



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
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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

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: _____



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	DARREL 2-31
Doc ID	1113440

Tops

Name	Top	Datum
ANHYDRITE	2057	+603
BASE ANHYDRITE	2085	+575
STOTLER	3292	-632
HEEBNER	3664	-1004
LANSING	3700	-1040
STARK	3950	-1290
MARMATON	4050	-1390
FORT SCOTT	4205	-1545
CHEROKEE	4231	-1571
MISSISSIPPI SPERGEN	4324	-1664



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 07041 A

DATE _____ TICKET NO. _____

DATE OF JOB: 11-27-12		DISTRICT: 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.O. Drilling Inc				LEASE: Darrel #2-31				WELL NO.:		
ADDRESS:				COUNTY: Gove 31-14-29 STATE: KS						
CITY:				STATE:						
AUTHORIZED BY:				SERVICE CREW: Allen, Ed, Mike L.						
				JOB TYPE: 8 5/8" Surface CNW						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
28443 PU	1 1/2						11-27-12			400
27463 PT	1 1/2						11-27-12			730
19826-19860	1 1/2						11-27-12			1000
							11-27-12			1130
							11-27-12			1200
						MILES FROM STATION TO WELL		100-miles		

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: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP103	60/40 Poz	SK	185		\$ 2700.00
CC102	CELL FLAKE	lb	47		\$ 173.90
CC109	CALCIUM CHLORIDE	lb	480		\$ 504.00
E100	UNIT MILEAGE CHG.	mi	100		\$ 425.00
E101	HEAVY EQUIP MILEAGE	mi	200		\$ 1400.00
E113	BK DEL. CHG.	Tm	800		\$ 1200.00
CE200	DEPTH CHG. 0-500	H-hr	1		\$ 1000.00
CE240	BLENDING & MIXING SERVICE CHG.	SK	185		\$ 229.00
S003	SERVICE SUPERVISOR FIRST 8HRS	EA	1		\$ 125.00

SUB TOTAL \$5577.68
DLS

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: *Allen F. Ward* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *Allen F. Ward*
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer <i>L.D. Drilling Inc.</i>		Lease No.		Date <i>11-27-12</i>	
Lease <i>Parcel</i>		Well # <i>2-31</i>			
Field Order # <i>070411</i>	Station <i>Pratt</i>	Casing <i>8 5/8"</i>	Depth <i>302</i>	County <i>Gove</i>	State <i>KS</i>
Type Job <i>8 5/8" Surface</i>	Formation <i>cnw</i>	TD <i>305</i>	Legal Description <i>31-14-29</i>		

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>8 5/8"</i>		<i>185-SKs</i>		<i>60/40 Poz</i>	<i>390cc</i>	<i>14"</i>	<i>@ 14.8"</i>	
Depth	Depth	From	To	Pre Pad	Max		5 Min.	
<i>302</i>								
Volume	Volume	From	To	Pad	Min		10 Min.	
<i>17 BB</i>								
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
<i>300</i>								
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
<i>cnw</i>								
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	
<i>280</i>				<i>Disp H 20</i>				

Customer Representative <i>RICK TP</i>		Station Manager <i>SCOTT</i>		Treater <i>ALLEN</i>	
Service Units	<i>2443</i>	<i>2743</i>	<i>1982</i>	<i>1980</i>	
Driver Names	<i>Allen</i>	<i>Mike</i>	<i>Mike</i>	<i>Lawrence</i>	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>730</i>					<i>L.D. Rig</i> <i>on loc. discuss safety, Setup Plan to</i>
<i>830</i>					<i>Rig @ 194</i>
<i>930</i>					<i>Hole cut @ 305" - CIR.</i>
<i>945</i>					<i>out of Hole w/ Bit</i>
<i>1015</i>					<i>Rig up to Run 8 5/8" csg. 24"</i>
<i>1040</i>				<i>4</i>	<i>Start mix cement 185SKs</i>
<i>1105</i>			<i>40</i>		<i>60/40 Poz 3%CC 1/4" C.F. @ 14.8"</i>
<i>1110</i>				<i>3 1/2</i>	<i>Finish mix</i>
<i>1115</i>			<i>18</i>	<i>2</i>	<i>Start Disp.</i>
					<i>Plug down.</i>
					<i>shut in well</i>
					<i>Release PSI</i>
					<i>washup + Rackup Equip.</i>
<i>1200</i>					<i>Job complete</i>
					<i>Cement CIR To Pit</i>
					<i>THANKS</i>
					<i>Allen ED</i>
					<i>Mike L.</i>



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ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET

1718 07078 A

DATE _____ TICKET NO. _____

DATE OF JOB: 12-9-12		DISTRICT: 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.A. Drilling Inc				LEASE: Darrel H 2-31				WELL NO.:		
ADDRESS:				COUNTY: Lane 31-14-29				STATE: KANS.		
CITY:				STATE:				SERVICE CREW: Allen, Mike, Dale, Steve		
AUTHORIZED BY:				JOB TYPE: 4 1/2" 2-Stage L.S. CNU						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
28443 PH	2 1/2						12-8-12			930
19903-19905	2 1/2					ARRIVED AT JOB	12-9-12			600
70959-19918	2 1/2					START OPERATION	12-9-12			1100
19959-21010	2 1/2					FINISH OPERATION	12-9-12			130
19907 PH	2 1/2					RELEASED	12-9-12			200
						MILES FROM STATION TO WELL: 100 miles				

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: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP100C	Common Cement	SK	200		\$ 3200 00
CP101	A-CON Blend, Common	SK	440		\$ 7920 00
CP101	A-CON Blend Common	SK	60		\$ 1080 00
CC102	Cell Flake	lb	128		\$ 462 50
CC105	C-4IP Defoamer	lb	47		\$ 188 00
CC109	Calcium Chloride	lb	1413		\$ 1483 65
CC111	SALT	lb	1621		\$ 810 50
CC112	Cement Friction Reducer	lb	141		\$ 846 00
CC113	Gypsum	lb			\$ 705 00
CC201	Bilsonite	lb	1000		\$ 670 00
CF400	Two Stage Cement Collar 4 1/2" Red	EA	1		\$ 4500 00
CF500	4 1/2" Latch Down Plug Assembly Red	EA	1		\$ 720 00
CF1250	Auto Fill Float 5" No. 4 1/2" Blue	EA	1		\$ 330 00
CF1650	Turbolizer 4 1/2" Blue	EA	7		\$ 595 00
CF1900	4 1/2" Basket Blue	EA	1		\$ 270 00

SUB TOTAL

DLS

CHEMICAL / ACID DATA:			

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

TOTAL

SERVICE REPRESENTATIVE: Allen F. Weath

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



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ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET

1718 ~~07077~~ A

Continuation of

DATE _____ TICKET NO. 070784

DATE OF JOB <u>12-9-12</u> DISTRICT <u>KANSAS</u>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:								
CUSTOMER <u>L.O. Drilling Inc.</u>		LEASE <u>Darrel # 2-31</u>		WELL NO.						
ADDRESS		COUNTY <u>Lane 31-14-29</u> STATE <u>KS</u>								
CITY STATE		SERVICE CREW <u>Allen, Mike, Dale, Steve</u>								
AUTHORIZED BY		JOB TYPE: <u>4 1/2" Lane String 2-Stage Casing</u>								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<u>28443 PU</u>							<u>12-8-12</u>			<u>830</u>
<u>19903-19903</u>						ARRIVED AT JOB	<u>12-9-12</u>			<u>600</u>
<u>70959-19918</u>						START OPERATION				
<u>19959-21010</u>						FINISH OPERATION				
<u>19907 PU</u>						RELEASED				
						MILES FROM STATION TO WELL	<u>100-mile</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: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
E100	unit mileage charge P.U.	Mi	100		<u>\$ 425.00</u>
E101	Heavy Equip. mileage	mi	200		<u>\$ 2100.00</u>
E113	Bulk Delivery Charge	TM	3225		<u>\$ 2602.98</u>
CF305	Depth Charge 4001-5000	4-hr	1		<u>\$ 2500.00</u>
CF240	Blending & mixing Service chg.	SK	200		<u>\$ 980.00</u>
CF504	Plus container Utilization chg	Job	1		<u>\$ 250.00</u>
S003	Service Supervisor first 8 hrs	EA	1		<u>\$ 125.00</u>
CF203	Depth Charge 2001-3000	4-hr	1		<u>\$ 1800.00</u>

SUB TOTAL ALC \$ 27,976.99

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE Allen L. Ward THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Rick Wilson
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

BASIC

energy services, L.P.

