



KANSAS CORPORATION COMMISSION 1062647  
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. DAVS  
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 #: \_\_\_\_\_

<u>07/16/2011</u>	<u>07/21/2011</u>	<u>07/28/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-009-25581-00-00

Spot Description: \_\_\_\_\_  
    NW  NW  NW Sec. 10 Twp. 16 S. R. 14  East  West

330 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: POPP Well #: 1-10

Field Name: NUSS SOUTH

Producing Formation: ARBUCKLE

Elevation: Ground: 1929 Kelly Bushing: 1934

Total Depth: 3450 Plug Back Total Depth: 3420

Amount of Surface Pipe Set and Cemented at: 431 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

(Date must be collected from the Reserve Pit)

Chloride content: 5600 ppm Fluid volume: 0 bbls

Dewatering method used: Evaporated

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: Deanna Gerrits Date: 09/07/2011



1062647

Operator Name: L. D. Drilling, Inc. Lease Name: POPP Well #: 1-10  
 Sec. 10 Twp. 16 S. R. 14  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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: DUAL COMPENSATED POROSITY LOG DUAL INDUCTION LOG MICRORESISTIVITY LOG	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum Attached Attached Attached
---	--

CASING RECORD <input checked="" 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
SURFACE	12.25	8.625	23	431	60/40 POZMIX	325	2% Gel, 3% CC, .25# CF
PRODUCTION	7.875	4.5	11.6	3448	AA-2	175	10%Salt, 25%FoamReducer
PROD - RATHOLE	7.875	4.5	11.6	3448	60/40 POZMIX	30	

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
4	3292 - 3295'; 3308 - 3312'	2000 gal 28% NE Acid	
4	3330 - 3333'; 3356 - 3360'		

TUBING RECORD: Size: <u>2.375</u> Set At: <u>3417</u> Packer At: _____ Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
--

Date of First, Resumed Production, SWD or ENHR. <u>07/29/2011</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
--	---

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 <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
---	--	--

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	POPP 1-10
Doc ID	1062647

Tops

ANHYDRITE	915	+1019
BASE AHYDRITE	948	+986
TOPEKA	2844	-910
HEEBNER	3075	-1141
TORONTO	3090	-1156
LANSING	3143	-1209
BASE KANSAS CITY	3364	-1430
CONGLOMERATE	3373	-1439
ARBUCKLE	3418	-1484



**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 04332 A

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

DATE OF JOB <b>7-17-11</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>POPP</b> WELL NO. <b>1-16</b>							
ADDRESS		COUNTY <b>BARTON</b> STATE <b>KS.</b>							
CITY STATE		SERVICE CREW <b>HC, MONTANA, MCKASKLE</b>							
AUTHORIZED BY		JOB TYPE: <b>CIVIL-SURFACE</b>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<b>19417</b>		<b>19831</b>	<b>4</b>				<b>7-16</b>		<b>7:30</b>
		<b>19862</b>	<b>4</b>			ARRIVED AT JOB	<b>7-17</b>	AM	<b>01:30</b>
<b>19889</b>	<b>4</b>					START OPERATION		AM	<b>02:30</b>
<b>19842</b>	<b>4</b>					FINISH OPERATION		AM	<b>05:00</b>
						RELEASED		AM	<b>05:30</b>
						MILES FROM STATION TO WELL			<b>25</b>

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 POL	SA.	325		3900.00
CC102	CELLULASE	LB.	87		303.45
CC109	CALCIUM CHLORIDE	LB.	840		840.00
CF153	8 3/8 WOOD PLUG	EA.	1		160.00
E100	FRUIT HOLE	mile	75		318.75
E101	TRUCK RENTAL	mile	150		1050.00
E113	BLIND DELIVERY	TW	1050		1680.00
CE200	PLUG CHARGE	EA.	1		1000.00
CE240	BLENDED CHARGE	SK	325		455.00
CE504	PLUG CONTAINER	EA.	1		250.00
5003	SERVICE SUPERVISOR	EA.	1		175.00
SUB TOTAL					<b>8037.50</b>

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE <b>K. GORDLEY</b>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <b>Jim Miller</b>
--	---

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

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer <b>LD DRILLING</b>	Lease No.	Date <b>7-17-11</b>
Lease <b>POPP</b>	Well # <b>1-10</b>	
Field Order # <b>4332</b>	Station <b>PRATT, KS</b>	Casing <b>8 5/8</b>
	Depth <b>431</b>	County <b>PRATT</b>
Type Job <b>CMW - SURFACE</b>	Formation <b>433-TD</b>	State <b>KS</b>
		Legal Description <b>10-16-14</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<b>8 5/8</b>								5 Min.
Depth <b>431</b>	Depth	From	To	Pre Pad	Max			
Volume	Volume	From	To	Pad	Min			10 Min.
Max Press	Max Press	From	To	Frac	Avg			15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume			Total Load

