



**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: \_\_\_\_\_



1084574

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	MEYER 1-20
Doc ID	1084574

Tops

Name	Top	Datum
ANHYDRITE	2162	+611
BASE ANHYDRITE	2191	+582
WAB, STOTLER	3553	-780
HEEBNER	3942	-1169
LANSING	3979	-1206
STARK	4235	-1462
MARMATON	4344	-1571
FORT SCOTT	4487	-1714
CHEROKEE	4509	-1736
MISSISSIPPI, ST. LOUIS	4576	-1803

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	MEYER 1-20
Doc ID	1084574

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Tyep and Percent Additives
SURFACE	12.25	8.625	24	419	A SERV LITE	125	
SURFACE CONT	12.25	8.625	24	419	COMMON	125	3%CC, 2%Gel
PRODUC TION BOTTOM STAGE	7.875	4.5	10.5	4695	COMMON	175	2%Gel, .3%FR, 1/4#CF
PRODUC TION TOP STAGE	7.875	4.5	10.5	4695	A-CON BLEND	500	3% CC



Customer <b>L.D. Drilling</b>	Lease No.	Date <b>4-16-12</b>
Lease <b>Meyer</b>	Well # <b>1-20</b>	
Field Order # <b>6128</b>	Station <b>Pratt</b>	Casing <b>8 5/8</b>
		Depth <b>417</b>
Type Job <b>CNW 8 5/8 Surface</b>	Formation	Legal Description <b>20.17-2</b>
		County <b>Lane</b> State <b>KC</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<b>2 3/4</b>				<b>1255</b>	<b>1.644-12</b>			
Depth <b>417</b>	Depth	From	To <b>1255</b>	Pre Pad	Max <b>1.20</b>		5 Min.	
Volume <b>26.6</b>	Volume	From	To	Pad	Min		10 Min.	
Max Press <b>1000</b>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <b>417</b>	Packer Depth	From	To	Flush <b>25.7</b>	Gas Volume		Total Load	

Customer Representative <b>Rich Walter</b>	Station Manager <b>Dave Scott</b>	Treater <b>Steve Orlando</b>
Service Units <b>27273 27463 19820 19860</b>		
Driver Names <b>Alvin Mitchell McBrown</b>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<b>5:00 PM</b>					On location - Safety Meeting
					Run 1255 8 5/8 Surface
					Casing on Bottom
					Break Circ with Rin
<b>8:00</b>	<b>250</b>		<b>36.5</b>	<b>5</b>	Mix 1255s Acid @ 13.36
<b>8:08</b>	<b>0</b>		<b>26.7</b>	<b>5</b>	Mix 1255s Cement @ 15.6
<b>8:04</b>	<b>0</b>		<b>0</b>	<b>5</b>	Release plug Start H2O Displacement
<b>8:27</b>	<b>350</b>		<b>13</b>	<b>5</b>	Cement to Surface
<b>8:30 PM</b>	<b>400</b>		<b>25.7</b>	<b>4</b>	plug Down
					Circulation thru Tub
					Circulation 11 bbl Top +
					Job Complete
					Thanks, Steve



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

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

FIELD SERVICE TICKET  
1718 06120 A

20-1TS-28W

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

DATE OF JOB 4-27-12		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 Meyer		WELL NO. 1-20			
ADDRESS				COUNTY Lane		STATE Kansas			
CITY		STATE		SERVICE CREW K. Gordley, C. Messick, F. Wright, D. Pyle					
AUTHORIZED BY				JOB TYPE: C.N.W. - Longstring		S. Young			
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	TIME	
19,907	2.5	33,708-20,920	2.5				4-27-12	PM 11:30	
						ARRIVED AT JOB		AM 3:30	
37,216	2.5	19,960-19,918	2.5			START OPERATION		AM 8:30	
						FINISH OPERATION		AM 11:00	
		19,832-21,000	2.5			RELEASED	4-27-12	AM 11:15	
						MILES FROM STATION TO WELL			100

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
P CP 100C	Common Cement	Sfr	175	\$	2,800 00
P CP 101	A-Con Blend cement	Sfr	450	\$	8,100 00
P CP 101	A-Con Blend Cement	Sfr	50	\$	900 00
P CC 102	Cellflake	Lb	169	\$	625 30
P CC 109	Calcium Chloride	Lb	1410	\$	1,480 50
P CC 112	Cement Friction Reducer	Lb	50	\$	300 00
P CC 113	Gypsum	Lb	825	\$	618 75
P CC 129	FLA-322	Lb	50	\$	375 00
P CC 200	Cement Gel	Lb	330	\$	82 50
P CF 400	Weatherford Two Stage Cement Collar, 4 1/2"	ea	1	\$	4,500 00
P CF 600	Latch Down Plug and Baffle, 4 1/2"	ea	1	\$	720 00
P CF 1250	AutoFill Float Shoe, 4 1/2"	ea	1	\$	330 00
P CF 1650	Turbolizer, 4 1/2"	ea	7	\$	595 00
P CF 1900	Basket, 4 1/2"	ea	1	\$	270 00
P CC 151	Mud Flush	Gal	4,000	\$	860 00

SUB TOTAL

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE Lawrence R. M. ... THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: R. Wheeler

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



**BASIC**<sup>SM</sup>  
ENERGY SERVICES

PRESSURE PUMPING & WIRELINE

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

**FIELD SERVICE TICKET**

1718 ~~06121~~ A  
Continuation

20-175-28W

DATE TICKET NO. 6,120

DATE OF JOB 4-27-12		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 Meyer				WELL NO. 1-20	
ADDRESS				COUNTY Lane		STATE Kansas			
CITY		STATE		SERVICE CREW Gordley: Messick: Wright: Phye: Young					
AUTHORIZED BY				JOB TYPE: C.N.W. - Longstring					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM PM	TIME
						ARRIVED AT JOB		AM PM	
						START OPERATION		AM PM	
						FINISH OPERATION		AM PM	
						RELEASED		AM PM	
						MILES FROM STATION TO WELL			

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

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SIGNED: \_\_\_\_\_  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
P E 100	Pickup Mileage	mi	100	\$	425 00
P E 101	Heavy Equipment Mileage	mi	300	\$	2,100 00
P E 113	Bulk Delivery	tm	3,175	\$	5,080 00
P CE 205	Cement Pump: 4,001 Feet To 5,000 Feet	hrs	4	\$	2,520 00
P CE 240	Blending and Mixing Service	sh	675	\$	945 00
P CE 504	Plug Container	Job	1	\$	250 00
P 5003	Service Supervisor	hrs	8	\$	175 00
P CE 203	Cement Pump: 2,001 Feet To 3,000 Feet	hrs	4	\$	1,800 00

CHEMICAL / ACID DATA:			

SUB TOTAL		\$28,323 12
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE James R. Messick THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: R. Wheeler  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.





