



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1166088

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	FRANK 2
Doc ID	1166088

All Electric Logs Run

DUAL COMPENSATED POROSTIY LOG
DUAL INDUCTION LOG
MICRORESISTIVITY LOG
SONIC CEMENT BOND LOG



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET

1718 09126 A

23-205-14W

DATE _____ TICKET NO. _____

DATE OF JOB: 9-20-13		DISTRICT: Pratt, Kansas		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, Incorporated				LEASE: Frank				WELL NO. 2	
ADDRESS:				COUNTY: Barton		STATE: Kansas			
CITY:				STATE:		SERVICE CREW: C. Messick; M. McGraw; J. Hamby			
AUTHORIZED BY:				JOB TYPE: C.N.W. - Surface					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
37,216	4						9-20-13	PM	3:30
						ARRIVED AT JOB		PM	6:00
77,686-19,905	1					START OPERATION		PM	8:30
						FINISH OPERATION		PM	9:30
19,826-19,860	1					RELEASED	9-20-13	PM	9:45
						MILES FROM STATION TO WELL			55

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: John Michale
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
P CP101	A-Con Blend Cement	sh	200	\$	3,600 00
P CP100C	Common Cement	sh	200	\$	3,200 00
P CC102	Cellflatre	Lb	100	\$	370 00
P CC109	Calcium Chloride	Lb	940	\$	987 00
P CF105	Top Rubber Plug, 8 5/8"	ea	1	\$	225 00
P E100	Pickup Mileage	mi	55	\$	233 75
P E101	Heavy Equipment Mileage	mi	110	\$	770 00
P E113	Bulk Delivery	tm	1034	\$	1,654 40
P CE201	Cement Pump; 50Feet To 1,000Feet	hrs	4	\$	1,200 00
P CE240	Blending and Mixing Service	sh	400	\$	560 00
P CE504	Plug Container	Job	1	\$	250 00
P S003	Service Supervisor	hrs	8	\$	175 00

SUB TOTAL \$ 9,918 86

CHEMICAL / ACID DATA:			

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

TOTAL

SERVICE REPRESENTATIVE: R. M. [Signature]

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: John Michale
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer L.D. Drilling, Incorporated	Lease No.	Date 9-20-13			
Lease Frank	Well # 2				
Field Order # 9,126	Station Pratt, Kansas	Casing 8 5/8" 24Lb.	Depth 816 Feet	County Barton	State Kansas
Type Job C.N.W. - Surface	Formation	Legal Description 23-205-14W			

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 8 5/8" 24Lb.	Tubing Size	Shots/Ft 200	200	Acid A-con with 33 Calcium Chloride,	RATE	PRESS	ISIP	25Lb./St. cell floh
Depth 816 Feet	Depth	From	To	Pre Pad 12Lb./Gal.	Max 4.49 Gal./st.	2.4	720 FT./St.	5 Min.
Volume 31.4 Bbl.	Volume	From	To	Pad Common with 28	Min Calcium Chloride,			10 Min.
Max Press 350 PSI	Max Press	From	To	Post 15.6Lb./Gal.	Avg 2.23 Gal./st.	1.20		15 Min.
Well Connection 1 1/2" Cont. Panel	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth 816 Feet	Packer Depth	From	To	Flush 51 Bbl. Fresh Water	Gas Volume			Total Load

Customer Representative Jim Michols	Station Manager Kevin Gordley	Treater Clarence R. Messick		
Service Units 37,216	77,686	19,905	19,826	19,860
Driver Names Messick	McGraw	Hamby		

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
6:00					Trucks on location and hold safety meeting.
7:30					PetroMark Drilling start to run 19 Joints new 24Lb./Ft 8 5/8" casing.
8:15					Casing in well. Circulate for 5 minutes.
8:30	300			5	Start Fresh water Pre-Flush.
	325		10	6	Start mixing 200sacts A-con cement.
	200		97	5	Start mixing 200sacts common cement
	-0-		139		Stop pumping. Shut in well. Release Top Rubber Plug. Open well.
9:00	150			5	Start Fresh water Displacement.
9:15	350		51		Plug down. Shut in well.
					Circulate 10 Bbl. cement to the pit.
					Wash up pump truck.
					Job complete.
					Thank You
					Clarence, Milre, Terry



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET

1718 08190 A

DATE _____ TICKET NO. _____

DATE OF JOB 9-27-13 DISTRICT Pratt		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.O. Drilling		LEASE Frank WELL NO. 2							
ADDRESS		COUNTY Barton STATE KS							
CITY STATE		SERVICE CREW ED Dale Joe							
AUTHORIZED BY		JOB TYPE: CNW 5 1/2 LS							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
19899-19843	40min						9-26-13	PM	7:06
19960-21010	40min					ARRIVED AT JOB	9-26-13	AM	1130
28443						START OPERATION	9-27-13	AM	245
						FINISH OPERATION	9-27-13	AM	320
						RELEASED	9-27-13	AM	4:20
						MILES FROM STATION TO WELL			60

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

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

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 100C	Common Cement	SK	150		2,100 00
CP 103	60/40 POZ	SK	30		360 00
CC 105	C-41 Defoamer	lb	43		172 00
CC 111	SALT	lb	1465		732 50
CC 112	Cement Friction Reducer	lb	128		768 00
CC 113	Gypsum	lb	850		637 50
CC 201	Gilsonite	lb	900		603 00
CF 103	TOP Rubber Plug	eq	1		105 00
CF 251	Guide shoe	eq	1		250 00
CF 1451	FLAPPER INSERT	eq	1		215 00
CE 1601	5 1/2 Turbolizer	eq	6		750 00
CC 159	Flow Seal	gal	330		1,980 00
E 100	Pickup Mileage	mi	60		255 00
E 101	Heavy Mileage	mi	120		840 00
E 113	Bulk Delivery	TM	510		816 00
CE 204	Depth Charge	hr	1		2,160 00
CE 240	Mixing Charge	SK	180		252 00
CE 504	Plug Container	JOB	1		250 00
S 003	Supervisor	eq	1		175 00

CHEMICAL / ACID DATA:			

SUB TOTAL		69	10,290	75
SERVICE & EQUIPMENT	%TAX ON \$			
MATERIALS	%TAX ON \$			
TOTAL				

SERVICE REPRESENTATIVE <i>[Signature]</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>[Signature]</i>
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(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer <i>L.D Drilling</i>	Lease No.	Date <i>9-27 -13</i>	
Lease <i>Frank</i>	Well # <i>2</i>		
Field Order # <i>8190</i>	Station	Casing <i>5/2</i>	Depth <i>3638</i>
Type Job <i>CNW 5/2 LS</i>	Formation	County <i>Barton</i>	State <i>KS</i>
		Legal Description <i>23-20-14</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>5/2</i>				Pre Pad	Max		5 Min.	
Depth <i>3638</i>	Depth	From	To	Pad	Min		10 Min.	
Volume <i>85</i>	Volume	From	To	Frac	Avg		15 Min.	
Max Press <i>1000</i>	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection	Annulus Vol.	From	To	Flush	Gas Volume		Total Load	
Plug Depth <i>3622</i>	Packer Depth	From	To					

Customer Representative	Station Manager	Treater
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Service Units	<i>19889</i>	<i>19843</i>	<i>19960</i>	<i>21010</i>	<i>28443</i>				
Driver Names	<i>ED</i>		<i>Duke</i>		<i>JCP</i>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>2330</i>					<i>on loc / safety meeting</i>
<i>015</i>					<i>Start Running CSG.</i>
<i>130</i>					<i>CSG on Bottom / Circ with Bits</i>
					<i>Run 93 JT of 5/2 CSG mix 15.5 @ 17# CSG</i>
					<i>cent on 1-3-5-7-9-11</i>
					<i>Hook up to Pump to start Job</i>
<i>245</i>	<i>200</i>		<i>5</i>	<i>5.5</i>	<i>H2O Spacer</i>
			<i>7</i>		<i>Flow Seal</i>
			<i>5</i>		<i>H2O Spacer</i>
			<i>36</i>		<i>mix 150 SK common Cement @ 15.5#</i>
	<i>0</i>		<i>0</i>	<i>0</i>	<i>shut down / Lear Pump and Lines</i>
<i>300</i>	<i>100</i>			<i>6.5</i>	<i>Release Plug</i>
<i>300</i>	<i>100</i>		<i>0</i>	<i>6.5</i>	<i>start H2O DISP.</i>
	<i>150</i>		<i>64</i>	<i>6.5</i>	<i>Lift PSI</i>
	<i>250</i>		<i>75</i>	<i>2</i>	<i>slow Rate</i>
<i>3:20</i>	<i>900</i>		<i>85</i>	<i>0</i>	<i>Plug Down</i>
			<i>6</i>		<i>Plug BH</i>
					<i>JOB complete</i>
					<i>Thank you</i>
					<i>Joe</i>