Customer Representative <b>LD</b>	Station Manager <b>SCOTT</b>	Treater <b>GORSLEY</b>
Service Units <b>14907</b>	<b>19889-19842</b>	<b>19838-19862</b>
Driver Names <b>LOG</b>	<b>MASTAL</b>	<b>WICKSLEY</b>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<b>0130</b>					<b>ON LOCATION</b>
					<b>RAN 421 8 5/8 CSC - 10.75</b>
					<b>THE BOTTOM - PRATT WIRE</b>
					<b>MIX CEMENT</b>
<b>0250</b>	<b>200</b>		<b>70</b>	<b>6</b>	<b>375 SK 60/40 PDZ</b>
					<b>24.0ER, 3% CC, 1/4" CELLFIBRE</b>
					<b>STOP - RELEASE WOOD PLUG</b>
	<b>0</b>		<b>0</b>	<b>6</b>	<b>START DESP.</b>
<b>0300</b>	<b>200</b>		<b>26</b>	<b>6</b>	<b>PLUG DOWN</b>
					<b>CAVE IN bbl. CEMENT</b>
					<b>TO PRT</b>
<b>6330</b>					<b>JOB COMPLETE KEVIN</b>



**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 04384 A

10-165-14W

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

DATE OF JOB <u>7-22-11</u> DISTRICT <u>Pratt, 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, Incorporated</u>		LEASE <u>Popp</u> WELL NO. <u>1-10</u>								
ADDRESS		COUNTY <u>Barton</u> STATE <u>Kansas</u>								
CITY STATE		SERVICE CREW <u>C. Messick: L. Wisel: J. Brungardt</u>								
AUTHORIZED BY		JOB TYPE: <u>C.N.W. Longstrung</u>								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<u>37216</u>	<u>1</u>						<u>7-22-11</u>			<u>2:30</u>
						ARRIVED AT JOB				<u>6:00</u>
<u>27463</u>	<u>1</u>					START OPERATION				<u>9:00</u>
						FINISH OPERATION				<u>10:00</u>
<u>19.832-21010</u>	<u>1</u>					RELEASED	<u>7-22-11</u>			<u>10:30</u>
						MILES FROM STATION TO WELL				<u>75</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
P CP 105	AA2 Blend Cement	Skr	175		\$ 2975 00
P CP 103	60/40 Poz. Blend Cement	Skr	30		\$ 360 00
P CC 102	Cellulose	Lb	44		\$ 162 80
P CC 105	Deframer	Lb	42		\$ 168 00
P CC 111	Salt (Fine)	Lb	797		\$ 398 50
P CC 112	Cement Friction Reducer	Lb	50		\$ 300 00
P CC 115	Gas Block	Lb	165		\$ 849 75
P CC 201	Gilsonite	Lb	875		\$ 586 25
P CF 102	Top Rubber Plug, 4 1/2"	ea	1		\$ 80 00
P CF 250	Regular Guide Shoe, 4 1/2"	ea	1		\$ 225 00
P CF 1450	Insert Float Valve, 4 1/2"	ea	1		\$ 200 00
P CF 1650	Turbolizer, 4 1/2"	ea	6		\$ 510 00
P CC 151	Mud Flush	Gal	1,000		\$ 860 00

SUB TOTAL

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE \_\_\_\_\_ THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: \_\_\_\_\_

(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 04385 A

10-165-14W

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

DATE OF JOB T-22-11 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 Popp		WELL NO. 1-10	
ADDRESS				COUNTY Barton		STATE Kansas	
CITY STATE				SERVICE CREW C. Messick; L. Wiser; T. Bindgardt			
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).

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 E 100	Pickup Mileage	mi	75		\$ 318 75
P E 101	Heavy Equipment Mileage	mi	150		\$ 1,050 00
P E 113	Bulk Delivery	tm	716		\$ 1,146 00
P CE 204	Cement Pump; 3,000 Feet To 4,000 Feet	hrs	4		\$ 2,160 00
P CE 240	Blending and Mixing Service	sh	205		\$ 287 00
P CE 504	Plug Container	Job	1		\$ 250 00
P 5003	Service Supervisor	hrs	8		\$ 175 00

SUB TOTAL \$ 10,319.22

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE <i>[Signature]</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>[Signature]</i>
---	--

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer L.D. Drilling, Incorporated	Lease No.	Date 7-22-11
Lease Popp	Well # 1-10	
Field Order # 4384	Station Pratt, Kansas	Casing 4 1/2" 11.6 lb.
Type Job C.N.W. - Longstring	Depth 3448 Feet	County Barton
	Formation	State Kansas
		Legal Description 10-165-14W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 4 1/2"	Tubing Size 1 1/2"	Shots/Ft 175 sacks	Cement AA 2 with	Rate 58 F/LM	Press 322	Slip 3/8"	Friction Reducer	
Depth 3448 Feet	Depth	From	To 258'	Max 108 Salt	5 LB/st. Gels	5 Min.	25 LB/st. Filter	
Volume 33.9 Bbl.	Volume	From	To 15.3 Bbl.	Min 1.36 G.P.T./st		10 Min.		
Max Press 1700 P.S.I.	Max Press	From	To	Avg		15 Min.		
Well Connection 1 1/2" casing	Annulus Vol.	From	To 30 sacks	MHP Used 1/2" Rat Hole		Annulus Pressure		
Plug Depth 342 Feet	Packer Depth	From	To	Flush 53 Bbl. Fresh Water	Gas Volume	Total Load		

Customer Representative Jim Nichols	Station Manager David Scott	Treater Clarence R. Messick
--	--------------------------------	--------------------------------

