



KANSAS CORPORATION COMMISSION 1088543  
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: KIM SHOEMAKER  
Purchaser: MV 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 #:  
06/01/2012 06/07/2012 06/11/2012  
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 15-009-25682-00-00  
Spot Description:  
NE NE SE Sec. 36 Twp. 20 S. R. 13  East  West  
2310 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: SHARP Well #: 1-36  
Field Name: ROLLING GREEN EAST  
Producing Formation: ARBUCKLE  
Elevation: Ground: 1859 Kelly Bushing: 1860  
Total Depth: 3630 Plug Back Total Depth:  
Amount of Surface Pipe Set and Cemented at: 375 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: 9000 ppm Fluid volume: 800 bbls  
Dewatering method used: Hauled to Disposal  
Location of fluid disposal if hauled offsite:  
Operator Name: L. D. DRILLING, INC.  
Lease Name: DAVIS RANCH OWWD License #: 6039  
Quarter NW Sec. 14 Twp. 21 S. R. 12  East  West  
County: STAFFORD Permit #: D30736

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 Gerritsor Date: 07/30/2012



1088543

Operator Name: L. D. Drilling, Inc. Lease Name: SHARP Well #: 1-36  
 Sec. 36 Twp. 20 S. R. 13  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  <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>ANHYDRITE</td> <td>677</td> <td>1183</td> </tr> <tr> <td>HEEBNER</td> <td>3084</td> <td>-1224</td> </tr> <tr> <td>BROWN LIME</td> <td>3207</td> <td>-1347</td> </tr> <tr> <td>LANSING</td> <td>3220</td> <td>-1360</td> </tr> <tr> <td>BASE KANSAS CITY</td> <td>3433</td> <td>-1573</td> </tr> <tr> <td>ARBUCKLE</td> <td>3484</td> <td>-1624</td> </tr> </tbody> </table>	Name	Top	Datum	ANHYDRITE	677	1183	HEEBNER	3084	-1224	BROWN LIME	3207	-1347	LANSING	3220	-1360	BASE KANSAS CITY	3433	-1573	ARBUCKLE	3484	-1624
Name	Top	Datum																				
ANHYDRITE	677	1183																				
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LANSING	3220	-1360																				
BASE KANSAS CITY	3433	-1573																				
ARBUCKLE	3484	-1624																				

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
Attached	Attached	Attached	Attached	Attached	Attached	Attached	Attached

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	3492 - 3495'; 3483 - 3486'	1500 gal 28% HCL	
4	3474 - 3478'		

TUBING RECORD: Size: <u>2.375</u> Set At: <u>3620</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>06/11/2012</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)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	SHARP 1-36
Doc ID	1088543

Casing

Purpose Of String	Size Hole Drilled	Size Casing Sel	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
SURFACE	12.25	8.625	24	375	A-CON BLEND	175	
SURFACE CONT	12.25	8.625	24	375	COMMON	175	3% CC, 2% Gel, 1/4# CF
PRODUCTION	7.875	5.5	14	3629	AA-2 COMMON	150	18% Salt, 2% CalSet
RATHOLE	7.875	5.5	14	3629	60/40 POZMIX	30	







**BASIC**  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET

1718-06355 A

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

DATE OF JOB: <u>6/8/12</u>	DISTRICT: <u>PRATT, KS</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>LD DRILLING, INC.</u>	LEASE: <u>SHARP</u>	WELL NO. <u>1-36</u>							
ADDRESS:	COUNTY: <u>BARTON</u>	STATE: <u>KS</u>							
CITY:	SERVICE CREW: <u>KG, KEVEN, JOE</u>								
AUTHORIZED BY:	JOB TYPE: <u>CNW - LOW STRONG</u>								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>19907</u>							<u>6-7</u>		<u>1800</u>
						ARRIVED AT JOB:	<u>6-7</u>		<u>2030</u>
<u>27463</u>	<u>1</u>					START OPERATION	<u>6-8</u>		<u>7400</u>
						FINISH OPERATION	<u>6-8</u>		<u>2430</u>
<u>70959</u>	<u>1</u>					RELEASED	<u>6-8</u>		<u>0130</u>
<u>19918</u>						MILES FROM STATION TO WELL	<u>45</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
CF100C	COMMON CEMENT	SK	150		2400.00
CF103	401-40 P02	SK	165		780.00
CC111	SALT	lb	1268		634.00
CC113	GYP SUM	lb	705		528.75
CC129	FLA-322	lb	141		1057.50
CC201	GASONITE	lb	750		502.50
CF103	5/16 TOP RUBBER PLUG	EA	1		105.00
CF251	5/16 GUIDE SHOE	EA	1		250.00
CF1451	5/16 API INSERT FLDM	EA	1		215.00
CF1651	5/16 TURBO BLEZL	EA	6		660.00
E100	PERKIN UTILITY	mile	45		191.25
E101	TRUCK MILEAGE	mile	96		630.00
E113	PAID DELIVERY	TM	443		709.20
CE204	DEPTH CHARGE 3001-4000	EA	1		2166.00
CE240	BLAND FWC CHARGE	SK	215		361.00
CE504	RING CONTROLLER	EA	1		250.00
S003	SERVICE SUPERVISOR	EA	1		175.00

SUB TOTAL 8772.39

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

CHEMICAL / ACID DATA:			

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

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

# BASIC

energy services, L.P.

## TREATMENT REPORT

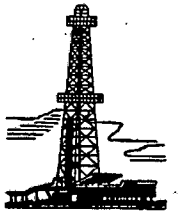
Customer	LD DRILLING, INC			Lease No.	DRC		Date	6-8-12	
Lease	SHARP			Well #	1-36				
Field Order #	Station	Casing	Depth	County	State				
6355	PRATT, KS	5 1/2	3629	BARTON	KS				
Type Job	CWIN-LONGSTRONG			Formation	TD-3630		Legal Description 36-20-13		

PIPE DATA		PERFORATING DATA		FLUID USED		LTD-3628 TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5 1/2								
Depth	Depth	From	To	Pre Pad	Max		5 Min.	
3629								
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	
3615								

