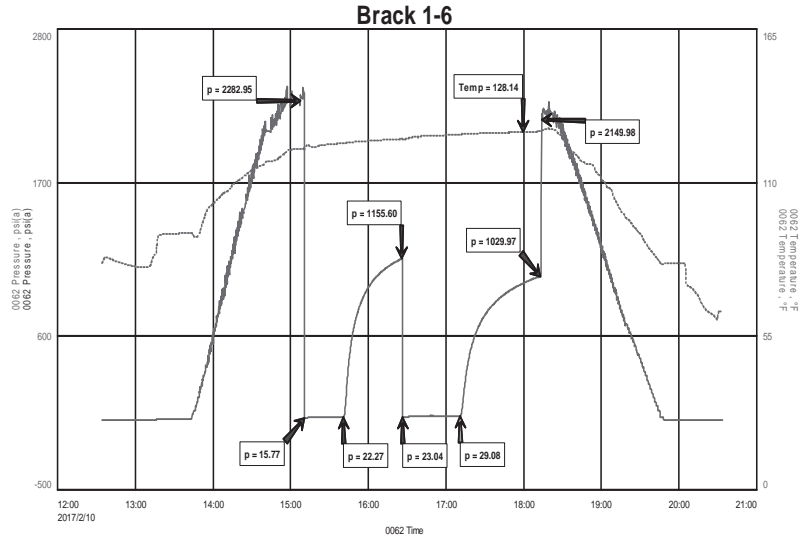
# Wellsite Report

## General Information

Company Name	L.D Drilling Inc
Contact	Marilyn Davis
Well Operator	L.D Drilling Inc
Well Name	Brack 1-6
Surface Location	Sec: 6 6s 38w (Sherman County)
Field	Unknown
Well Type	Vertical
Pool	Infield
Test Purpose (AEUB)	Initial Test
Qualified By	
Gauge Name	0062

## Test Information

Job Number	RR261
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	DST 1 L/KC H-J (4514-4598)
Start Test Date	2017/02/10 YYYY/MM/DD
Start Test Time	12:34:00 HH:mm:ss
Final Test Date	2017/02/10 YYYY/MM/DD
Final Test Time	19:35:00 HH:mm:ss



## Test Results

Recovery:

32' M 100% M

Tool Sample: 100% M



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: Brack 1-6 Dst 2

TIME ON: 10:56  
TIME OFF: 19:35

Company L.D Drilling Inc Lease & Well No. L.D Drilling Inc  
Contractor L.D Drilling Inc Charge to L.D Drilling Inc  
Elevation 3558 KB Formation L/KC H-J Effective Pay \_\_\_\_\_ Ft. Ticket No. RR262  
Date Feb-11-2016 Sec. 6 Twp. 6 S Range 38 W W County Sherman State KANSAS  
Test Approved By Kim Shoemaker Diamond Representative \_\_\_\_\_

Formation Test No. 2 Interval Tested from 4595 ft. to 4691 ft. Total Depth 4691 ft.  
Packer Depth 4590 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4595 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
Top Recorder Depth (Inside) 4583 ft. Recorder Number 0062 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 4662 ft. Recorder Number 8471 Cap. 5000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type Chem Viscosity 48 Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
Weight 9.3 Water Loss 8.8 cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides 3000 P.P.M. Drill Pipe Length 4563 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number 12 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? na Reversed Out na Anchor Length 96A (34P) 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 inch in 30 mins) NOBB  
2nd Open: No Blow NOBB

Recovered <u>60</u> ft. of <u>M</u> <u>100% M</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>Tool Sample: 100% M</u>	Insurance
	Total

Time Set Packer(s) 2:13 PM A.M. P.M. Time Started Off Bottom 5:13 PM A.M. P.M. Maximum Temperature 127