#1
Bottom Stage

TREATMENT REPORT

Customer L.W. Drilling Inc.	Lease No.	Date 12-9-12
Lease Darrey	Well # #2-31	
Field Order # 0707BA	Station Pratt KS	Casing 4 1/2"
Type Job 4 1/2" Long String 2-Stage CML	Depth 4418	County LANE
	Formation TD 4415 - LTD 4420	State KS
		Legal Description S1-14-29

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 4 1/2"	Tubing Size	Shots/Ft		Acid 30 SKS A-C	RATE 15.5 #	PRESS SCAVENGER	ISIP	
Depth 4418	Depth	From	To	Pre Pad 200 SKS COM	Max		5 Min.	
Volume 68	Volume	From	To	Pad 30 SKS A-C	Min		10 Min.	
Max Press 1500 #	Max Press	From	To	Frac 440 SKS A-C	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 4403	Packer Depth	From	To	Flush DISP H2O	Gas Volume		Total Load	

Customer Representative	Station Manager Scotty	Treater Allen
Service Units 78443 19903 19905 70959 19918 19959 21010 19907		
Driver Names Allen Mike Mathal Dale Phye Steve Young Kevin		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
600 AM					on Loc. Discuss Safety, Setup, Plan Job
700					Laying down 21" Pi. Pc out of Hole, Rig up to Run 4 1/2 csg. 11.6 #/ft "Float Shoe"
900					Start 4 1/2" csg. Shv. Joint 15' w/ Catch Down Baffle in collar cent-1-3-5-7-9-11-52
					Basket Bottom #53-DU TOP #53
1100					Casing @ 4418 c/c w/ Rig.
1125	300 #		15	5	St mix 30 SKS A-com SCAVENGER 13'
			48	5	St mix 200 SKS com. @ 15.5 #
					Finish mix, wash out Pump + Line
					4 1/2" Drop Plug 4 1/2" Start Disp
					Pump 40 BBL H2O + 28 @ B1 mud
	500 #				caught + Lift
1206	1500 #		68	4 1/2	Plug down
					Release PSI - OK
1205					Drop DV opening Part
1210	800 #				open DV
					Pump OFF mud - good air

Top Stage #2

Customer <i>L.D. Drilling INC</i>		Lease No.	Date <i>12-9-12</i>	
Lease <i>Parrel # 2-31</i>		Well # <i>2-31</i>	County <i>LANC</i>	
Field Order # <i>07076A</i>	Station <i>Pratt</i>	Casing /" <i>4 1/2</i>	Depth <i>2097</i>	State <i>KS</i>
Type Job <i>4 1/2 2-Stage</i>	Formation <i>CNW</i>	Legal Description <i>21-14-29</i>		

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>4 1/2</i>	Tubing Size	Shots/Ft		Acid <i>440 SKS A-CON</i>	RATE	PRESS	ISIP #	
Depth <i>2097</i>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <i>32 1/2</i>	Volume	From	To	Pad <i>Plug R.H. w/ 30 SKS</i>	Min		10 Min.	
Max Press <i>1500</i>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <i>PC</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <i>2097</i>	Packer Depth	From	To	Flush <i>DISP H2O</i>	Gas Volume		Total Load	

Customer Representative <i>RICK TP</i>	Station Manager <i>Scotty</i>	Treater <i>Allen</i>
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Service Units	<i>28443</i>	<i>19903</i>	<i>19905</i>	<i>70959</i>	<i>19918</i>	<i>19959</i>	<i>21010</i>	<i>19907</i>		
Driver Names	<i>Allen</i>	<i>Mike</i>	<i>Matth</i>	<i>Dale</i>	<i>Phye</i>	<i>Steve</i>	<i>Young</i>	<i>Kevin</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1210</i>	<i>209^F</i>		<i>194</i>	<i>6</i>	<i>Start mit 440 SKS ACON @ 12 #</i>
					<i>Finish mit</i>
					<i>wash out Pump + Line</i>
					<i>Drop Closing Plug</i>
				<i>5</i>	<i>Start DISP</i>
<i>115</i>	<i>1800</i>		<i>32 1/2</i>	<i>4 1/2</i>	<i>Plug down</i>
					<i>Release PSF OK</i>
					<i>Plug R.H. w/ 30 SKS A-CON</i>
					<i>wash up & RACK up Equip</i>
					<i>Job complete</i>
					 <i>Thanks Allen Mike</i>
					<i>Steve, Dale Kevin</i>
					 <i>CMT CIR TO PIT</i>

DIAMOND TESTING

General Information Report

General Information

Company Name	L.D. DRILLING, INC.	Representative	TIM VENTERS
Contact	L.D. DAVIS	Well Operator	L.D. DRILLING, INC.
Well Name	DARREL #2-31	Report Date	2012/12/03
Unique Well ID	DST #1, LEAV./TOR./LAN., 3663-3704	Prepared By	TIM VENTERS
Surface Location	SEC 31-14S-29W, GOVE CO. KS.	Qualified By	KIM SHOEMAKER
Field	LUNDGREN		
Well Type	Vertical		
Test Type	CONVENTIONAL		
Formation	DST #1, LEAV./TOR./LAN.. 3663-3704		
Well Fluid Type	01 Oil		
Start Test Date	2012/12/02	Start Test Time	17:39:00
Final Test Date	2012/12/03	Final Test Time	01:01:00

Test Recovery:

RECOVERED: 40' SOCM, 3% OIL, 97% MUD

TOOL SAMPLE: 21% OIL, 19% WATER, 60% MUD

CHLORIDES: 23,000 ppm

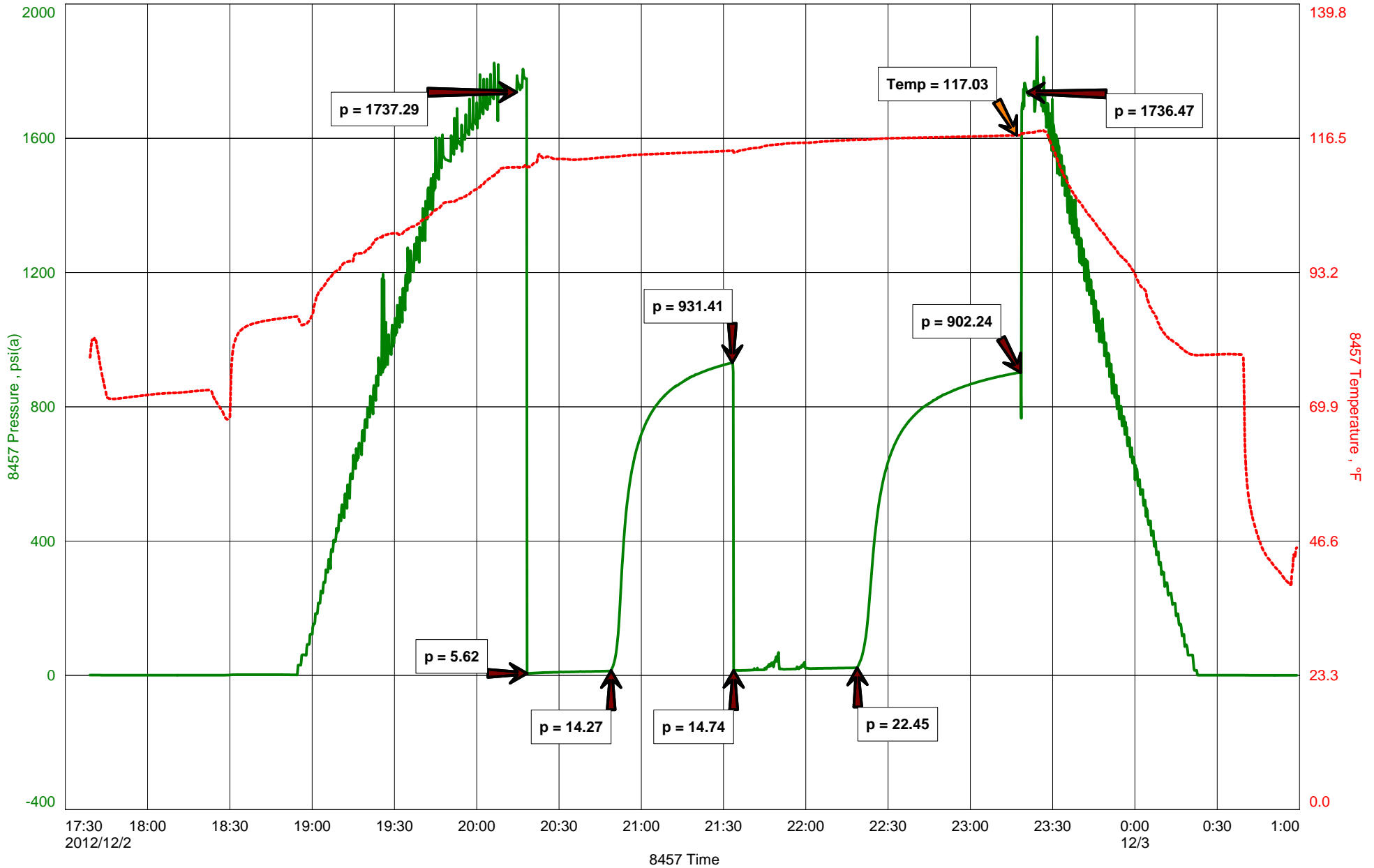
PH: 6.5

RW: .33 @ 87 deg

L.D. DRILLING, INC.
DST #1, LEAV./TOR./LAN., 3663-3704
Start Test Date: 2012/12/02
Final Test Date: 2012/12/03

DARREL #2-31
Formation: DST #1, LEAV./TOR./LAN., 3663-3704
Pool: LUNDGREN
Job Number: T129

DARREL #2-31





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

TIME ON: _____
TIME OFF: _____

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
Test Approved By _____ Diamond Representative _____

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
2nd Open: _____

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

Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) _____ P.S.I.