Customer Representative	LD	Station Manager	SCOTT	Treater	CONDLEY
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Service Units	19907	27463	70959-19918				
Driver Names	KE	KEVIN	JOE				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
7030					ON LOCATION RUN 3619' 5 1/2" 14" CSG - 87 Jt. CUT DE SHOES, INSERT IN 14' ST. CENT-1-2-3-5-7-9 TRAP BOTTOM BREAKER. SET 5 1/2" AT 3629'
2400	300		10	5	PUMP 10 bbl. H <sub>2</sub> O
	300		10	6	PUMP 35 SL. SCAVENGER
	200				CEMENT AT 13.0 PPG
			37	6	PUMP 150 SL. AAZ CEMENT 1 1/2% SPT, 5% CALSET, 1% FLA-32 5" SL. G. SODIUM AT 15.3 PPG.
					STOP - WASH LINE - DROP PLUG
	0		0	7	START DTSF.
	300		57	7	LIFT CEMENT
	700		80	2	SLOW RATE
0030	1500		88	2	PLUG DOWN - HOLD
					PLUG RAT HOLE - 30 SL 60/40 POL
0130					JOB COMPLETE - KEVIN



# Petromark Drilling

## PIPE TALLY

LTD-3628'  
TD-3630

CUSTOMER LU SWAPP DATE 6-5-12  
 CARRIER \_\_\_\_\_ /B.L.# \_\_\_\_\_ CUST. ORDER NO. \_\_\_\_\_  
 STORE LOCATION \_\_\_\_\_ P.O.# \_\_\_\_\_ LOCATION: \_\_\_\_\_  
 SIZE 1/2 WT. \_\_\_\_\_ GRADE \_\_\_\_\_ MILL \_\_\_\_\_ RANGE \_\_\_\_\_ THREAD \_\_\_\_\_

No.	Ft.	In.	No.	Ft.	In.	No.	Ft.	In.	No.	Ft.	In.	No.	Ft.	In.	No.	Ft.	In.	No.	Ft.	In.				
1	14	08	26	42	17	51	38	15	76	29	25	101			126			151			176			
2	42	28	27	38	60	52	42	20	77	42	21	102			127			152			177			
3	12	15	28	43	20	53	42	41	78	29	59	103			128	37	47	55	-	178	90	75		
4	12	22	29	43	22	54	40	55	79	42	15	104			129	-	44	35	-	179	89	OUT		
5	28	14	30	42	21	55	42	23	80	41	40	105			130	-	40	08	-	180	85	OUT		
6	42	47	31	43	20	56	42	14	81	42	85	106			131	-	43	19	-	181	87	OUT		
7	42	21	32	43	18	57	43	13	82	37	96	107			132			157			182			
8	42	17	33	43	26	58	43	14	83	37	94	108			133	36	19	93	-	183	87	75		
9	42	22	34	43	18	59	43	16	84	40	64	109			134	+ 10	00	-	184	45				
10	27	29	35	43	17	60	39	17	85	43	18	110			135			160			185			
11	42	17	36	42	21	61	42	22	86	42	14	111			136	36	27	93		186				
12	42	19	37	39	15	62	42	24	87	42	19	112			137			162			187			
13	42	23	38	38	35	63	42	14	88	40	08	113			138			163			188			
14	42	12	39	42	31	64	42	16	89	44	35	114			139	SET	5 1/2	AS		189				
15	42	22	40	42	14	65	42	19	90	15	60	115			140			165			190			
16	42	15	41	42	92	66	42	18	91			116			141			166			191			
17	42	20	42	42	16	67	42	19	92			117			142			167			192			
18	41	43	43	42	17	68	42	14	93			118			143			168			193			
19	42	19	44	42	18	69	40	56	94			119			144			169			194			
20	42	45	45	44	01	70	42	16	95			120			145			170			195			
21	41	46	46	38	08	71	42	18	96			121			146			171			196			
22	42	20	47	42	22	72	42	20	97			122			147			172			197			
23	42	18	48	44	22	73	42	18	98			123			148			173			198			
24	39	27	49	40	44	74	42	04	99			124			149			174			199			
25	39	24	50	42	28	75	42	16	100			125			150			175			200			
Total	1029	45		1059	45		1063	15		595	53													

NO. JOINTS 90 TALLIED BY ET  
 FOOTAGE \_\_\_\_\_ TOTAL 3747.18 FT.  
 RECEIVED BY \_\_\_\_\_



# DIAMOND TESTING

## General Information Report

### General Information

Company Name L.D. DRILLING, INC.  
Contact L.D. DAVIS  
Well Name SHARP #1-36  
Unique Well ID DST #1, LANSING "A-F", 3213-3300  
Surface Location SEC 36-20S-13W BARTON CO. KS.  
Field ROLLING GREEN EAST  
Well Type Vertical  
Test Type CONVENTIONAL  
Formation DST #1, LANSING "A-F", 3213-3300  
Well Fluid Type 01 Oil

Representative TIM VENTERS  
Well Operator L.D. DRILLING, INC.  
Report Date 2012/06/05  
Prepared By TIM VENTERS  
Qualified By KIM SHOEMAKER

Start Test Date 2012/06/05  
Final Test Date 2012/06/05

Start Test Time 01:35:00  
Final Test Time 08:58:00

### Test Recovery:

RECOVERED: 2875' GAS IN PIPE  
60' G,VSOCM, 4% GAS, 3% OIL, 93% MUD  
130' G,O&WCM, 14% GAS, 18% OIL, 28% WATER, 40% MUD  
120' G,O&MCW, 25% GAS, 23% OIL, 36% WATER, 16% MUD  
310' TOTAL FLUID