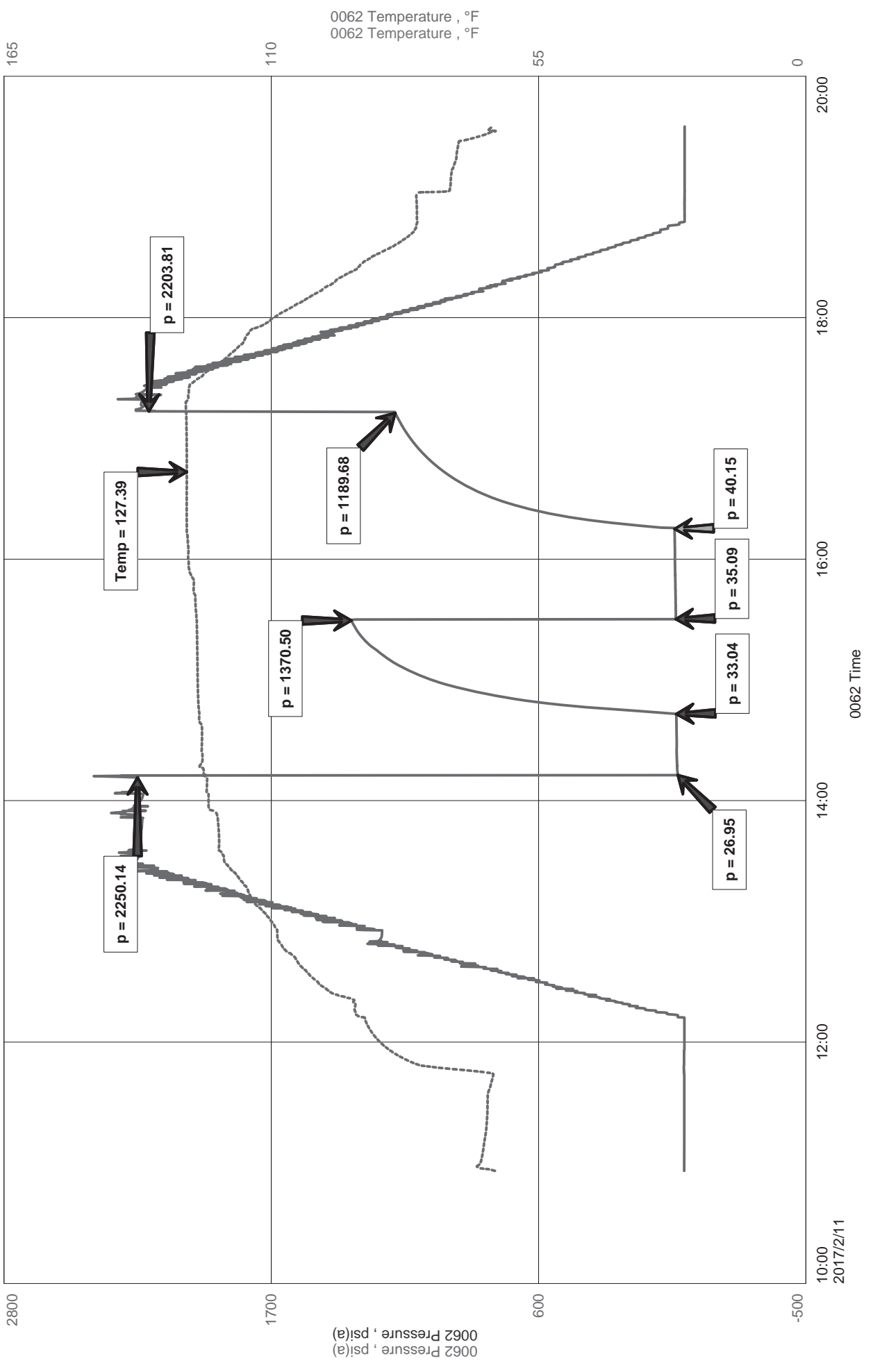
Initial Hydrostatic Pressure..... (A) 2250 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 27 P.S.I. to (C) 33 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 1371 P.S.I.  
Final Flow Period..... Minutes 45 (E) 35 P.S.I. to (F) 40 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 1190 P.S.I.  
Final Hydrostatic Pressure..... (H) 2204 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.

L.D Drilling Inc  
 Dst 2 L/KC K-L (4595-4691)  
 Start Test Date: 2017/02/11  
 Final Test Date: 2017/02/11

Brack 1-6  
 Formation: Dst 2 L/KC K-L  
 Pool: Infield  
 Job Number: RR262

# Brack 1-6





Diamond Testing LLC  
 P.O. Box 157  
 Hoisington KS 67544

**Ricky Ray - Tester**  
**(620) 617-7261**

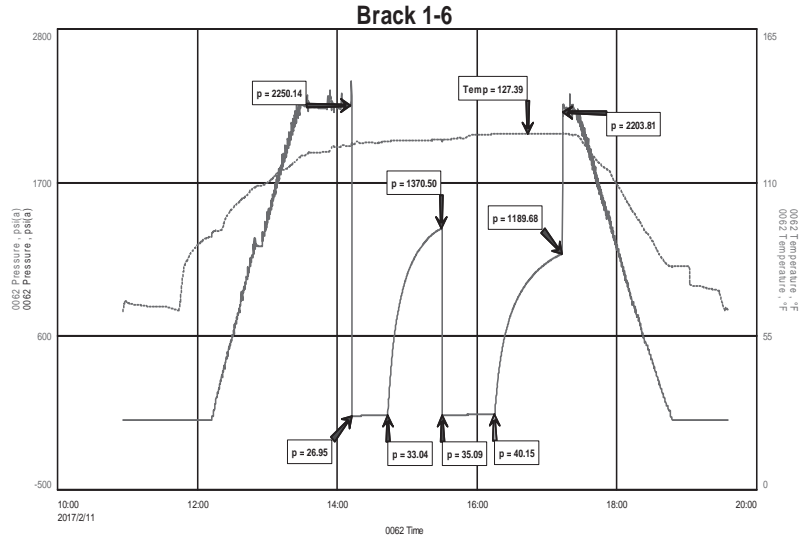
# Wellsite Report

## General Information

Company Name	L.D Drilling Inc
Contact	Marilyn Davis
Well Operator	L.D Drilling Inc
Well Name	Brack 1-6
Surface Location	Sec: 6 6s 38w (Stafford County)
Field	unknown
Well Type	Vertical
Pool	Infield
Test Purpose (AEUB)	Initial Test
Qualified By	
Gauge Name	0062