Customer <i>W. WILLIAMS</i>	Lease No. <i>1700</i>	Date <i>10-16-13</i>	
Lease <i>EPHWK</i>	Well # <i>2</i>		
Field Order # <i>8786</i>	Station <i>PRATT, KS</i>	Casing <i>5 1/2</i>	Depth <i>3532</i>
Type Job <i>COIL TUBING</i>	Formation <i>HLS</i>	County <i>PRATT</i>	State <i>KS</i>
Legal Description <i>23-20-10</i>			

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>5 1/2</i>	<i>3 1/2</i>						Max	5 Min.
Depth	Depth	From	To	Pre Pad			Min	10 Min.
<i>3532</i>	<i>3532</i>	<i>3528</i>	<i>3532</i>				Avg	15 Min.
Volume	Volume	From	To	Pad			HHP Used	Annulus Pressure
<i>1.9</i>	<i>13.3</i>	<i>3536</i>	<i>3542</i>				Gas Volume	Total Load
Max Press	Max Press	From	To	Frac				
Well Connection	Annulus Vol.	From	To					
Plug Depth	Packer Depth	From	To	Flush				

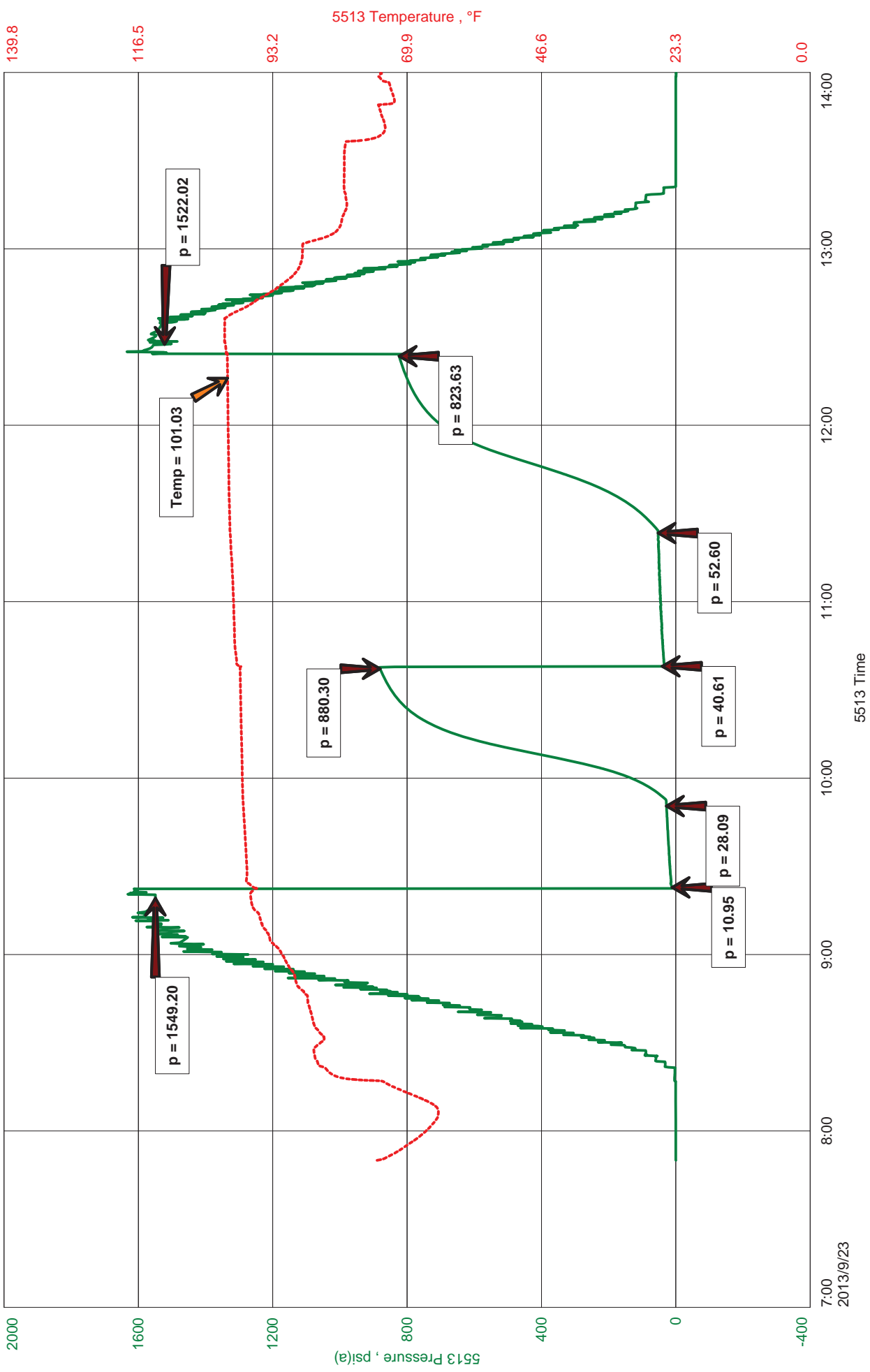
Customer Representative <i>WILLIAMS</i>	Station Manager <i>WILLIAMS</i>	Treater <i>WILLIAMS</i>
Service Units <i>1710</i>	<i>1189-1984-3</i>	<i>78918-19862</i>
Driver Names <i>WILLIAMS</i>	<i>WILLIAMS</i>	<i>WILLIAMS</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1130</i>					<i>START TREATMENT</i>
					<i>PERFS - 3528-32 3536-42</i>
					<i>1 PERFOR SEPT 3449'</i>
<i>1000</i>	<i>500</i>	<i>900</i>	<i>10</i>	<i>2</i>	<i>COIL TUBING - 500'</i>
		<i>700</i>	<i>9</i>	<i>1</i>	<i>200' RATE TRIP 1 BBL - 900'</i>
<i>1110</i>		<i>1000</i>	<i>5 1/2</i>	<i>1</i>	<i>1150' 25% PERFORATION 1/2%</i>
					<i>COIL TUBING 19' PERFOR 32 2</i>
		<i>1300</i>	<i>5 1/2</i>	<i>1</i>	<i>1150' 25% PERFORATION</i>
		<i>1300</i>	<i>6</i>	<i>1</i>	<i>START TEST</i>
		<i>1400</i>	<i>4</i>	<i>1</i>	<i>PERFORATION 19' PERFS</i>
		<i>7000</i>	<i>1 1/2</i>	<i>1/2</i>	<i>STOP - STARTED TO C 3536 PERFORATION</i>
<i>1145</i>		<i>7000</i>	<i>1 1/2</i>		<i>HELD 2000'</i>
					<i>IN PERFS</i>
					<i>RELEASE - NO FLOW PERFOR</i>
	<i>4100</i>		<i>16</i>	<i>1 1/2</i>	<i>REVERSE CUT - 1 1/2" PERFORATION</i>
					<i>RUN 3 TIS TO C TO PERFOR</i>
	<i>400</i>		<i>20</i>	<i>2</i>	<i>REVERSE CUT - 2 1/2" PERFORATION</i>
					<i>PERFORATION</i>
<i>1200</i>					<i>TUB COMPLETE - RETURN</i>

L D Drilling, Inc
DST #1 Lans A-F 3277-3345
Start Test Date: 2013/09/23
Final Test Date: 2013/09/23