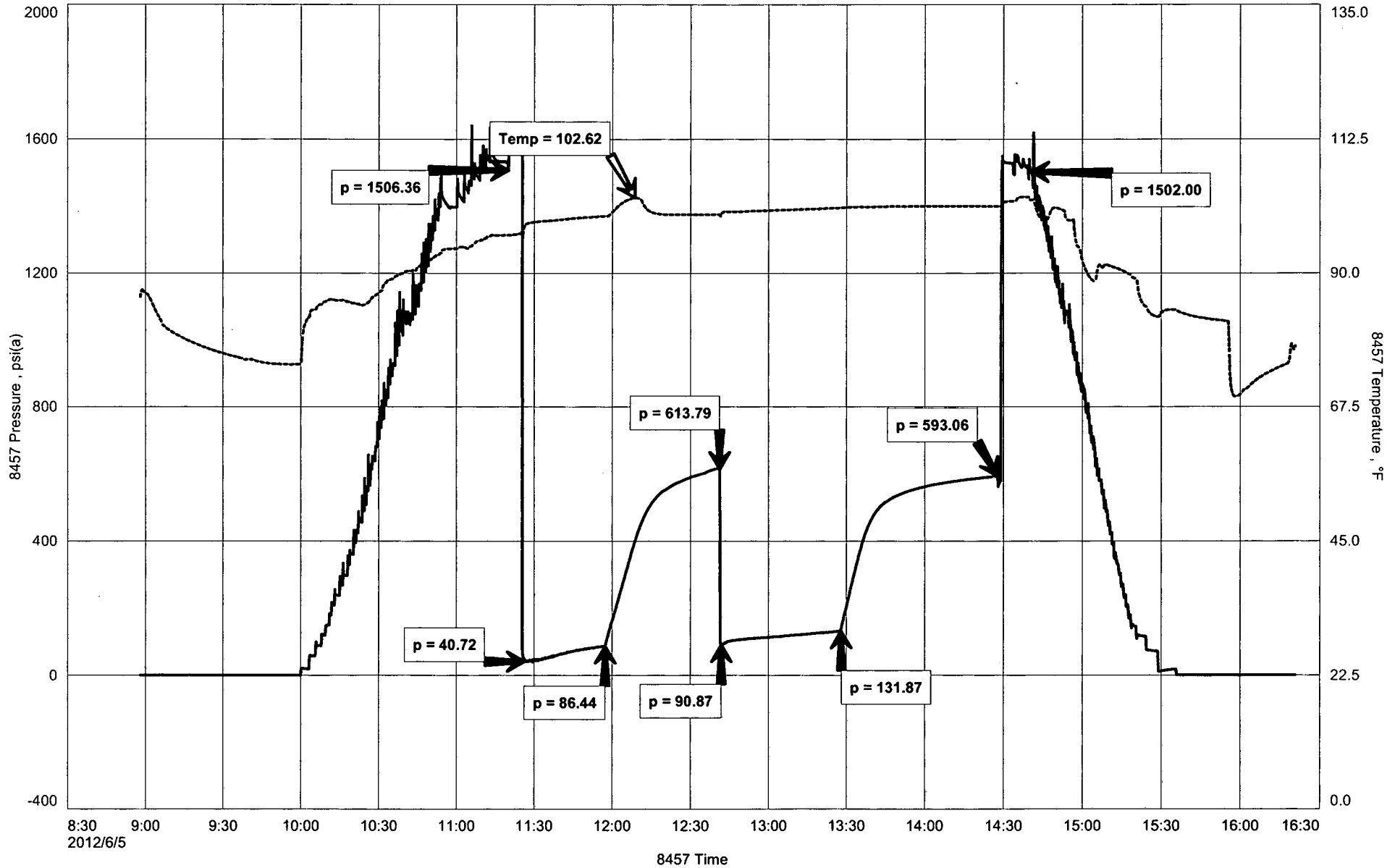
TOOL SAMPLE: GAS BLEW OUT

CHLORIDES: 49,000 ppm  
PH: 6.5  
RW: .15 @ 80 deg.

L.D. DRILLING, INC.  
DST #1, LANSING "A-F", 3213-3300  
Start Test Date: 2012/06/05  
Final Test Date: 2012/06/05

SHARP #1-36  
Formation: DST #1, LANSING "A-F", 3213-3300  
Pool: ROLLING GREEN EAST  
Job Number: T063

# SHARP #1-36





**DIAMOND TESTING**  
 P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
 (800) 542-7313  
**DRILL-STEM TEST TICKET**  
 FILE: SHARP1-36DST1

TIME ON: 01:35  
 TIME OFF: 08:58

Company L.D. DRILLING, INC. Lease & Well No. SHARP #1-36  
 Contractor PETROMARK DRILLING, LLC RIG #2 Charge to L.D. DRILLING, INC.  
 Elevation 1860 KB Formation LANSING "A-F" Effective Pay \_\_\_\_\_ Ft. Ticket No. T063  
 Date 6-5-12 Sec. 36 Twp. 20 S Range \_\_\_\_\_ 13 W County BARTON State KANSAS  
 Test Approved By KIM SHOEMAKER Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 1 Interval Tested from 3213 ft. to 3300 ft. Total Depth 3300 ft.  
 Packer Depth 3208 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Packer Depth 3213 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
 Top Recorder Depth (Inside) 3199 ft. Recorder Number 8457 Cap. 10,000 P.S.I.  
 Bottom Recorder Depth (Outside) 3297 ft. Recorder Number 11029 Cap. 5,025 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
 Mud Type CHEMICAL Viscosity 48 Drill Collar Length 121 ft. I.D. 2 1/4 in.  
 Weight 8.8 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 5,000 P.P.M. Drill Pipe Length 3064 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length 28 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 24 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 63" DP IN ANCHOR Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: **STRONG 4 INCH BLOW, BUILDING, REACHING BOB 1 MIN. (NOBB)**  
 2nd Open: **STRONG 5 INCH BLOW, BUILDING, REACHING BOB 2 MIN. (1/4"BB)**

Recovered <u>2875</u> ft. of <u>GAS IN PIPE</u>	
Recovered <u>60</u> ft. of <u>G,VSOCM, 4% GAS, 3% OIL, 93% MUD</u>	
Recovered <u>130</u> ft. of <u>G,O&amp;WCM, 14% GAS, 18% OIL, 28% WATER, 40% MUD</u>	
Recovered <u>120</u> ft. of <u>G,O&amp;MCW, 25% GAS, 23% OIL, 36% WATER, 16% MUD</u>	
Recovered <u>310</u> ft. of <u>TOTAL FLUID</u>	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
_____	Total

TOOL SAMPLE: GAS BLEW OUT  
 Time Set Packer(s) 4:02 AM A.M. P.M. Time Started Off Bottom 7:04 AM A.M. P.M. Maximum Temperature 103 deg.  
 Initial Hydrostatic Pressure..... (A) 1506 P.S.I.  
 Initial Flow Period..... Minutes 30 (B) 41 P.S.I. to (C) 86 P.S.I.  
 Initial Closed In Period..... Minutes 45 (D) 614 P.S.I.  
 Final Flow Period..... Minutes 47 (E) 91 P.S.I. to (F) 132 P.S.I.  
 Final Closed In Period..... Minutes 60 (G) 593 P.S.I.  
 Final Hydrostatic Pressure..... (H) 1502 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  
Well Name SHARP #1-36  
Unique Well ID DST #2, LKC "H-I", 3347-3380  
Surface Location SEC 36-20S-13W, BARTON, CO. KS.  
Field ROLLING GREEN EAST  
Well Type Vertical  
Test Type CONVENTIONAL  
Formation DST #2, LKC "H-I", 3347-3380  
Well Fluid Type 01 Oil