## Test Information

Job Number	RR262
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	Dst 2 L/ KC K-L (4595-4691)
Start Test Date	2017/02/11 YYYY/MM/DD
Start Test Time	10:56:00 HH:mm:ss
Final Test Date	2017/02/11 YYYY/MM/DD
Final Test Time	19:35:00 HH:mm:ss



## Test Results

Recovery:

60' M 100% M

Tool Sample: 100% M



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: Brack 1-6 Dst 3

TIME ON: 09:38  
TIME OFF: 17:25

Company L.D Drilling Inc Lease & Well No. L.D Drilling Inc  
Contractor L.D Drilling Inc Charge to L.D Drilling Inc  
Elevation 3558 KB Formation \_\_\_\_\_ Altamont Effective Pay \_\_\_\_\_ Ft. Ticket No. RR263  
Date Feb-12-2016 Sec. 6 Twp. \_\_\_\_\_ 6 S Range \_\_\_\_\_ 38 W W County \_\_\_\_\_ Sherman State KANSAS  
Test Approved By Kim Shoemaker Diamond Representative \_\_\_\_\_

Formation Test No. 3 Interval Tested from 4663 ft. to 4760 ft. Total Depth 4760 ft.  
Packer Depth 4658 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4663 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
Top Recorder Depth (Inside) 4651 ft. Recorder Number \_\_\_\_\_ 0062 Cap. \_\_\_\_\_ 5000 P.S.I.  
Bottom Recorder Depth (Outside) 4730 ft. Recorder Number \_\_\_\_\_ 8471 Cap. \_\_\_\_\_ 5000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type Chem Viscosity 58 Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
Weight 9.2 Water Loss 9.6 cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides 5000 P.P.M. Drill Pipe Length 4631 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number 12 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? na Reversed Out na Anchor Length 97A (35P) 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 2 1/2 inch in 30 mins) WBB  
2nd Open: 1/4 " Blow NOBB

Recovered <u>1</u> ft. of <u>O</u>	<u>100% O</u>	
Recovered <u>60</u> ft. of <u>MCO</u>	<u>5% O</u>	<u>95% M</u>
Recovered _____ ft. of _____		
Recovered _____ ft. of _____		
Recovered _____ ft. of _____		
Recovered _____ ft. of _____		
Remarks: <u>Tool Sample: 4% O 96% M</u>		
		Price Job
		Other Charges
		Insurance
		Total

Time Set Packer(s) 12:55 PM A.M. P.M. Time Started Off Bottom 3:55 PM A.M. P.M. Maximum Temperature 124  
Initial Hydrostatic Pressure..... (A) 2306 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 14 P.S.I. to (C) 27 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 1244 P.S.I.  
Final Flow Period..... Minutes 45 (E) 31 P.S.I. to (F) 41 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 1201 P.S.I.  
Final Hydrostatic Pressure..... (H) 2250 P.S.I.

