



KANSAS CORPORATION COMMISSION 1055300  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # 6039  
Name: L. D. Drilling, Inc.  
Address 1: 7 SW 26TH AVE  
Address 2: \_\_\_\_\_  
City: GREAT BEND State: KS Zip: 67530 + 6525  
Contact Person: L. D. DAVIS  
Phone: (620) 793-3051  
CONTRACTOR: License # 33323  
Name: Petromark Drilling, LLC  
Wellsite Geologist: JIM MUSGROVE  
Purchaser: M V PURCHASING

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SLOW  
 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 #: \_\_\_\_\_

3/25/2011	3/31/2011	04/11/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-009-25537-00-00  
Spot Description: \_\_\_\_\_  
SW NW SW Sec. 6 Twp. 18 S. R. 11  East  West  
1,650 Feet from  North /  South Line of Section  
330 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Barton  
Lease Name: JACK Well #: 2-6  
Field Name: WILDCAT  
Producing Formation: ARBUCKLE  
Elevation: Ground: 1831 Kelly Bushing: 1834  
Total Depth: 3460 Plug Back Total Depth: 3430  
Amount of Surface Pipe Set and Cemented at: 340 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: 3800 ppm Fluid volume: 160 bbls  
Dewatering method used: Hauled to Disposal  
Location of fluid disposal if hauled offsite:  
Operator Name: L. D. DRILLING, INC.  
Lease Name: L. D. License #: 6039  
Quarter NW Sec. 22 Twp. 16 S. R. 13  East  West  
County: BARTON Permit #: D30660

**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: Deanna Garrison Date: 05/06/2011



1055300

Operator Name: L. D. Drilling, Inc. Lease Name: JACK Well #: 2-6  
 Sec. 6 Twp. 18 S. R. 11  East  West County: Barton

**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  Yes  No  
 (Attach Additional Sheets)  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No  
 Electric Log Run  Yes  No  
 Electric Log Submitted Electronically  Yes  No  
 (If no, Submit Copy)

Log Formation (Top), Depth and Datum  Sample  
 Name Top Datum  
 Attached Attached Attached

List All E. Logs Run:  
**Attached**

CASING RECORD  New  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
SURFACE	12.25	8.625	23	340	60/40 POZMIX	320	2%Gel,3%CC,.25#CF
PRODUCTION	7.875	4.5	11.6	3455	60/40 POZMIX	180	

## ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input checked="" type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	-	COMMON	100	.5%FLA,.5%CFR,.25%DEFOAMER
	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	3368 - 3371'	1000 gal 20% NE Acid	
4	3342 - 3344'; 3347 - 3349';	400 gal 28% NE FE HCL Acid	
4	3357 - 3359'; 3368 - 3372'	400 gal 28% Acid	

TUBING RECORD: Size: <u>2.375</u> Set At: <u>3230</u> Packer At: _____ Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>04/21/2011</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____
Estimated Production Per 24 Hours	Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	JACK 2-6
Doc ID	1055300

All Electric Logs Run

BOREHOLE COMPENSATED SONIC LOG
DUAL COMPENSATED POROSITY LOG
DUAL INDUCTION LOG
MICRORESISTIVITY LOG
SONIC CEMENT BOND LOG

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	JACK 2-6
Doc ID	1055300

Tops

Name	Top	Datum
ANHYDRITE	685	+1149
BASE ANHYDRITE	707	+1127
HEEBNER	2953	-1119
TORONTO	2971	-1137
DOUGLAS	2986	-1152
BROWN LIME	3063	-1229
LANSING	3075	-1241
BASE KANSAS CITY	3319	-1485
ARBUCKLE	3341	-1507



**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 03858 A

6-185-11W

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

DATE OF JOB 3-26-11		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 Tact		WELL NO. 2-6			
ADDRESS				COUNTY Barton		STATE Kansas			
CITY		STATE		SERVICE CREW C. Messick; M. Mattel; D. Phye					
AUTHORIZED BY				JOB TYPE C.N.W. - Surface					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
37,216	.5						3-25-11	PM	9:00
						ARRIVED AT JOB	3-25-11	AM	10:30
19,903-19,905	.5					START OPERATION	3-26-11	PM	1:15
						FINISH OPERATION	3-26-11	PM	1:45
19,960-19,918	.5					RELEASED	3-26-11	PM	2:00
						MILES FROM STATION TO WELL	70		

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 103	60/40 Poz Cement	sh	320		\$ 3,840.00
P CC 102	Cellflake	Lb	81		\$ 299.70
P CC 109	Calcium Chloride	Lb	828		\$ 869.40
P CF 153	Wooden Plug, 8 5/8"	ea	1		\$ 160.00
P E 100	Pickup Mileage	mi	70		\$ 297.50
P E 101	Heavy Equipment Mileage	mi	140		\$ 980.00
P E 113	Bulk Delivery	tm	966		\$ 1,545.60
P CE 200	Cement Pump: 0 Feet To 500 Feet	hrs	4		\$ 1,000.00
P CE 240	Blending and Mixing Service	sh	320		\$ 448.00
P CE 504	Plug Container	Job	1		\$ 250.00
P S003	Service Supervisor	hrs	8		\$ 175.00
					SUB TOTAL
					ALS \$ 7,398.90
SERVICE & EQUIPMENT				%TAX ON \$	
MATERIALS				%TAX ON \$	
					TOTAL

CHEMICAL / ACID DATA:			

SERVICE REPRESENTATIVE: Arnon 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 E.D. Drilling, Incorporated	Lease No. Well # 2-6	Date 3-26-11
Lease Tack	Field Order # 3858	Station Pratt, Kansas
Type Job C.N.W. - Surface	Casing 8 7/8 24 Lb	Depth 340 Feet
	County Barton	State Kansas
	Formation	Legal Description 6-185-11W

PIPE DATA		PERFORATING DATA		MATERIAL USED		TREATMENT RESUME		
Casing Size 8 7/8 24 Lb	Tubing Size 2 1/2"	Shots/Ft	320 sacks	60/40 Poz	with	RATE	PRESS	ISIP
Depth 340 Feet	Depth	From	28 Gal.	3 1/2 Calcium Chloride	25 Lb./stk.	5 Min.		
Volume 2.1 Bbl.	Volume	From	To 14.8 Lb./Gal.	5.8 Gal.	1.21 CU.F.T./stk.	10 Min.		
Max Press 350	Max Press	From	To		Avg	15 Min.		
Well Connection Plug Container	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 225 Feet	Packer Depth	From	To	Flush 20 Bbl. Fresh Water	Gas Volume		Total Load	

Customer Representative Lyle Cason	Station Manager David Scott	Treater Clarence R. Messick
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Service Units	37,216	19,903	19,905	19,960	19,918				
Driver Names	Messick	Mattal	Phye						

Time P.M.	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
10:30					Trucks on location and hold safety meeting.
12:15					Petromark Drilling start to run 8 joints new 24 Lb./Ft. 8 7/8" casing.
1:00					Casing in well. Circulate for 5 minutes.
1:10	250			5	Start Fresh Water Pre-Flush.
	300		10	5	Start mixing 320 sacks 60/40 Poz cement.
	-0-		79		Stop pumping. Shut in well. Release Wooden Plug. Open Well.
1:30	100			5	Start Fresh water displacement.
1:35	350		20		Plug down. Shut in well.
					circulated 15 sacks cement to the pit.
					Wash up pump truck.
2:00					Job Complete.
					Thank You.
					Clarence, Mike, Dale