Service Units	37,216	27,463	19,832	21,010					
Driver Names	Messick	Wiser	Brungardt						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:00					Trucks on location and hold safety meeting.
6:30					Petromark Drilling start to run Regular Guide Shoe. Shoe Joint with Auto Fill Insert screwed into collar and a total of 79 Joints now 11.6 lb./ft. 4 1/2" casing. A Turbulator was installed on collars # 1, 3, 5, 7, 9, and # 11.
8:00					Casing in well. Circulate for 1 Hour.
9:06	3500				Shut in well. Pressure Test. Open Well.
9:08	300			6	Start Fresh Water Pre-Flush.
	350		20	6	Start Mud Flush.
	400		44	6	Start Fresh Water Spacer.
9:20	500		64	5	Start mixing 175 sacks AA 2 cement.
	-0-		106		Stop pumping. Shut in well. Wash pump and lines. Release Top Rubber Plug. Open Well.
9:31	100			6.5	Start Fresh Water Displacement.
			37	5	Start to lift cement.
9:40	600		53		Plug down.
	1700				Pressure up.
					Release pressure. Insert held.
	-0-		7	3	Plug Rat Hole.
					Wash up pump truck
10:30					Job Complete.
					Thank You
					Clarence Lucas, Treater





Office (820) 588-4250 212 Main St. • P.O. Box 215 • Clarin, KS 67525 Home (820) 587-3444  
 James C. Musgrove  
 Petroleum Geologist

# GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY LD Drilling Inc.  
 LEASE Rapp # 110  
 FIELD Miss South  
 LOCATION 7W-14W-14N  
 SEC 10 T15P 16 S RGE 14 W  
 COUNTY Barton STATE Kansas  
 CONTRACTOR Patnamark Drilling Co (rig # 2)  
 SPUD 7-16-2011 COMP 7-22-2011  
 RTD 2450 LTD 3449  
 MAID UP 2700 TYPE MUD Chemical  
 SAMPLES SAVED FROM 2820 TO 2820  
 DRILLING TIME KEPT FROM 2500 TO 2500  
 SAMPLES EXAMINED FROM 2820 TO 2820  
 GEOLOGICAL SUPERVISION FROM 2970 TO 2970  
 GEOLOGIST ON WELL Jim Musgrove

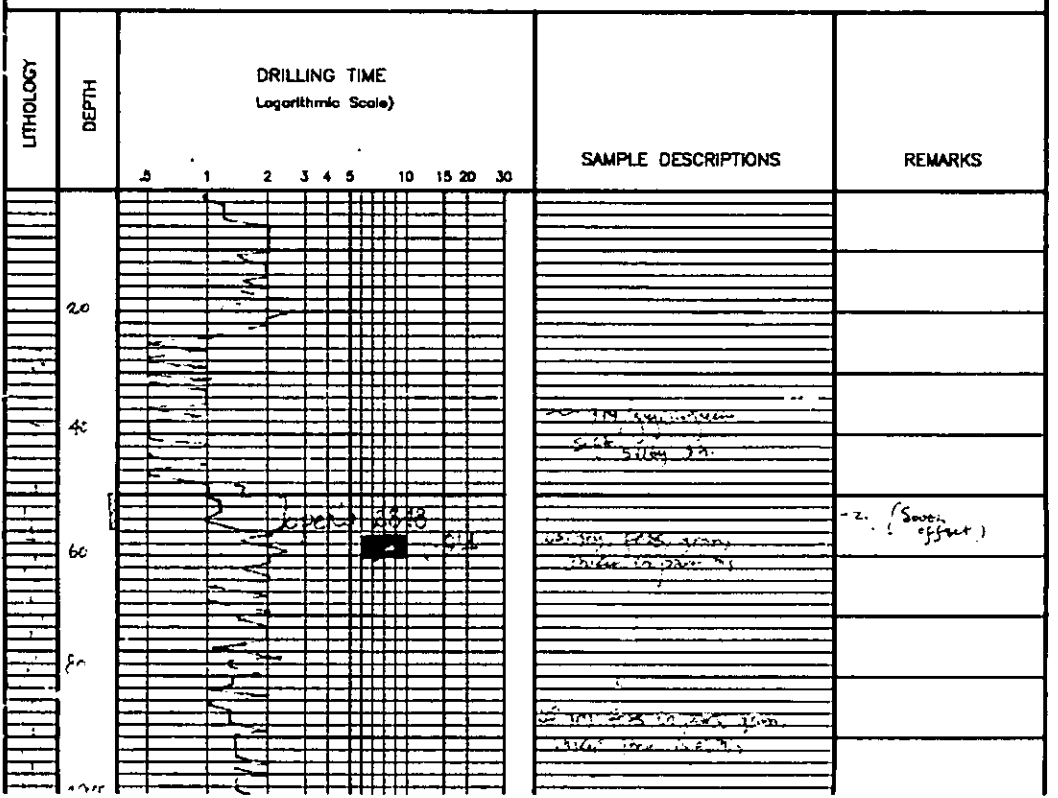
ELEVATIONS  
 KB 1934  
 DF  
 GL 1929  
 Measurements Are All From X-B-  
 CASING SURFACE 2320 42L  
 PRODUCTION 47' e  
 ELECTRICAL SURVEYS By log tech Dist. Ind. by Comp. Dist. Ind. by field

FORMATION TOPS	LOG	SAMPLES
3000	915	109
2970	970	106
2940	2877	910
2910	8075	-141
2880	8090	-115
2850	8143	-109
2820	8364	-130
2790	8373	-139
2760	8710	-142
2730	8450	-156
2700	8727	-152