Representative TIM VENTERS  
Well Operator L.D. DRILLING, INC.  
Report Date 2012/06/05  
Prepared By TIM VENTERS  
Qualified By KIM SHOEMAKER

Start Test Date 2012/06/05  
Final Test Date 2012/06/05

Start Test Time 16:32:00  
Final Test Time 23:12:00

### Test Recovery:

RECOVERED: 20' VSOCM, 4% OIL, 96% MUD  
60' MCW W/TR. OIL, TRACE OIL, 75% WATER, 25% MUD  
80' TOTAL FLUID

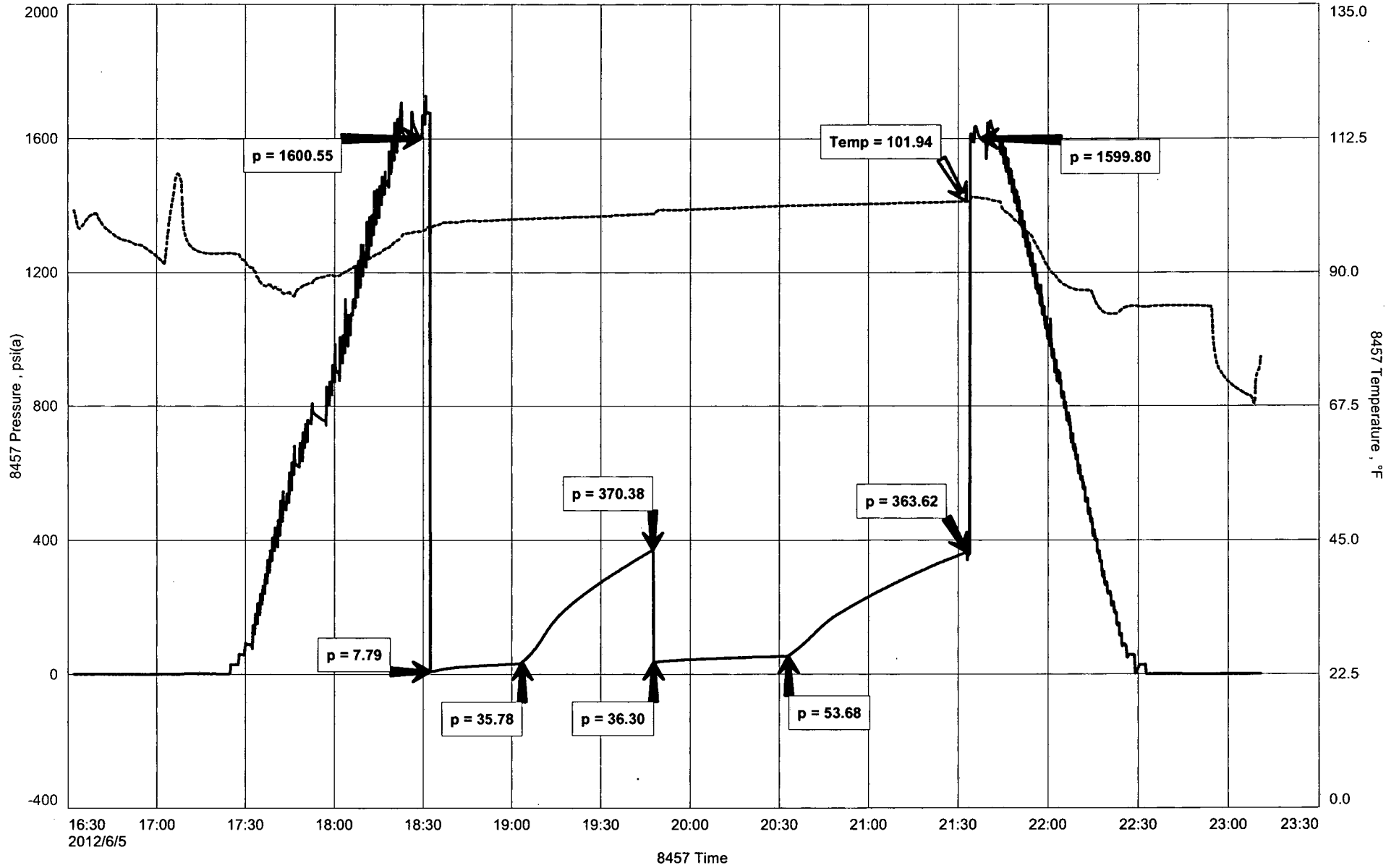
TOOL SAMPLE: TRACE OIL, 98% WATER, 2% MUD

CHLORIDES: 32,000 ppm  
PH: 7.0  
RW: .18 @ 82 deg.

L.D. DRILLING, INC.  
DST #2, LKC "H-I", 3347-3380  
Start Test Date: 2012/06/05  
Final Test Date: 2012/06/05

SHARP #1-36  
Formation: DST #2, LKC "H-I", 3347-3380  
Pool: ROLLING GREEN EAST  
Job Number: T064

# SHARP #1-36





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: SHARP1-36DST2

TIME ON: 16:32  
TIME OFF: 23:12

Company L.D. DRILLING, INC. Lease & Well No. SHARP #1-36  
Contractor PETROMARK DRILLING, LLC RIG #2 Charge to L.D. DRILLING, INC.  
Elevation 1860 KB Formation \_\_\_\_\_ LKC "H-I" Effective Pay \_\_\_\_\_ Ft. Ticket No. T064  
Date 6-5-12 Sec. 36 Twp. 20 S Range \_\_\_\_\_ 13 W County BARTON State KANSAS  
Test Approved By KIM SHOEMAKER Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 2 Interval Tested from 3347 ft. to 3380 ft. Total Depth 3380 ft.  
Packer Depth 3342 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 3347 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

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

Top Recorder Depth (Inside) 3333 ft. Recorder Number 8457 Cap. 10,000 P.S.I.  
Bottom Recorder Depth (Outside) 3377 ft. Recorder Number 11029 Cap. 5,025 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Mud Type CHEMICAL Viscosity 50 Drill Collar Length 121 ft. I.D. 2 1/4 in.  
Weight 9.0 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 12,000 P.P.M. Drill Pipe Length 3198 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length 28 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 33 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 SURFACE BLOW, BUILDING TO 5 INCHES. (NOBB)  
2nd Open: VERY WEAK SURFACE BLOW, BUILDING TO 1 1/2 INCHES. (NOBB)

Recovered 20 ft. of VSOCM, 4% OIL, 96% MUD  
Recovered 60 ft. of MCW W/TR. OIL, TRACE OIL, 75% WATER, 25% MUD  
Recovered 80 ft. of TOTAL FLUID

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

Remarks: \_\_\_\_\_ CHLORIDES: 31,000 ppm  
PH: 7.0  
RW: .18 @ 82 deg.