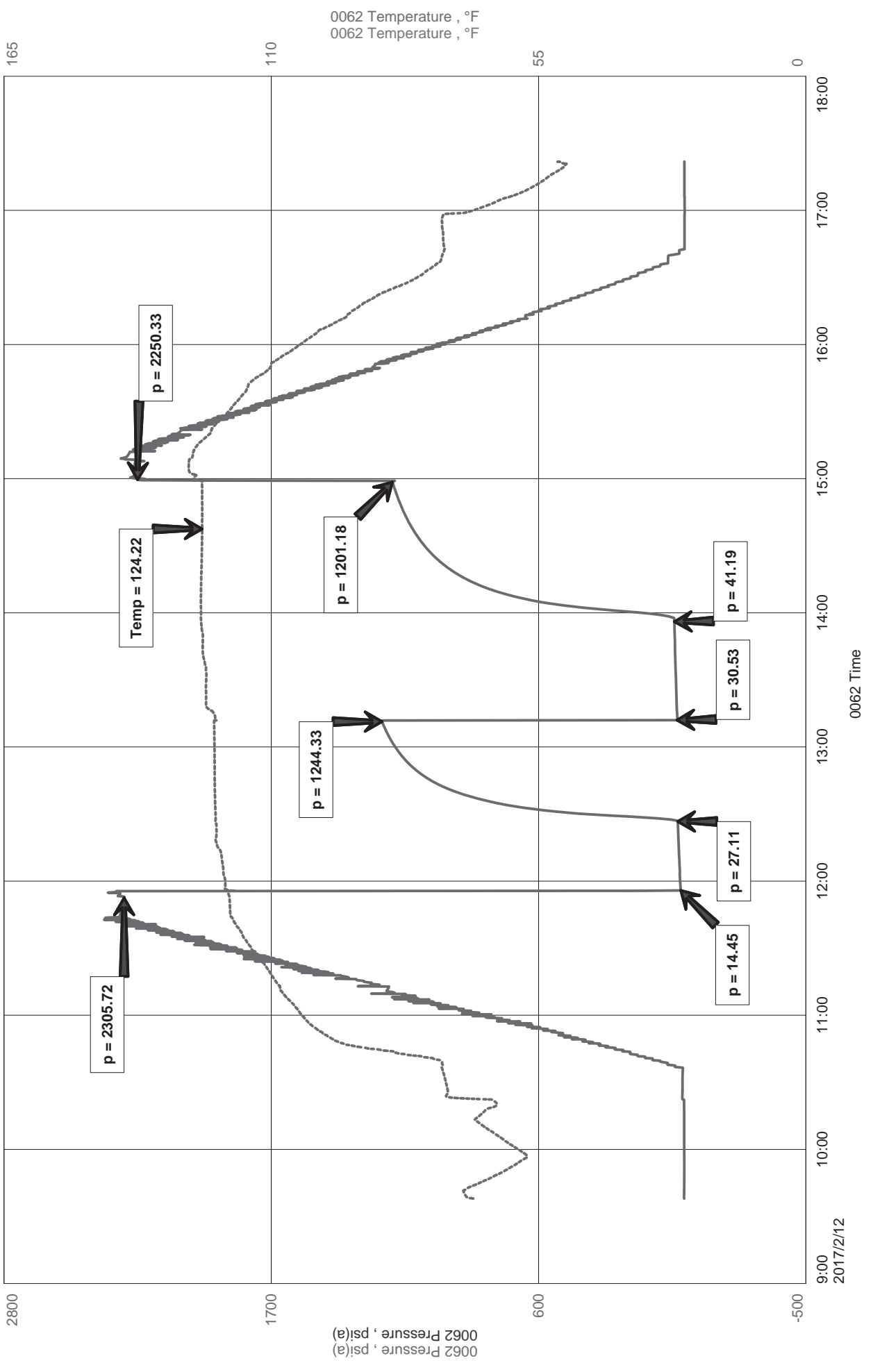
Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged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



L.D Drilling Inc  
 Dst 3 Altamont (4663-4760)  
 Start Test Date: 2017/02/12  
 Final Test Date: 2017/02/12

Brack 1-6  
 Formation: Dst 3 Altamont (4663-4760)  
 Pool: Infield  
 Job Number: RR263

# Brack 1-6





Diamond Testing LLC  
 P.O. Box 157  
 HoisingtonKS 67544

**Ricky Ray - Tester**  
**(620) 617-7261**

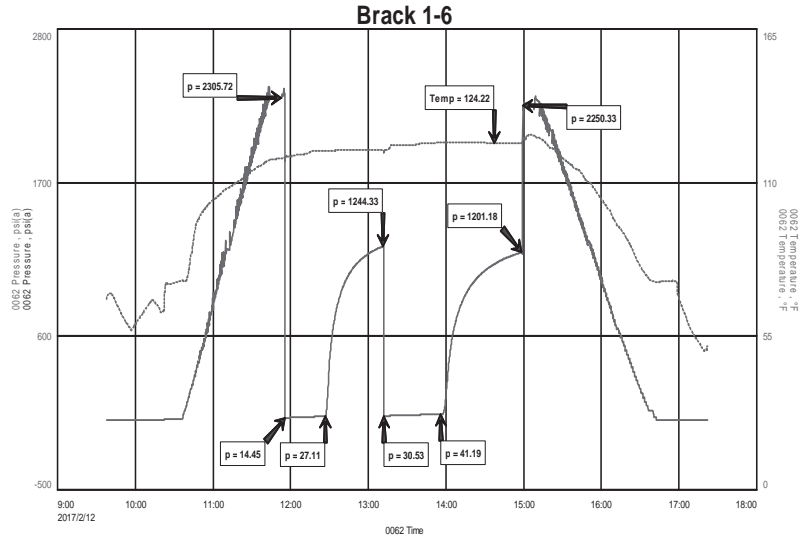
# Wellsite Report

## General Information

Company Name	L.D Drilling Inc
Contact	Marilyn Davis
Well Operator	L.D Drilling Inc
Well Name	Brack 1-6
Surface Location	Sec: 6 6 S 38w (Sherman County)
Field	Unkown
Well Type	Vertical
Pool	Infield
Test Purpose (AEUB)	Initial Test
Qualified By	
Gauge Name	0062

## Test Information

Job Number	RR263
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	Dst 3 Altamont (4663-4760)
Start Test Date	2017/02/12 YYYY/MM/DD
Start Test Time	09:38:00 HH:mm:ss
Final Test Date	2017/02/12 YYYY/MM/DD
Final Test Time	17:25:00 HH:mm:ss