Page # 1 of 2

**TREATMENT REPORT**

Customer L. D. Drilling, Incorporated	Lease No. Lease Meyer	Date 4-27-12
Field Order # 6120	Station Pratt, Kansas	Well # 1-20
Type Job C.N.W. - Two Stage Long String	Casing 1 1/2	Depth 10.5 Lb. 4,699 Ft.
	County Lane	State Kansas
	Formation	Local Description 20-175-28W

PIPE DATA		PERFORATING DATA		CEMENT USED		TREATMENT RESUME		
Casing Size 4 1/2 10.5 Lb./Ft.	Tubing Size 6.75	Shots/Ft	175 sacks	Commencement with 28 Gal. 38F LA-322	RATE	PRESS	ISIP	
Depth 4,699 Ft.	Depth	From	38	Fri Friction Reducer, 58 Cal Set, 25 Lb./Sht. Cell Plate	Max		5 Min.	
Volume 74.7 Bbl.	Volume	From		To 15 Lb./Gal., 6.30 Gal./Sht., 1.37 C.U. T./Sht.	Min		10 Min.	
Max Press 2,000 P.S.I.	Max Press	From		To 450 sacks A-con for Top Stage	Avg		15 Min.	
Well Connection 4 1/2 casing collar	Annulus Vol.	From	50 sacks A-con to Plug Ret (30 sacks) and Mouse (20 sacks)	HHP Used			Annulus Pressure	
Plug Depth 4,685 Feet	Packer Depth	From		To Flush 74.5 Bbl. Fresh Water	Gas Volume		Total Load	

Customer Representative Rich Wheeler	Station Manager David Scott	Treater Clarence R. Messick
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Service Units	19,907	37,216	33,708	20,920	19,960	19,918	19,832	21,010
Driver Names	Gordley	Messick	Wright	Phye	Young			

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
3:30					Trucks on location and hold safety meeting.
3:40					Dutre Drilling start to run Auto-Fill Float Shoe. Shoe Joint with Latch Down Baffle screwed into collar and a total of 121 Joints 10.5 Lb./Ft. 4 1/2" casing. A Turbolizer was installed on collars #1, 3, 5, 7, 9, 11 and #58. A Basket was installed on bottom of Joint #59. A Weatherford D.V. Tool was installed on top of Joint #59 or 2,190 Feet down from surface.
7:15					Casing in well. Circulate for 1 Hour.
8:28		2,800			Shut in well. Pressure Test. Open Well.
8:30	200			6	Start Fresh Water Pre-Flush.
			20	6	Start Mud Flush.
			44	6	Start Freshwater Spacer.
			64	5	Start Mixing 175 sacks commencement.
	-0-		106		Stop pumping. Wash pump and lines.
					Insert Latch Down Plug into casing.
	100			6	Start Fresh Water Displacement.
			40	5	Start Drilling mud Displacement.
9:15	800		74.5		Plug down.
	2000				Pressure up.
					Release pressure. Float Shoe held.
9:17					Release opening Device for D.V. Tool.
9:28	800				Open D.V. Tool

**TREATMENT REPORT**

Customer L.D. Drilling, Incorporated	Lease No. Meyer	Date 4-27-12
Lease 6-120	Well # 1-20	
Field Order # 6-120	Station Pratt, Kansas	County Lane
Type Job C.N.W. - Two Stage Long String (Top Stage)	Casing 7 1/2 10.5 lb	Depth 2190 ft
	Formation 20-175-28W	State Kansas

PIPE DATA		PERFORATING DATA		USED	TREATMENT RESUME		
Casing Size 4 1/2 10.5 lb/ft	Tubing Size 4 1/2 10.5 lb/ft	Shots/Ft		<del>400</del>	RATE	PRESS	ISIP
Depth 2190 Feet	Depth	From	To	<del>400</del>	Max		5 Min.
Volume 34.8 Bbl.	Volume	From	To	<del>400</del>	Min		10 Min.
Max Press	Max Press	From	To	<del>400</del>	Avg		15 Min.
Well Connection Plug Container	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 2190 Feet	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative	Station Manager	Treater
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Service Units									
Driver Names									

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
9:38	300			6	Start mixing 450 sacks A-con Blend cement
	-0-		198		Stoppumping. Shut in well. Wash pump & lines
					Release Closing plug. Open Well.
10:18	400			5	Start Fresh Water Displacement.
10:26	800		34.8		Plug down.
	1,000				Pressure up and Close D.V. Tool.
			7-8	3	Plug Rat and Mouse holes.
					Wash up pump truck.
11:15					Job Complete
					Thank You.
					Kevin, Clarence, Eric, Dale, Steve
					CIRCULATE 15 bbl. CEMENT TO PET. ON TOP STAGE.



**BASIC**  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET

1718 06329 A

20-175-28W

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

DATE OF JOB: 5-17-12		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: Meyer				WELL NO.: 1-20			
ADDRESS:				COUNTY: Lane				STATE: Kansas			
CITY:				STATE:				SERVICE CREW: C. Messick, M. Mattal, S. Young			
AUTHORIZED BY:				JOB TYPE: C.N.W. - <del>ben</del> Squeeze Perforations							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	CAMP	TIME		
37216	4						5-17-12	AM	8:00		
						ARRIVED AT JOB		AM	1:15		
19903-19905	4					START OPERATION		AM	1:45		
						FINISH OPERATION		AM	5:45		
19959-21010	4					RELEASED	5-17-12	AM	6:15		
						MILES FROM STATION TO WELL	100				

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

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SIGNED: \_\_\_\_\_  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
P CP 100C	Common Cement	sk	200		\$ 3,200.00
P P 700	Sacked Sand	cwt	1		\$ 31.00
P E 100	Pickup Mileage	mi	100		\$ 425.00
P E 101	Heavy Equipment Mileage	mi	200		\$ 1,400.00
P E 113	Bulk Delivery	tm	940		\$ 1,564.00
P CF 205	Cement Pump: 400 Feet To 5,000 Feet	hrs	4		\$ 2,520.00
P CE 240	Blending and Mixing Service	sk	200		\$ 280.00
P 5003	Service Supervisor	hrs	8		\$ 175.00

SUB TOTAL  
DLS \$ 7818.00

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: James R. Messick THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer L.D. Drilling, Inc.	Lease No.	Date 5-17-12
Lease Meyer	Well # 1-20	
Field Order # P-329	Station Pratt, Kansas	Casing 10.5"
	Depth 4,685'	County Lane
Type Job C.N.W. - Squeeze Perforations	Formation	State Kansas
		Legal Description 20-1-25-28W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 10.5"	Tubing Size 2 7/8"	Shots/Ft		ADD 200 sacks Common Cement (Neat)	RATE	PRESS	ISIP	
Depth 4,685'	Depth 4,132'	From 4,212'	To 4,216'	Pre-Pad 15.6 Lb/Gal	Max 5.22 Gal/stk		5 Min.	
Volume 74.5 Bbl.	Volume 16 Bbl.	From	To	Rad	Min		10 Min.	
Max Press 2,000 psi	Max Press	From	To	Flap	Avg		15 Min.	
Well Connection 8 7/8"	Annulus Vol. 43.4 Bbl.	From	To		HHP Used		Annulus Pressure	
Plug Depth 4,347'	Packer Depth 4,132'	From	To	Flush 17.3 Bbl. Fresh Water	Gas Volume		Total Load	

Customer Representative L.D. Davis	Station Manager David Scott	Treater Clarence R. Messick
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Service Units	37,216	19,903	19,905	19,959	21,010				
Driver Names	Messick	Mattal	Young						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1:15					Trucks on location and hold safety meeting.
					R.B.P. set at 4,334 Feet. Packer set at 4,300 Feet.
1:44		100		3	Start to fill tubing.
		2,000	7		Tubing full. Pressure up. It all held. Release pressure. Swab fluid out of tubing.
2:25		100		1	Start to spot 100 lbs sand on R.B.P. set at 4,334 Ft.
2:30			6		Stop pumping. Let sand fall. Packer set at 4,132 Feet.
3:18	100			3	Start to fill Annulus.
	-0-		25		Annulus full. Leave it open.
3:28		100		3	Start to fill tubing.
		600	11	2.25	Tubing full. Pumping steady.
3:32					Start mixing 200 sacks common cement (Neat).
		-0-	42		Stop pumping. Shut in well. Wash pump and lines open well. Start Fresh water Displacement.
4:15		1,800	17		Stop pumping. Shut in well. Wash up pump & truck open well.
4:35		100			Well holding pressure.
4:50		2,000	17		UNset packer. Rev. out.
					Pkr. unset at 4,332 Ft. Rev. out and wash sand off of R.B.P.
6:00					Job Complete.