TOOL SAMPLE: TRACE OIL, 98% WATER, 2% MUD

Time Set Packer(s) 6:32 PM A.M. P.M. Time Started Off Bottom 9:32 PM A.M. P.M. Maximum Temperature 102 deg.

Initial Hydrostatic Pressure..... (A) 1601 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 8 P.S.I. to (C) 36 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 370 P.S.I.  
Final Flow Period..... Minutes 45 (E) 36 P.S.I. to (F) 54 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 364 P.S.I.  
Final Hydrostatic Pressure..... (H) 1600 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  
Well Name SHARP #1-36  
Unique Well ID DST #3, ARBUCKLE, 3443-3495  
Surface Location SEC 36-20S-13W, BARTON CO. KS.  
Field ROLLING GREEN EAST  
Well Type Vertical  
Test Type CONVENTIONAL  
Formation DST #3, ARBUCKLE, 3443-3495  
Well Fluid Type 01 Oil

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

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

Start Test Time 09:48:00  
Final Test Time 16:21:00

### Test Recovery:

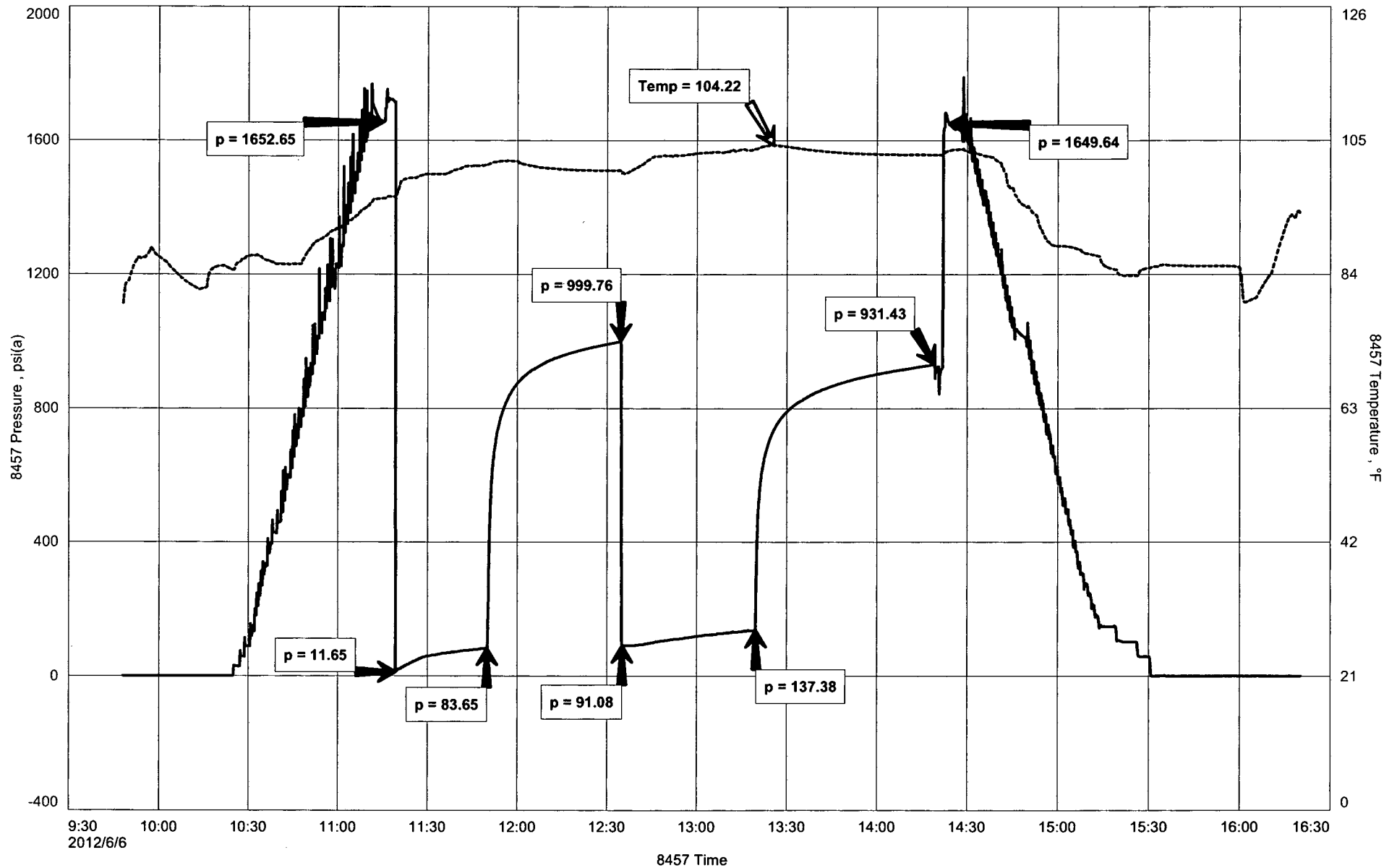
RECOVERED: 285' GAS IN PIPE  
145' GO, 12% GAS, 88% OIL, OIL GRAVITY: 40  
15' G,SMCO, 18% GAS, 75% OIL, 7% MUD  
180' G,OCM, 16% GAS, 27% OIL, 57% MUD  
340' TOTAL FLUID

TOOL SAMPLE: 3% GAS, 51% OIL, 46% MUD

L.D. DRILLING, INC.  
DST #3, ARBUCKLE, 3443-3495  
Start Test Date: 2012/06/06  
Final Test Date: 2012/06/06

SHARP #1-36  
Formation: DST #3, ARBUCKLE, 3443-3495  
Pool: ROLLING GREEN EAST  
Job Number: T065

# SHARP #1-36







**DIAMOND TESTING**  
 P.O. Box 157  
 HOISINGTON, KANSAS 67544  
 (800) 542-7313  
**DRILL-STEM TEST TICKET**  
 FILE: SHARP1-36DST3

TIME ON: 09:48  
 TIME OFF: 16:21

Company L.D. DRILLING, INC. Lease & Well No. SHARP #1-36  
 Contractor PETROMARK DRILLING, LLC RIG #2 Charge to L.D. DRILLING, INC.  
 Elevation 1860 KB Formation ARBUCKLE Effective Pay \_\_\_\_\_ Ft. Ticket No. T065  
 Date 6-6-12 Sec. 36 Twp. 20 S Range 13 W County BARTON State KANSAS  
 Test Approved By KIM SHOEMAKER Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 3 Interval Tested from 3443 ft. to 3495 ft. Total Depth 3495 ft.  
 Packer Depth 3438 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Packer Depth 3443 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

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

Top Recorder Depth (Inside) 3424 ft. Recorder Number 8457 Cap. 10,000 P.S.I.  
 Bottom Recorder Depth (Outside) 3492 ft. Recorder Number 11029 Cap. 5,025 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 50 Drill Collar Length 121 ft. I.D. 2 1/4 in.