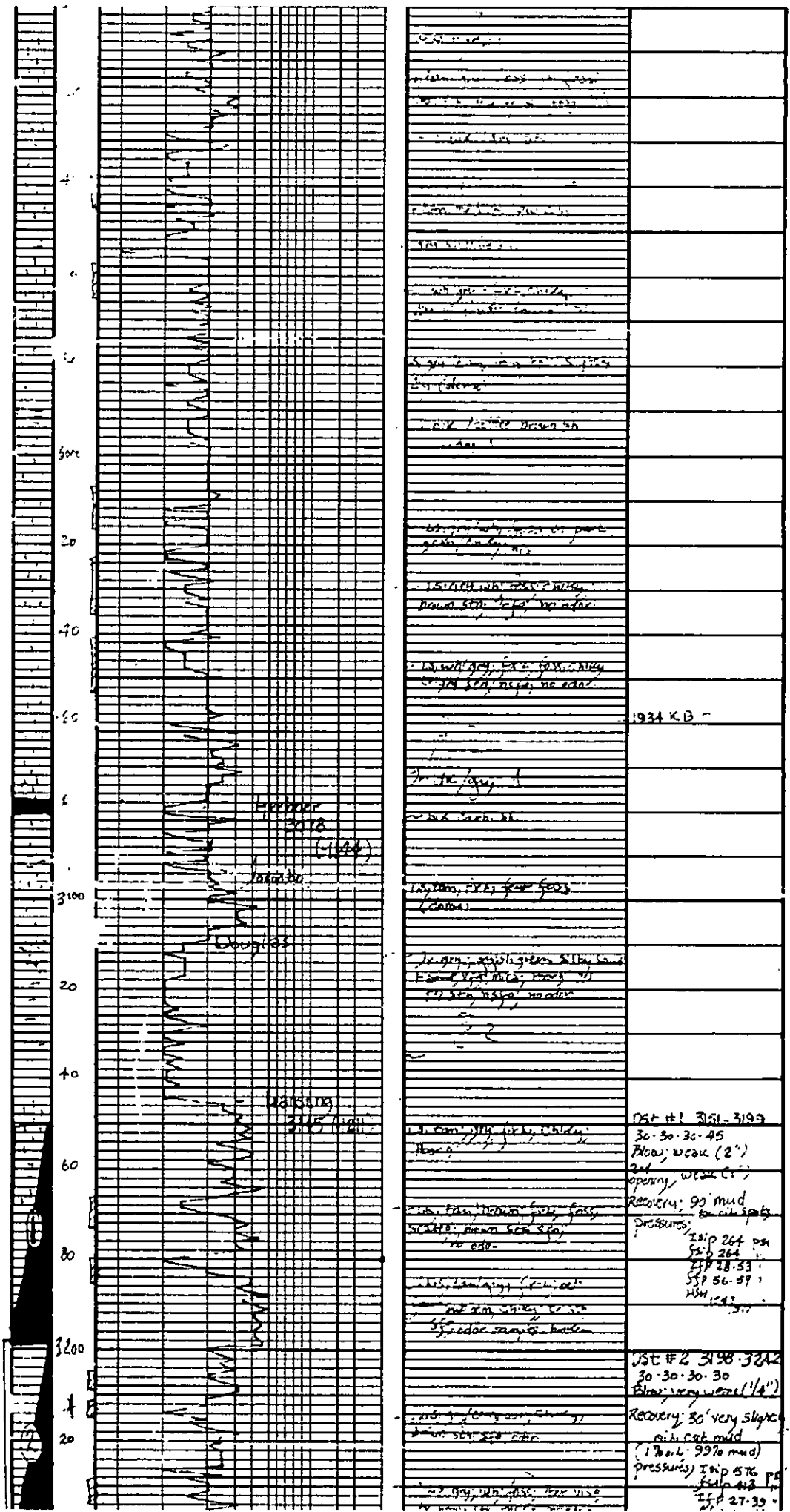
REMARKS  
 4 1/2" production casing was set and cemented.  
 Respectfully submitted,  
 James C. Musgrove  
 Petroleum Geologist