## Test Results

### Recovery:

1'	O	100% O	
60'	MCO	5% O	95% M

Tool Sample: 4% O 96% M

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

315-884-9709 \* WICHITA, KS

GEOLOGIST'S REPORT

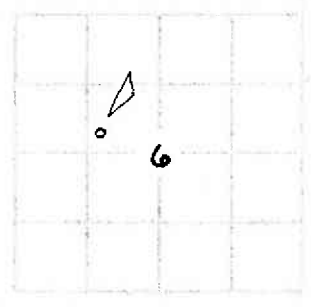
DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.  
 LEASE # 1-6 BRACK  
 FIELD WILDCAT  
 LOCATION 2970' FSL ± 1550' FWL  
(2236 FNL)  
 SEC 6 TWP 6S RGE 38W  
 COUNTY SHERMAN STATE KANSAS  
 CONTRACTOR L. D. DRILLING, INC.  
 SPUD 2-3-17 COMP 2-11-17  
 RID 5175 LTD 5174  
 ROD UP 3567 TYPE MUD CHEMICAL

ELEVATIONS  
 KR 3558  
 DF \_\_\_\_\_  
 EL 3553  
 Measurements Are All  
 From 3558 KB  
 CASING  
 SURFACE 8 5/8" @ 493'  
 PRODUCTION \_\_\_\_\_  
 ELECTRICAL SURVEYS  
 DUAL IND., DENS-N, MICRO

SAMPLES SAVED FROM 4000 TO 5175  
 DRILLING TIME KEPT FROM 3900 TO 5175  
 SAMPLES EXAMINED FROM 4000 TO 5175  
 GEOLOGICAL SUPERVISION FROM 4200 TO 5175  
 GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	3224+ 334	3228+ 330
B/ANH.	3264+ 294	3265+ 293
HEEBNER	4330- 772	4334- 776
LANSING	4388- 830	4389- 831
B/KC	4674- 1116	4668- 1110
PAWNEE	4790- 1232	4790- 1232
FORT SCOTT	4856- 1298	4854- 1296
CHEROKEE	4886- 1328	4884- 1326
MISSISSIPPI	5127- 1569	5128- 1570



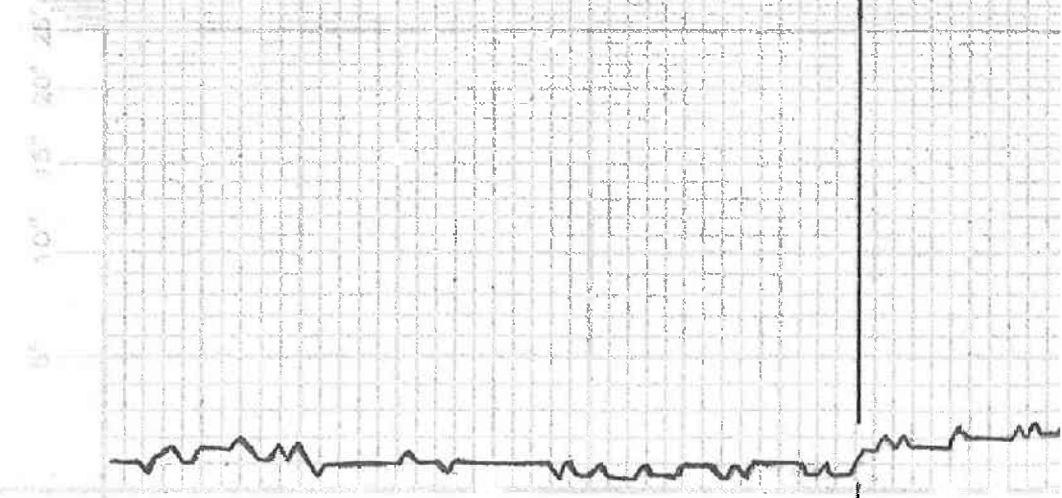
API: 15-181-20605

REMARKS  
 2-3-17 SPUD  
 2-4 @ 446'  
 2-5 @ 1480'  
 2-6 @ 2770'  
 2-7 @ 3567'  
 2-8 @ 3756'  
 2-9 @ 4212'  
 2-10 @ 4598'  
 2-11 @ 4678'  
 2-12 @ 4760'  
 2-13 @ 4858'  
 2-14 @ 5175'

LEGEND

- Dolomite
- Chert
- Oil Shale
- Limestone
- Sandstone
- Shale
- Case in
- Unlabeled
- Anhydrite
- Salt
- Sandstone
- Shale
- Sandstone
- Sandstone
- Sandstone
- Sandstone

DRILLING TIME IN MINUTES  
 PER FOOT  
 Scale of Penetration (minutes/ft)



LITHOLOGY

DEPTH 3150

3200

ANHYDRITE 3228+330

B/ANK. 3265+293

Mud V. @ 3580 Vis: G2  
WT: 8.6  
WG: 7.2  
CHL: 2000

Mud V. @ 3785 Vis: S1  
WT: B.7  
WL: 7.2  
CHL: 2200

Samples are logged

Dol. at V. Fin. Sec.

Sh. Rd Silty.

LS. Dol. Th. of V. Fin. Sec.

Sh. Rd

LS. T. 114, Sh. Foss.

LS. G. Sh. Foss.

Sh. G. G.

LS. T. V. Sh. Foss. S1.4

LS. Yellow Sh. Foss. V. S1.4

Sh. Rd.