Weight 9.3 Water Loss 9.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 9,000 P.P.M. Drill Pipe Length 3289 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length 33 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 20 ft. Size 4 1/2-FH in.

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. <sup>32' DP IN ANCHOR</sup> Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK 1/2 INCH BLOW, BUILDING, REACHING BOB 15 1/2 MIN. (3 1/2"BB)

2nd Open: WEAK SURFACE BLOW, BUILDING, REACHING BOB 17 MIN. (1/2"BB)

Recovered 285 ft. of GAS IN PIPE

Recovered 145 ft. of GO, 12% GAS, 88% OIL, OIL GRAVITY: 40

Recovered 15 ft. of G,SMCO, 18% GAS, 75% OIL, 7% MUD

Recovered 180 ft. of G,OCM, 16% GAS, 27% OIL, 57% MUD

Recovered 340 ft. of TOTAL FLUID

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: \_\_\_\_\_

TOOL SAMPLE: 3% GAS, 51% OIL, 46% MUD

Time Set Packer(s) 11:19 AM <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 2:19 PM <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 104 deg.

Initial Hydrostatic Pressure..... (A) 1653 P.S.I.

Initial Flow Period..... Minutes 30 (B) 12 P.S.I. to (C) 84 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 1000 P.S.I.

Final Flow Period..... Minutes 45 (E) 91 P.S.I. to (F) 137 P.S.I.

Final Closed In Period..... Minutes 60 (G) 931 P.S.I.

Final Hydrostatic Pressure..... (H) 1650 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  
Well Name SHARP #1-36  
Unique Well ID DST #4, ARBUCKLE, 3492-3516  
Surface Location SEC 36-20S-13W, BARTON CO. KS.  
Field ROLLING GREEN EAST  
Well Type Vertical  
Test Type CONVENTIONAL  
Formation DST #4, ARBUCKLE, 3492-3516  
Well Fluid Type 01 Oil

Representative TIM VENTERS  
Well Operator L.D. DRILLING, INC.  
Report Date 2012/06/07  
Prepared By TIM VENTERS  
Qualified By KIM SHOEMAKER

Start Test Date 2012/06/06  
Final Test Date 2012/06/07

Start Test Time 21:28:00  
Final Test Time 05:02:00

### Test Recovery:

RECOVERED: 360' GAS IN PIPE  
335' GO, 2% GAS, 98% OIL, OIL GRAVITY: 39  
120' G,SW,O&M, 15% GAS, 40% OIL, 5% WATER, 40% MUD  
455' TOTAL FLUID