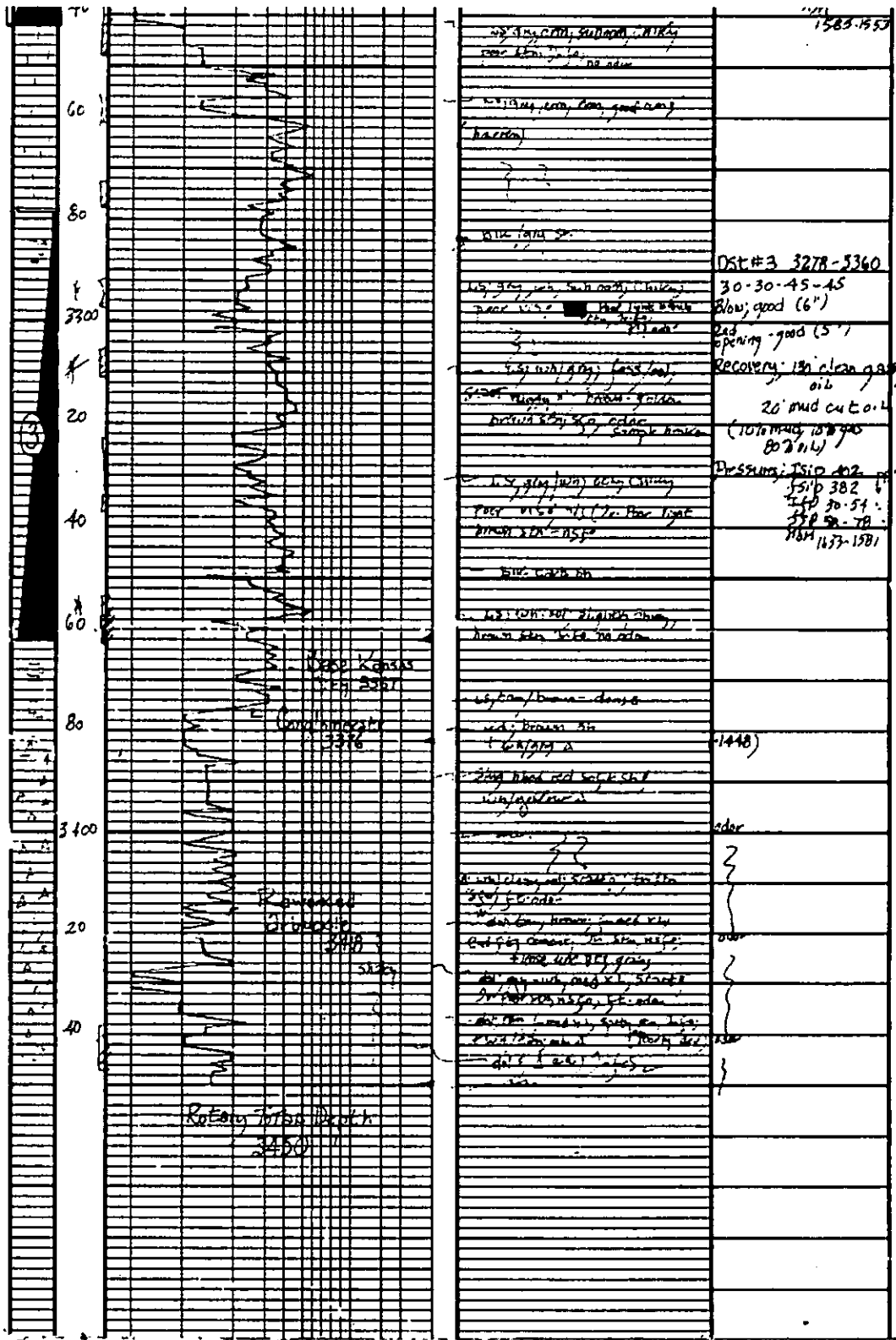
**LEGEND**

Anhydrite	Salt	Sandstone	Shale	Carb sh	Limestone	Cof. Lime	Chert	Dolomite



2022 001





## GENERAL INFORMATION

### Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

### Site Information:

Contact: JIM MUSGROVE

Phone: Fax: e-mail:

### Well Information:

Name: POPP 1-10

Operator: L D DRILLING INC

Location-Downhole:

Location-Surface: S10/16S/14W

### Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JIM MUSGROVE

Test Type: CONVENTIONAL Job Number: D995

Test Unit:

Start Date: 2011/07/20 Start Time: 00:30:00

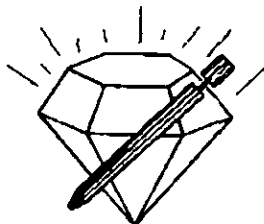
End Date: 2011/07/20 End Time: 05:50:00

Report Date: 2011/07/20 Prepared By: JOHN RIEDL

Qualified By: JIM MUSGROVE

### Remarks:

RECOVERY: 90' DRILLING MUD IN DRILL COLLARS



# DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544  
(620) 653-7550 • (800) 542-7313

ON 00:30 7/20/11

OFF 05:50 7/20/11

## DRILL-STEM TEST TICKET

STC/POpp1-10dst1

Company L D DRILLING INC Lease & Well No. POPP 1-10  
 Contractor PETROMARK DRLG RIG 2 Charge to L D DRILLING INC  
 Elevation 1934 K.B Formation LANSING Effective Pay \_\_\_\_\_ Ft. Ticket No. D995  
 Date 7/20/11 Sec. 10 Twp. 16 S Range 14 W County BARTON State KANSAS  
 Test Approved By BOB STOLZLE Diamond Representative JOHN C. RIEDL

Formation Test No. 4 Interval Tested from 3151 ft. to 3199 ft. Total Depth 3199 ft.  
 Packer Depth 3146 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Packer Depth 3151 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.