**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 03646 A

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

DATE OF JOB <u>3-31-11</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.D. Drilling Inc.</u>		LEASE <u>JACK</u> WELL NO. <u>2-6</u>							
ADDRESS _____		COUNTY <u>Barton 6-18-11</u> STATE <u>KANSAS</u>							
CITY _____ STATE _____		SERVICE CREW <u>A. Worthy, B. Mitchell, K. Lesly</u>							
AUTHORIZED BY _____		JOB TYPE: <u>4 1/2" Long String</u> <u>CNW</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>28443</u>	<u>1 1/2</u>						<u>3-31-11</u>		<u>1130</u>
<u>19889-19842</u>	<u>1 1/2</u>					ARRIVED AT JOB	<u>3-31-11</u>	PM	<u>300</u>
<u>19959-21010</u>	<u>1 1/2</u>					START OPERATION	<u>3-31-11</u>	PM	<u>530</u>
						FINISH OPERATION	<u>3-31-11</u>	AM	<u>700</u>
						RELEASED	<u>3-31-11</u>	PM	<u>800</u>
						MILES FROM STATION TO WELL	<u>70-miles</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
CP103	60/40 Por	SK	150		\$ 1800.00
CP103		SK	30		\$ 360.00
CC102	cell FLAKS	lb	38		\$ 140.80
CC111	SALT Fine	lb	1336		\$ 617.80
CC112	cement Friction Reducer	lb	97		\$ 582.40
CC201	Gilsonite	lb	750		\$ 602.40
CF102	Top Rubber cement Plus 4 1/2"	EA	1		\$ 80.00
CF250	Guide Shoe Reg. 4 1/2" Blue 4 1/2"	EA	1		\$ 225.00
CF1450	Flapper Type Insert Float Valve	EA	1		\$ 200.00
CF1650	Turbolizer 4 1/2" Blue	EA	5		\$ 425.00
CC04	CS-1L KCL sub	gal	1		\$ 35.00
CC151	MUD Flush	gal	500		\$ 430.00

SUB TOTAL  
DL5

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

CHEMICAL / ACID DATA:			

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





# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer <i>L. O. Drilling, Inc.</i>	Lease No.	Date <i>3-31-11</i>
Lease <i>JACK</i>	Well # <i>2-1</i>	
Field Order # <i>03646</i>	Station <i>Pratt KS</i>	Casing <i>4 1/2</i>
Type Job <i>4 1/2' Long String</i>	Formation <i>cnw</i>	Depth <i>3455'</i>
		County <i>BARTON</i>
		State <i>KANS.</i>
		Legal Description <i>6-18-11</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
<i>4 1/2</i>				<i>20 - BBL 2% KCL</i>				
Depth <i>3455'</i>	Depth	From	To	<i>12 - 15% mud FLUSH</i>	Max			5 Min.
Volume <i>5 1/2 BBL</i>	Volume	From	To	<i>150 SKS 60/40 Pz</i>	Min			10 Min.
Max Press <i>1000</i>	Max Press	From	To	<i>30 SKS 60/40 Pz</i>	Avg			15 Min.
Well Connection <i>P.C.</i>	Annulus Vol.	From	To	<i>Fluc</i>	HHP Used	<i>✓</i>		Annulus Pressure
Plug Depth <i>438</i>	Packer Depth	From	To	<i>Flush</i>	Gas Volume			Total Load
				<i>Disp. H<sub>2</sub>O</i>				

Customer Representative	Station Manager <i>Scotty</i>	Treater <i>Allen</i>
Service Units <i>28443 19889 19842 19959 21010</i>		
Driver Names <i>Weith Bradley Mitchell Keenan Lesley</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>300</i>					<i>at Loc. Discuss Safety, Setup Plan To</i>
<i>430</i>					<i>Laying down collars. Rig up to Run 4 1/2</i>
					<i>start 4 1/2' casing. shoe joint 17'</i>
					<i>w/ Reg. Guide Shoe, + Flapper Type tracer</i>
					<i>cent - 1-3-5-7-9</i>
<i>550</i>					<i>CASING @ 3455' Hook up + CIR</i>
<i>630</i>	<i>200+</i>		<i>20</i>	<i>5</i>	<i>Pump 20 Bbls 2% KCL</i>
			<i>12</i>	<i>5</i>	<i>Pump 12 Bbls mud FLUSH</i>
			<i>3</i>	<i>5</i>	<i>Pump 3 Bbls H<sub>2</sub>O spacer</i>
				<i>5</i>	<i>mix + Pump 150 SKS 60/40 Pz @ 15'</i>
			<i>38</i>		<i>Finish mix amt wash out Pump in</i>
<i>652</i>				<i>1 1/2</i>	<i>Drop Top Rubber Plug + Start Disp.</i>
	<i>400+</i>			<i>5</i>	<i>caught lift Pz w/ 35 out</i>
<i>700</i>			<i>53 1/2</i>	<i>3</i>	<i>Plug down</i>
	<i>0+</i>				<i>Release Pz OT</i>
					<i>Plug Rat Hole w/ 30 SKS 60/40</i>
					<i>w/ setup + Rack up Equip.</i>
<i>800</i>					<i>Job complete</i>
					<i>THANKS</i>
					<i>Allen, Keenan Bradley</i>



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

10244 NE Hwy. 61  
P.O. Box 8613  
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Phone 620-672-1201

FIELD SERVICE TICKET  
1718 03515 A

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

DATE OF JOB: <b>4-8-11</b>	DISTRICT: <b>PRATT, KS</b>	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: <b>LD DRILLING</b>	LEASE: <b>JACK</b>	WELL NO. <b>2-6</b>					
ADDRESS:	COUNTY: <b>BARTON</b>	STATE: <b>KS</b>					
CITY:	STATE:	SERVICE CREW: <b>H.G. KEEVER, MCLANAN</b>					
AUTHORIZED BY:	JOB TYPE: <b>CNW - SQUEEZE</b>						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE: <b>4-8</b> AM/PM: <b>0500</b>
<b>19907</b>		<b>19831</b>	<b>3</b>			ARRIVED AT JOB	AM/PM: <b>0715</b>
<b>33708</b>	<b>3</b>	<b>21010</b>				START OPERATION	AM/PM: <b>0800</b>
<b>20920</b>						FINISH OPERATION	AM/PM: <b>1030</b>
						RELEASED	AM/PM: <b>1100</b>
						MILES FROM STATION TO WELL	<b>70</b>

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
<b>CP100</b>	<b>COMMON</b>	<b>SK</b>	<b>50</b>		<b>800.00</b>
<b>CP100</b>	<b>COMMON</b>	<b>SK</b>	<b>50</b>		<b>800.00</b>
<b>CC105</b>	<b>DEFORMER</b>	<b>lb.</b>	<b>12</b>		<b>48.00</b>
<b>CC112</b>	<b>CFR</b>	<b>lb.</b>	<b>24</b>		<b>144.00</b>
<b>CC129</b>	<b>FLA-322</b>	<b>lb.</b>	<b>24</b>		<b>180.00</b>
<b>P700</b>	<b>20/40 STACK SAND</b>	<b>CWT</b>	<b>2</b>		<b>62.00</b>
<b>E100</b>	<b>PICKUP MILE</b>	<b>mile</b>	<b>70</b>		<b>297.30</b>
<b>E101</b>	<b>TRUCK MILE</b>	<b>mile</b>	<b>140</b>		<b>980.00</b>
<b>E113</b>	<b>BULK DELIVERY</b>	<b>TM</b>	<b>327</b>		<b>526.40</b>
<b>CE204</b>	<b>PUMP CHARGE</b>	<b>EA</b>	<b>1</b>		<b>2160.00</b>
<b>CE240</b>	<b>BLENDED CHEMICALS</b>	<b>SK</b>	<b>100</b>		<b>140.00</b>
<b>5003</b>	<b>SENIOR SUPERVISOR</b>	<b>EA</b>	<b>1</b>		<b>175.00</b>
<b>PE500</b>	<b>SQUEEZE MAIN FOLD</b>	<b>EA</b>	<b>1</b>		<b>4.30</b>

SUB TOTAL **DLS 5192.03**

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: **H. GORDLEY** THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: **J.D. Davis**  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

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

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer <b>LD DRILLING</b>	Lease No.	Date <b>4-8-11</b>
Lease <del>LD DRILLING</del>	Well # <b>JACK #2-6</b>	
Field Order # <b>2515</b>	Station <b>PRATT, KS</b>	Casing <b>4 1/2</b>
Type Job <b>ANW - SQUEEZE</b>	Formation <b>ARB</b>	Legal Description <b>6-18-11</b>
	Depth	County <b>BARTON</b>
		State <b>KS</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
4 1/2	2 7/8			Pre Pad	Max		5 Min.	
Depth	Depth	From <b>342</b>	To <b>44</b>	Pad	Min		10 Min.	
Volume <b>1.4</b>	Volume <b>12.6</b>	From <b>347</b>	To <b>49</b>	Frac	Avg		15 Min.	
Max Press	Max Press	From <b>357</b>	To <b>59</b>		HHP Used		Annulus Pressure	
Well Connection	Annulus Vol.	From <b>318</b>	To <b>72</b>	Flush	Gas Volume		Total Load	
Plug Depth <b>315</b>	Packer Depth <b>315</b>	From	To					