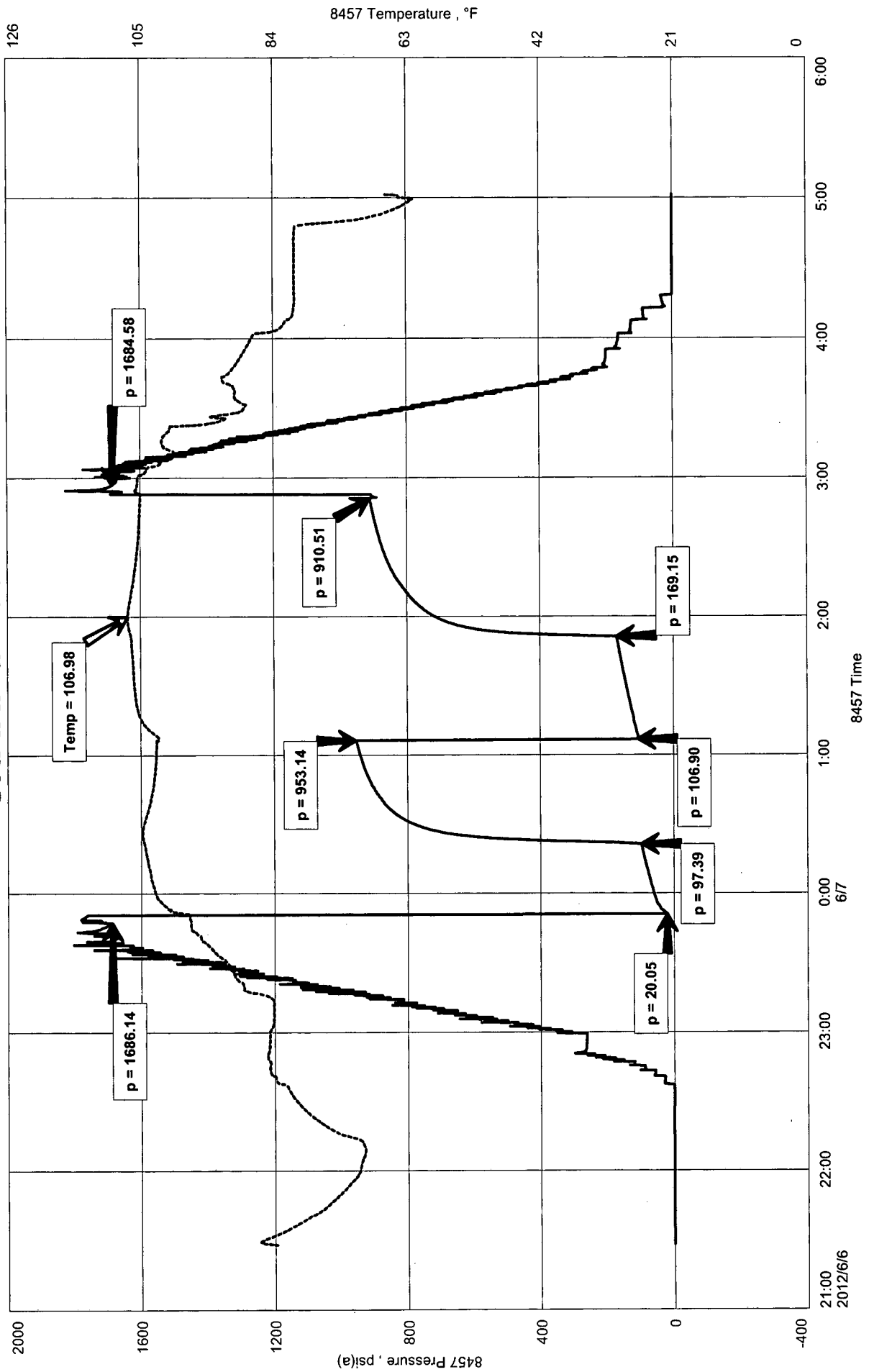
TOOL SAMPLE: 3% GAS, 97% OIL

CHLORIDES: 13,000 ppm  
PH: 7.0  
RW: .48 @ 73 deg.

SHARP #1-36  
 Formation: DST #4, ARBUCKLE, 3492-3516  
 Pool: ROLLING GREEN EAST  
 Job Number: T066

L.D. DRILLING, INC.  
 DST #4, ARBUCKLE, 3492-3516  
 Start Test Date: 2012/06/06  
 Final Test Date: 2012/06/07

# SHARP #1-36





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: SHARP1-36DST4

TIME ON: 21:28 6-6-12  
TIME OFF: 05:02 6-7-12

Company L.D. DRILLING, INC. Lease & Well No. SHARP #1-36  
Contractor PETROMARK DRILLING, LLC RIG #2 Charge to L.D. DRILLING, INC.  
Elevation 1860 KB Formation ARBUCKLE Effective Pay \_\_\_\_\_ Ft. Ticket No. T066  
Date 6-6-12 Sec. 36 Twp. 20 S Range 13 W County BARTON State KANSAS  
Test Approved By KIM SHOEMAKER Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 4 Interval Tested from 3492 ft. to 3516 ft. Total Depth 3516 ft.  
Packer Depth 3487 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 3492 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
Top Recorder Depth (Inside) 3473 ft. Recorder Number 8457 Cap. 10,000 P.S.I.  
Bottom Recorder Depth (Outside) 3513 ft. Recorder Number 11029 Cap. 5,025 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Mud Type CHEMICAL Viscosity 50 Drill Collar Length 121 ft. I.D. 2 1/4 in.  
Weight 9.3 Water Loss 9.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 9,000 P.P.M. Drill Pipe Length 3338 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number 4 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 24 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 INCH BLOW, BUILDING, REACHING BOB 8 MIN. (VWSBB)  
2nd Open: WEAK 3/4 INCH BLOW, BUILDING, REACHING BOB 11 1/2 MIN. (VWSBB)

Recovered 360 ft. of GAS IN PIPE  
Recovered 335 ft. of GO, 2% GAS, 98% OIL, OIL GRAVITY: 39  
Recovered 120 ft. of G,SW,O&M, 15% GAS, 40% OIL, 5% WATER, 40% MUD  
Recovered 455 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>3% GAS, 97% OIL</u>	Total

Time Set Packer(s) 11:50 PM A.M. P.M. Time Started Off Bottom 2:50 AM A.M. P.M. Maximum Temperature 107 deg.

Initial Hydrostatic Pressure..... (A) 1686 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 20 P.S.I. to (C) 97 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 953 P.S.I.  
Final Flow Period..... Minutes 45 (E) 107 P.S.I. to (F) 169 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 911 P.S.I.  
Final Hydrostatic Pressure..... (H) 1685 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 \* J-36 SHARP

FIELD ROLLING GREEN EAST

LOCATION NENE SE 2310 E SL. J 330 FEL

SEC 36 TWP 20 RGE 13W

COUNTY BARTON STATE KANSAS

CONTRACTOR PETROMARK DRILLING R16 2

SPUD 6-1-12 COMP 6-8-12

RTD 3630 LTD 3628

MUD DR 2792 TYPE MUD CHEMICAL

ELEVATIONS

KB 1860

DF \_\_\_\_\_

GL 1855

Measurements Are All From 1860 KB

CASING

SURFACE 8 5/8" @ 375'

PRODUCTION 5 1/2" @

ELECTRICAL SURVEYS

DUAL IND. DENS. - N. Micro

SAMPLES SAVED FROM 2900 TO 3630

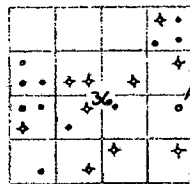
DRILLING TIME KEPT FROM 2700 TO 3630

SAMPLES EXAMINED FROM 2900 TO 3630

GEOLOGICAL SUPERVISION FROM 3200 TO 3630

GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	677 + 1181	679 + 1181
HEDBERG	3084 - 1221	3088 - 1228
BROWN LIME	3207 - 1317	3209 - 1319
LANSING	3220 - 1340	3224 - 1344
B/KC	3433 - 1573	3435 - 1575
ARBUCKLE ?	3484 - 1624	3477 - 1617



REMARKS

6.1.12 - 5200  
6.2.0 - 3200  
6.3.0 - 1854  
6.4.0 - 2485  
6.5.0 - 3300  
6.6.0 - 3484  
6.7.0 - 3514  
6.8.0 - 3630

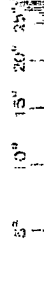
API: 15-008-25682

### LEGEND

- Anhydrite
- Salt
- Sandstone
- Shale
- Gyp sh
- Limestone
- Gcl. L. lime
- Chert
- Dolomite

SHOE01-08

DRILLING TIME IN MINUTES  
PER FOOT  
Rate of Penetration Indicators



DEPTH

650

700

2700

LITHOLOGY

SAMPLE DESCRIPTIONS

REMARKS

ANHYDRITE 677+1181

SANDSTONE 702+1158

2700

HOWARD 2729 • 829

2800

TOPEKA 2818 958

2900

Samples are logged

Sh. dk. G. Ark

A G. Sh. Ford

dk. G. Sh. Ford

Sh. G.

dk. Ford. Sh. Ford. Sh. Chilly

NSP 48

NSP 30

NSP 200

NSP 5000

dk. dk. Ford. Sh. Chilly

Sh. G. G.