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

Top Recorder Depth (Inside) 3154 ft. Recorder Number 30046 Cap. 3166 P.S.I.  
 Bottom Recorder Depth (Outside) 3196 ft. Recorder Number 11073 Cap. 4000 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 47 Drill Collar Length 120 ft. I.D. 2 1/4 in.  
 Weight 8.8 Water Loss 8.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 2,700 P.P.M. Drill Pipe Length 3009 ft. I.D. 3 1/2 in.  
 Jars: Make BOWEN Serial Number NOT USED Test Tool Length 22 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 48 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 (BUILT THROUGHOUT TO 2") NO BB  
 2nd Open: WEAK ( 1" ) NO BB

Recovered 90 ft. of DRILLING MUD  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>TOTAL FLUID RECOVERY: 90' IN DRILL COLLARS</u>	Insurance
_____	Total

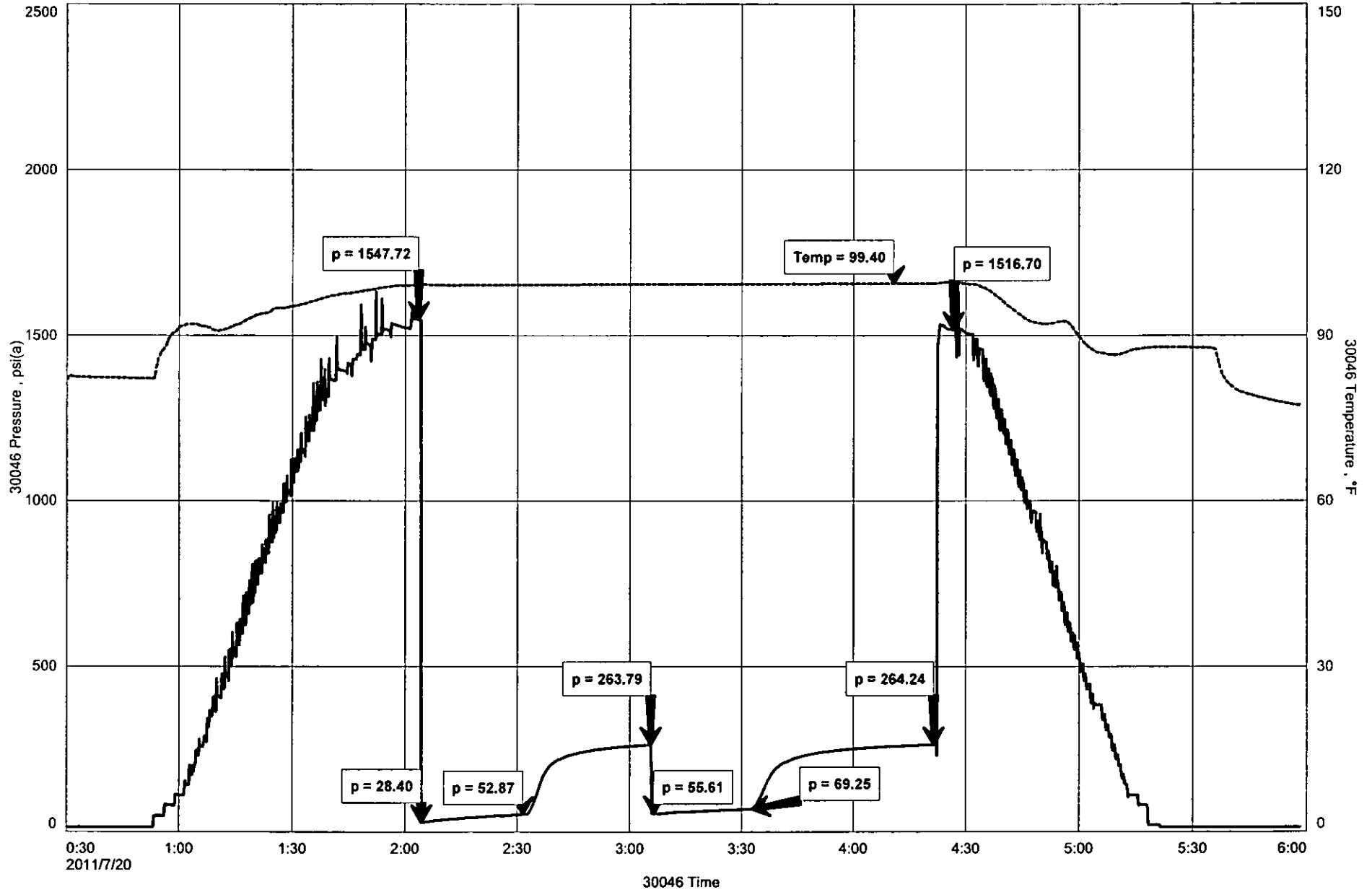
Time Set Packer(s) 2:05 A.M A.M. P.M. Time Started Off Bottom 4:20 A.M A.M. P.M. Maximum Temperature 99  
 Initial Hydrostatic Pressure ..... (A) 1547 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 28 P.S.I. to (C) 53 P.S.I.  
 Initial Closed In Period ..... Minutes 30 (D) 264 P.S.I.  
 Final Flow Period ..... Minutes 30 (E) 56 P.S.I. to (F) 69 P.S.I.  
 Final Closed In Period ..... Minutes 45 (G) 264 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1517 P.S.I.