# DIAMOND TESTING

## Pressure Survey Report

### General Information

Company Name	L.D. DRLG	Job Number	M309
Well Name	MEYER #1-20	Representative	MIKE COCHRAN
Unique Well ID	DST#1 4043-4075 L/KC"E"	Well Operator	L.D. DRLG
Surface Location	SEC.20-17S-87W LANE CO.KS.	Report Date	2012/04/21
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KIM SHOEMAKER
		Test Unit	NO. 1

### Test Information

Test Type	CONVENTIONAL		
Formation	DST#1 4043-4075 L/KC"E"		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2012/04/21	Start Test Time	05:55:00
Final Test Date	2012/04/21	Final Test Time	12:45:00
		Well Fluid Type	01 Oil
Gauge Name	30037		
Gauge Serial Number			

### Test Results

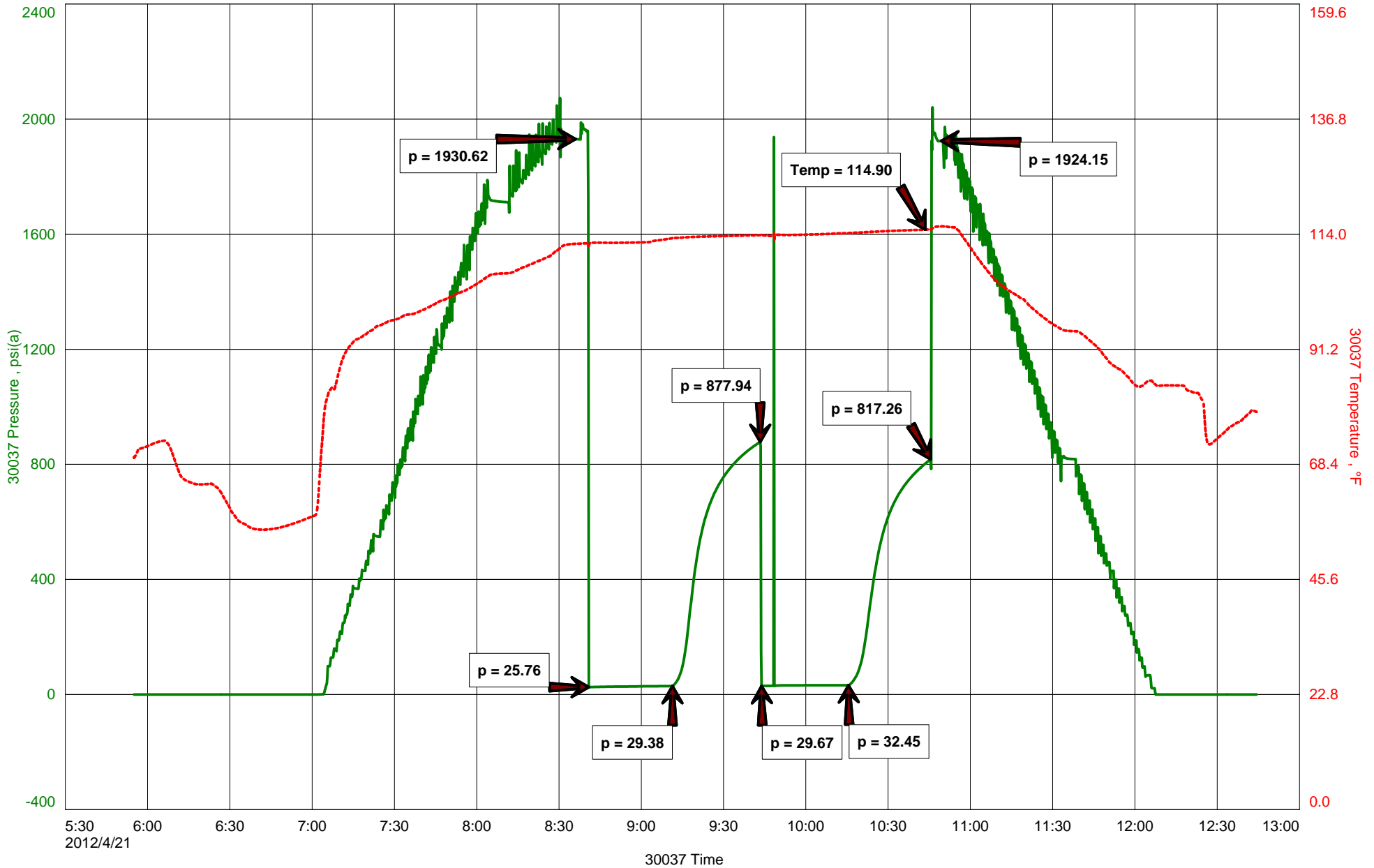
Remarks RECOVERED:  
45' DM, 100% MUD W/SOME SPOTS OF OIL  
45' TOTAL FLUID

TOOL SAMPLE: DM, 100% DRLG MUD W/SOME SPOTS OF OIL

L.D. DRLG  
DST#1 4043-4075 L/KC"E"  
Start Test Date: 2012/04/21  
Final Test Date: 2012/04/21

MEYER #1-20  
Formation: DST#1 4043-4075 L/KC"E"  
Pool: WILDCAT  
Job Number: M309

# MEYER #1-20





**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.

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

# DIAMOND TESTING

## Pressure Survey Report

### General Information

Company Name	L.D. DRLG	Job Number	M310
Well Name	MEYER #1-20	Representative	MIKE COCHRAN
Unique Well ID	DST#2 4135-4195 L/KC"H&I"	Well Operator	L.D. DRLG
Surface Location	SEC.20-17S-87W LANE CO.KS.	Report Date	2012/04/22
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KIM SHOEMAKER
		Test Unit	NO. 1

### Test Information

Test Type	CONVENTIONAL		
Formation	DST#2 4135-4195 L/KC"H&I"		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2012/04/22	Start Test Time	21:05:00
Final Test Date	2012/04/23	Final Test Time	03:05:00
		Well Fluid Type	01 Oil
Gauge Name	30037		
Gauge Serial Number			