Customer Representative <b>LD</b>	Station Manager <b>SCOTT</b>	Treater <b>GONDLEY</b>
Service Units <b>19903</b>	<b>33708-20920</b>	<b>19831-21010</b>
Driver Names <b>HL</b>	<b>HEBER</b>	<b>MCLEOD</b>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
0715					ON LOCATION
					TEST RBP - 3425 PRL 3399
		2000	3	1	HELD 2000#
0810		0	10	2	SPOT 100# SAND
					SET PRL & WAIT
0900					SET PRL - 3255
	500		3	1	LOAD ANW
		200	5	2	DNLS RATE TRC - 2 BPM - 200#
0915		200	0	2	WTR 50% COMMON 1/2% FLA-322
					1/2% CFR 1/4% DETONAM
		100	20	2	WTR 50% COMMON
		1000	0	1	START RBP 50% PRL
0930		2000	2	1/2	2 bbl out - 2000#
		2000			STAGE FOR 10 MINUTES
0945					RELEASE PSD - HELD
1000	1400		20	1	REVERSE OUT - 10 bbl COMMON
					RUN 5 JTS. TRC SAND
1015	400		20	2	WASH TRC SAND
1030	200		20	1	WASH SAND OFF RBP
					RUN TOOLS & TRC
1100					JOB COMPLETE - KEND



James C. Musgrove  
Petroleum Geologist

Office  
(620) 588-4250

312 Main St. • P.O. Box 215 • Claflin, KS 67825

Home  
(620) 587-3443

# GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

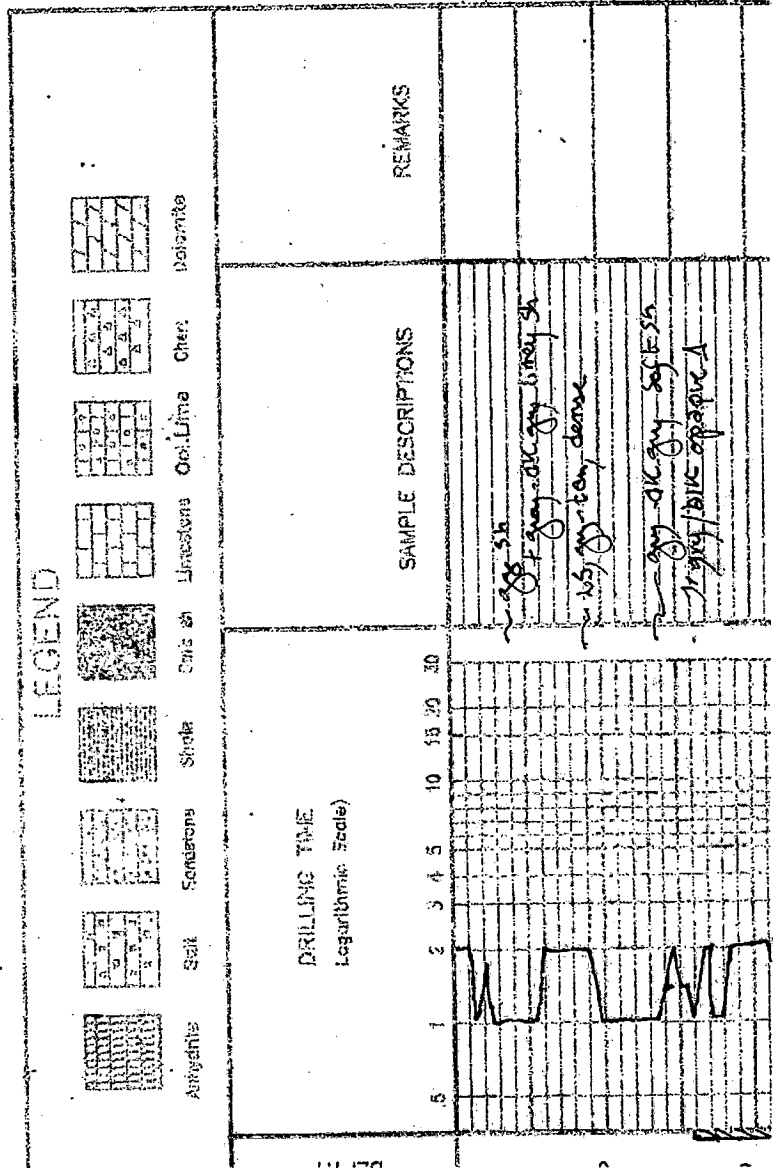
COMPANY <u>WD Drilling Inc.</u>	ELEVATIONS
LEASE <u>Jack # 2-6</u>	KB <u>1834</u>
FIELD <u>wildcat</u>	DF _____
LOCATION <u>SW-NW-SE</u>	GL <u>1829</u>
SEC <u>6</u> TWP <u>18<sup>s</sup></u> RGE <u>11<sup>w</sup></u>	Measurements Are All From <u>KB-</u>
COUNTY <u>Barton</u> STATE <u>Kansas</u>	CASING
CONTRACTOR <u>Petromark Drilling Co (rig # 2)</u>	SIZE <u>8 7/8" C 312</u>
SPUD <u>3-25-2011</u> COMP <u>3-31-2011</u>	TRICAL SURVEYS
WTD <u>346</u> LTR <u>3499</u>	By <u>log Tech</u>
WELL DEPTH <u>2600'</u> TYPE <u>WJ</u> <u>Chemical displaced</u>	DEP, GAN/COB, MEL & BUCS
SAMPLES SAVED FROM <u>2800</u> TO _____	
DRILLING LOG KEPT FROM <u>2800</u> TO _____	<u>R.T.D</u>
SAMPLES EXAMINED FROM <u>2800</u> TO _____	
GEOLOGICAL SUPERVISION FROM <u>2900</u> TO _____	
GEOLOGIST ON WELL <u>Jim Musgrove</u>	

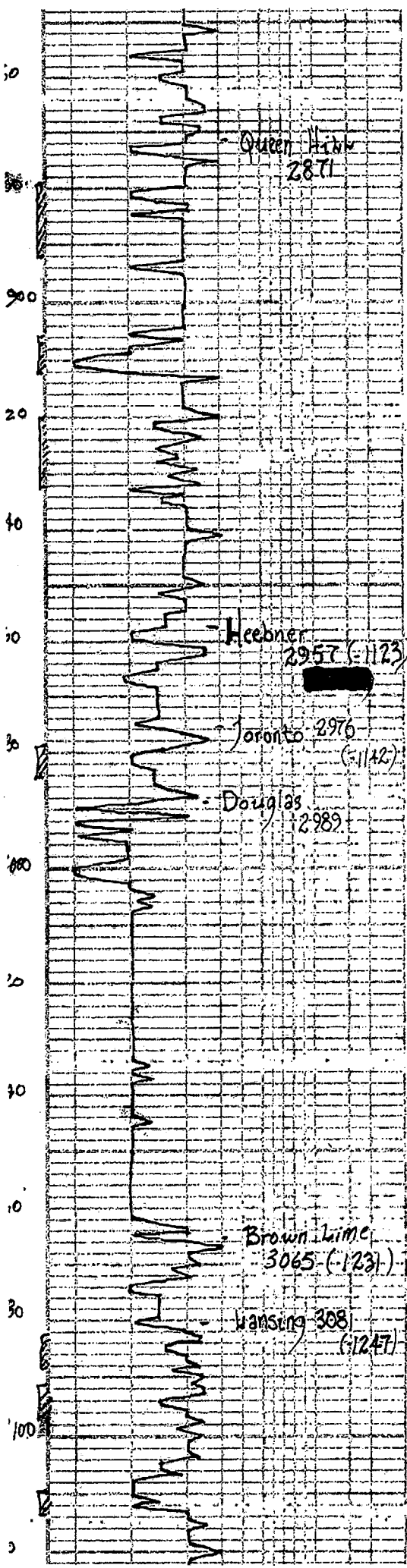
FORMATION TOPS	LOG	SAMPLES
anhydrite	685 +1149	* Area Base 3299 - 1465
Base anhydrite	707 +1127	
Heebner	2953 -1119	Kansas City
Toronto	2971 -1137	
Douglas	2986 -1152	
Brown lime	3063 -1229	