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

L D DRILLING INC  
Start Test Date: 2011/07/20  
Final Test Date: 2011/07/20

POPP 1-10  
Formation: LANSING "B"  
Job Number: D995

# POPP 1-10



## GENERAL INFORMATION

### Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

### Site Information:

Contact: JIM MUSGROVE

Phone: Fax: e-mail:

### Well Information:

Name: POPP 1-10

Operator: L D DRILLING INC

Location-Downhole:

Location-Surface: S10/16S/14W

### Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JIM MUSGROVE

Test Type: CONVENTIONAL Job Number: D996

Test Unit:

Start Date: 2011/07/20 Start Time: 12:00:00

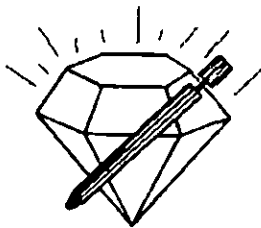
End Date: 2011/07/20 End Time: 16:30:00

Report Date: 2011/07/20 Prepared By: JOHN RIEDL

Qualified By: JIM MUSGROVE

### Remarks:

RECOVERY: 30' VERY SLIGHTLY OIL CUT MUD IN COLLARS



# DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544  
(620) 653-7550 • (800) 542-7313

ON 12:00 7/20/11

OFF 16:30 7/20/11

## DRILL-STEM TEST TICKET

STC/POpp1-10dst2

Company L D DRILLING INC Lease & Well No. POPP 1-10  
 Contractor PETROMARK DRLG RIG 2 Charge to L D DRILLING INC  
 Elevation 1934 K.B Formation LANSING Effective Pay \_\_\_\_\_ Ft. Ticket No. D996  
 Date 7/20/11 Sec. 10 Twp. 16 S Range 14 W County BARTON State KANSAS  
 Test Approved By JIM MUSGROVE Diamond Representative JOHN C. RIEDL

Formation Test No. 2 Interval Tested from 3198 ft. to 3242 ft. Total Depth 3242 ft.  
 Packer Depth 3193 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Packer Depth 3198 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.

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

Top Recorder Depth (Inside) 3201 ft. Recorder Number 30046 Cap. 6000 P.S.I.  
 Bottom Recorder Depth (Outside) 3239 ft. Recorder Number 11073 Cap. 4000 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 56 Drill Collar Length 120 ft. I.D. 2 1/4 in.  
 Weight 9 Water Loss 8.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 5,600 P.P.M. Drill Pipe Length 3056 ft. I.D. 3 1/2 in.  
 Jars: Make BOWEN Serial Number NOT USED Test Tool Length 22 ft. Tool Size 3 1/2-1F in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 44 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: VERY WEAK (1/4") NO BB  
 2nd Open: VERY WEAK DEAD 10 MINUTES

Recovered 30 ft. of VSLOCM (1%OIL 99%MUD)  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>TOTAL FLUID RECOVERY: 30' IN DRILL COLLARS</u>	Insurance
	Total

Time Set Packer(s) 1:10 P.M A.M. P.M. Time Started Off Bottom 3:10 P.M A.M. P.M. Maximum Temperature 96  
 Initial Hydrostatic Pressure ..... (A) 1525 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 27 P.S.I. to (C) 39 P.S.I.  
 Initial Closed In Period ..... Minutes 30 (D) 576 P.S.I.  
 Final Flow Period ..... Minutes 30 (E) 42 P.S.I. to (F) 49 P.S.I.  
 Final Closed In Period ..... Minutes 30 (G) 413 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1553 P.S.I.

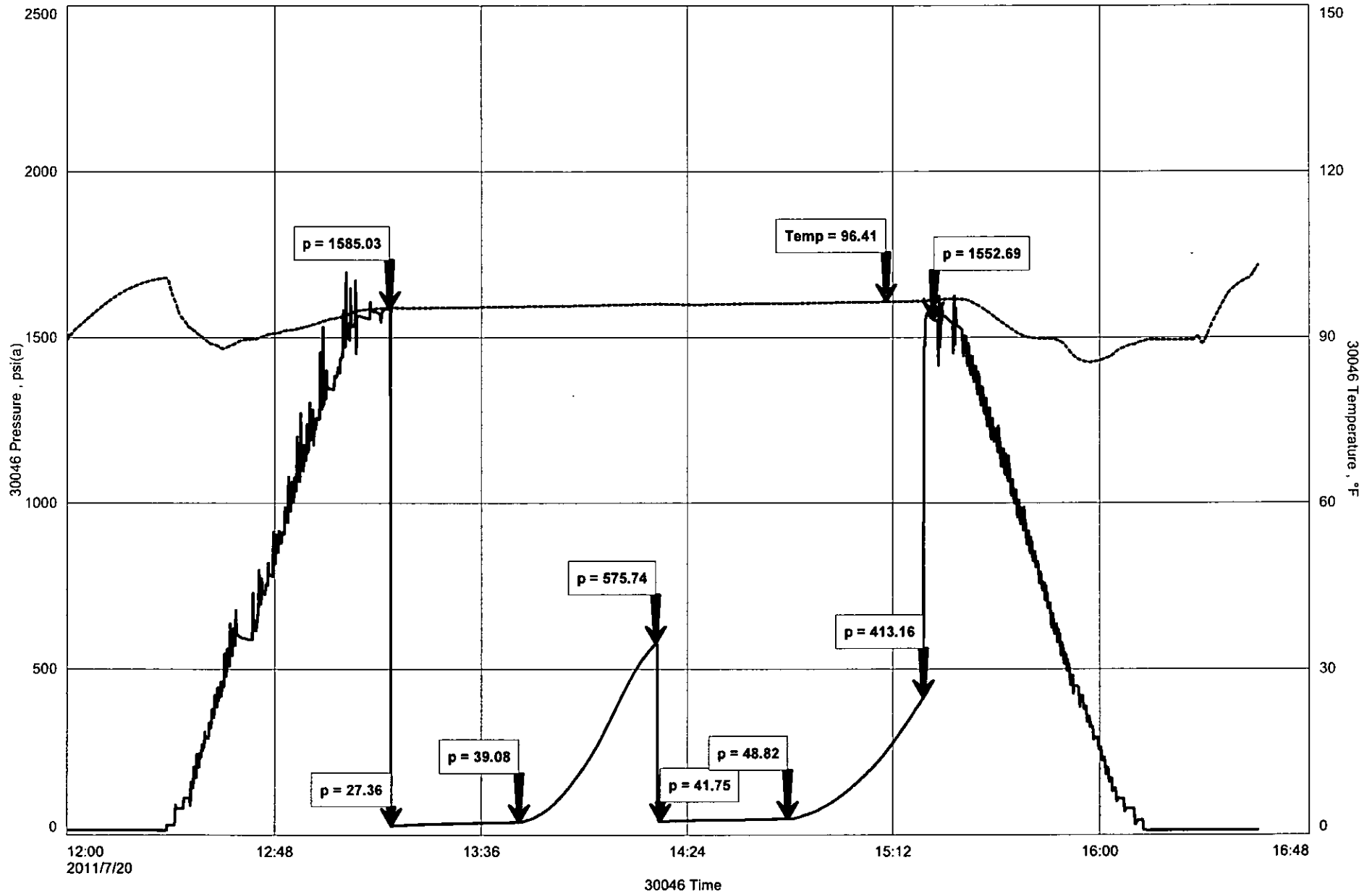
Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged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