dk. G. G. Du

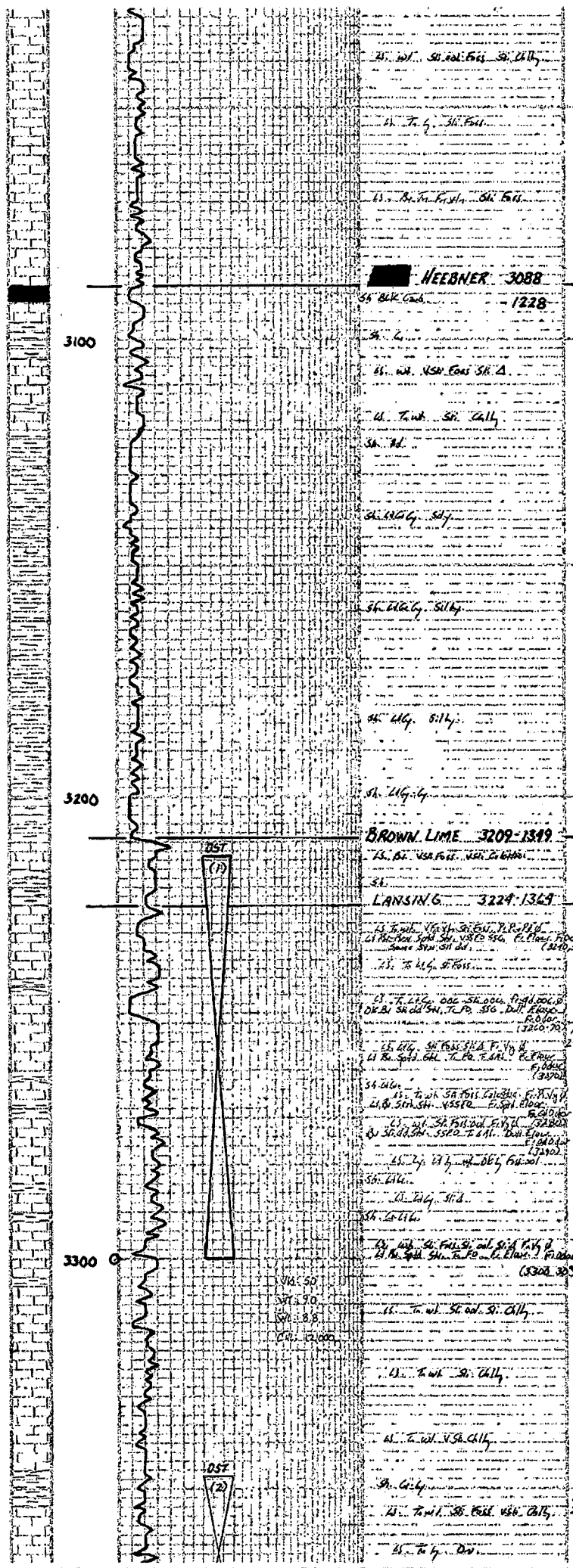
Sh. dk. G. G.

dk. G. G. Ford. Sh. Chilly

3000

dk. Ford. dk. Sh. Ford. Sh. Chilly

dk. dk. dk. Sh. Chilly

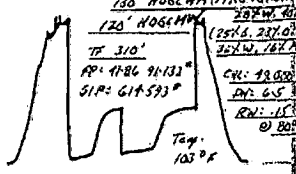


**HEEBNER 3088**  
 54' Blk. Coals - 1228

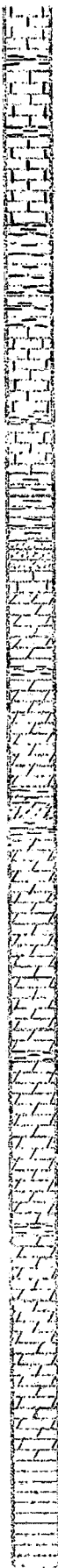
**BROWN LIME 3209-3319**

**LANSING 3224-3369**

**DST (1) 3213-3300**  
 15' Open: 2100 built to 5"  
 30-45-45-60



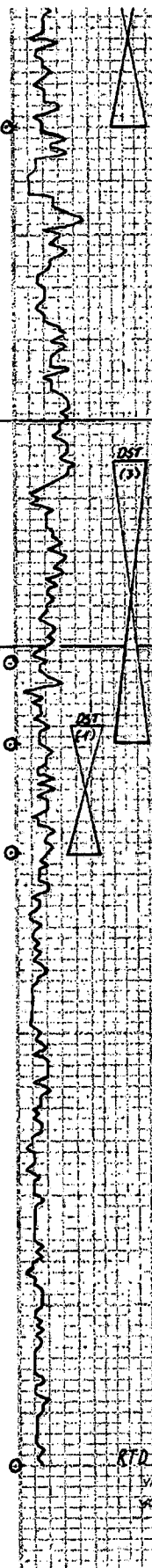
**DST (2) 3347-3380**  
 15' Open: 2100 built to 5"  
 30-45-45-60  
 Rec. 20' V50GEM (146.3700)



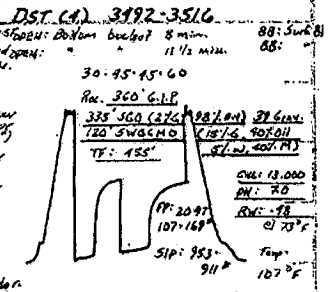
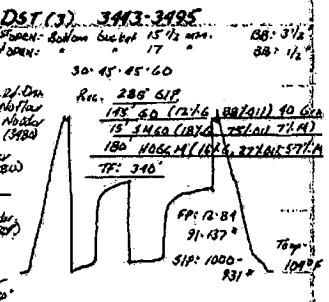
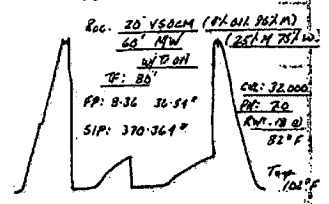
3400

3500

3600



15. To 20. ...  
 16. To 21. ...  
 17. To 22. ...  
 18. To 23. ...  
 19. To 24. ...  
**B/KC 3435-1575**  
 20. To 21. ...  
 21. To 22. ...  
 22. To 23. ...  
**ARBUCKLE 3477-3617**  
 23. To 24. ...  
 24. To 25. ...  
 25. To 26. ...  
 26. To 27. ...  
 27. To 28. ...  
**RTD 3630-1770**



RTD 3630-1770  
 VIS: 50 W: 93  
 WC: 9.1 CC: 19000