Frank #2
Formation: Lansing A-F
Pool: Wildcat
Job Number: K034

Frank #2





JASON MCLEMORE

CELL # 620-6170527

General Information

Company Name	L D Drilling, Inc	L D Davis	Job Number	K034
Contact		Frank #2	Representative	Jason McLemore
Well Name		DST #1 Lans A-F 3277-3345	Well Operator	L D Drilling, Inc
Unique Well ID		23-20w-14s-Barton	Prepared By	Jason McLemore
Surface Location		Maybach West	Qualified By	Kim Shoemaker
Field		Vertical	Test Unit	#7
Well Type				

Test Information

Test Type	Drill Stem Test	Representative	Jason McLemore
Formation	Lansing A-F	Well Operator	L D Drilling, Inc
Well Fluid Type	01 Oil	Report Date	2013/09/23
Test Purpose (AEUB)	Initial Test	Prepared By	Jason McLemore

Start Test Date	2013/09/23	Start Test Time	07:50:00
Final Test Date	2013/09/23	Final Test Time	14:03:00

Test Results

RECOVERED:

75 VSOCM-2%O, 98%M
75 Total Fluid

200' Gas In Pipe

Tool Sample: 4%O, 96%M



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: frank2dst1

TIME ON: 7:50 AM
TIME OFF: 14:03 PM

Company L D Drilling, Inc Lease & Well No. Frank #2
Contractor Petromark #2 Charge to L D Drilling, Inc
Elevation Kb 1899 Formation Lansing A-F Effective Pay _____ Ft. Ticket No. K034
Date 09-23-13 Sec. 23 Twp. 20 S Range 14 W County Barton State KANSAS
Test Approved By Kim Shoemaker Diamond Representative Jason McLemore

Formation Test No. 1 Interval Tested from 3277 ft. to 3345 ft. Total Depth 3345 ft.
Packer Depth 3272 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3277 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3267 ft. Recorder Number 5513 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3342 ft. Recorder Number 13338 Cap. 4950 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 51 Drill Collar Length 117 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4000 P.P.M. Drill Pipe Length 3132 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number S Test Tool Length 28 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out no Anchor Length 68 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 31' DP in Anchor Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Good Blow, Built to 11", No Blowback
2nd Open: Good Blow, BOB in 23 Min., No Blowback

Recovered 75 ft. of VSOCM 2%O, 98%M
Recovered 75 ft. of TOTAL FLUID
Recovered _____ ft. of 200 Gas In Pipe
Recovered _____ ft. of TOOL SAMPLE: VSOCM 4%O, 96%M

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

Time Set Packer(s) 9:25 AM A.M. P.M. Time Started Off Bottom 14:03 PM A.M. P.M. Maximum Temperature 101

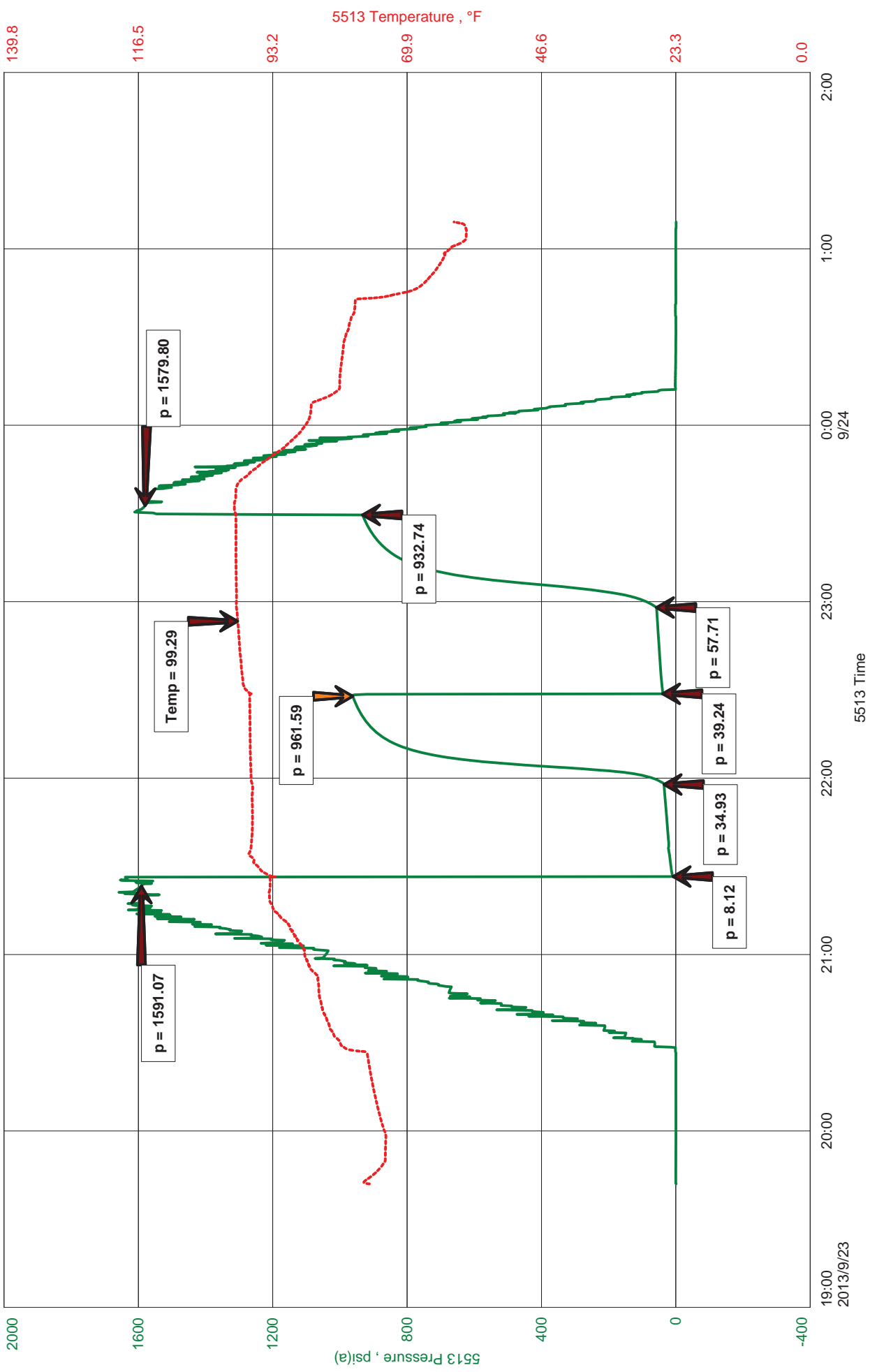
Initial Hydrostatic Pressure..... (A) 1549 P.S.I.
Initial Flow Period..... Minutes 30 (B) 11 P.S.I. to (C) 28 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 880 P.S.I.
Final Flow Period..... Minutes 45 (E) 41 P.S.I. to (F) 53 P.S.I.
Final Closed In Period..... Minutes 60 (G) 823 P.S.I.
Final Hydrostatic Pressure..... (H) 1522 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 LKC-G 3342-3370
Start Test Date: 2013/09/23
Final Test Date: 2013/09/24

Frank #2
Formation: LKC-G
Pool: Wildcat
Job Number: K035

Frank #2





JASON MCLEMORE

CELL # 620-6170527

General Information

Company Name	L D Drilling, Inc	L D Davis	Job Number	K035
Contact		Frank #2	Representative	Jason McLemore
Well Name		DST #2 LKC-G 3342-3370	Well Operator	L D Dilling Inc
Unique Well ID		23-20w-14s-Barton	Prepared By	Jason McLemore
Surface Location		Maybach West	Qualified By	Kim Shoemaker
Field		Vertical	Test Unit	#7
Well Type				

Test Information

Test Type	Drill Stem Test	Representative	Jason McLemore
Formation	LKC-G	Well Operator	L D Dilling Inc
Well Fluid Type	01 Oil	Report Date	2013/09/24
Test Purpose (AEUB)	Initial Test	Prepared By	Jason McLemore
Start Test Date	2013/09/23	Start Test Time	19:42:00
Final Test Date	2013/09/24	Final Test Time	01:09:00

Test Results

RECOVERED:

70 VSOCMW 2%O, 63%W, 35%M
70 Total Fluid

CHLORIDES: 62000

PH: 7

RW .250 @ 62

Tool Sample: 2%O, 98%W



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: frank2dst2

TIME ON: 19:42 PM
TIME OFF: 1:09 AM

Company L D Drilling, Inc Lease & Well No. Frank #2
Contractor Petromark #2 Charge to L D Drilling, Inc
Elevation Kb 1899 Formation LKC -G Effective Pay _____ Ft. Ticket No. K035
Date 09-23-13 Sec. 23 Twp. _____ 20 S Range _____ 14 W County _____ Barton State KANSAS
Test Approved By Kim Shoemaker Diamond Representative Jason McLemore

Formation Test No. 2 Interval Tested from 3342 ft. to 3370 ft. Total Depth 3370 ft.
Packer Depth 3337 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3342 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 3327 ft. Recorder Number 5513 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3367 ft. Recorder Number 13338 Cap. 4950 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 51 Drill Collar Length 117 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4000 P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number S Test Tool Length 28 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out no Anchor Length 28 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: Weak Blow, Built to 2-1/2", No Blowback
2nd Open: Weak Blow, Built to 1", No Blowback

Recovered 70 ft. of VSOCMW 2%O, 63%W, 35%M
Recovered 70 ft. of Total Fluid
Recovered _____ ft. of _____
Recovered _____ ft. of Chlorides: 62000
Recovered _____ ft. of PH: 7
Recovered _____ ft. of RW: .250 @ 62
Remarks: Tool Sample: 2%O, 98%W

	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) 9:26 PM A.M. P.M. Time Started Off Bottom 11:26 PM A.M. P.M. Maximum Temperature 99
Initial Hydrostatic Pressure..... (A) 1591 P.S.I.
Initial Flow Period..... Minutes 30 (B) 8 P.S.I. to (C) 35 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 962 P.S.I.
Final Flow Period..... Minutes 30 (E) 39 P.S.I. to (F) 58 P.S.I.
Final Closed In Period..... Minutes 30 (G) 933 P.S.I.
Final Hydrostatic Pressure..... (H) 1580 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.



JASON MCLEMORE

CELL # 620-6170527

General Information

Company Name	L D Drilling, Inc	L D Davis	Job Number	K036
Contact		Frank #2	Representative	Jason McLemore
Well Name		DST #3 LKC H 3383-3405	Well Operator	L D Drilling, Inc
Unique Well ID		23-20s-14w-Barton	Prepared By	Jason McLemore
Surface Location		Maybach West	Qualified By	Kim Shoemaker
Field		Vertical	Test Unit	#7
Well Type				

Test Information

Test Type	Drill Stem Test	Representative	Jason McLemore
Formation	LKC-H	Well Operator	L D Drilling, Inc
Well Fluid Type	01 Oil	Report Date	2013/09/24
Test Purpose (AEUB)	Initial Test	Prepared By	Jason McLemore
Start Test Date	2013/09/24	Start Test Time	07:55:00
Final Test Date	2013/09/24	Final Test Time	14:15:00

Test Results

RECOVERED:

50 VSOCM 2%O, 98%M
50 Total Fluid

Tool Sample: VSOCM 2%O, 98%M



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: frank2dst3

TIME ON: 7:55 AM
TIME OFF: 14:15 PM

Company L D Drilling, Inc Lease & Well No. Frank #2
Contractor Petromark #2 Charge to L D Drilling, Inc
Elevation Kb 1899 Formation LKC -H Effective Pay _____ Ft. Ticket No. K036
Date 09-24-13 Sec. 23 Twp. _____ 20 S Range _____ 14 W County _____ Barton State KANSAS
Test Approved By Kim Shoemaker Diamond Representative Jason McLemore

Formation Test No. 3 Interval Tested from 3383 ft. to 3405 ft. Total Depth 3405 ft.
Packer Depth 3378 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3383 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 3373 ft. Recorder Number 5513 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3402 ft. Recorder Number 13338 Cap. 4950 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 51 Drill Collar Length 117 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 5000 P.P.M. Drill Pipe Length 3238 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number S Test Tool Length 28 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out no Anchor Length 22 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Good Blow, BOB in 7-1/2 Min., No Blowback
2nd Open: Strong, BOB On Open, No Blowback

Recovered 50 ft. of VSOCM 2%O, 98%M
Recovered 50 ft. of Total Fluid
Recovered _____ ft. of _____
Recovered _____ ft. of 1980' Gas In Pipe

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

Time Set Packer(s) 9:33 AM A.M. P.M. Time Started Off Bottom 12:33 PM A.M. P.M. Maximum Temperature 101

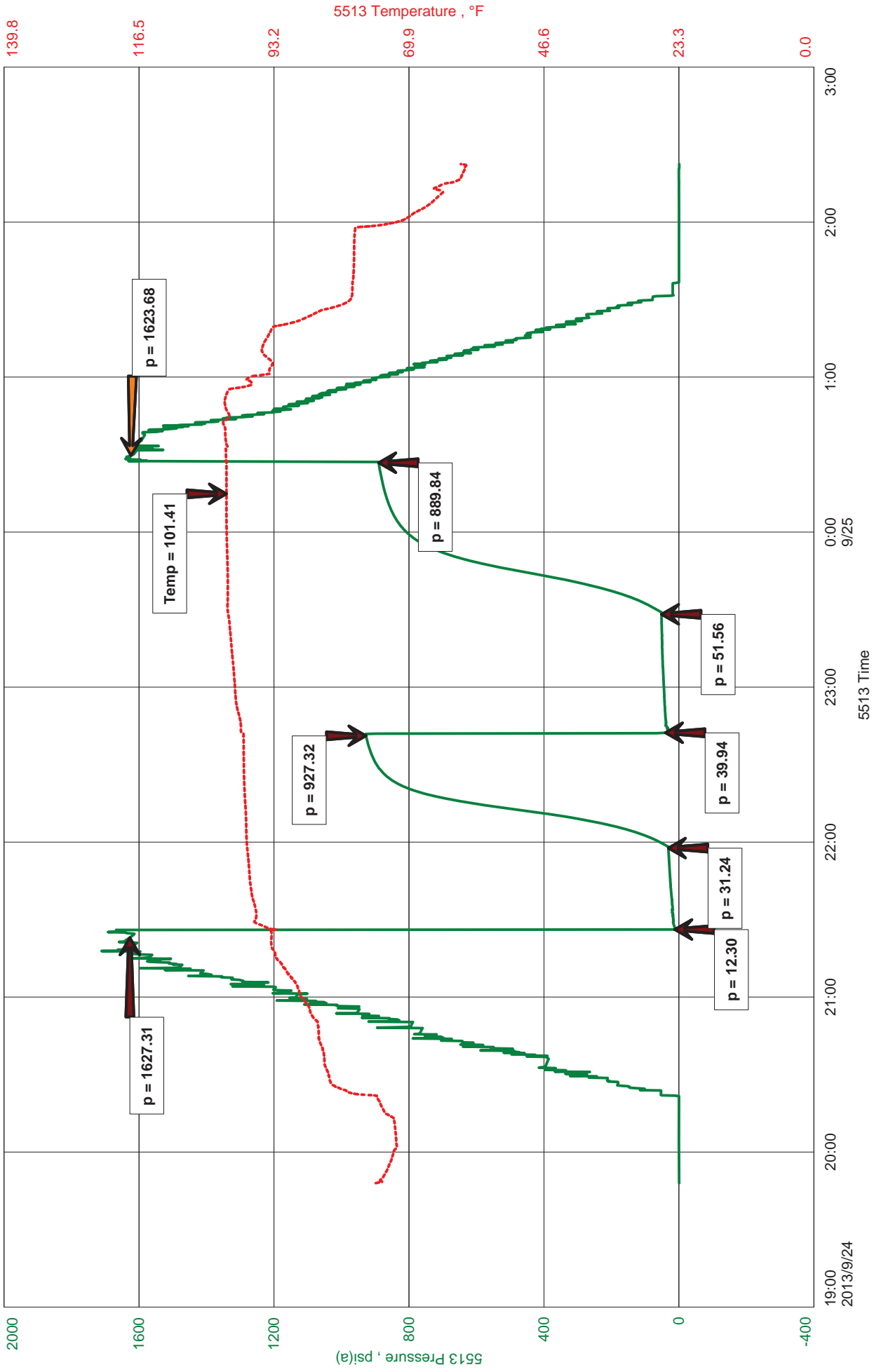
Initial Hydrostatic Pressure..... (A) 1607 P.S.I.
Initial Flow Period..... Minutes 30 (B) 9 P.S.I. to (C) 20 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 128 P.S.I.
Final Flow Period..... Minutes 45 (E) 21 P.S.I. to (F) 31 P.S.I.
Final Closed In Period..... Minutes 60 (G) 127 P.S.I.
Final Hydrostatic Pressure..... (H) 1601 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 #4 LKC-I 3403-3422
Start Test Date: 2013/09/24
Final Test Date: 2013/09/25