L D DRILLING INC  
Start Test Date: 2011/07/20  
Final Test Date: 2011/07/20

POPP 1-10  
Formation: LANSING  
Job Number: D996

# POPP 1-10



## GENERAL INFORMATION

### Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

### Site Information:

Contact: JIM MUSGROVE

Phone: Fax: e-mail:

### Well Information:

Name: POPP 1-10

Operator: L D DRILLING INC

Location-Downhole:

Location-Surface: S10/16S/14W

### Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JIM MUSGROVE

Test Type: CONVENTIONAL Job Number: D997

Test Unit:

Start Date: 2011/07/21 Start Time: 04:40:00

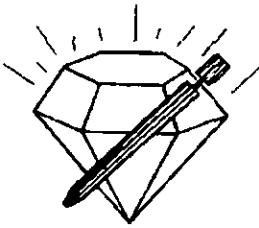
End Date: 2011/07/21 End Time: 10:10:00

Report Date: 2011/07/21 Prepared By: JOHN RIEDL

Qualified By: JIM MUSGROVE

### Remarks:

RECOVERY: 130' GASSY OIL, 20' MUDCUT GASSY OIL



# DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544  
(620) 653-7550 • (800) 542-7313

ON 04:40 7/21/11

OFF 10:10 7/21/11

## DRILL-STEM TEST TICKET

STC/POpp1-10dst3

Company L D DRILLING INC Lease & Well No. POPP 1-10  
 Contractor PETROMARK DRLG RIG 2 Charge to L D DRILLING INC  
 Elevation 1934 K.B Formation LKC Effective Pay \_\_\_\_\_ Ft. Ticket No. D997  
 Date 7/21/11 Sec. 10 Twp. 16 S Range 14 W County BARTON State KANSAS  
 Test Approved By JIM MUSGROVE Diamond Representative JOHN C. RIEDL

Formation Test No. 3 Interval Tested from 3278 ft. to 3360 ft. Total Depth 3360 ft.  
 Packer Depth 3273 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Packer Depth 3278 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) \_\_\_\_\_ 3281 ft. Recorder Number 30046 Cap. 6000 P.S.I.  
 Bottom Recorder Depth (Outside) \_\_\_\_\_ 3357 ft. Recorder Number 11073 Cap. 4000 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 56 Drill Collar Length 120 ft. I.D. 2 1/4 in.  
 Weight 9 Water Loss 8.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 5,600 P.P.M. Drill Pipe Length 3218 ft. I.D. 3 1/2 in.  
 Jars: Make BOWEN Serial Number NOT USED Test Tool Length 22 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 82 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 (BUILT THROUGHOUT TO 6") NO BB  
 2nd Open: GOOD (BUILT THROUGHOUT TO 5") NO BB

Recovered 90 ft. of GAS IN PIPE  
 Recovered 130 ft. of CGO (15%GAS 85%OIL)  
 Recovered 20 ft. of MGO (10%MUD 10%GAS 80%OIL)

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>TOTAL FLUID RECOVERY: 150' (30' IN DRILL PIPE, 120' DRILL COLLARS)</u>	Insurance
_____	Total

Time Set Packer(s) 6:25 A.M. A.M. P.M. Time Started Off Bottom 8:55 A.M. A.M. P.M. Maximum Temperature 99  
 Initial Hydrostatic Pressure ..... (A) 1633 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 30 P.S.I. to (C) 54 P.S.I.  
 Initial Closed In Period ..... Minutes 30 (D) 402 P.S.I.  
 Final Flow Period ..... Minutes 45 (E) 58 P.S.I. to (F) 78 P.S.I.  
 Final Closed In Period ..... Minutes 45 (G) 382 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1581 P.S.I.

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

L D DRILLING INC  
Start Test Date: 2011/07/21  
Final Test Date: 2011/07/21

POPP 1-10  
Formation: LKC  
Job Number: D997

# POPP 1-10

