



KANSAS CORPORATION COMMISSION 1083031  
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: JOSH AUSTIN  
Purchaser: M V PURCHASING

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SIOW  
 Gas     D&A     ENHR     SIGW  
 OG     GSW     Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic     Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_  
03/26/2012    04/03/2012    04/12/2012  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 15-009-25666-00-00  
Spot Description: \_\_\_\_\_  
SW SW NW Sec. 31 Twp. 20 S. R. 12  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: DOONAN Well #: 2-31  
Field Name: ROLLING GREEN EAST  
Producing Formation: ARBUCKLE  
Elevation: Ground: 1860 Kelly Bushing: 1861  
Total Depth: 3630 Plug Back Total Depth: 3600  
Amount of Surface Pipe Set and Cemented at: 332 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: 3000 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: MERMIS License #: 6039  
Quarter SE Sec. 24 Twp. 20 S. R. 15  East  West  
County: BARTON Permit #: D21526

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: 06/08/2012



1083031

Operator Name: L. D. Drilling, Inc. Lease Name: DOONAN Well #: 2-31  
 Sec. 31 Twp. 20 S. R. 12  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 checked="" type="checkbox"/> Yes <input 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
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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
<input checked="" type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	3427-3537	COMMON	50	.25% DEFOAMER.5%FLA-322,.5%CRR

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	3514 - 3518'; 3503 - 3507'	500 gal 20% HCL	
4	3491 - 3495'; 3482 - 3486'	200 gal 15% HCL	
4	3532 - 3536'; 3574 - 3578'	1000 gal 28% HCL	

TUBING RECORD: Size: <u>2.875</u> Set At: <u>3597</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First, Resumed Production, SWD or ENHR. <u>04/13/2012</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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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 (Specify) _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	DOONAN 2-31
Doc ID	1083031

Tops

Name	Top	Datum
ANHYDRITE	678	+1183
HEEBNER	3086	-1225
TORONTO	3102	-1241
DOUGLAS	3120	-1259
BROWN LIME	3206	-1345
LANSING	3222	-1361
BASE KANSAS CITY	3434	-1573
CONGLOMERATE	3448	-1587
ARBUCKLE	3480	-1619

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	DOONAN 2-31
Doc ID	1083031

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
SURFACE	12.25	8.625	24	332	A-CON BLEND	175	
SURFACE CON'T	12.25	8.625	24	332	COMMON	175	
PRODUCTION	7.875	5.5	14	3627	COMMON	150	
PRODUCTION Rathole	7.875	5.5	14	3627	60/40 POZMIX	30	



# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer <b>L.D. Drilling</b>	Lease No.	Date <b>3-27-13</b>
Lease <b>Downer</b>	Well # <b>2-31</b>	
Field Order # <b>2918</b>	Station <b>P. 1</b>	Casing <b>2 7/8</b>
	Depth <b>330</b>	County <b>Burke</b>
Type Job <b>NEW - 8 1/2" SURFACE</b>	Formation	Legal Description <b>31-00-12</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <b>2 7/8</b>	Tubing Size	Shots/Ft	<b>175%</b>	Acid	<b>Acid - HCL 2.4</b>	RATE	PRESS	ISIP
Depth <b>330</b>	Depth	From	To <b>175%</b>	Pre Pad	<b>(unrec) 10</b>	Max		5 Min.
Volume <b>2.1</b>	Volume	From	To	Pad		Min		10 Min.
Max Press <b>500</b>	Max Press	From	To	Frac		Avg		15 Min.
Well Connection <b>P.C.</b>	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth <b>310</b>	Packer Depth	From	To	Flush <b>20</b>		Gas Volume		Total Load

Customer Representative <b>Tom</b>	Station Manager <b>Downer</b>	Treater <b>Oil</b>
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Service Units	<b>27335</b>	<b>27463</b>	<b>19271</b>	<b>17860</b>					
Driver Names	<b>Downer</b>	<b>mit. ball</b>	<b>P. 1</b>	<b>Downer</b>					

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
4:00 AM					On location - Safety Meeting
					Run 8 1/2" 8 1/2" Cas
					Connect to Surface
					Pressure 500 w/ 11.5
5:30	250		77	5	Run 175% Acid - HCL 2.4
5:45	250		374	5	Run 175% Acid - HCL 2.4 @ 15.6
					Shut Down
					Relief Plug
5:55	300		3	11	Shut 1120 Displacement
6:00	300		0.0	11	Connect to Surface
					Plug Down
					Calculate on Time 300
					Calculate 17 bbls (unrec) up
					Subsidiary
					10 min 500



**BASIC**  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET

1718-05618-A

DATE TICKET NO.