*5 1/2' production casing was set & cemented.  
Roughneck only submitted.*



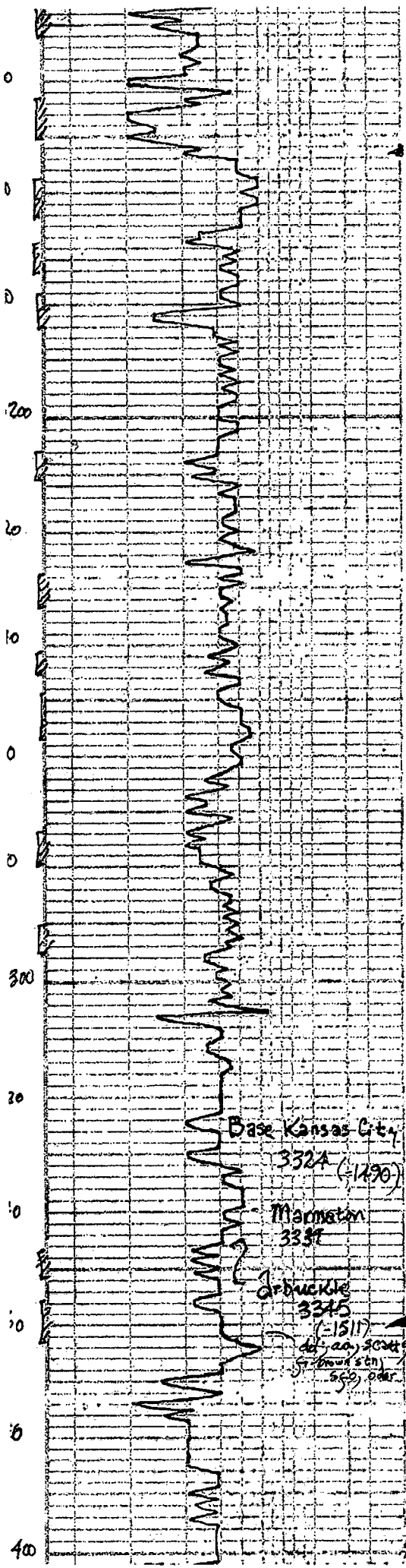
*James C. Musgrove  
Petroleum Geologist*





15	100'	
32		
61A carb. sh		
ls; tan, fine, sandy calcite cement, poor vis of NS		
32		
ls; gray, calc. fr. com. of NS		
32		
ls; gray, wh. det./foss. in part, calc. of		
32		
fr. gray - dk. gray d		
61A carb sh	1834 KB -	
gray / greenish green sh		
32		
ls, wh / gray, sub. com, cherty, part. of NS		
32		
fr. sand, gray - greenish, mica - shaly, poor vis, NS		
32		
aa. sand aa + gray green sh, gray silty mica sh		
32		
ditto		
32		
ls; tan - brown, slightly silty (dse)	+2 Hayden	
gray - greenish green sh		
32		
ls, wh / gray, few foss, cherty, wh		
32		
aa + fr. gray d		
32		
ls; tan, wh / sub. com, cherty, brown sh, fr. gray, No odor		

Dist # 1 3081-3153  
 30-30-45-45  
 Blow weak  
 build 4"  
 Rec; 10' mud, good  
 scum oil  
 12L mud, few oil  
 specks  
 pressures) Isip 960 PSI  
 Isip 947 PSI



13. grey, soft, coal; sub. com.  
Poor sh. sh. f. odor.

15. tan, grey, oil, com. f. c.  
brown sh. sh. f. odor.

16. grey, wh. Ch. Kg. Poor f.  
sh. sh. f. no odor.

D.K. sh.

13. tan, sub. com. Ch. Kg.  
sect. f. f. f.

3 2

13. grey, soft, coal; sub. com.  
Poor sh. sh. f. no odor.

13. wh. sh. Ch. Kg. brown-golden  
brown sh. sh. f. odor.

15. tan, f. sh. sect. f. c.  
dk. brown sh. sh. f. odor.

16. grey, sub. com. Ch. Kg. sh.

3 2

13. grey, soft, coal; brown-golden  
brown sh. sh. f. odor.

+1  
Hayden

15. tan, oil, A. y. Poor f.  
sh. sh.

16. grey, sh.

15. tan, grey, f. sh. slightly  
Ch. Kg. sh.

17. grey, mar. soft, sh.  
+ 15. tan, grey, sh.  
dolomite, sh.

18. dol. grey, tan, f. med. x. b.  
Slightly sh. sh. sect. f. c.  
sh. sh. f. no odor.

19. dol. brown, tan, med. x. b. sect. f. c.  
brown/golden brown sh. sh. f.  
odor.

20. dol. tan, light brown sh. sh.  
x. f. f. odor.

F. J. f. sh.

3 2

1449-1449'

Hayden

Pipe string  
3167-62  
Board 3168-75  
Short 1-15'

Dst #2 3197-3320  
30-30-45-45  
Blow weak to strong  
(0.8-2.4 1/2 min)

Rec; 144' water mud  
(10% water, 90% mud)  
124' muddy water  
(42% water, 58% mud)  
121' water

pressures) ISIP 849 72  
ISIP 832 72  
ISIP 12-96  
ISIP 98-157  
NSM 1572  
1538

Dst #3 3315-3366  
45-45-45-45  
Blow Good - strong  
(0.8-2.8 min)

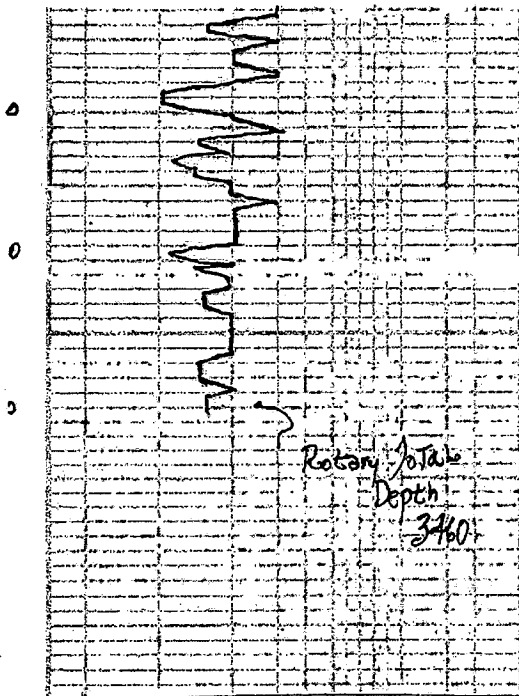
Rec; 90' gas in pipe  
138' clean oil  
216' muddy grey oil  
(10% gas, 38% oil, 52% mud)

pressures) ISIP 573 72  
ISIP 473  
ISIP 33-118  
ISIP 120-143  
NSM 1576  
1576

(Sub 3360 #  
Drilling Sample)

Dst #4 3364-3378  
45-45-45-45  
Blow Good - strong  
(0.8-5 min)

Rec; 40' gas in pipe  
180' clean oil  
124' muddy water



2  
 dol. tan/gry. f. med x L. few  
 sh. f. sh. p. - 4 p. o.  
 2  
 dol. tan/brown. f. med x L.  
 5 7 + ju. gry. Δ

(45% oil) 45% mud  
 10% gas  
 121' oil out muddy  
 water  
 (10% oil) 70% water  
 20% mud  
 245' water  
 pressures: Isip 808 psi  
 Isip 788 psi  
 Isip 38-196 psi  
 Isip 128-285 psi  
 103M  
 1606-1605

# Diamond Testing

## General information Report

### General Information

Company Name L.D. DRILLING, INC.