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DIAMOND TESTING

General Information Report

General Information

Company Name L.D. DRILLING, INC.
Contact L.D. DAVIS
Well Name DARREL #2-31
Unique Well ID DST #2, LANSING "B", 3720-3742
Surface Location SEC 31-14S-29W, GOVE CO. KS.
Field LUNDGREN
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #2, LANSING "B", 3720-3742
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator L.D. DRILLING, INC.
Report Date 2012/12/03
Prepared By TIM VENTERS
Qualified By KIM SHOEMAKER

Start Test Date 2012/12/03
Final Test Date 2012/12/03

Start Test Time 09:19:00
Final Test Time 17:52:00

Test Recovery:

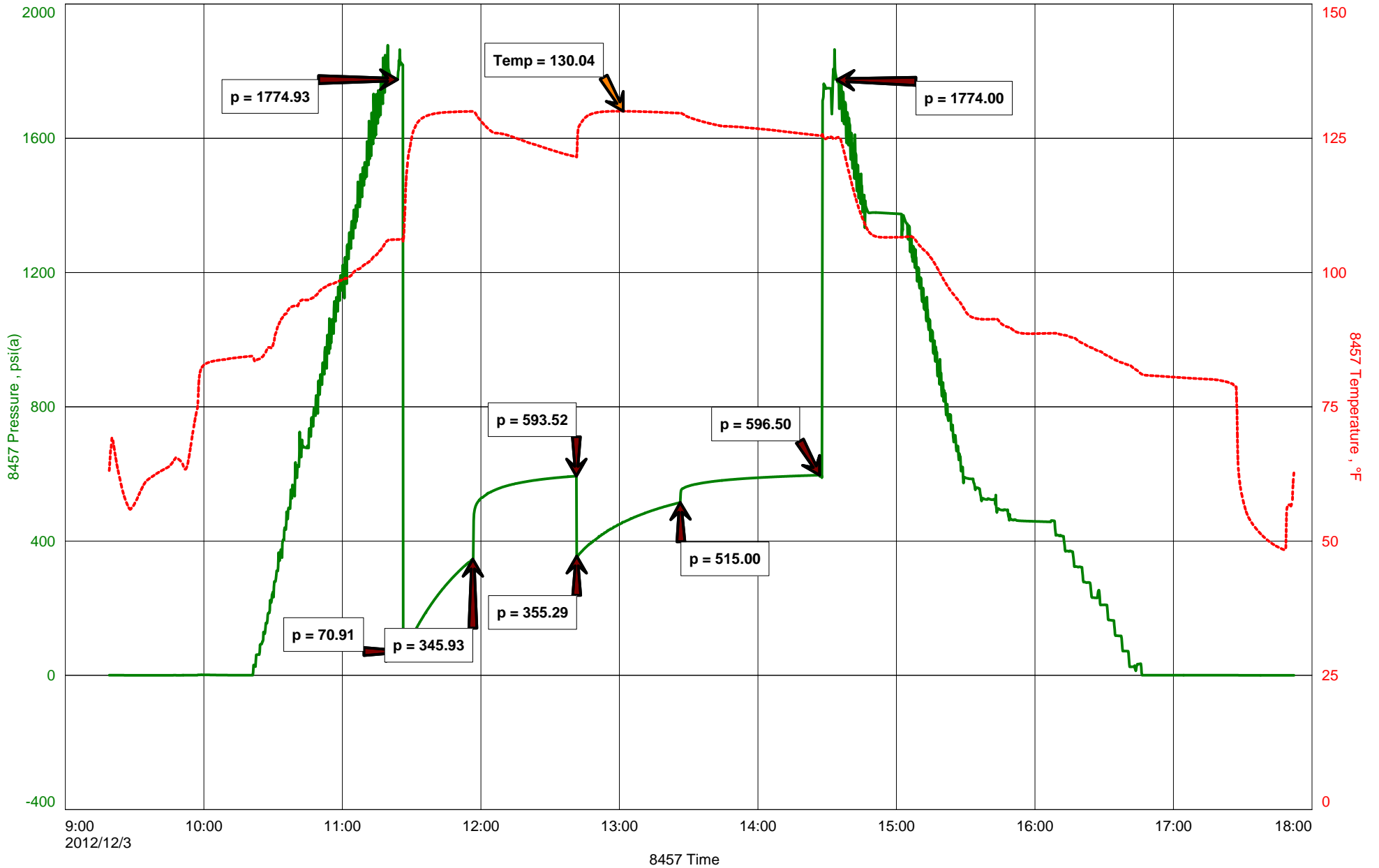
RECOVERED: 515' GAS IN PIPE

100' G,SMCO, 2% GAS, 96% OIL, 2% MUD, GRAVITY: 35
270' G,O&MCW, 7% GAS, 16% OIL, 58% WATER, 19% MUD
630' SO&MCW, 4% OIL, 91% WATER, 5% MUD
125' SO,WCM, 3% OIL, 37% WATER, 60% MUD
1125' TOTAL FLUID

TOOL SAMPLE: 5% OIL, 94% WATER, 1% MUD

CHLORIDES: 95,000 ppm
PH: 7.0
RW: .12 @ 73 deg.

DARREL #2-31





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

TIME ON: _____
TIME OFF: _____

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
Test Approved By _____ Diamond Representative _____

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
2nd Open: _____

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

Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) _____ P.S.I.

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DIAMOND TESTING

General Information Report

General Information

Company Name L.D. DRILLING, INC.
Contact L.D. DAVIS
Well Name DARREL #2-31
Unique Well ID DST #3, LANSING "D", 3740-3790
Surface Location SEC 31-14S-29W, GOVE CO. KS.
Field LUNDGREN
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #3, LANSING "D", 3740-3790
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator L.D. DRILLING, INC.
Report Date 2012/12/04
Prepared By TIM VENTERS
Qualified By KIM SHOEMAKER