LS. W. Sh. Foss. w/ Tr. Bk. Grl. S1.4

Sh. Rd. L1.4

LS. G. Sh. Foss. w/ Bk. Grl. S1.4

3300

3900

4000

4100

65. wt. Silty. Foss. Col. cherty  
Sh. Silty

65. Tr. Hg. Dm.

Sh. Rd silty

65. 65 wt. Pink w/ Rd. Sh. Sticks

65. wt. Silty. Foss. Col. cherty w/ Rd. Sh. Sticks

65. wt. Silty. Foss. Silty cherty

65. wt. Silty. Foss. cherty

65. Tr. wt. Silty. Foss. Silty cherty

Sh. Rd

Sh. Rd. Fossil. Soil

Sh. Rd. Silty

65. wt. Silty. Foss.

Sh. Rd.

65. wt. Silty. Foss. Rd. Silty. Foss. Col. cherty

Sh. Rd.

65. wt. Foss. Col. cherty

65. wt. Silty

HEERONER 4334-776

Sh. Rd. Silty

65. wt. Silty. Foss. Col. cherty

Sh. Rd. Silty

65. wt. Foss. Silty. cherty w/ Tr. Hg. Dm. Sticks

Sh. Rd silty

LANSING 4389-831

65. wt. Silty. Foss. Silty

Sh. Rd. Silty

Sh. Rd

65. wt. Foss. Silty. Foss. Silty cherty

Sh. Rd. Silty. Foss. Col. cherty

65. wt. Silty. Foss. Col. cherty

65. wt. Silty. Foss. Col. cherty

65. wt. Foss. Col. cherty

4200

4300

4400

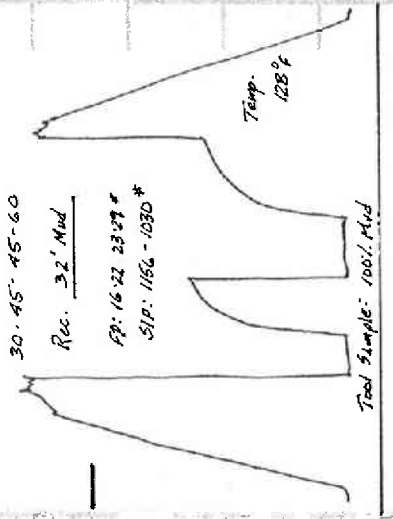
TORONTO

⊙

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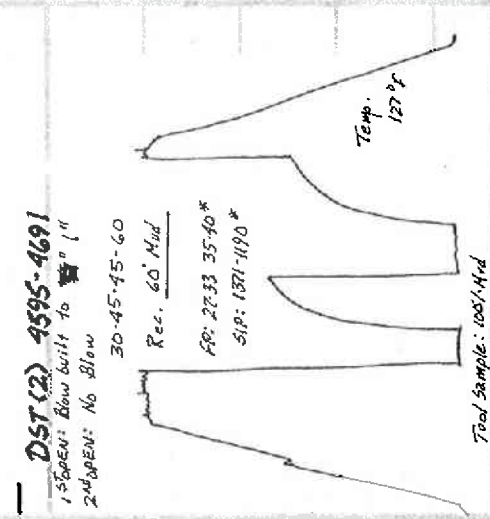
VIS: G2  
WT: 9.2  
WL: 9.6  
CHL: 2500

Orangey to Orange  
Sh. Bl.  
Ls. wt. Foss. Calcite  
Sh. 11800-214  
Ls. wt. Sil. Foss. Sil. Chalky  
Ls. wt. Sil. Foss. w/gygs. "Waggy"  
Ls. wt. Sil. Chalky - 1.75% Sil.  
**MUNCIE CREEK 9516-958**  
Sh. Bl. 12700  
Ls. gy. Sil. Foss.  
Sh. Sp.  
Ls. gy. Ls. gy. Sil. Foss. w/ Sil. Chalk  
P. sil. gy. w/ gy. calc. particles, w/ sil. Sil. Sil.  
SSFO. No. Foss. No. 9000 (4550)



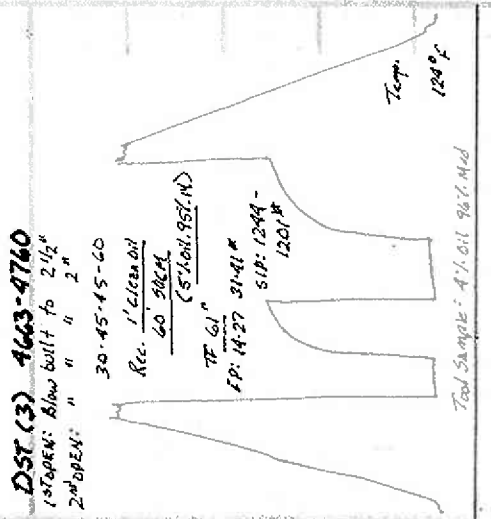
Ls. wt. Foss. Calcite  
Sh. Bl.  
Ls. gy. Sil. Foss.  
Sh. Pd  
Ls. wt. Foss. Calcite  
Ls. wt. Chalk  
Ls. wt. Ls. gy. Sil. Foss. w/ P. 10%  
P. sil. de. Sil. Sil. Sil. - 15500 - No Foss. - 4600 (4600)  
Sh. Bl. 12700  
Ls. wt. Sil. Foss. - 15500