Contact	L.D. DAVIS	Job Number	
Well Name	JACK #2-6	Representative	ROGER D. FRIEDLY
Unique Well ID	DST #1 LKC 3,087' - 3,153'	Well Operator	L.D. DRILLING, INC.
Surface Location	SEC 6-18S-11W BARTON COUNTY, KS	Report Date	2011/03/29
Well License Number		Prepared By	ROGER D. FRIEDLY
Field	WILDCAT		
Well Type	Vertical		

Test Type	CONVENTIONAL DRILL-STEM TEST		
Formation	DST #1 LKC 3,087' - 3,153'		
Well Fluid Type	01 Oil	Start Test Time	18:37:00
		Final Test Time	00:45:00
Start Test Date	2011/03/28		
Final Test Date	2011/03/29		
Gauge Name	1150		
Gauge Serial Number			

### Test Results

RECOVERED: 10' DM 100% MUD - GOOD OIL SCUM  
121' DM 100% MUD - FEW OIL SPECKS  
131' TOTAL FLUID

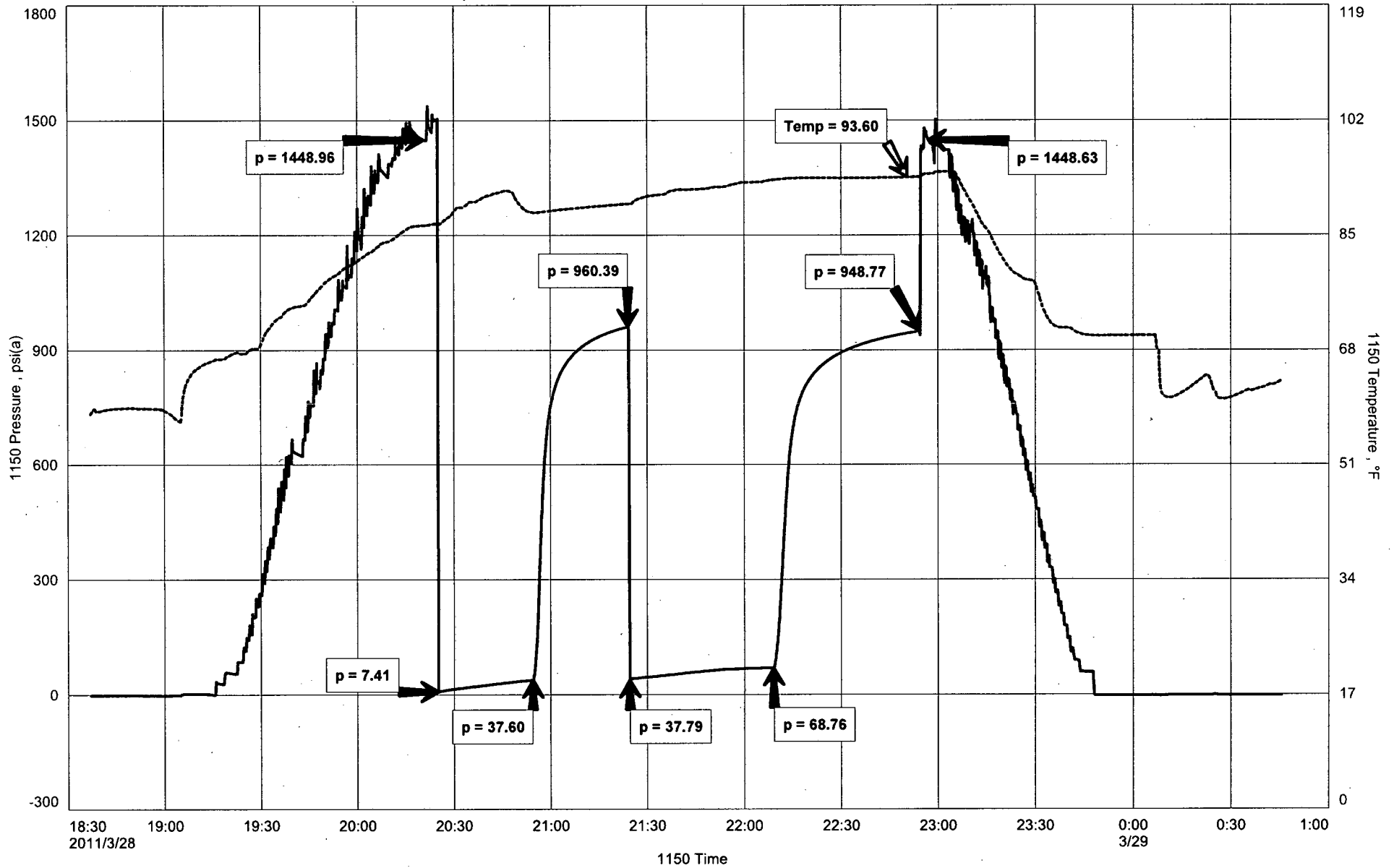
TOOL SAMPLE: 5% GAS, 2% OIL, 93% MUD

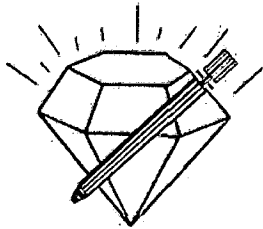


L.D. DRILLING, INC.  
DST #1 LKC 3,087' - 3,153'  
Start Test Date: 2011/03/28  
Final Test Date: 2011/03/29

JACK #2-6  
Formation: DST #1 LKC 3,087' - 3,153'

# JACK #2-6





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313

CLOCK ON: 18:37

CLOCK OFF: 00:45

**DRILL-STEM TEST TICKET**

Company L.D. DRILLING, INC. Lease & Well No. JACK #2-26  
Contractor PETROMARK RIG #2 Charge to L.D. DRILLING, INC.  
Elevation 1831 EGL Formation LKC Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
Date 2.28.11 Sec. 6 Twp. \_\_\_\_\_ 18 S Range 11 W. County BARTON State KANSAS

Test Approved By JIM MUSGROVE Diamond Representative ROGER D. FRIEDLY

Formation Test No. 1 Interval Tested from 3,087 ft. to 3,153 ft. Total Depth 3,153 ft.  
Packer Depth 3,082 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth 3,087 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) \_\_\_\_\_ 3,175 ft. Recorder Number 1150 Cap. 5,000 P.S.I.  
Bottom Recorder Depth (Outside) \_\_\_\_\_ 3,150 ft. Recorder Number 3851 Cap. 5,700 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 59 Drill Collar Length 121 ft. I.D. 2 1/4 in.  
Weight 8.7 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 2,000 P.P.M. Drill Pipe Length 2,940 ft. I.D. 3 1/2 in.  
Jars: Make BOWEN Serial Number N/A Test Tool Length 26 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 66 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK 1/8" BLOW INCREASING TO 4" (NObb)  
2nd Open: WEAK SURFACE BLOW INCREASING TO 4 1/4" (NObb)

Recovered 10 ft. of DM 100% MUD - GOOD OIL SCUM  
Recovered 121 ft. of DM 100% MUD - FEW OIL SPECKS  
Recovered 131 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: 5% GAS, 2% OIL, 93% MUD	Total

Time Set Packer(s) 8:27 P.M. A.M. P.M. Time Started Off Bottom 10:57 P.M. A.M. P.M. Maximum Temperature 94  
Initial Hydrostatic Pressure ..... (A) 1,449 P.S.I.  
Initial Flow Period ..... Minutes 30 (B) 7 P.S.I. to (C) 38 P.S.I.  
Initial Closed In Period ..... Minutes 30 (D) 960 P.S.I.  
Final Flow Period ..... Minutes 45 (E) 38 P.S.I. to (F) 69 P.S.I.  
Final Closed In Period ..... Minutes 45 (G) 949 P.S.I.  
Final Hydrostatic Pressure ..... (H) 1,449 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

## General information Report

### General Information

Company Name L.D. DRILLING, INC.