Start Test Date 2012/12/04
Final Test Date 2012/12/04

Start Test Time 02:25:00
Final Test Time 09:27:00

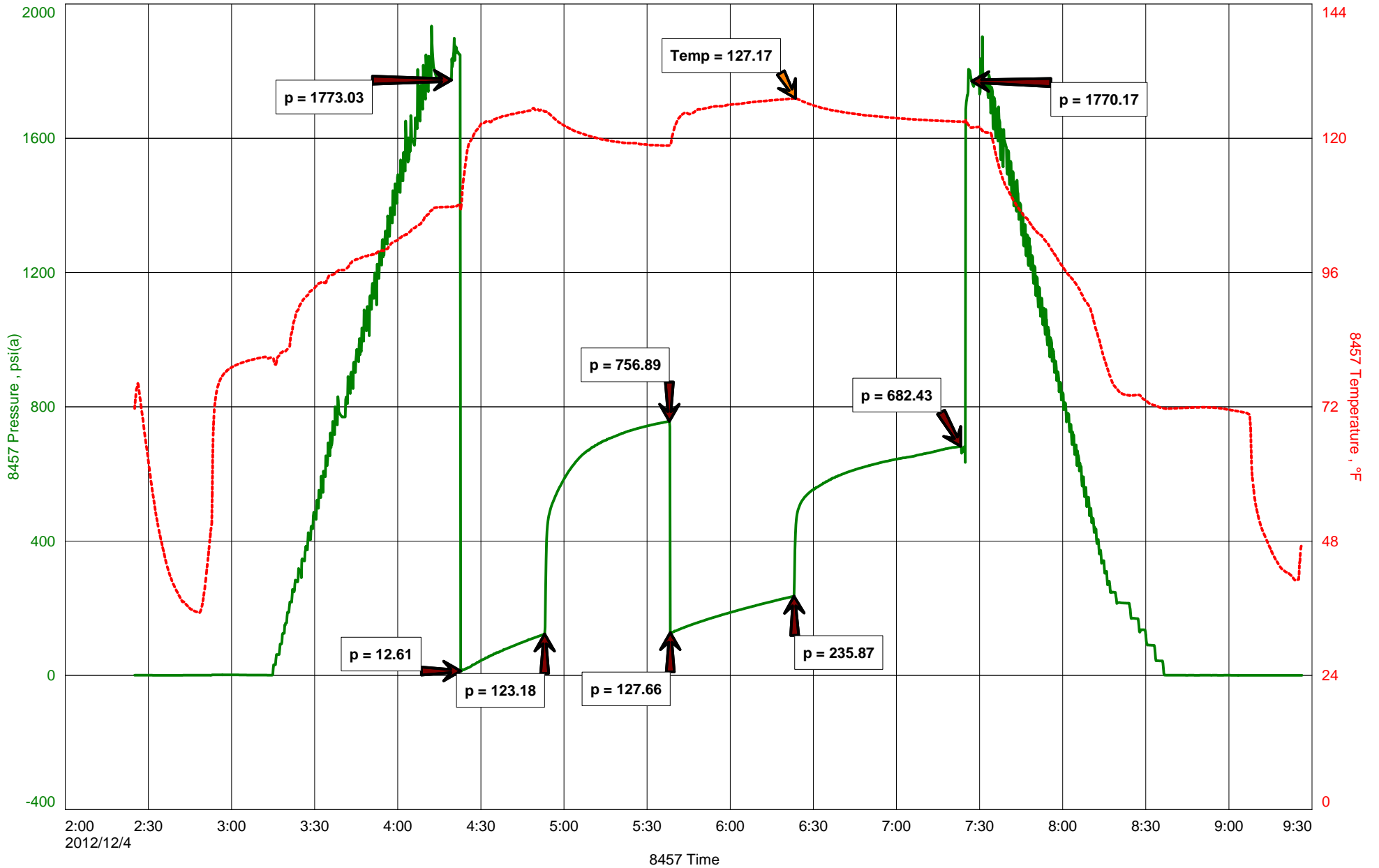
Test Recovery:

RECOVERED: 80' GAS IN PIPE
20' CLEAN OIL, GRAVITY: 35
470' SO,MW, 3% OIL, 68% WATER, 29% MUD
490' TOTAL FLUID

TOOL SAMPLE: TRACE OIL, 100% WATER

CHLORIDES: 88,000 ppm
PH: 7.0
RW: .13 @ 79 deg.

DARREL #2-31





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

TIME ON: _____
TIME OFF: _____

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
Test Approved By _____ Diamond Representative _____

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
2nd Open: _____

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

Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) _____ P.S.I.

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DIAMOND TESTING

General Information Report

General Information

Company Name L.D. DRILLING, INC.
Contact L.D. DAVIS
Well Name DARREL #2-31
Unique Well ID DST #4, LKC "H-I-J", 3857-3940
Surface Location SEC 31-14S-29W, GOVE CO. KS.
Field LUNDGREN
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #4, LKC "H-I-J", 3857-3940
Well Fluid Type 01 Oil

Start Test Date 2012/12/05
Final Test Date 2012/12/05

Representative TIM VENTERS
Well Operator L.D. DRILLING, INC.
Report Date 2012/12/05
Prepared By TIM VENTERS

Qualified By KIM SHOEMAKER

Start Test Time 01:21:00
Final Test Time 07:05:12

Test Recovery:

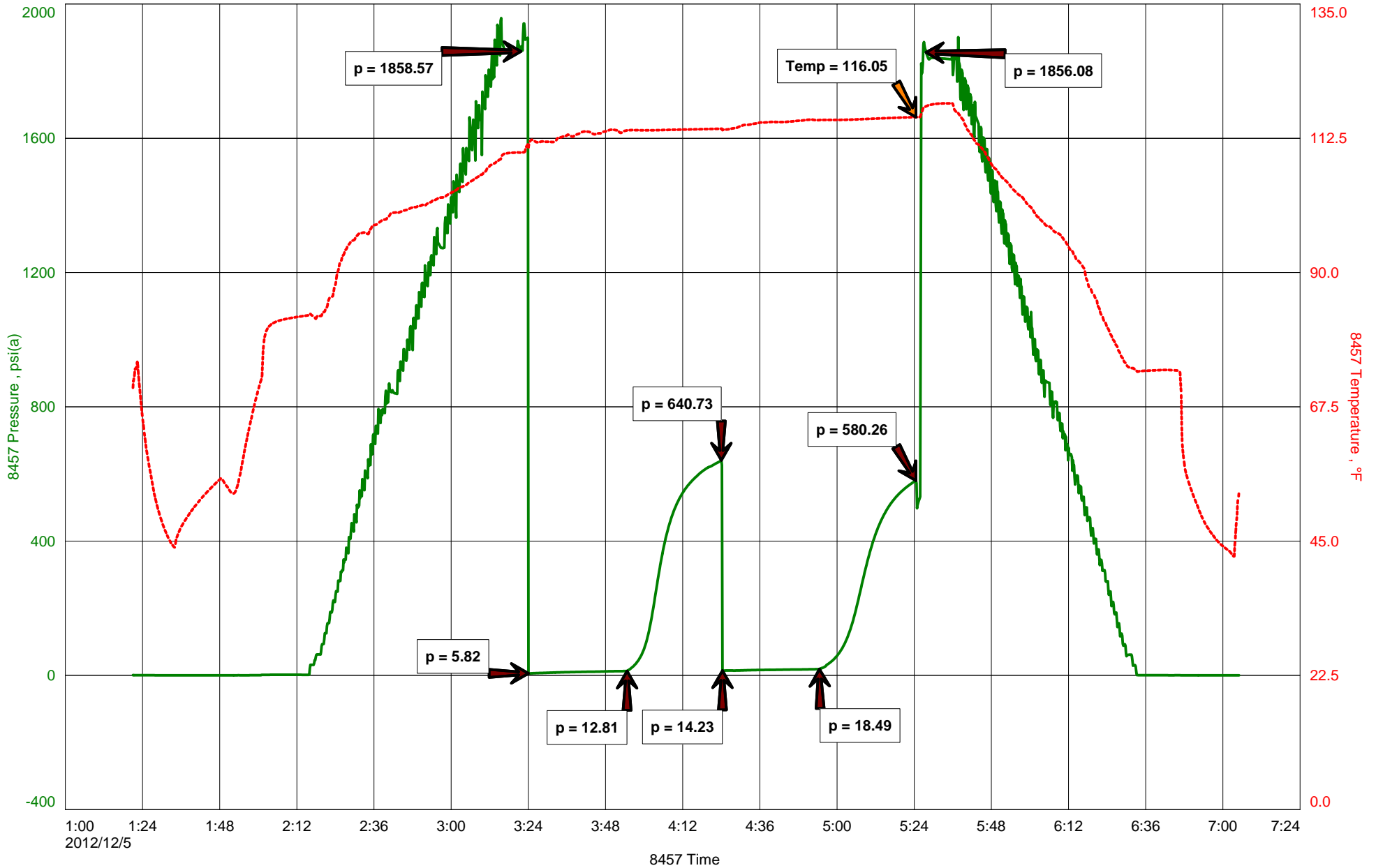
RECOVERED: 30' M WVSTR. O, VERY SLIGHT TRACE OIL, 100% MUD

TOOL SAMPLE: TRACE OIL, 100% MUD

L.D. DRILLING, INC.
DST #4, LKC "H-I-J", 3857-3940
Start Test Date: 2012/12/05
Final Test Date: 2012/12/05

DARREL #2-31
Formation: DST #4, LKC "H-I-J", 3857-3940
Pool: LUNDGREN
Job Number: T132

DARREL #2-31





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

TIME ON: _____
TIME OFF: _____

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
Test Approved By _____ Diamond Representative _____

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
2nd Open: _____

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

Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) _____ P.S.I.