**STARK 4597-1032**  
Sh. Bl. 1500  
Ls. gy. Sil. Foss.  
Sh. Pd  
Ls. wt. Foss. Calcite  
Ls. wt. Chalk  
Ls. gy. Ls. gy. Sil. Foss. w/ Sil. Chalk  
Ls. wt. Ls. gy. Sil. Foss. w/ P. 10%  
P. sil. de. Sil. Sil. Sil. - 15500 - No Foss. - 4600 (4600)  
Sh. Bl. 12700  
Ls. wt. Sil. Foss. - 15500



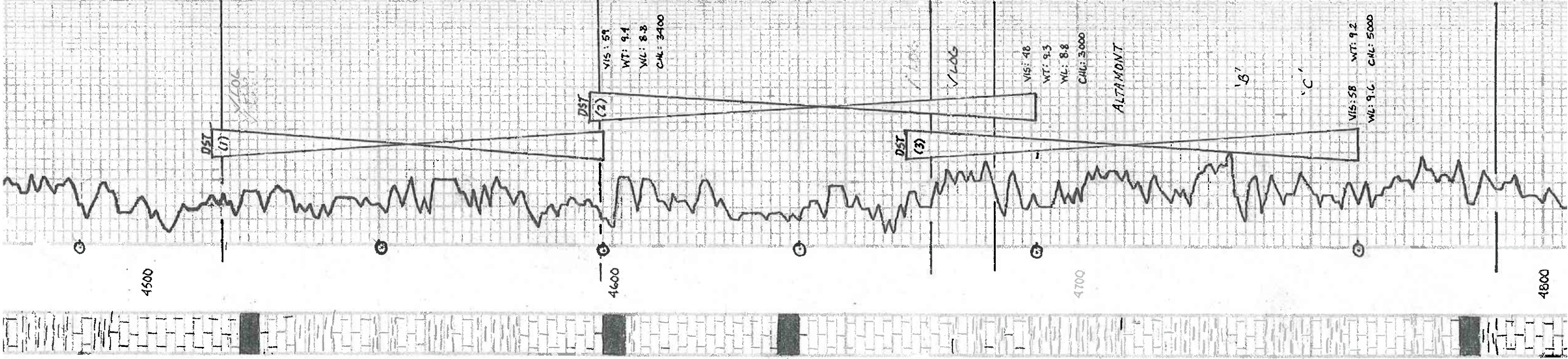
Sh. Bl.  
Ls. wt. Sil. Foss. - 15500  
Sh. Bl. 12700  
Ls. wt. Foss. Calcite  
Ls. wt. Chalk  
Ls. gy. Ls. gy. Sil. Foss.  
Sh. Bl. 12700  
Ls. wt. Sil. Foss. - 15500

**MARMATON 4682-1124**  
Ls. wt. Foss. Calcite  
Ls. gy. Ls. gy. Sil. Foss.  
Sh. Bl. 12700  
Ls. wt. Sil. Foss. - 15500  
Ls. gy. Ls. gy. Sil. Foss.  
Sh. Bl. 12700  
Ls. wt. Sil. Foss. - 15500



Sh. Bl.  
Ls. wt. Foss. Sil. Calcite Sil. Chalk  
Sh. Bl.  
Ls. wt. Sil. Foss. - 15500  
Ls. wt. Ls. gy. Sil. gy.  
Sh. Bl. 12700  
Ls. wt. Sil. Foss. - 15500

**PAWNEE 4790-1232**  
Ls. wt. Foss. Sil. Calcite Sil. Chalk  
Ls. wt. Foss. Sil. Calcite Sil. Chalk  
Sh. Bl. 12700  
Ls. wt. Sil. Foss. - 15500



**DST (1)**  
VIS: 59  
WT: 9.4  
WL: 8.3  
CML: 3400

**DST (2)**  
VIS: 48  
WT: 9.3  
WL: 8.8  
CML: 3000

**DST (3)**  
VIS: 58  
WT: 9.2  
WL: 9.6  
CML: 5000

LOG  
LOG  
ALTAMONT  
'B'  
'C'

4500

4600

4700

4800

ss. wt. lly. sh. ... ss. dk. ...  
 sh. dk. ...  
 ss. dk. ...  
 ss. ...  
 ss. ...

FORT SCOT 4851-1296  
 sh. ...

VIS: 57  
 WT: 91  
 WC: 8.0  
 CNL: 4800

Cherokee 4884-1326  
 sh. ...

V. 406

ss. ...  
 ss. ...  
 ss. ...

sh. dk. ...  
 ss. ...