Contact	L.D. DAVIE	Job Number	
Well Name	JACK #2-6	Representative	ROGER D. FRIEDLY
Unique Well ID	DST #2 LKC 3,197' - 3,320'	Well Operator	L.D. DRILLING, INC.
Surface Location	SEC 6-18S-11W BARTON COUNTY, KS	Report Date	2011/03/29
Well License Number		Prepared By	ROGER D. FRIEDLY
Field	WILDCAT		
Well Type	Vertical		

Test Type	CONVENTIONAL DRILLOL-STEM TEST		
Formation	DST #2 LKC 3,197' - 3,320'		
Well Fluid Type	01 Oil	Start Test Time	14:31:00
		Final Test Time	20:53:00
Start Test Date	2011/03/29		
Final Test Date	2011/03/29		
Gauge Name	1150		
Gauge Serial Number			

### Test Results

RECOVERED: 144' WM 10% WTR, 90% MUD  
124' WM 42% WTR, 58% MUD  
121' SW 100% WTR  
389' TOTAL FLUID

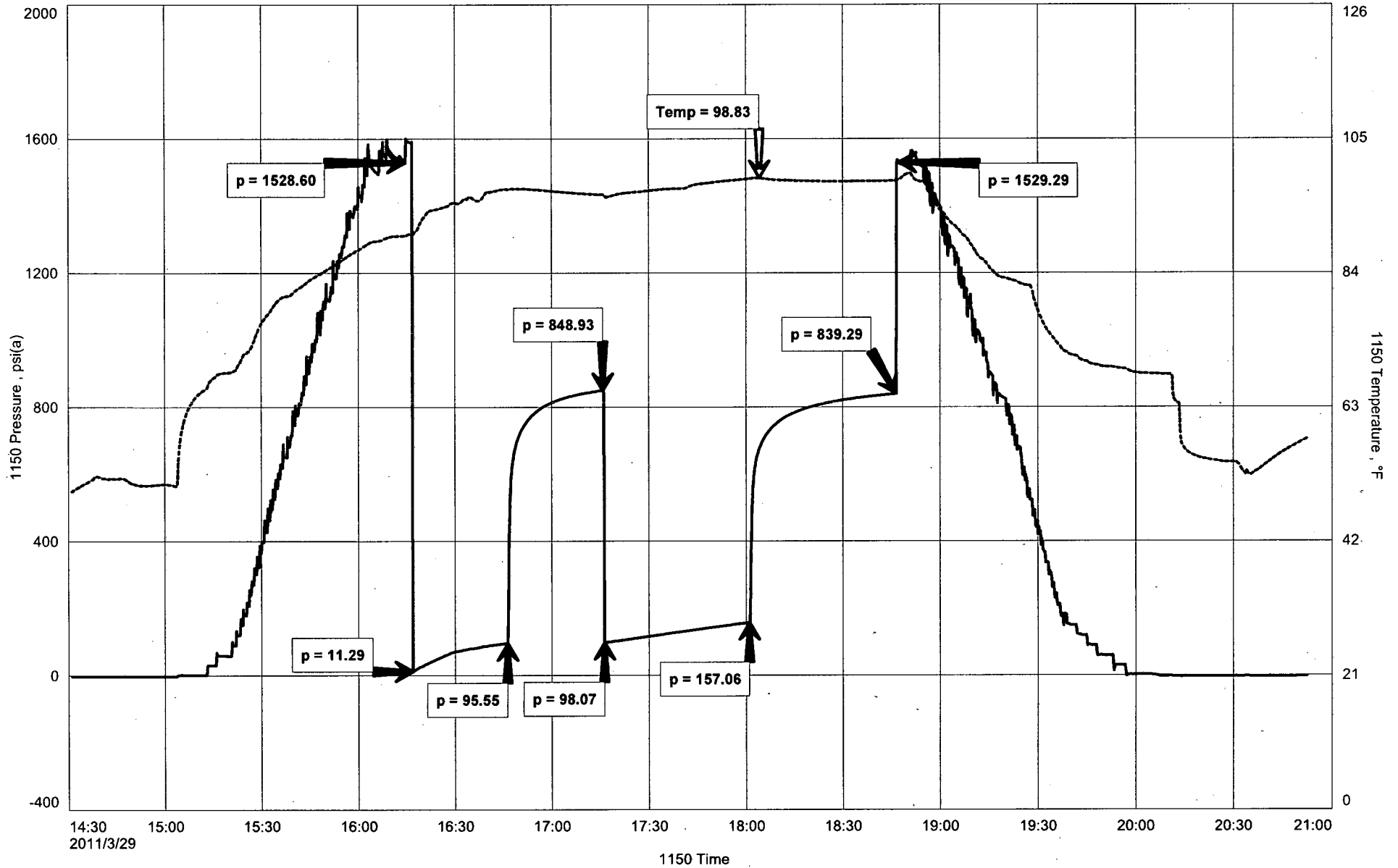
CHLORIDES 24,000 Ppm

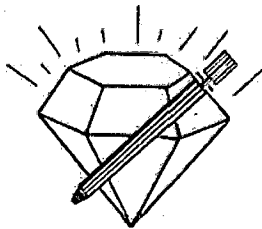
TOOL SAMPLE: 20% MUD, 80% WTR - GOOD SCUM OF OIL

L.D. DRILLING, INC.  
DST #2 LKC 3,197' - 3,320'  
Start Test Date: 2011/03/29  
Final Test Date: 2011/03/29

JACK #2-6  
Formation: DST #2 LKC 3,197' - 3,320'

# JACK #2-6





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313

CLOCK ON: 14:31

CLOCK OFF: 20:53

**DRILL-STEM TEST TICKET**

Company L.D. DRILLING, INC. Lease & Well No. JACK #2-26  
Contractor PETROMARK RIG #2 Charge to L.D. DRILLING, INC.  
Elevation 1831 EGL Formation LKC Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
Date 3.29.11 Sec. 6 Twp. 18 S Range 11 W County BARTON State KANSAS  
Test Approved By JIM MUSGROVE Diamond Representative ROGER D. FRIEDLY

Formation Test No. 2 Interval Tested from 3,197 ft. to 3,320 ft. Total Depth 3,320 ft.  
Packer Depth 3,192 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth 3,197 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3,185 ft. Recorder Number 1150 Cap. 5,000 P.S.I.  
Bottom Recorder Depth (Outside) 3,317 ft. Recorder Number 3851 Cap. 5,700 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 59 Drill Collar Length 121 ft. I.D. 2 1/4 in.  
Weight 8.7 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 2,000 P.P.M. Drill Pipe Length 3,050 ft. I.D. 3 1/2 in.  
Jars: Make BOWEN Serial Number N/A Test Tool Length 26 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 123 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st. Open: WEAK 1/2" BLOW INCREASING TO BOTTOM OF BUCKET 24 1/2 MIN (NObb)  
2nd. Open: WEAK 1/8" BLOW INCREASING TO BOTTOM OF BUCKET 27 1/2 MIN (NObb)

Recovered 144 ft. of WM 10% WTR, 90% MUD  
Recovered 124 ft. of WM 42% WTR, 58% MUD  
Recovered 121 ft. of SW 100% WTR CHLORIDES 24,000 Ppm

Recovered <u>389</u> ft. of <u>TOTAL FLUID</u>	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>20% MUD, 80% WTR - GOOD SCUM OF OIL</u>	Total

Time Set Packer(s) 4:17 P.M. A.M. P.M. Time Started Off Bottom 6:47 P.M. A.M. P.M. Maximum Temperature 99  
Initial Hydrostatic Pressure ..... (A) 1,529 P.S.I.  
Initial Flow Period ..... Minutes 30 (B) 12 P.S.I. to (C) 96 P.S.I.  
Initial Closed In Period ..... Minutes 30 (D) 849 P.S.I.  
Final Flow Period ..... Minutes 45 (E) 98 P.S.I. to (F) 157 P.S.I.  
Final Closed In Period ..... Minutes 45 (G) 839 P.S.I.  
Final Hydrostatic Pressure ..... (H) 1,529 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

## General information Report

### General Information

Company Name L.D. DRILLING, INC.