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DIAMOND TESTING

General Information Report

General Information

Company Name L.D. DRILLING, INC.
Contact L.D. DAVIS
Well Name DARREL #2-31
Unique Well ID DST #5, MYR./FT. SCT., 4168-4230
Surface Location SEC 31-14S-29W, GOVE CO. KS.
Field LUNDGREN
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #5, MYR./FT. SC., 4168-4230
Well Fluid Type 01 Oil

Start Test Date 2012/12/06
Final Test Date 2012/12/06

Representative TIM VENTERS
Well Operator L.D. DRILLING, INC.
Report Date 2012/12/06
Prepared By TIM VENTERS

Qualified By KIM SHOEMAKER

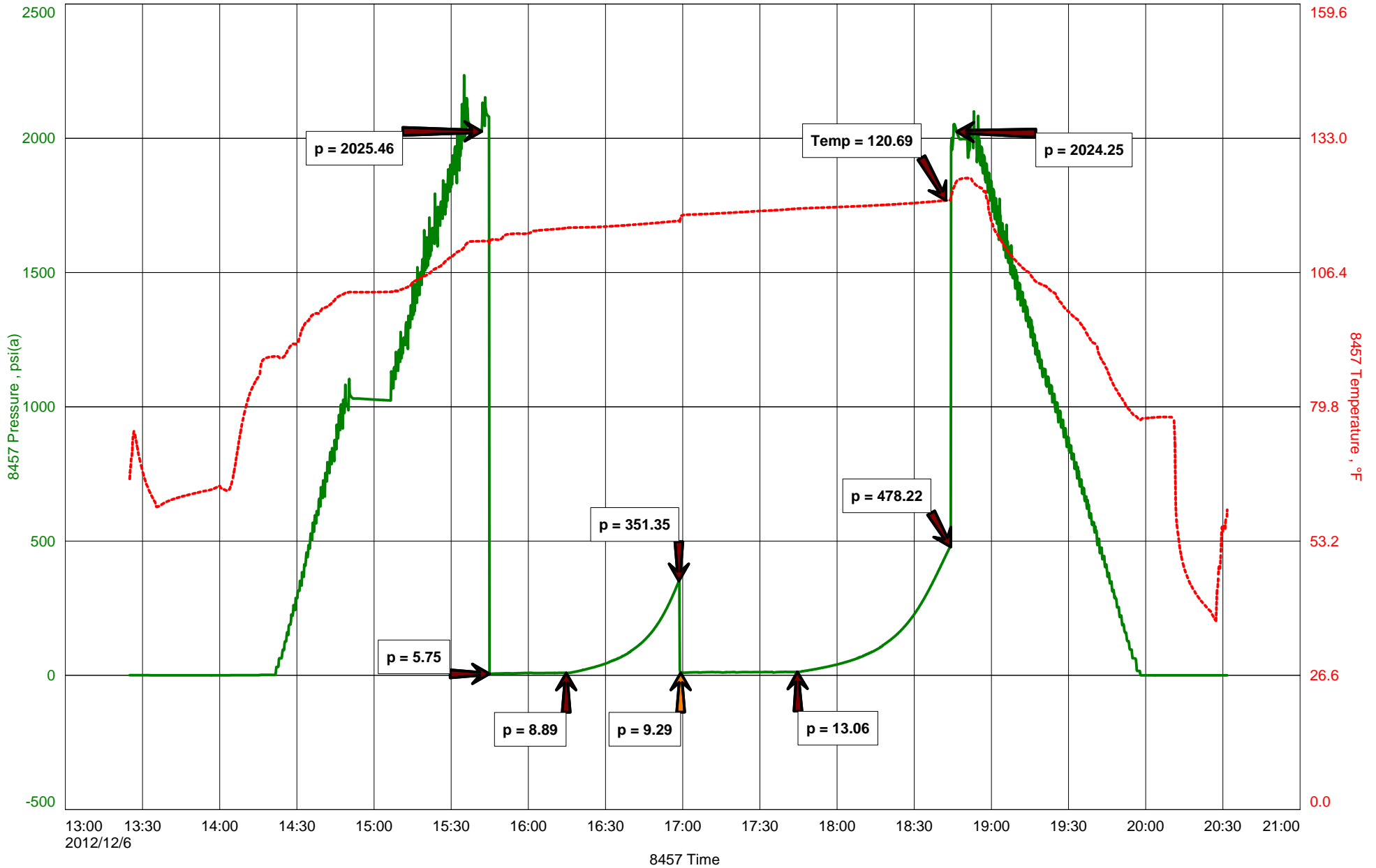
Start Test Time 13:25:00
Final Test Time 20:32:00

Test Recovery:

RECOVERED: 15' SOCM, 15% OIL, 85% MUD

TOOL SAMPLE: 48% OIL, 52% MUD

DARREL #2-31





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

TIME ON: _____
TIME OFF: _____

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
Test Approved By _____ Diamond Representative _____

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
2nd Open: _____

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

Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) _____ P.S.I.

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DIAMOND TESTING

General Information Report

General Information

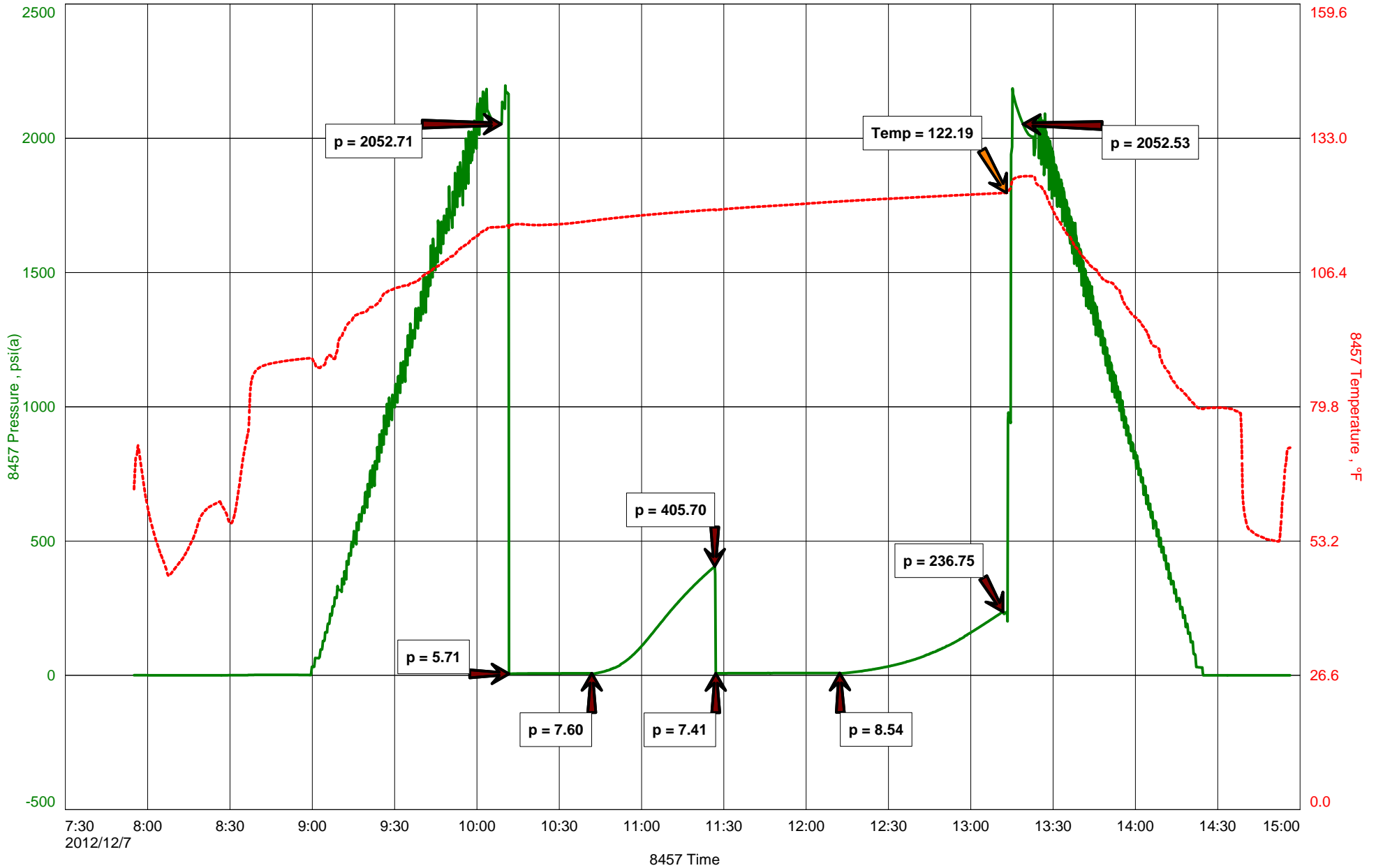
Company Name	L.D. DRILLING, INC.	Representative	TIM VENTERS
Contact	L.D. DAVIS	Well Operator	L.D. DRILLING, INC.
Well Name	DARREL #2-31	Report Date	2012/12/07
Unique Well ID	DST #6. CHER./JOHNSON, 4227-4295	Prepared By	TIM VENTERS
Surface Location	SEC 31-14S-29W, GOVE CO. KS.	Qualified By	KIM SHOEMAKER
Field	LUNDGREN		
Well Type	Vertical		
Test Type	CONVENTIONAL		
Formation	DST #6, CHER./JOHNSON, 4227-4295		
Well Fluid Type	01 Oil		
Start Test Date	2012/12/07	Start Test Time	07:55:00
Final Test Date	2012/12/07	Final Test Time	14:58:00

Test Recovery:

RECOVERED: 5' MUD

TOOL SAMPLE: SPOTTY OIL, 100% MUD

DARREL #2-31





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

TIME ON: _____
TIME OFF: _____

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
Test Approved By _____ Diamond Representative _____

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
2nd Open: _____

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

Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) _____ P.S.I.