Frank #2
Formation: LKC-I
Pool: Wildcam
Job Number: K037

Frank #2





JASON MCLEMORE

CELL # 620-6170527

General Information

Company Name	L D Drilling Inc	L D Davis	Job Number	K037
Contact		Frank #2	Representative	Jason McLemore
Well Name		DST #4 LKC-I 3403-3422	Well Operator	L D Drilling Inc
Unique Well ID		23-20s-14w-barton	Prepared By	Jason McLemore
Surface Location		Maybach West	Qualified By	Kim Shoemaker
Field		Vertical	Test Unit	#7
Well Type				

Test Information

Test Type	Drill Stem Test	Representative	Jason McLemore
Formation	LKC-I	Well Operator	L D Drilling Inc
Well Fluid Type	01 Oil	Report Date	2013/09/25
Test Purpose (AEUB)	Initial Test	Prepared By	Jason McLemore

Start Test Date	2013/09/24	Start Test Time	19:48:00
Final Test Date	2013/09/25	Final Test Time	02:23:00

Test Results

RECOVERED:

25 OCM 30%O, 70%M
60 Frothy Muddy 35%G, 50%O, 15%M
85 Total Fluid

450' Gas In Pipe

Tool Sample: Muddy Oil, 85%O, 15%M



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: frank2dst4

TIME ON: 19:48 PM
TIME OFF: 2:23 AM

Company L D Drilling, Inc Lease & Well No. Frank #2
Contractor Petromark #2 Charge to L D Drilling, Inc
Elevation Kb 1899 Formation LKC -I Effective Pay _____ Ft. Ticket No. K037
Date 09-24-13 Sec. 23 Twp. 20 S Range 14 W County Barton State KANSAS
Test Approved By Kim Shoemaker Diamond Representative Jason McLemore

Formation Test No. 4 Interval Tested from 3403 ft. to 3422 ft. Total Depth 3422 ft.
Packer Depth 3398 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3403 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3388 ft. Recorder Number 5513 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3419 ft. Recorder Number 13338 Cap. 4950 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 51 Drill Collar Length 117 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 5000 P.P.M. Drill Pipe Length 3258 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number S Test Tool Length 28 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out no Anchor Length 19 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: Good Blow, BOB in 18-1/2 Min., No Blowback
2nd Open: Strong, BOB In 3-1/2 MI., No Blowback

Recovered 25 ft. of OCM 30%O, 70%M
Recovered 60 ft. of Frothy Muddy Oil 35%G, 50%O, 15%M
Recovered 85 ft. of Total Fluid

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of <u>Tool Sample: Muddy Oil, 85%O, 15%M</u>	Other Charges
Remarks: _____	Insurance
_____	Total

Time Set Packer(s) 9:26 PM A.M. P.M. Time Started Off Bottom 12:26 AM A.M. P.M. Maximum Temperature 101

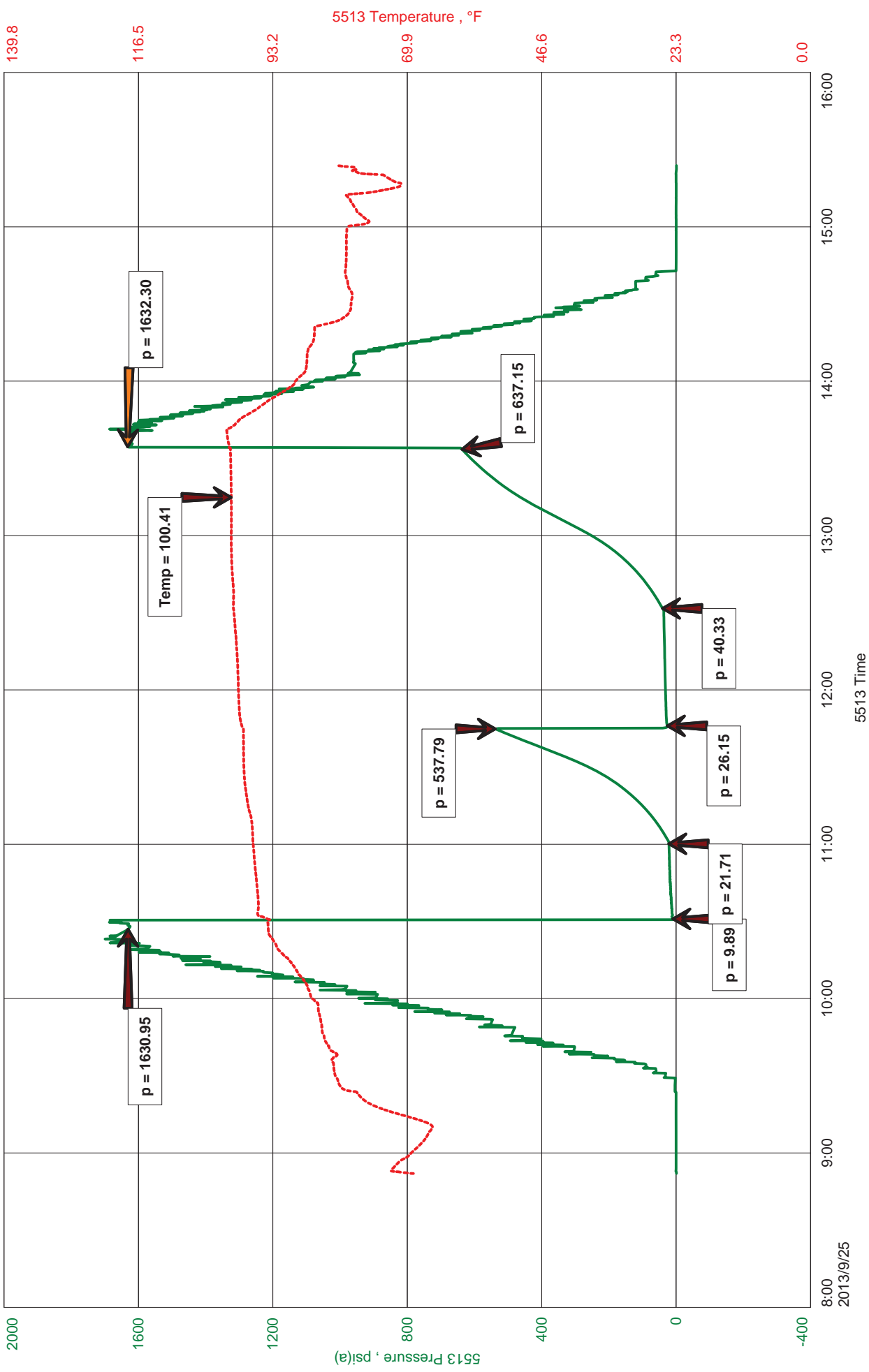
Initial Hydrostatic Pressure..... (A) 1627 P.S.I.
Initial Flow Period..... Minutes 30 (B) 12 P.S.I. to (C) 31 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 927 P.S.I.
Final Flow Period..... Minutes 45 (E) 40 P.S.I. to (F) 52 P.S.I.
Final Closed In Period..... Minutes 60 (G) 890 P.S.I.
Final Hydrostatic Pressure..... (H) 1624 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 #5 LKC J-K 3419-3455
Start Test Date: 2013/09/25
Final Test Date: 2013/09/25