Contact	L.D. DAVIS	Job Number	
Well Name	JACK #2-6	Representative	ROGER D. FRIEDLY
Unique Well ID	DST #3 ARBUCKLE 3,315' - 3,366'	Well Operator	L.D. DRILLNG, INC.
Surface Location	SEC 6-18S-11W BARTON COUNTY, KS	Report Date	2011/03/30
Well License Number		Prepared By	ROGER D. FRIEDLU
Field	WILDCAT		
Well Type	Vertical		

Test Type	DONVENTIONAL DRILL-STEM TEST		
Formation	DST #3 ARBUCKLE 3,315' - 3,366'		
Well Fluid Type	01 Oil	Start Test Time	04:35:00
		Final Test Time	11:22:00
Start Test Date	2011/03/30		
Final Test Date	2011/03/30		
Gauge Name	1150		
Gauge Serial Number			

### Test Results

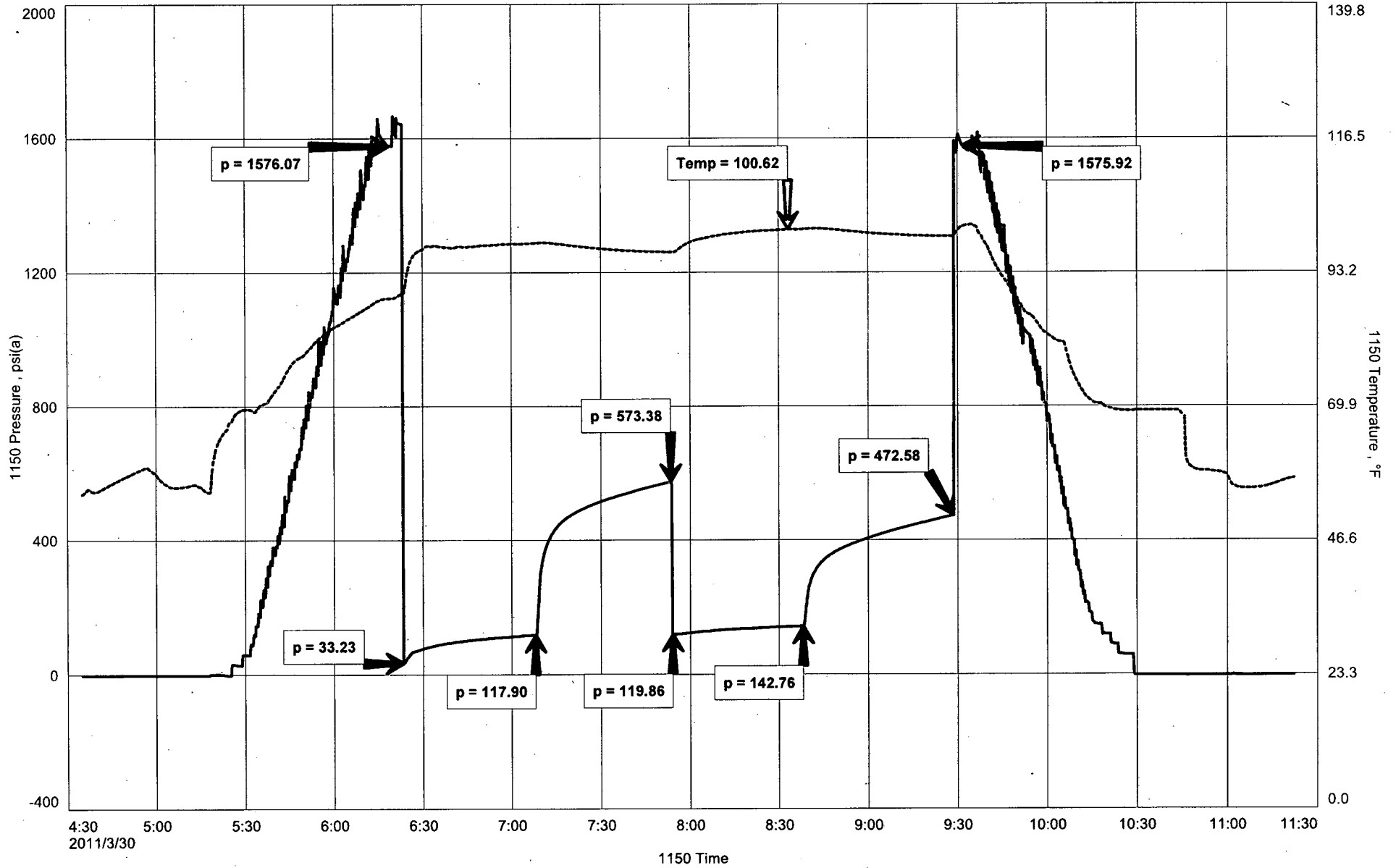
RECOVERED: 90' GAS IN PIPE  
138' CO 40 GRAVITY @ 60 deg.  
276' HG&COM 10% GAS, 38% OIL, 52% MUD  
414' TOTAL FLUID

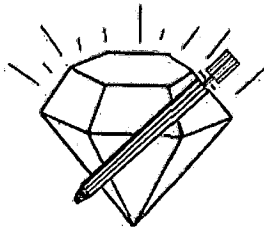
TOOL SAMPLE: 2% GAS, 65% OIL, 33% MUD

L.D. DRILLING, INC.  
DST #3 ARBUCKLE 3,315' - 3,366'  
Start Test Date: 2011/03/30  
Final Test Date: 2011/03/30

JACK #2-6  
Formation: DST #3 ARBUCKLE 3,315' - 3,366'

# JACK #2-6





**DIAMOND TESTING**  
 P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
 (800) 542-7313

CLOCK ON: 04:35

CLOCK OFF: 11:22

**DRILL-STEM TEST TICKET**

Company L.D. DRILLING, INC. Lease & Well No. JACK #2-26  
 Contractor PETROMARK RIG #2 Charge to L.D. DRILLING, INC.  
 Elevation 1831 EGL Formation ARB Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
 Date 3.30.11 Sec. 6 Twp. 18 S Range 11 W County BARTON State KANSAS

Test Approved By JIM MUSGROVE Diamond Representative ROGER D. FRIEDLY

Formation Test No. 3 Interval Tested from 3,315 ft. to 3,366 ft. Total Depth 3,366 ft.  
 Packer Depth 3,310 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Packer Depth 3,315 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3,303 ft. Recorder Number 1150 Cap. 5,000 P.S.I.  
 Bottom Recorder Depth (Outside) 3,363 ft. Recorder Number 3851 Cap. 5,700 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 56 Drill Collar Length 121 ft. I.D. 2 1/4 in.  
 Weight 9.1 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 3,800 P.P.M. Drill Pipe Length 3,168 ft. I.D. 3 1/2 in.  
 Jars: Make BOWEN Serial Number N/A Test Tool Length 26 ft. Tool Size 3 1/2-1F in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 51 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: GOOD 2" BLOW INCREASING TO BOTTOM OF BUCKET 8 MIN (F1"bb)  
 2nd Open: WEAK SURFACE BLOW INCREASING TO 7 1/4" (W 1/4" bb)

Recovered 90 ft. of GAS IN PIPE  
 Recovered 138 ft. of CLEA OIL 40 GRAVITY @ 60 deg  
 Recovered 276 ft. of HG&OCM 10% GAS, 38% OIL, 52% MUD  
 Recovered 414 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Remarks: _____	Other Charges
TOOL SAMPLE: 2% GAS, 65% OIL, 33% MUD	Insurance
	Total

Time Set Packer(s) 6:23 A.M. A.M. P.M. Time Started Off Bottom 9:23 A.M. A.M. P.M. Maximum Temperature 100  
 Initial Hydrostatic Pressure ..... (A) 1,576 P.S.I.  
 Initial Flow Period ..... Minutes 45 (B) 33 P.S.I. to (C) 118 P.S.I.  
 Initial Closed In Period ..... Minutes 45 (D) 573 P.S.I.  
 Final Flow Period ..... Minutes 45 (E) 120 P.S.I. to (F) 143 P.S.I.  
 Final Closed In Period ..... Minutes 45 (G) 473 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1,576 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

## General information Report

### General Information

Company Name L.D. DRILLING, INC.