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DIAMOND TESTING

General Information Report

General Information

Company Name	L.D. DRILLING, INC.	Representative	TIM VENTERS
Contact	L.D. DAVIS	Well Operator	L.D. DRILLING, INC.
Well Name	DARREL #2-31	Report Date	2012/12/08
Unique Well ID	DST #7, MISSISSIPPIAN, 4318-4343	Prepared By	TIM VENTERS
Surface Location	SEC 31-14S-29W, GOVE CO. KS.	Qualified By	KIM SHOEMAKER
Field	LUNDGREN		
Well Type	Vertical		
Test Type	CONVENTIONAL		
Formation	DST #7, MISSISSIPPIAN, 4318-4343		
Well Fluid Type	01 Oil		
Start Test Date	2012/12/07	Start Test Time	22:47:00
Final Test Date	2012/12/08	Final Test Time	07:06:00

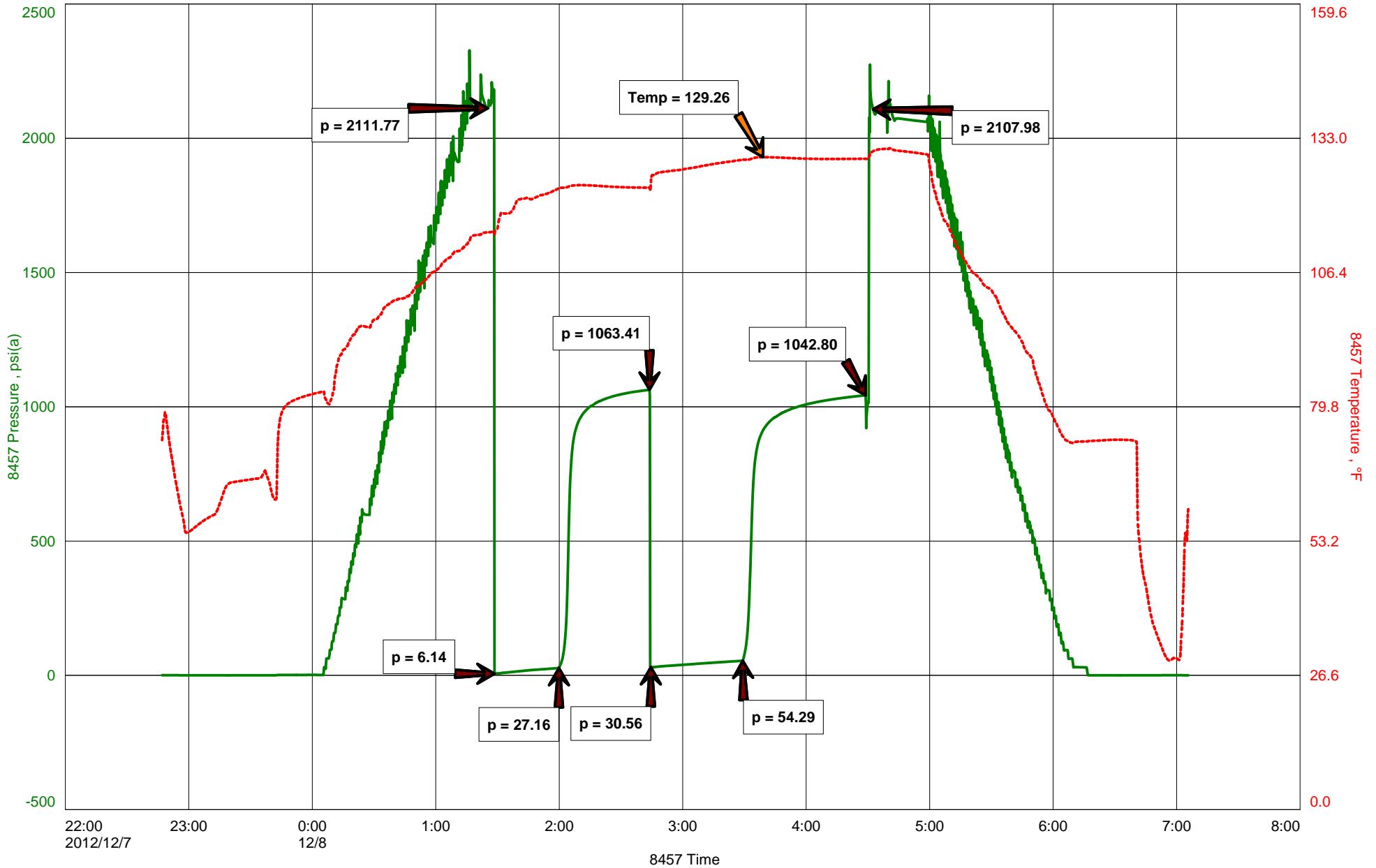
Test Recovery:

RECOVERED: 135' GAS IN PIPE
10' CLEAN OIL, GRAVITY: 36
65' G,O,SWCM, 7% GAS, 25% OIL, 6% WATER, 62% MUD
120' TOTAL FLUID

TOOL SAMPLE: 8% GAS, 38% OIL, 2% WATER, 52% MUD

CHLORIDES: 18,000 ppm
PH: 7.0
RW: .52 @ 66 DEG.

DARREL #2-31





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

TIME ON: _____
TIME OFF: _____

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
Test Approved By _____ Diamond Representative _____

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size **6 3/4** in. Packer depth _____ ft. Size **6 3/4** in.
Packer Depth _____ ft. Size **6 3/4** in. Packer depth _____ ft. Size **6 3/4** in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. **2 1/4** in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. **2 7/8** in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. **3 1/2** in.
Jars: Make **STERLING** Serial Number _____ Test Tool Length _____ ft. Tool Size **3 1/2-IF** in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size **4 1/2-FH** in.
Main Hole Size **7 7/8** Tool Joint Size **4 1/2** in. Surface Choke Size **1** in. Bottom Choke Size **5/8** in.

Blow: 1st Open: _____
2nd Open: _____

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

Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) _____ 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

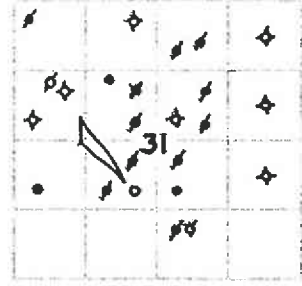
DRILLING TIME AND SAMPLE LOG

COMPANY L.D. DRILLING, INC.
 LEASE # 2-31 DARREL
 FIELD LUNDGREN
 LOCATION 1700' FSL $\frac{2}{3}$ 2310' FWL
 SEC. 31 TWP. 19s RGE. 29W
 COUNTY GOYE STATE KANSAS
 CONTRACTOR L.D. DRILLING, INC.
 SPUD 11-27-12 CGMP 12-9-12
 RTD 4415 LTD 4420
 MUD UP 3228 TYPE MUD CHEMICAL

ELEVATIONS
 KB 2660
 DF _____
 GL 2655
 Measurements Are All From 2660 KB
 CASING
 SURFACE 8 5/8" @ 302'
 PRODUCTION 4 1/2" @
 ELECTRICAL SURVEYS
 Dual IND. DENIS-N., MICRO

SAMPLES SAVED FROM 3300 TO 4415
 DRILLING TIME KEPT FROM 3200 TO 4415
 SAMPLES EXAMINED FROM 3300 TO 4415
 GEOLOGICAL SUPERVISION FROM 3400 TO 4415
 GEOLOGIST ON WELL KIM B. SHOEMAKER