Frank #2
Formation: LKC J-K
Pool: Wildcat
Job Number: K038

Frank #2





JASON MCLEMORE

CELL # 620-6170527

General Information

Company Name	L D Drilling Inc	L D Davis	Job Number	K038
Contact		Frank #2	Representative	Jason McLemore
Well Name		DST #5 LKC J-K 3419-3455	Well Operator	L D Drilling Inc
Unique Well ID		23-20s-14w-Barton	Prepared By	Jason McLemore
Surface Location		Maybach West	Qualified By	Kim Shoemaker
Field		Vertical	Test Unit	#7
Well Type				

Test Information

Test Type	Drill Stem Test	Representative	Jason McLemore
Formation	LKC J-K	Well Operator	L D Drilling Inc
Well Fluid Type	01 Oil	Report Date	2013/09/25
Test Purpose (AEUB)	Initial Test	Prepared By	Jason McLemore
Start Test Date	2013/09/25	Start Test Time	08:52:00
Final Test Date	2013/09/25	Final Test Time	15:24:00

Test Results

RCOVERED:

62 Mud Cut Oil 55%O, 45%M
62 Total Fluid

Tool Sample: 50%O, 50%M

180' Gas In Pipe



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: frank2dst5

TIME ON: 8:52 AM
TIME OFF: 15:24

Company L D Drilling, Inc Lease & Well No. Frank #2
Contractor Petromark #2 Charge to L D Drilling, Inc
Elevation Kb 1899 Formation LKC-JK Effective Pay _____ Ft. Ticket No. K038
Date 09-25-13 Sec. 23 Twp. 20 S Range 14 W County Barton State KANSAS
Test Approved By Kim Shoemaker Diamond Representative Jason McLemore

Formation Test No. 5 Interval Tested from 3419 ft. to 3455 ft. Total Depth 3455 ft.
Packer Depth 3414 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3419 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3409 ft. Recorder Number 5513 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3452 ft. Recorder Number 13338 Cap. 4950 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 48 Drill Collar Length 117 ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 9.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 5800 P.P.M. Drill Pipe Length 3274 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number S Test Tool Length 28 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out no Anchor Length 36 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: Fair Blow, Built to 11", No Blowback

2nd Open: Good Blow, BOB in 12 Min., No Blowback

Recovered <u>62</u> ft. of <u>Mud Cut Oil, 55%O, 45%M</u>	
Recovered <u>62</u> ft. of <u>Total Fluid</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of <u>180' Gas In Pipe</u>	
Recovered _____ ft. of <u>Tool Sample: 50%O, 50%M</u>	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
	Total

Time Set Packer(s) 10:30 AM A.M. P.M. Time Started Off Bottom 1:30 PM A.M. P.M. Maximum Temperature 100

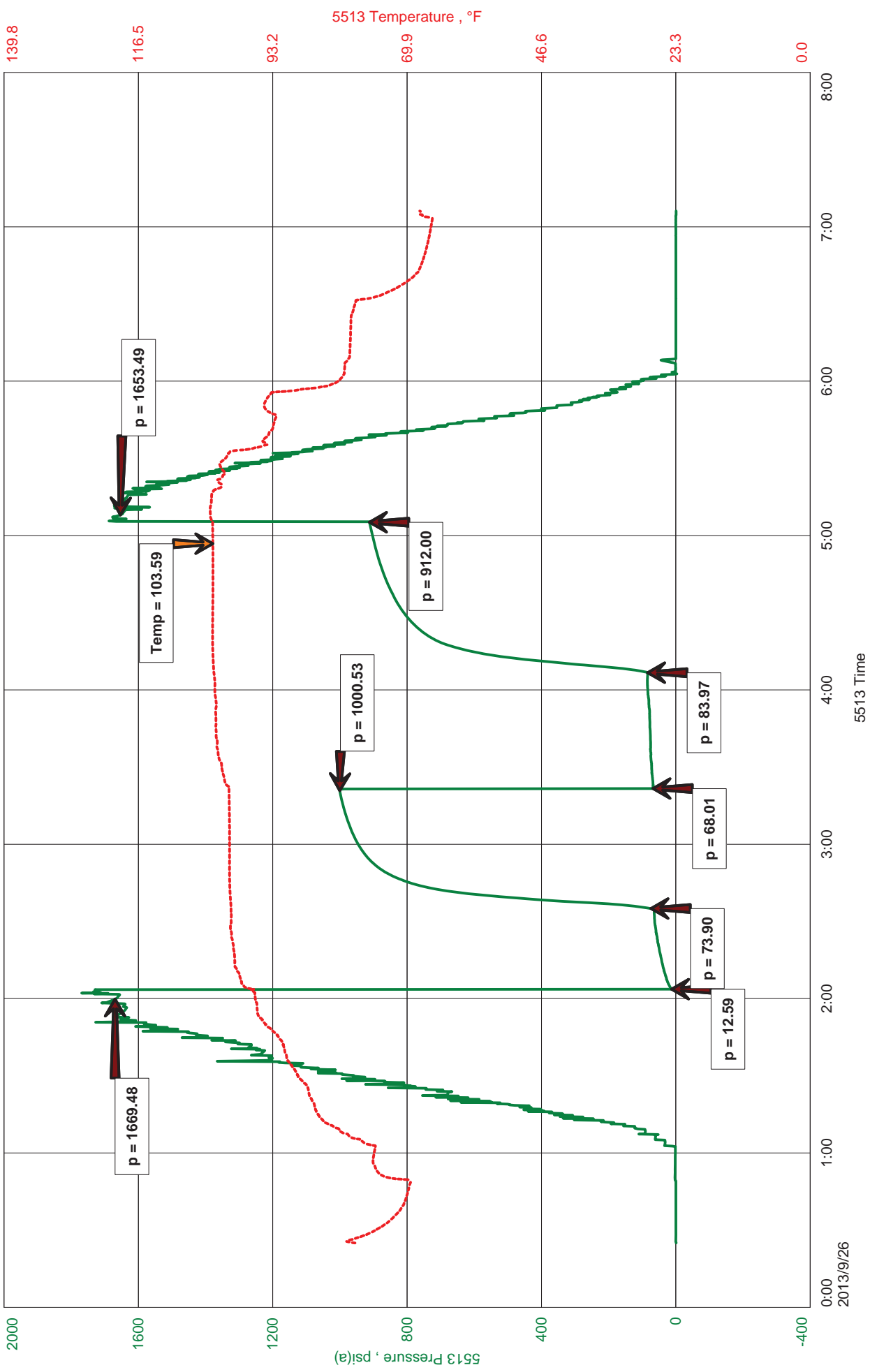
Initial Hydrostatic Pressure..... (A) 1631 P.S.I.
Initial Flow Period..... Minutes 30 (B) 10 P.S.I. to (C) 22 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 538 P.S.I.
Final Flow Period..... Minutes 45 (E) 26 P.S.I. to (F) 40 P.S.I.
Final Closed In Period..... Minutes 60 (G) 637 P.S.I.
Final Hydrostatic Pressure..... (H) 1632 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 #6 Arbuckle 3480-3550
Start Test Date: 2013/09/26
Final Test Date: 2013/09/26

Frank #2
Formation: Arbuckle
Pool: Wildcat
Job Number: K039

Frank #2





JASON MCLEMORE

CELL # 620-6170527

General Information

Company Name	L D Drilling, Inc	L D Davis	Job Number	K039
Contact		Frank #2	Representative	Jason McLemore
Well Name		DST #6 Arbuckle 3480-3550	Well Operator	L D Drilling, Inc
Unique Well ID		23-20s-14w-Barton	Prepared By	Jason McLemore
Surface Location		Maybach West	Qualified By	Kim Shoemaker
Field		Vertical	Test Unit	#7
Well Type				

Test Information

Test Type	Drill Stem Test	Representative	Jason McLemore
Formation	Arbuckle	Well Operator	L D Drilling, Inc
Well Fluid Type	01 Oil	Report Date	2013/09/26
Test Purpose (AEUB)	Initial Test	Prepared By	Jason McLemore

Start Test Date	2013/09/26	Start Test Time	00:25:00
Final Test Date	2013/09/26	Final Test Time	07:06:00

Test Results

RECOVERED:

3 Free Oil
180 MCO 55%O, 45%M
183 Total Fluid

Tool Sample: 60%O, 40%M
Gravity: 38

Tool Sample: 60%O, 40%M



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: frank2dst6

TIME ON: 12:25 AM
TIME OFF: 7:06 AM

Company L D Drilling, Inc Lease & Well No. Frank #2
Contractor Petromark #2 Charge to L D Drilling, Inc
Elevation Kb 1899 Formation _____ Arbuckle Effective Pay _____ Ft. Ticket No. K039
Date 09-26-13 Sec. 23 Twp. _____ 20 S Range _____ 14 W County _____ Barton State KANSAS
Test Approved By Kim Shoemaker Diamond Representative Jason McLemore

Formation Test No. 6 Interval Tested from 3480 ft. to 3550 ft. Total Depth 3550 ft.
Packer Depth 3475 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3480 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3461 ft. Recorder Number 5513 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3547 ft. Recorder Number 13338 Cap. 4950 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 48 Drill Collar Length 117 ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 9.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 5800 P.P.M. Drill Pipe Length 3330 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 7 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out no Anchor Length 70 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 31' DP in Anchor Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Fair Blow, Built to 8", No Blowback
2nd Open: Fair Blow, Built to 10", No Blowback

Recovered 3 ft. of Free Oil
Recovered 180 ft. of Mud Cut Oil 55%O, 45%M
Recovered 183 ft. of Total Fluid

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of Tool Sample: 60%O, 40%M	Other Charges
Recovered _____ ft. of _____	Insurance
Remarks: _____	Total

Time Set Packer(s) 2:04 AM A.M. P.M. Time Started Off Bottom 5:04 AM A.M. P.M. Maximum Temperature 104

Initial Hydrostatic Pressure..... (A) 1669 P.S.I.
Initial Flow Period..... Minutes 30 (B) 13 P.S.I. to (C) 74 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1001 P.S.I.
Final Flow Period..... Minutes 45 (E) 68 P.S.I. to (F) 84 P.S.I.
Final Closed In Period..... Minutes 60 (G) 912 P.S.I.
Final Hydrostatic Pressure..... (H) 1653 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.

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 * WICHITA, KS

GEOLOGIST'S REPORT

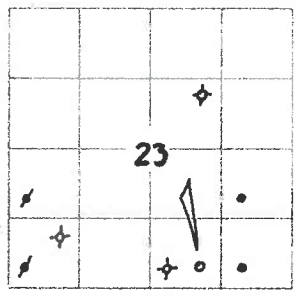
DRILLING TIME AND SAMPLE LOG

COMPANY L.D. DRILLING, INC.
 LEASE * 2 FRANK
 FIELD MAYBACH WEST
 LOCATION 1657' FEL & 343' FSL
 SEC 23 TWP 20S RGE 14W
 COUNTY BARTON STATE KANSAS
 CONTRACTOR PETROMARK DRILLING RIG 2
 SPUD 9-19-13 COMP 9-27-13
 RTD 3650 LTD 3649
 MUD UP 2873 TYPE MUD CHEMICAL

ELEVATIONS
 KB 1899
 DF _____
 GL 1894
 Measurements Are All From 1899 KB
 CASING
 SURFACE 8 5/8" @ 812'
 PRODUCTION 5 1/2" @
 ELECTRICAL SURVEYS
 DUAL IND., DENS., MICRO

SAMPLES SAVED FROM 3000 TO 3650
 DRILLING TIME KEPT FROM 2700 TO 3650
 SAMPLES EXAMINED FROM 3000 TO 3650
 GEOLOGICAL SUPERVISION FROM 3150 TO 3650
 GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	801 + 1098	797 + 1102
TOPEKA	2807 - 908	2809 - 910
HEEBNER	3152 - 1253	3154 - 1255
BROWN LIME	3257 - 1358	3259 - 1360
LANSING	3268 - 1369	3268 - 1369
B/KC	3493 - 1594	3490 - 1591
ARBUCKLE	3524 - 1625	3529 - 1630



REMARKS

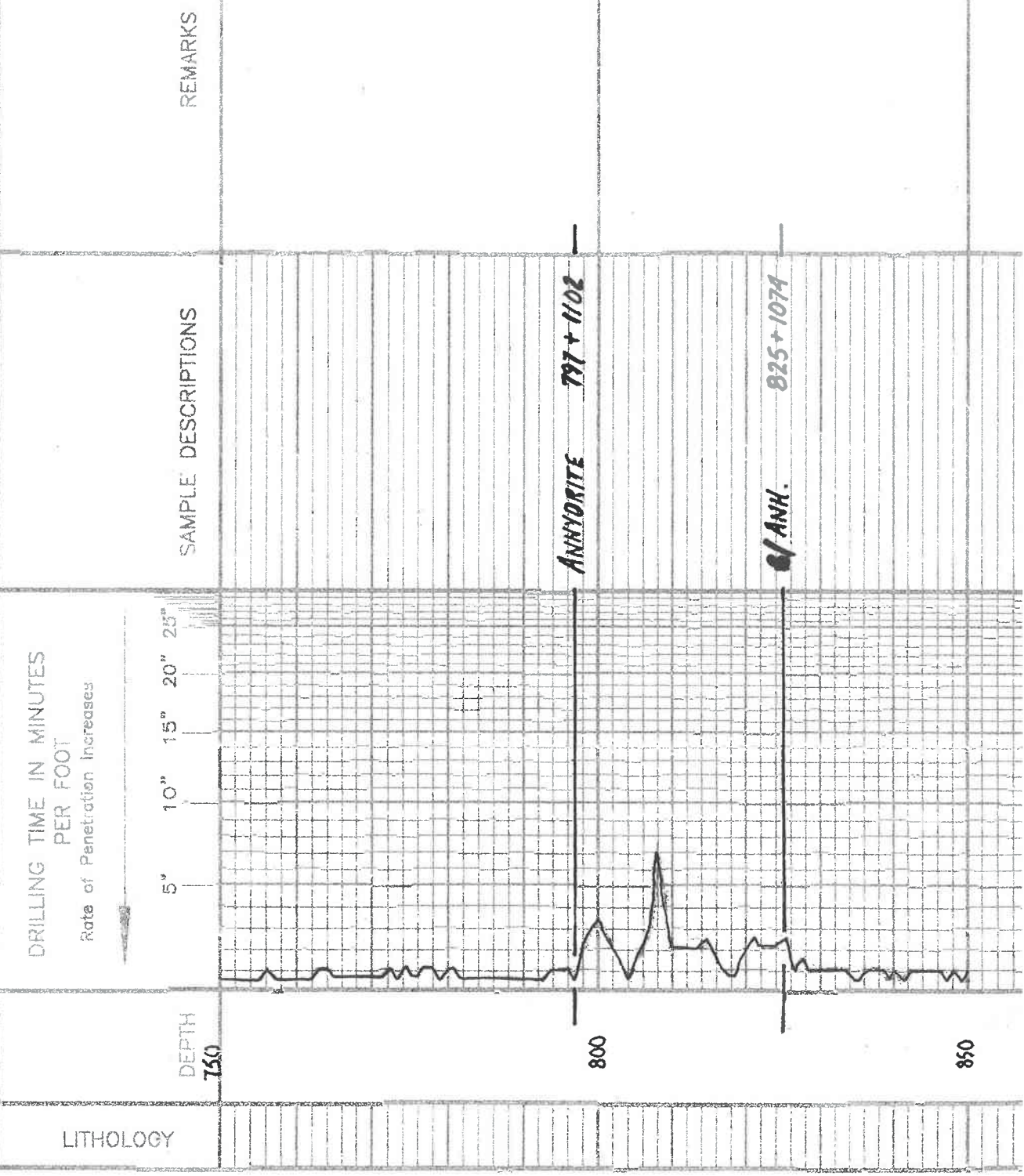
9-19-13 SPUD
 9-20 @ 817'
 9-21 @ 1740'
 9-22 @ 2810'
 9-23 @ 3345'
 9-24 @ 3405'
 9-25 @ 3455'
 9-26 @ 3550'
 9-27 @ 3650'

API: 15-009-2588

LEGEND

- Anhydrite
- Salt
- Sandstone
- Shale
- Carb sh
- Limestone
- Coal Lime
- Chert
- Dolomite