Contact	L.D. DAVIS	Job Number	
Well Name	JACK #2-6	Representative	ROGER D. FRIEDLY
Unique Well ID	DST #4 ARBUCKLE 3,364' - 3,378'	Well Operator	L.D. DRILLING, INC.
Surface Location	SEC 6-18S-11W BARTON COUNTY, KS	Report Date	2011/03/30
Well License Number		Prepared By	ROGER D. FRIEDLY
Field	WILDCAT		
Well Type	Vertical		

Test Type	CONVENTIONAL DRILL-STEM TEST		
Formation	DST #4 ARBUCKLE 3,364' - 3,378'		
Well Fluid Type	01 Oil	Start Test Time	16:16:00
		Final Test Time	22:49:00
Start Test Date	2011/03/30		
Final Test Date	2011/03/30		
Gauge Name	1150		
Gauge Serial Number			

### Test Results

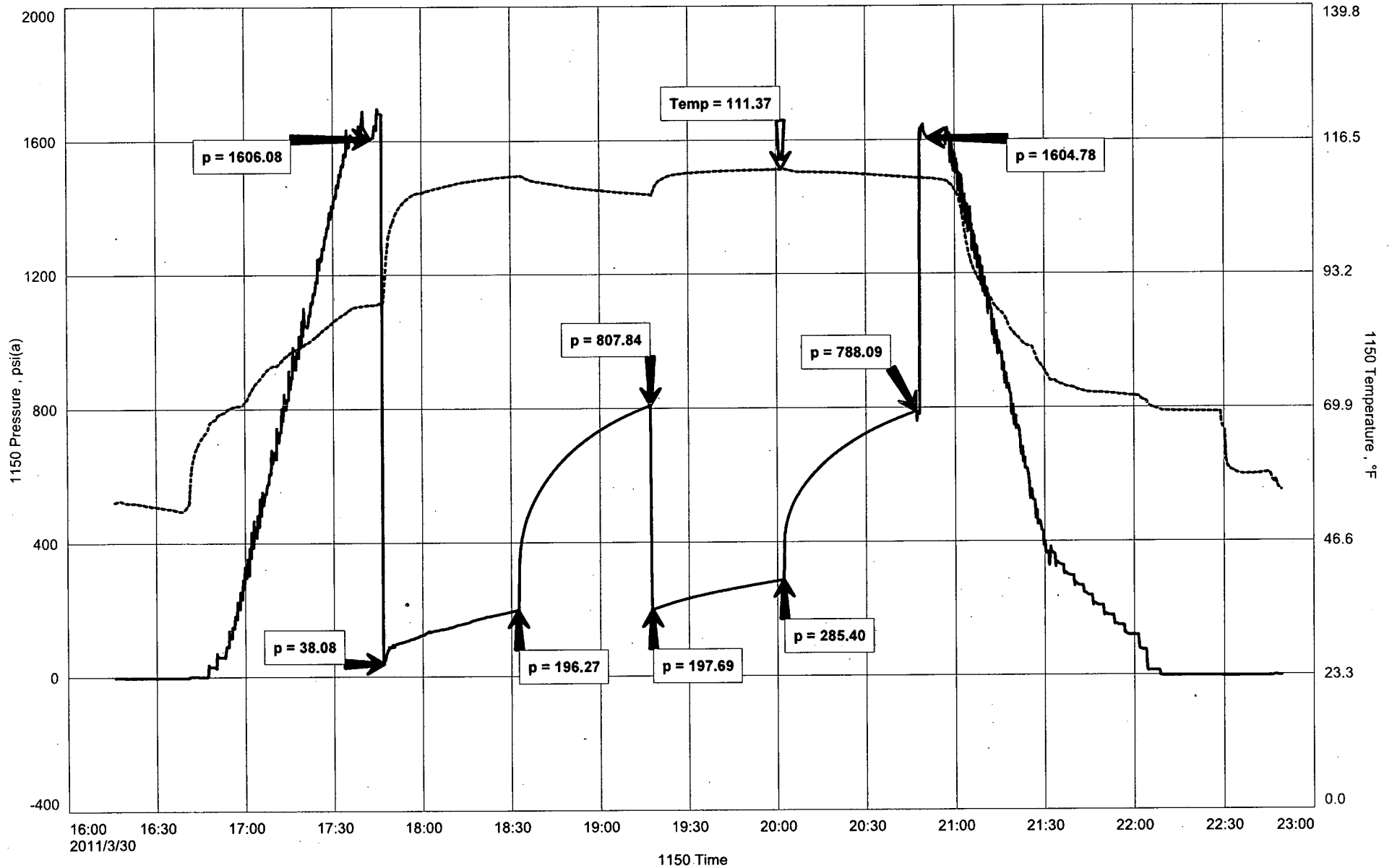
RECOVERED: 40' GAS IN PIPE  
183' CLEAN OIL 40 GRAVITY @ 60 deg.  
124' GCMO 10% GAS, 45% OIL, 45% MUD  
124' OCMW 10% OIL, 70% WTR, 20% MUD  
245' SW 100% WTR CHLORIDES 15,000 Ppm.  
682' TOTAL FLUID

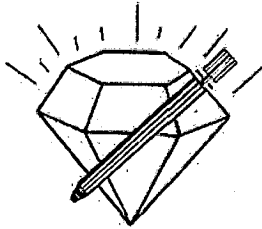
TOOL SAMPLE: 15% OIL, 70% WTR, 15% MUD

L.D. DRILLING, INC.  
DST #4 ARBUCKLE 3,364' - 3,378'  
Start Test Date: 2011/03/30  
Final Test Date: 2011/03/30

JACK #2-6  
Formation: DST #4 ARBUCKLE 3,364' - 3,378'

# JACK #2-6





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313

CLOCK ON: 16:16

CLOCK OFF: 22:49

**DRILL-STEM TEST TICKET**

Company L.D. DRILLING, INC. Lease & Well No. JACK #2-26  
Contractor PETROMARK RIG #2 Charge to L.D. DRILLING, INC.  
Elevation 1831 EGL Formation ARB Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
Date 3.30.11 Sec. 6 Twp. 18 S Range 11 W County BARTON State KANSAS  
Test Approved By JIM MUSGROVE Diamond Representative ROGER D. FRIEDLY

Formation Test No. 4 Interval Tested from 3,364 ft. to 3,378 ft. Total Depth 3,378 ft.  
Packer Depth 3,359 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth 3,364 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) \_\_\_\_\_ 3,352 ft. Recorder Number 1150 Cap. 5,000 P.S.I.  
Bottom Recorder Depth (Outside) \_\_\_\_\_ 3,375 ft. Recorder Number 3851 Cap. 5,700 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 57 Drill Collar Length 121 ft. I.D. 2 1/4 in.  
Weight 9.1 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 3,800 P.P.M. Drill Pipe Length 3,217 ft. I.D. 3 1/2 in.  
Jars: Make BOWEN Serial Number N/A Test Tool Length 26 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 14 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2<sup>XH</sup> in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: GOOD 2" BLOW INCREASING TO BOTTOM OF BUCKET 5 MIN (W 1/2"bb)  
2nd Open: fair 1" BLOW INCREASING TO BOTTOM OF BUCKET 10 MIN (bb)

Recovered 40 ft. of GAS IN PIPE  
Recovered 189 ft. of CLEAN OIL 40 GRAVITY @ 60 deg  
Recovered 124 ft. of GCMO 10% GAS, 45% OIL, 45% MUD  
Recovered 124 ft. of OCMW 10% OIL, 70% WTR, 20% MUD  
Recovered 245 ft. of SW 100% WTR CHLORIDES 15,000 Ppm  
Remarks: 682 TOTAL FLUID

Price Job	
Other Charges	
Insurance	
Total	

TOOL SAMPLE: 15% OIL, 70% WTR, 15% MUD

Time Set Packer(s) 5:47 P.M. A.M. Time Started Off Bottom 8:47 P.M. P.M. Maximum Temperature 111  
Initial Hydrostatic Pressure ..... (A) 1,606 P.S.I.  
Initial Flow Period ..... Minutes 45 (B) 38 P.S.I. to (C) 196 P.S.I.  
Initial Closed In Period ..... Minutes 45 (D) 808 P.S.I.  
Final Flow Period ..... Minutes 45 (E) 198 P.S.I. to (F) 285 P.S.I.  
Final Closed In Period ..... Minutes 45 (G) 788 P.S.I.  
Final Hydrostatic Pressure ..... (H) 1,605 P.S.I.

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