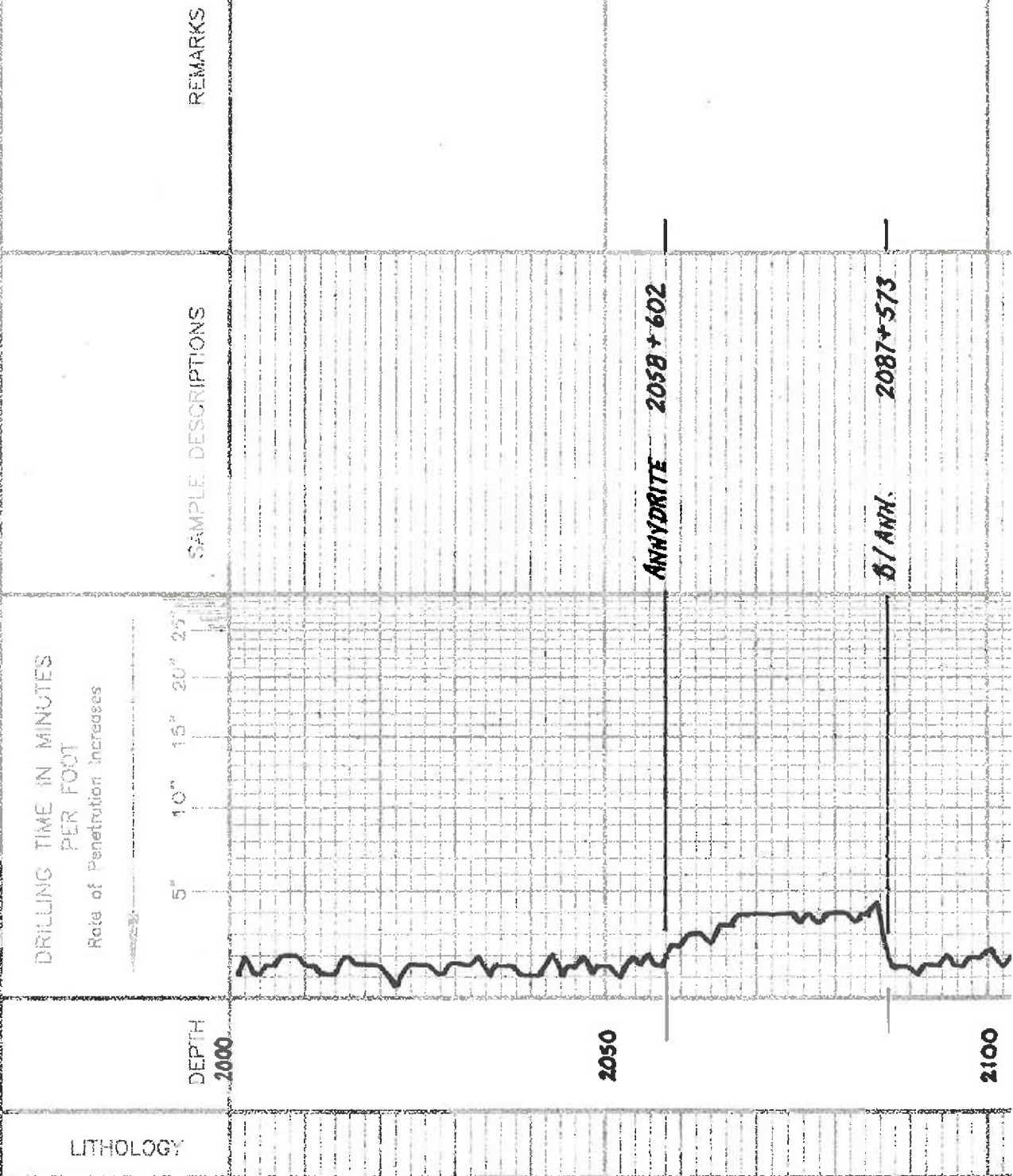
FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	2057 + 603	2058 + 602
B/ANH.	2085 + 575	2087 + 573
STOTLER	3292 - 632	3290 - 630
HEEBNER	3664 - 1004	3661 - 1004
LANSING	3700 - 1040	3700 - 1040
STARK	3950 - 1290	3948 - 1288
MARMATON	4050 - 1390	4045 - 1385
FORT SCOTT	4205 - 1545	4202 - 1542
CHEROKEE	4231 - 1571	4228 - 1568
MISS. SPERGEN	4324 - 1664	4320 - 1660



REMARKS
 API: IS-063-21981
 11-27-12 SPUD
 11-28 @ 305'
 11-29 @ 1800'
 11-30 @ 2640'
 12-1 @ 3150'
 12-2 @ 3704'
 12-3 @ 3742'
 12-4 @ 3790'
 12-5 @ 3940'
 12-6 @ 4208'
 12-7 @ 4295'
 12-8 @ 4343'

LEGEND

- Anhydrite
- Salt
- Sandstone
- Shale
- Barite
- Limestone
- Coal/Lime
- Chert
- Dolomite



2100

3200

3300

3400

Displaced @ 3228

Samples are Lagged

Sh. 1446

WAB, STOTLER 3290-630

15. To 18. VSI: Foss.

15. To 18. ool.

Sh. 1461 Gilly

16. To 17. VSI: Foss.

15. Gy. Dns.

Sh. Gy. 1464

15. To 18. VSI: Foss. Sh. dilly

Sh. 1464

15. To 18. VSI: Foss

Sh. Gy.

15. To 18. VSI: Foss. Sh. dilly

Sh. Gy.

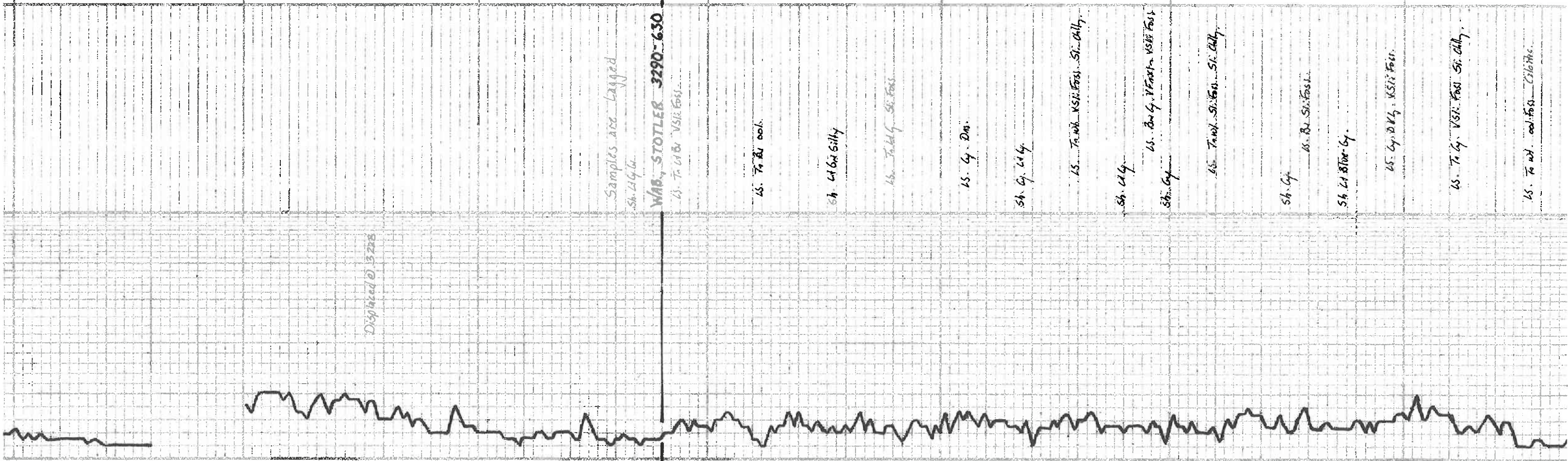
15. To 18. VSI: Foss.

Sh. 1480W Gy.

15. Gy. 1464. VSI: Foss.

15. To 18. VSI: Foss. Sh. dilly

15. To 18. VSI: Foss. Sh. dilly



3500

3600

3700

3800

Sh. Lt. Clay. Silty.

LS. F. Foss. SPA

LS. wt. Foss. 100. YSB due.

LS. Foss. Silty. Y. Foss.

LS. wt. Foss. 100. Silty Clay.

Sh. Clay.

LS. Foss. Lt. Clay. V. Foss. Silty. USA - Silty.

Sh. Clay.

LS. wt. V. Clay. Lt. wt. dot.

LS. wt. Clay. Foss. 100. SEA

LS. wt. Y. Clay.

LS. Foss. Silty. Foss. Silty.

LS. wt. Y. Silty. Silty. Silty. Clay.

LS. wt. Silty. Foss. 100. wt. Foss. Silty.

HEBNER 3664-1004

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

Sh. Lt. Blue-Grey Silt.

TORONTO 3682-1022

LS. wt. Foss. Silty. Foss. Silty. Foss. Silty. Silty. Foss. Silty.

LS. wt. Clay.

LANSING 3700-1040

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

LS. F. SEA

Sh. Dark Blue

Sh. Lt. Grey

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

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

LS. wt. Clay.