SHOE01-06



LITHOLOGY

REMARKS

SAMPLE DESCRIPTIONS

2700

2800

2900

✓ Top Log

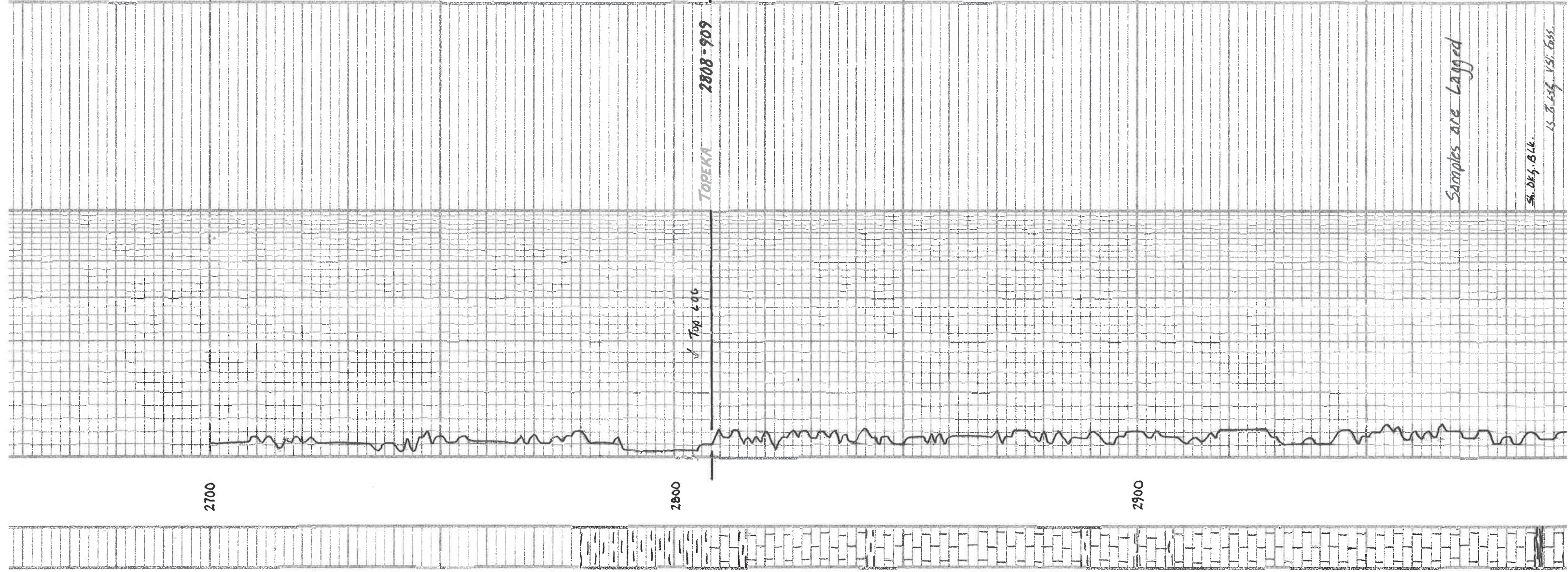
TOPEKA

2808-909

Samples are Lagged

Sh. Dk. Blk.

15. 2. 1959. VSI. 688.

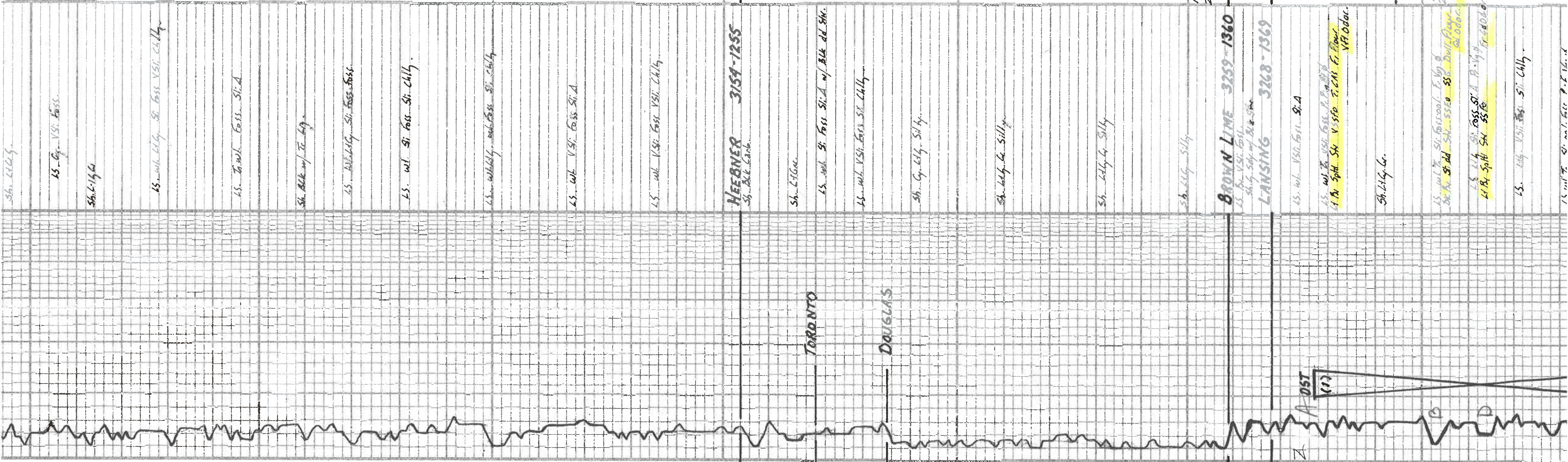


3000

3100

3200

3300



Sh. clay

LS. G. VSI. Foss.

Sh. clay

LS. wt. clay. Sh. Foss. VSI. Chly.

LS. Foss. Sil. A

Sh. clay

LS. wt. clay. Sh. Foss.

LS. wt. Sh. Foss. Sil. Chly.

LS. wt. clay. Sh. Foss. Sil. Chly.

LS. wt. VSI. Foss. Sil. A

LS. wt. VSI. Foss. VSI. Chly.

HEEBNER 3154-1255
Sh. All Carb.

Sh. Clay

LS. wt. Sh. Foss. Sil. A w/ Blk. rd. Sil.

LS. wt. VSI. Foss. Sil. Chly.

Sh. G. clay. Sil. A

Sh. clay. Sil. A

Sh. clay. Sil. A

Sh. clay. Sil. A

BROWN LIME 3259-1360
LS. wt. VSI. Foss.
Sh. clay. Sil. A

LANSING 3268-1369

LS. wt. VSI. Foss. Sil. A

LS. wt. Sh. Foss. Sil. A
L. N. Sp. Sil. V. Sp. Foss. F. Foss.
V. Foss.

Sh. clay. Sil. A

LS. wt. Sh. Foss. Sil. A
Sh. clay. Sil. A

LS. wt. Sh. Foss. Sil. A
L. N. Sp. Sil. V. Sp. Foss. F. Foss.
V. Foss.

LS. wt. VSI. Foss. Sil. Chly.

LS. wt. Sh. Foss. Sil. Chly.

DST (1) 3277-3345

1500ft: Blow drill to 11"

2000ft: Bottom bucket 23 min.

30.45.45-60

SS: None
SB: "

Rec. 200' SIP

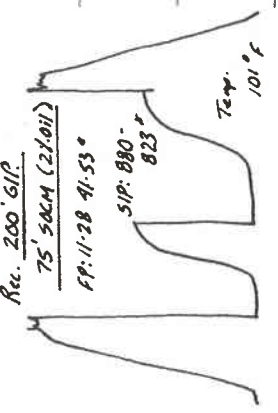
75' SACM (21.01)

FP: 11-28 41-53°

SIP: 880°

823°

Temp. 101°F



DST (2) 3312-3370

1500ft: Blow drill to 2 1/2"

2000ft: " " " "

30.30.30-30

Rec. 70' V500MMW (21.01) 63/W, 35/A

FP: 8:35 39-58°

SIP: 962-935°

CHL: 62.000
PA: T.
RA: .25 @ 62°F