### Test Results

#### Remarks

RECOVERED:  
3' DM 100% MUD  
3' TOTAL FLUID

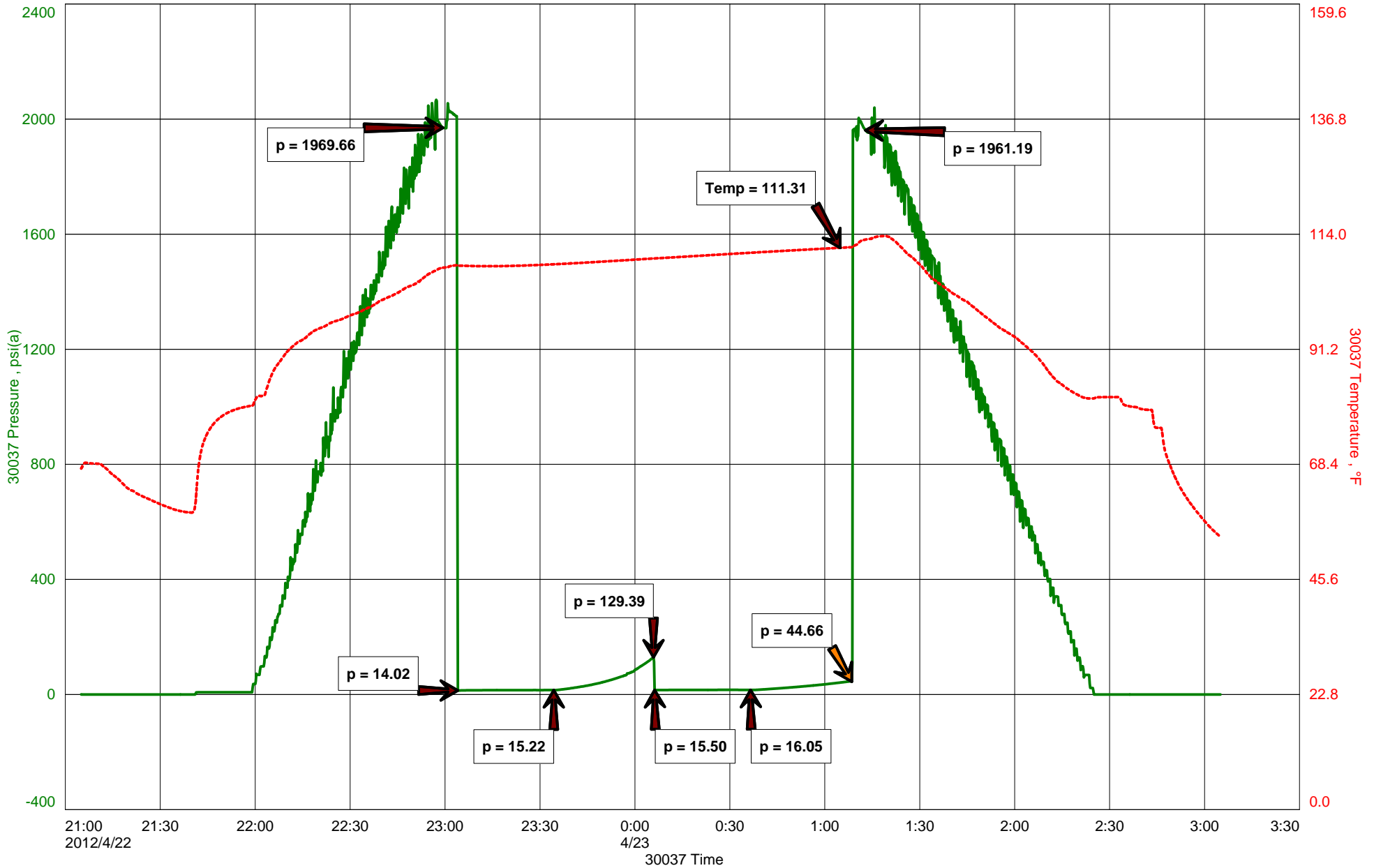
TOOL SAMPLE: 100% MUD W/ SOME OIL SPOTTING



L.D. DRLG  
DST#2 4135-4195 L/KC"H&I"  
Start Test Date: 2012/04/22  
Final Test Date: 2012/04/23

MEYER #1-20  
Formation: DST#2 4135-4195 L/KC"H&I"  
Pool: WILDCAT  
Job Number: M310

# MEYER #1-20





**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

## Pressure Survey Report

### General Information

Company Name	L.D. DRLG & MULL DRLG CO. INC.	Job Number	M311
Well Name	MEYER #1-20	Representative	MIKE COCHRAN
Unique Well ID	DST#3 4193-4225 L/KC"J"	Well Operator	L.D. DRLG & MULL DRLG CO. INC.
Surface Location	SEC.20-17S-87W LANE CO.KS.	Report Date	2012/04/23
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KIM SHOEMAKER
		Test Unit	NO. 1

### Test Information

Test Type	CONVENTIONAL		
Formation	DST#3 4193-4225 L/KC"J"		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2012/04/23	Start Test Time	10:50:00
Final Test Date	2012/04/23	Final Test Time	18:10:00
		Well Fluid Type	01 Oil
Gauge Name	30037		
Gauge Serial Number			

### Test Results

#### Remarks

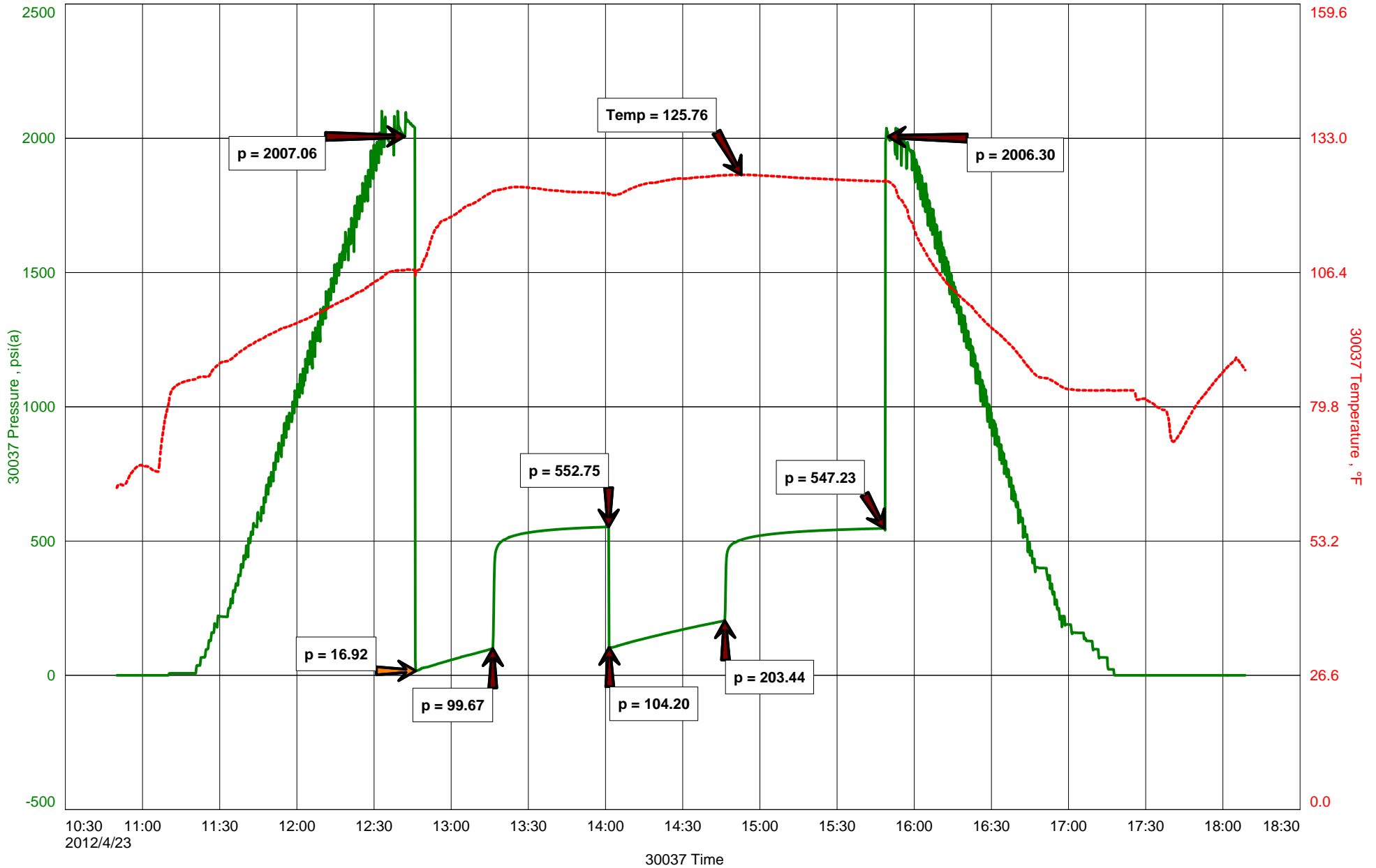
RECOVERED:  
15' CO 100%OIL  
171' OSWM 3% OIL, 63% WTR, 34% MUD  
239' GMW 1% GAS, 91%WTR, 8% MUD, A THIN SCUM OF OIL  
425' TOTAL FLUID