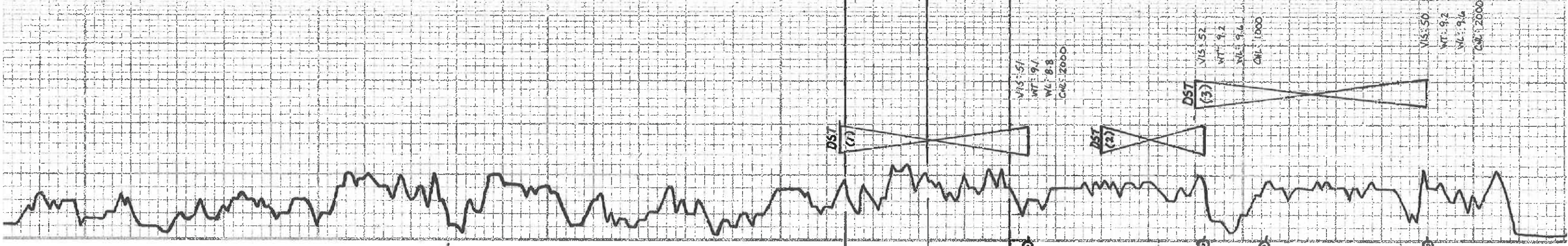
LS. F. YSB Foss. SEA

Sh. Dark Blue

Dur. Tan Clay. Foss. Silty. Foss. Silty. Foss. Silty.

LS. wt. Clay. Lt. F. SEA

LS. F. Lt. Blue. Foss. Silty. Foss. Silty. Foss. Silty.



DST (1)

DST (2)

DST (3)

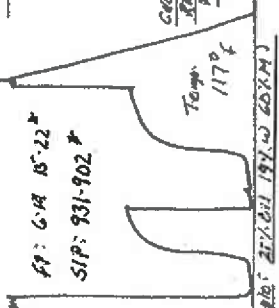
VIS: 52
WT: 9.2
VIS: 9.6
GWL: 1000

VIS: 50
WT: 9.2
VIS: 9.6
GWL: 1000

DST (1) 3663-3704

15' core: Blow count to 2 1/2"
2' core: " " " 2 1/2"

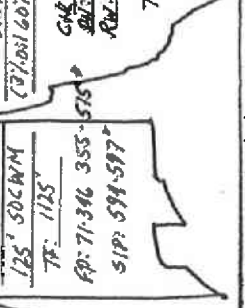
Rec. 40' 5" 90° (31.00 97.11)



DST (2) 3720-3742

15' core: Bottom bucket 9 min. 88:9"
2' core: " " " " " 88:5"

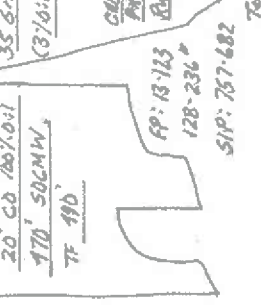
Rec. 515' 61P 100° 5460 882.80



DST (3) 3740-3780

15' core: Bottom bucket 10 min. 88:14"
2' core: " " " " " 88:5"

Rec. 80' 6.1P 20' 1007.041



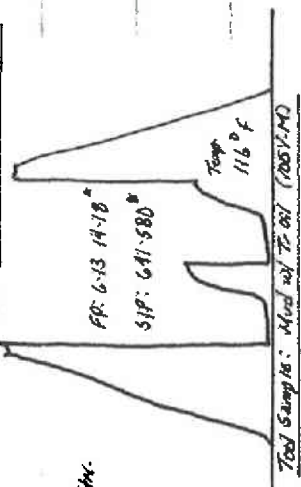
Dur. Sample: water w/ 7D 5th

DST (A) 3857-3940

1st Run: Blow 4011 to 2"
2nd Run: " " 1/2"

30 30 30 30 30

Rec. 30' Mud w/ few oil spots



Tool Sample: Mud w/ TO 287 (2857) MD

LS. Silty Chalk

LS. G. Dun. VSI Chalk

LS. G. Dun.

MUNCIE CREEK 3960-1200

LS. Tm. 1/4. R. V. Silty. Foss. Silty. Caliche.

Sh. LG. Gm.

LS. w/ VSI. Dark. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk.

LS. Tm. 1/4. G. VSI

Sh. DK. G.

LS. R. 1/4. R. V. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk.

Sh. LG. Gm.

LS. w/ VSI. Dark. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk.

LS. w/ VSI. Dark. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk.

Sh. LG. Gm.

LS. Tm. 1/4. G. VSI. Dark. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk.

Sh. LG. Gm.

STARK 3948-1288

LS. Tm. 1/4. G. VSI. Dark. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk.

Sh. LG. Gm.

LS. Tm. 1/4. R. V. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk.

LS. w/ VSI. Dark. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk.

LS. Tm. 1/4. G. VSI

HUSHPUCKNEY 3986-1326

Sh. LG. Gm.

LS. Tm. 1/4. G. VSI. Dark. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk.

Sh. LG. Gm.

LS. LG. w/ VSI. Dark. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk.

LS. LG. Gm.

LS. w/ VSI. Dark. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk.

Sh. LG. Gm.

LS. Tm. 1/4. G. VSI

Sh. R. 1/4. R. V. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk.

MARMATON 4045-1385

LS. Tm. 1/4. G. VSI

Sh. LG. Gm.

Sh. R. 1/4. R. V. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk.

LS. w/ VSI. Dark. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk.

Sh. LG. Gm.

LS. w/ VSI. Dark. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk.

Sh. R. 1/4. R. V. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk.

LS. G. Dun.

LS. Tm. 1/4. R. V. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk. V. Red. Silty. Chalk.

Sh. DK. G.

PAWNEE 4192-1482

Sh. LG. Gm.

DST (5) 416B-4230

1ST OPEN: Blow built to 1 1/2"

2ND OPEN: "

30 45 45 60

Rec. 15' DCM (15% Oil, 85% M)

APR: 6.9 9.13

SIP: 351-978

Temp: 122°F

Tool Sample: 48% Oil, 52% Mud

SH. BLK Carb.

AS. Dry, cool. 45. Total Sol. Fract. 51/2

MS: 58

WT: 94

ML: 80

CALL: 2088

4.100 10.0

As. wt. 106 lbs. 5.5% SA. 5.5% G. 10.0%

As. Dry, cool. 45.

SH. BLK Carb.

AS. Dry, cool. 45. Total Sol. Fract. 51/2

MS: 58

WT: 94

ML: 80

CALL: 2088

MS: 58

WT: 94

ML: 80

CALL: 2088

MS: 58

WT: 94

ML: 80

CALL: 2088

MS: 58

WT: 94

ML: 80

CALL: 2088

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CALL: 2088

MS: 58

WT: 94

ML: 80

CALL: 2088

MS: 58

WT: 94

ML: 80

CALL: 2088

MS: 58

WT: 94

ML: 80

CALL: 2088

DST (6) 4227-4295

1ST OPEN: Blow built to 1"

2ND OPEN: Surface Blow

30 45 45 60

Rec. 5" Mud w/ few oil spikes

APR: 68 79

SIP: 406-287

Temp: 122°F

Tool Sample: 60% M w/ spots oil

SH. BLK Carb.

AS. Dry, cool. 45. Total Sol. Fract. 51/2

MS: 58

WT: 94

ML: 80

CALL: 2088

DST (7) 4318-4343

1ST OPEN: Blow built to 7 1/2"

2ND OPEN: Bottom bubble 37 min

30 45 45 60

Rec. 135' 6.1.R.

18' CD 100' Oil 36 6.1.R.

45' VMOCM (48% Oil 67% M)

65' HOGCM w/ 7' oil

TF: 120'

APR: 6.27

SIP: 52 @ 122°F

PH: 7.0

Temp: 130°F

Tool Sample: 87% 6. 38% Oil, 27% oil, 32% M

SH. BLK Carb.

AS. Dry, cool. 45. Total Sol. Fract. 51/2

MS: 58

WT: 94

ML: 80

CALL: 2088

DST (8) 4415-4755

1ST OPEN: Blow built to 1 1/2"

2ND OPEN: "

30 45 45 60

Rec. 15' DCM (15% Oil, 85% M)

APR: 6.9 9.13

SIP: 351-978

Temp: 122°F

Tool Sample: 48% Oil, 52% Mud

SH. BLK Carb.

AS. Dry, cool. 45. Total Sol. Fract. 51/2

MS: 58

WT: 94

ML: 80

CALL: 2088

MS: 58

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ML: 80

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CALL: 2088

MS: 58

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WT: 94

ML: 80

CALL: 2088

MS: 58

WT: 94

ML: 80

CALL: 2088

MS: 58

WT: 94

ML: 80

CALL: 2088