A. G. Orange

sh. ...  
 A. Orange

ss. ...  
 ss. ...

ss. ...  
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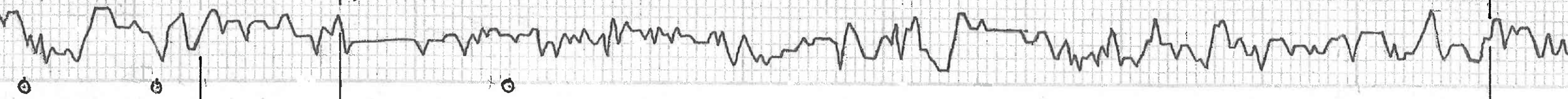
ss. ...  
 sh. ...

ss. ...  
 sh. ...

MISSISSIPPI 5128-1570  
 sh. ...

ss. ...  
 sh. ...

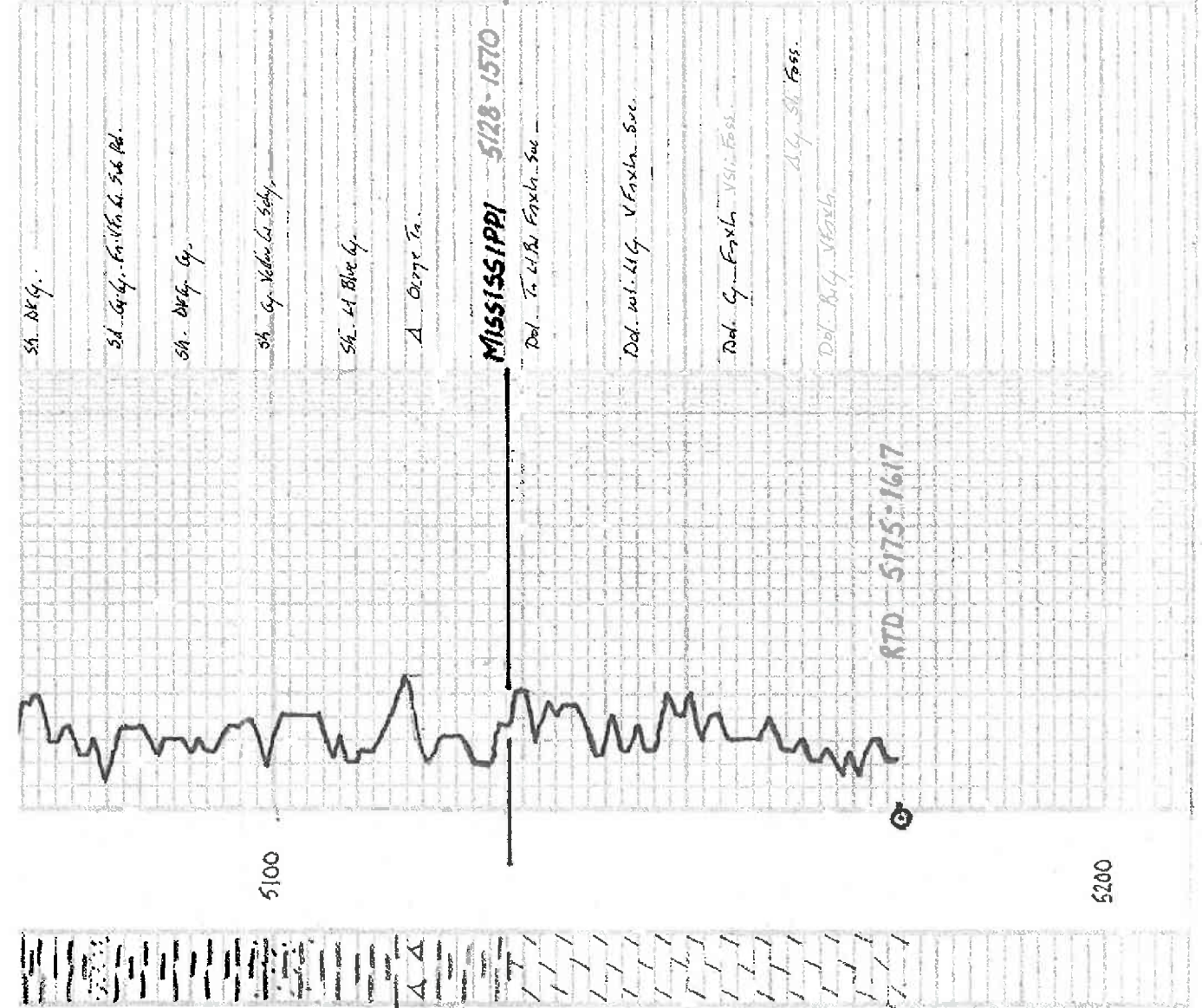
ss. ...  
 sh. ...



4900

5000

5100



Sh. dk G.

Sl. G. G. Fossil. S. G. R.

Sh. dk G. G.

Sh. G. Yellow L. S. G.

Sl. L. Blue G.

A. Orange Tn.

MISSISSIPPI 5128-1570

Dol. Tn. L. R. Fossil. S. G.

Dol. W. L. G. V. Fossil. S. G.

Dol. G. Fossil. V. S. L. Fossil.

Dol. B. G. V. Fossil. S. G. Fossil.

RTD 5175-1617

5100

5200