CHLOR: 37,000PPM  
PH:8.0  
RW: .24 @ 55 DEG

GRAVITY: 28.2 @ 60

TOOL SAMPLE: 25% OIL, 74% WTR, 1% MUD

# MEYER #1-20





**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

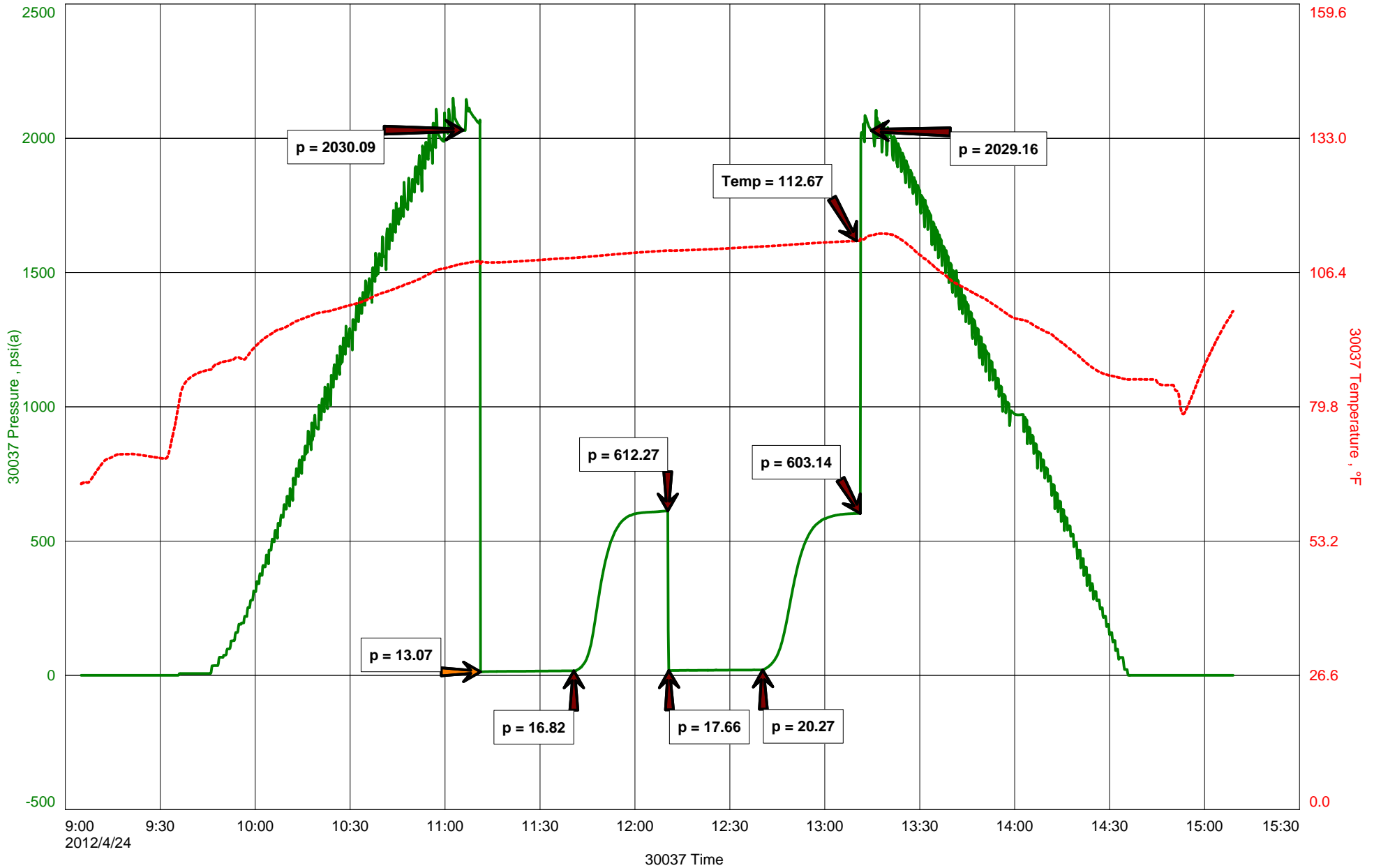
Time Set Packer(s) \_\_\_\_\_ A.M. P.M. Time Started Off Bottom \_\_\_\_\_ A.M. P.M. Maximum Temperature \_\_\_\_\_  
Initial Hydrostatic Pressure..... (A) \_\_\_\_\_ P.S.I.  
Initial Flow Period..... Minutes \_\_\_\_\_ (B) \_\_\_\_\_ P.S.I. to (C) \_\_\_\_\_ P.S.I.  
Initial Closed In Period..... Minutes \_\_\_\_\_ (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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L.D. DRLG  
DST#4 4228-4300 L/KC"K&L"  
Start Test Date: 2012/04/24  
Final Test Date: 2012/04/24

MEYER #1-20  
Formation: DST#4 4228-4300 L/KC"K&L"  
Pool: WILDCAT  
Job Number: M312

# MEYER #1-20



# DIAMOND TESTING

## Pressure Survey Report

### General Information

Company Name	L.D. DRLG	Job Number	M312
Well Name	MEYER #1-20	Representative	MIKE COCHRAN
Unique Well ID	DST#4 4228-4300 L/KC"K&L"	Well Operator	L.D. DRLG
Surface Location	SEC.20-17S-87W LANE CO.KS.	Report Date	2012/04/24
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KIM SHOEMAKER
		Test Unit	NO. 1

### Test Information

Test Type	CONVENTIONAL		
Formation	DST#4 4228-4300 L/KC"K&L"		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2012/04/24	Start Test Time	09:05:00
Final Test Date	2012/04/24	Final Test Time	15:10:00
		Well Fluid Type	01 Oil
Gauge Name	30037		
Gauge Serial Number			

### Test Results

#### Remarks

RECOVERED:  
15' DM 100% MUD W/ SOME OIL SPOTTING  
15' TOTAL FLUID

TOOL SAMPLE: 100% MUD W/ SOME OIL SPOTS



**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

## Pressure Survey Report

### General Information

Company Name	L.D. DRLG	Job Number	M313
Well Name	MEYER #1-20	Representative	MIKE COCHRAN
Unique Well ID	DST#5 4422-4554 PAWNEE/JOHNSON	Well Operator	L.D. DRLG
Surface Location	SEC.20-17S-87W LANE CO.KS.	Report Date	2012/04/26
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KIM SHOEMAKER
		Test Unit	NO. 1

### Test Information

Test Type	CONVENTIONAL		
Formation	DST#5 4422-4554 PAWNEE/JOHNSON		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2012/04/25	Start Test Time	16:40:00
Final Test Date	2012/04/26	Final Test Time	00:30:00
		Well Fluid Type	01 Oil
Gauge Name	30037		
Gauge Serial Number			

### Test Results

#### Remarks

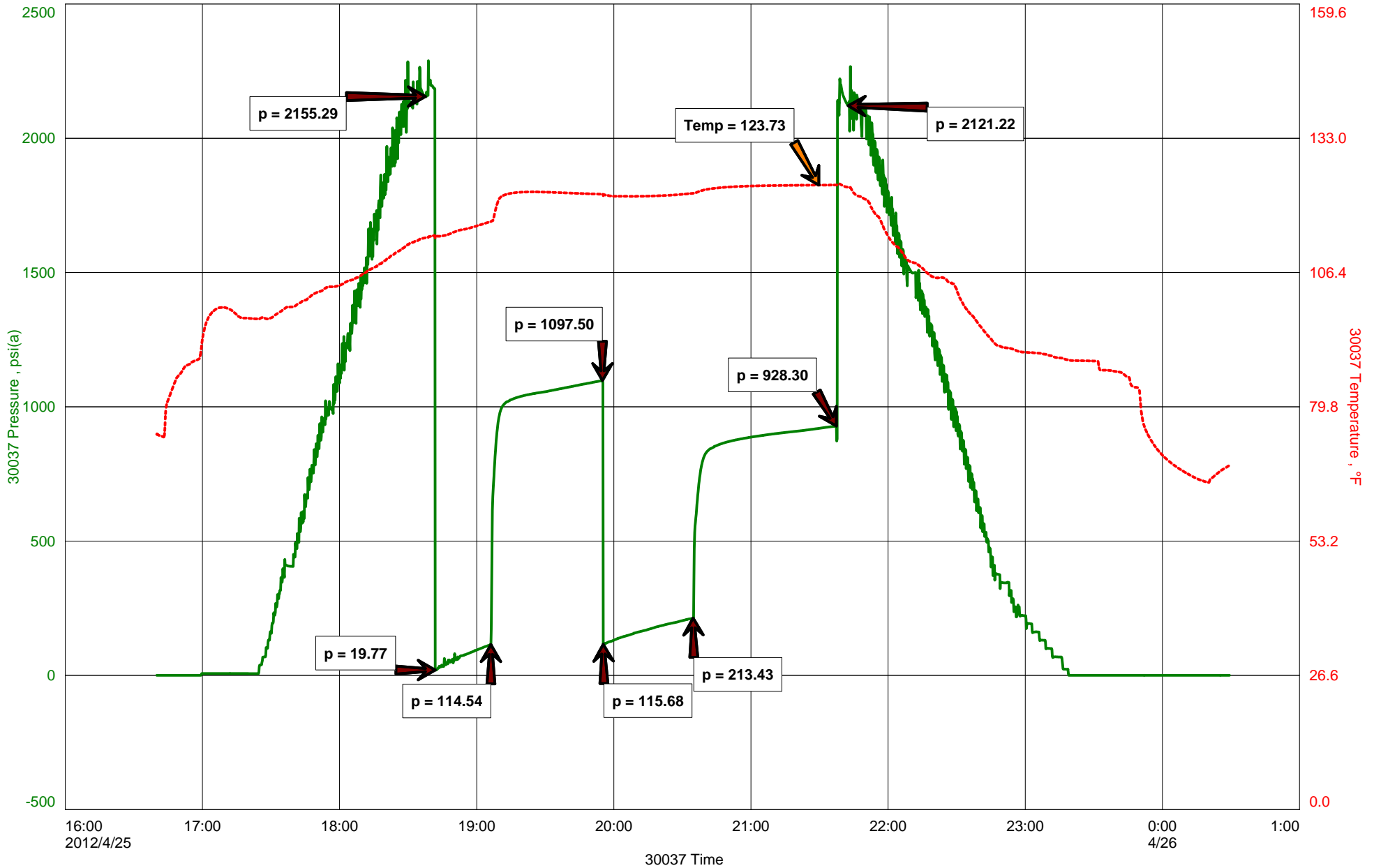
RECOVERED:  
255' GHOCM 4% GAS, 25% OIL, 16% EMULSIFIED OIL, 55% MUD  
315' GSOSM 2% GAS, 98% OIL, SCUM OF OIL  
570' TOTAL FLUID

TOOL SAMPLE: 100% MUD W/ OIL SPOTS

L.D. DRLG  
DST#5 4422-4554 PAWNEE/JOHNSON  
Start Test Date: 2012/04/25  
Final Test Date: 2012/04/26

MEYER #1-20  
Formation: DST#5 4422-4554 PAWNEE/JOHNSON  
Pool: WILDCAT  
Job Number: M313

# MEYER #1-20





**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.

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

# DIAMOND TESTING

## Pressure Survey Report

### General Information

Company Name	L.D. DRLG	Job Number	M314
Well Name	MEYER #1-20	Representative	MIKE COCHRAN
Unique Well ID	DST#6 4578-4596 MISSISSIPPI	Well Operator	L.D. DRLG
Surface Location	SEC.20-17S-87W LANE CO.KS.	Report Date	2012/04/26
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KIM SHOEMAKER
		Test Unit	NO. 1

### Test Information

Test Type	CONVENTIONAL		
Formation	DST#6 4578-4596 MISSISSIPPI		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2012/04/26	Start Test Time	10:05:00
Final Test Date	2012/04/26	Final Test Time	17:35:00
		Well Fluid Type	01 Oil
Gauge Name	30037		
Gauge Serial Number			

### Test Results

#### Remarks

RECOVERED: TRACE OF FREE OIL @ TOP  
1395' GMW 1% GAS,98% WTR,1% MUD, W/ A SCUM OF OIL  
1395' TOTAL FLUID

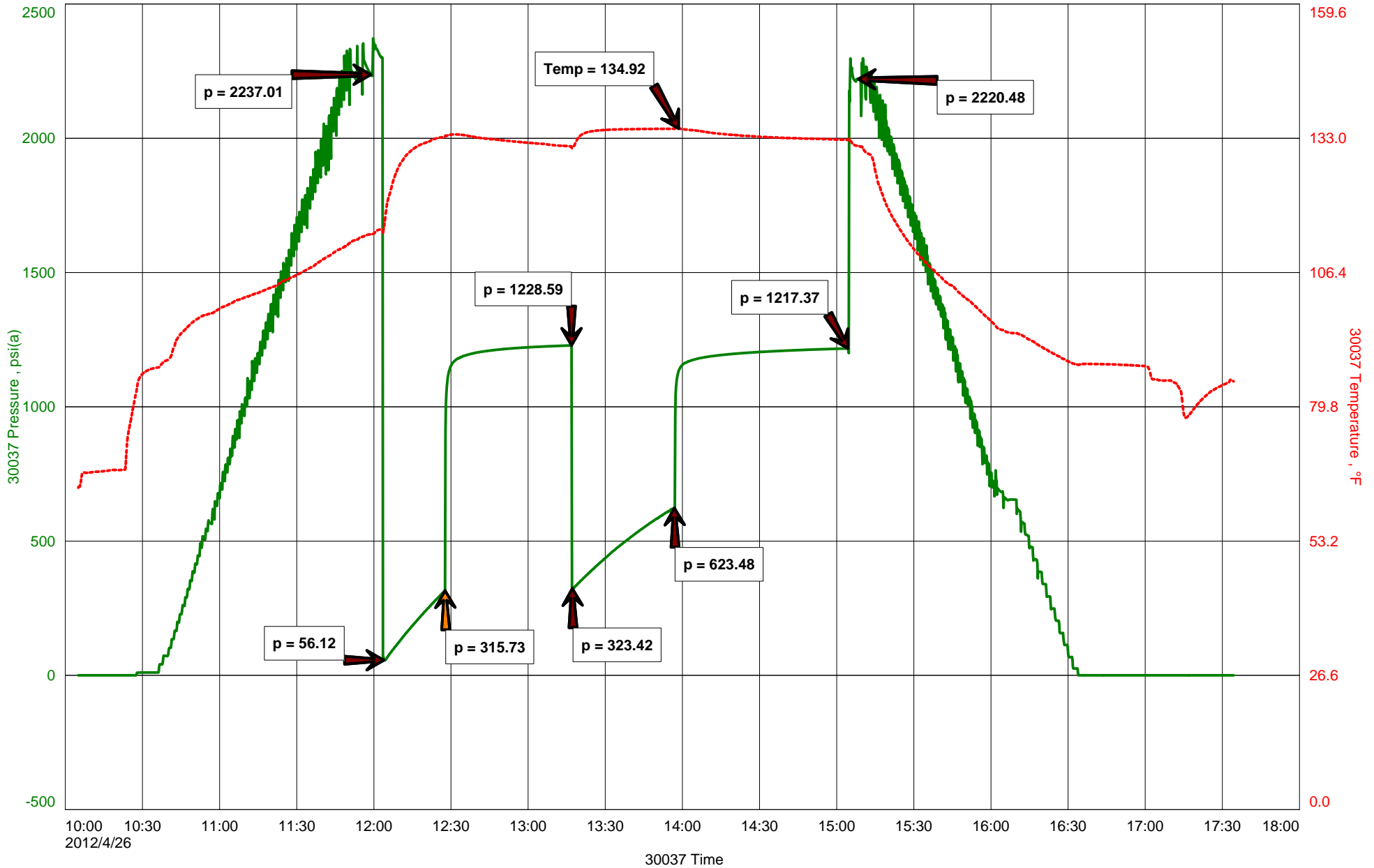
CHLOR: 15.000 PPM  
PH:7.0  
RW: .50 @ 60 DEG

TOOL SAMPLE: 2% GAS, 98% WTR W/SOME OIL SPECKS

L.D. DRLG  
DST#6 4578-4596 MISSISSIPPI  
Start Test Date: 2012/04/26  
Final Test Date: 2012/04/26

MEYER #1-20  
Formation: DST#6 4578-4596 MISSISSIPPI  
Pool: WILDCAT  
Job Number: M314

# MEYER #1-20





**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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# KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 \* WICHITA, KS

## GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.

LEASE \* 1-20 MEYER

FIELD WILDCAT

LOCATION 1401' FNL & 1508' FEL

SEC 20 TWP 17s RGE 28w

COUNTY LANE STATE KANSAS

CONTRACTOR DUKE DRILLING, RIG 4

SPUD 4-16-12 COMP 4-27-12

RTD 4700 LTD 4702

MUD UP 3374 TYPE MUD CHEMICAL

ELEVATIONS

KB 2773

DF \_\_\_\_\_

GL 2764

Measurements Are All From 2773 KB

CASING  
SURFACE 8 5/8" @ 419'  
PRODUCTION 4 1/2" @

ELECTRICAL SURVEYS  
DUAL IND., DENS-H., Micro

SAMPLES SAVED FROM 3700 TO 4700

DRILLING TIME KEPT FROM 3400 TO 4700

SAMPLES EXAMINED FROM 3700 TO 4700

GEOLOGICAL SUPERVISION FROM 3800 TO 4700

GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	2162+611	2161+612
B/ANN.	2191+582	2191+582
WAB, STUTZ	3553-780	3551-778
HEEBNER	3942-1169	3940-1167
LANSING	3979-1206	3978-1205
STARK	4235-1462	4232-1459
MARMATON	4344-1571	4339-1566
FORT SCOTT	4487-1714	4483-1710
CHEROKEE	4509-1736	4506-1733
MISSISSIPPI ST. LOUIS	4576-1803	4570-1797




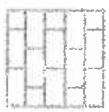







API: 15-101-22357

REMARKS

4-16-12 5800'D  
4-17 @ 540'  
4-18 @ 2400'  
4-19 @ 3135'  
4-20 @ 3690'  
4-21 @ 4075'  
4-22 @ 4181'  
4-23 @ 4210'  
4-24 @ 4300'  
4-25 @ 4465'  
4-26 @ 4596'  
4-27 @ 4700'

### LEGEND

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

SHOE01-08

DRILLING TIME IN MINUTES  
PER FOOT  
Rate of Penetration increases



DEPTH  
2100

LITHOLOGY

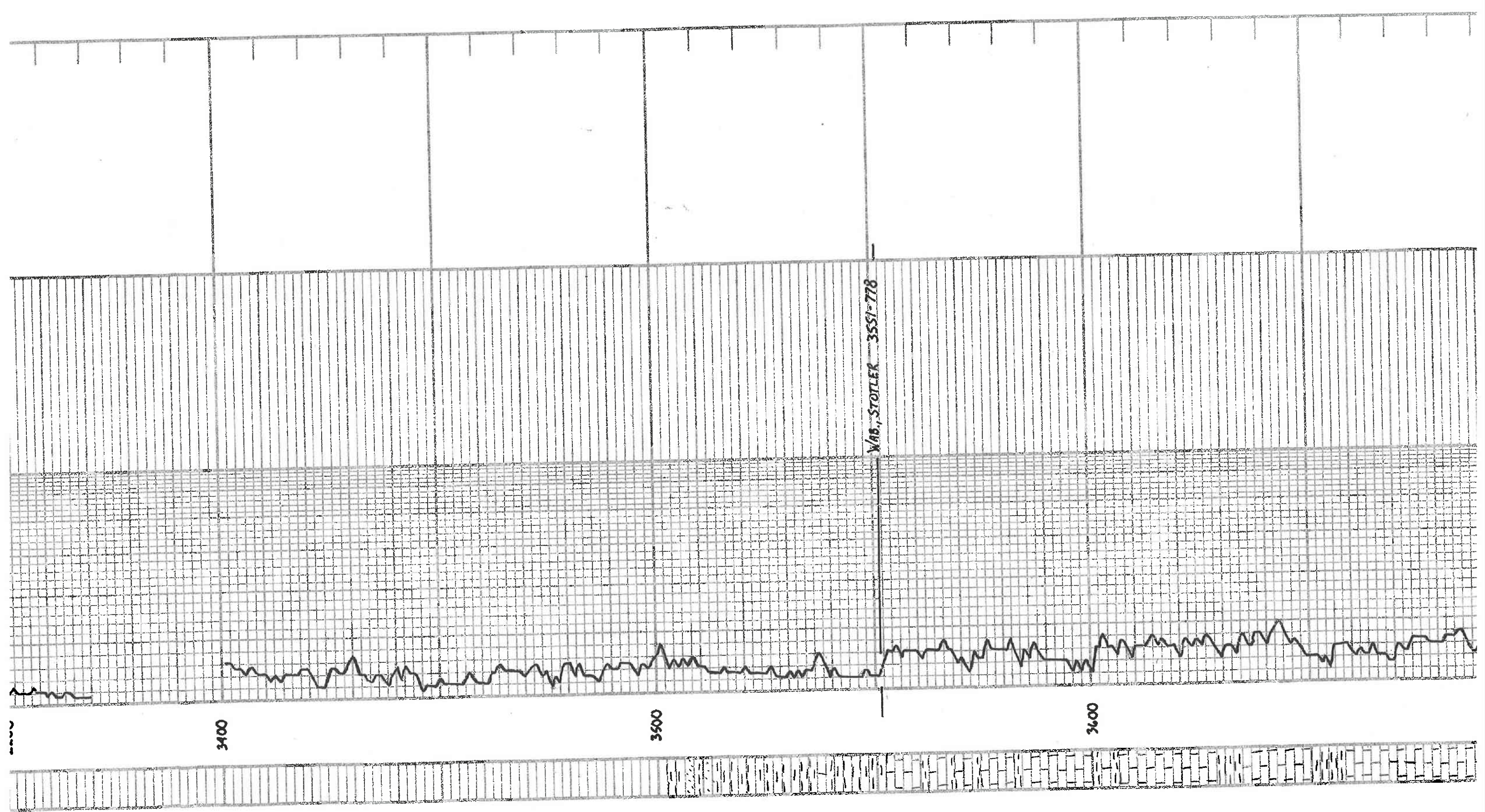
SAMPLE DESCRIPTIONS

REMARKS

ANHYDRITE 2161+612

B/ANN. 2191+582

2200





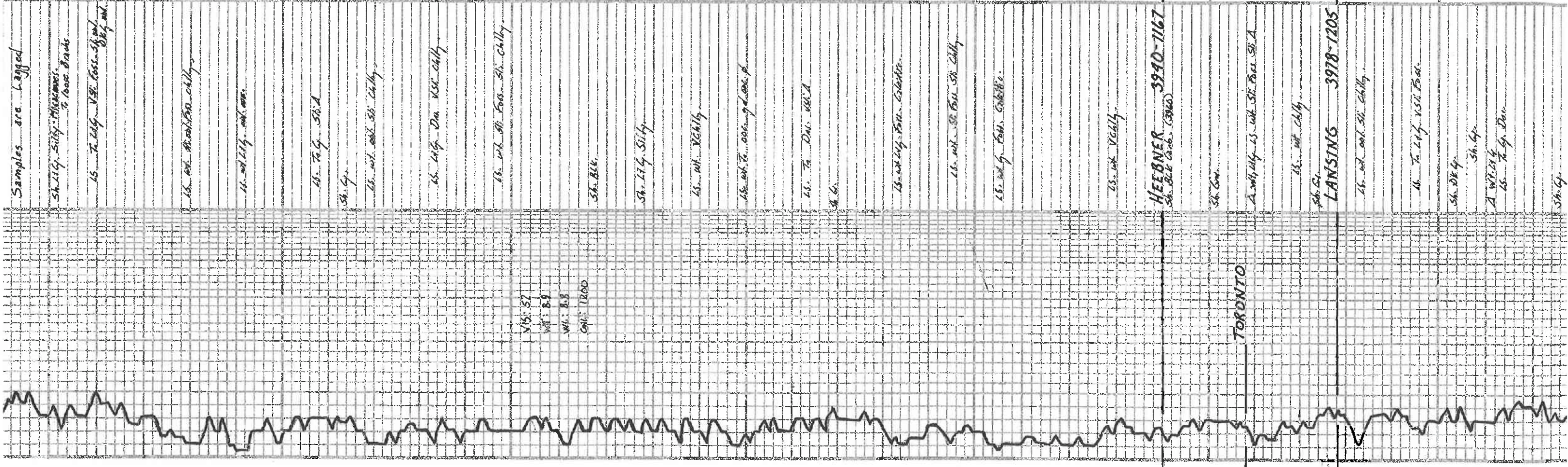
3700

3800

3900

4000

TORONTO



VIS: 52  
 WT: 89  
 WT: 88  
 CON: 1200

Samples are logged

15. T. clay, silty, micaceous, 7 loose drabs  
 15. T. clay, V. H. foss. - 5 ft. of  
 16. are. fine sand, chaly.  
 16. silty, med. var.  
 16. T. G. sand  
 16. G.  
 16. med. var. silty chaly.  
 16. high. Dm. Kst. chaly.  
 16. wk. sh. foss. silty chaly.  
 16. BLU.  
 16. silty silty  
 16. wt. V. G. silty  
 16. wt. T. ...  
 16. T. Dm. V. G.  
 16. G.  
 16. silty. Foss. Gravelite.  
 16. wt. sh. foss. silty chaly.  
 16. wt. G. Foss. Gravelite.  
 16. wt. V. G. silty  
 HEEBNER 3940-1167  
 16. G.  
 16. silty. Is. wt. sh. foss. silty  
 16. wt. chaly.  
 LANSING 3978-1205  
 16. wt. med. silty chaly.  
 16. T. clay, V. H. Foss.  
 16. D. G.  
 16. G.  
 A. wt. silty  
 16. T. G. Dm.  
 16. G.  
 16. G.

DST (1) 4043-4075  
 1st Run: Tool 500' 10' Surf. Run did 15 min.  
 2nd Run: No Blow Flushed Tool. West surge  
 30-30-30-30  
 Rec. 45 Min  
 of few spots  
 AP: 26-29  
 21-22



15. T. S. R. A. USA - Co. 1007

16. S. L. G. Co.

17. S. L. G. Co. - 11. 11. 1952

18. L. G.

19. S. L. G. Co. - 11. 11. 1952

20. A. M. I.

21. S. L. G. Co.

22. PAWNEE 4930-1657

23. S. L. G. Co. - 11. 11. 1952

24. S. L. G. Co. - 11. 11. 1952

25. S. L. G. Co.

26. S. L. G. Co. - 11. 11. 1952

27. MYRICK STATION

28. S. L. G. Co.

29. S. L. G. Co. - 11. 11. 1952

30. FORT SCOTT 4983-1710

31. S. L. G. Co. - 11. 11. 1952

32. S. L. G. Co.

33. S. L. G. Co. - 11. 11. 1952

34. CHEROKEE 4506-1733

35. S. L. G. Co. - 11. 11. 1952

36. S. L. G. Co. - 11. 11. 1952

37. S. L. G. Co. - 11. 11. 1952

38. S. L. G. Co.

39. S. L. G. Co.

40. S. L. G. Co.

41. JOHNSON 4545-1772

42. S. L. G. Co. - 11. 11. 1952

43. S. L. G. Co.

44. S. L. G. Co. - 11. 11. 1952

45. MISSISSIPPI ST. LOUIS 4570

46. S. L. G. Co. - 11. 11. 1952

47. MISS SPERGEN 4583-1810

48. S. L. G. Co. - 11. 11. 1952

49. S. L. G. Co.

50. S. L. G. Co.

51. S. L. G. Co.

52. S. L. G. Co.

53. S. L. G. Co.

54. S. L. G. Co.

55. S. L. G. Co.

56. S. L. G. Co. - 11. 11. 1952

57. S. L. G. Co.

58. S. L. G. Co. - 11. 11. 1952

59. S. L. G. Co.

60. S. L. G. Co.

61. S. L. G. Co.

62. S. L. G. Co.

63. S. L. G. Co.

64. S. L. G. Co.

1400

1500

1600

1700

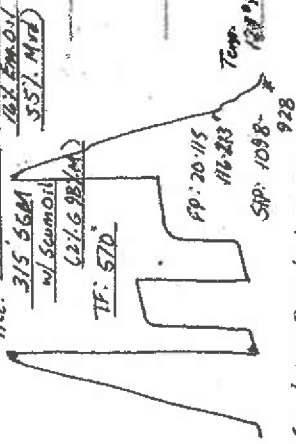
DST 157

DST 167

RTD 4700-1927

DST (S) 4122-4554  
15' OPEN: Bottom bucket 10 min 30 sec. 88: Nov 21  
2' OPEN: 30. 45. 45-60

Rec. 255' HDSCM (1/2 25' BT)  
315' 56M (1/2 25' BT)  
w/ Seawall (27.6 98' M)  
TF: 570



Real Sample: 1007. A and w/ spilloil

DST (G) 4578-4596

15' OPEN: Bottom bucket 5 min. 88: Nov 21  
2' OPEN: 30. 45. 45-60

Rec. Trace Free oil @ Top  
1385' 56M (17.6 17.6 887.2)  
FR: 50-316  
323-623  
SIP: 1229 + 1217