DATE OF JOB: 4-3-12	DISTRICT: Kansas	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.	
CUSTOMER: L.O. Drilling Inc.	LEASE: Deorn 2-31	WELL NO.						
ADDRESS:	COUNTY: Stafford	STATE: KS						
CITY:	STATE:	SERVICE CREW: Allen, Keever, Ed, Bowers						
AUTHORIZED BY:	JOB TYPE: 5 1/2" L.S.							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE: 4-3-12	TIME: 5:30
172443 P.U.	1 1/2					ARRIVED AT JOB	4-3-12	7:15
19889 19843	1 1/2					START OPERATION	4-3-12	10:00
19832-21010	1 1/2					FINISH OPERATION	4-3-12	11:30
32586 P4	1 1/2					RELEASED	4-4-12	12:15
						MILES FROM STATION TO WELL	45 miles	

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

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

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

ITEM PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP160C	Common Cement	SK	150		\$ 2400.00
CP103	60/40 Por	SK	30		\$ 360.00
CC102	Cell FloK	lb	38		\$ 190.60
CC112	Cement Friction Reducer	lb	43		\$ 258.00
CC120	FIA-322	lb	43		\$ 322.50
CC113	Gypsum	lb	203		\$ 523.75
CC200	Cement Gel	lb	322		\$ 70.50
CF103	Top Rubber	EA	1		\$ 105.00
CF251	Guide Shoe	EA	1		\$ 250.00
CF1951	Flapper Type Insert Float Valve 5/8	EA	1		\$ 215.00
CF651	Turboliner 5/8 Blue	EA	6		\$ 660.00
CC151	man. Flush	EA	1000		\$ 860.00
B100	unit mileage chg. Pickup	mi	4.5		\$ 191.25
B101	Heavy Equip mileage	mi	90		\$ 600.00
B113	Bulk Oiling chg.	TM	376		\$ 601.20
CE304	Depth Chg 3600-4000	4-h	1		\$ 2160.00
CE340	Bulk Oil chg	SK	180		\$ 324.00
SE504	Place outside unit location chg	TOL	1		\$ 350.00
S003	Service Supervisor First 8hrs	EA	1		\$ 175.00
SUB TOTAL					\$ 8,239.54

CHEMICAL / ACID DATA:	

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

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

FIELD SERVICE ORDER NO.

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer <b>L.D. Drilling INC</b>	Lease No.	Date <b>4-3-12</b>
Lease <b>DOONAN</b>	Well # <b>2-31</b>	
Field Order # <b>0-56-180</b>	Station <b>Pratt KS</b>	Casing <b>5 1/2"</b>
Type Job <b>5 1/2" L.S.</b>	Formation <b>CMW</b>	Depth <b>3627</b>
		County <b>Stafford</b>
		State <b>Ks</b>
		Legal Description <b>21-20-12</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size <b>5 1/2"</b>	Tubing Size	Shots/Ft		Acid	RATE	PRESS	(SIP)
Depth <b>3627</b>	Depth	From	To	Pro Pad			
Volume <b>88 BBL</b>	Volume	From	To	Pad			
Max Press <b>1000</b>	Max Press	From	To	Frac			
Well Connection <b>PC</b>	Annulus Vol.	From	To	Flush			
Plug Depth <b>3627</b>	Packer Depth	From	To	Disp			

*Handwritten notes in table:*  
 1000 gal mud flush (1000 gal)  
 50 sacks 60/40 Poz Plug R.H.  
 150' common cement  
 15' 5 Min.  
 10 Min.  
 15 Min.  
 Annulus Pressure  
 Total Load  
 HHP Used  
 Gas Volume  
 H 20

Customer Representative <b>Jim TP</b>	Station Manager <b>Scotty</b>	Treater <b>Allen</b>
--	----------------------------------	-------------------------

Service Units <b>26443</b>	<b>19949</b>	<b>19843</b>	<b>19822</b>	<b>21010</b>	<b>37586</b>			
Driver Names <b>Allen</b>	<b>Edmundo</b>	<b>Justin</b>	<b>Bowers</b>	<b>Keever</b>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
7:15 AM					on loc. discuss safety, Setup Plans. Laying down collars out of hole. Lay down Kelly. Rig up to run 5 1/2" csg. 14'
8:25					Start 5 1/2" csg. Shoe Jt. 25' w/ Reg. Shoe. Insert fill in collar. cent 1-3-5-7-9-11.
1000					Tag @ 3620' Pickup + circ @ 3627
1100	200°		24	5 1/2	Pump 24 BBL mud flush (1000 gal)
			5	5 1/2	Pump 5 BBL N° SPACER
				5 1/2	Pump 50 BBL common @ 15#/gal
			38		Finish mix. Washout pump + line
				6	Drop Top Rubber Plug. 5 1/2" Start Dis
	500°			9	caught. Lift PSI 55 BBL out
150	1000°			4	Plug down
	0°				Release PSI 0°
			7		Plug R.H. w/ 30sks 60/40 Poz washup Equip. + Rackup
					Job complete.
					+ thanks Allen, Keever, Edmundo Bowers





**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 06108 A

31-205-12W

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

DATE OF JOB: 4-10-12	DISTRICT: Pratt, Kansas	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:		
CUSTOMER: L.D. Drilling, Incorporated	LEASE: Doonan	WELL NO. 2-31							
ADDRESS:	COUNTY: Barton	STATE: Kansas							
CITY:	STATE:	SERVICE CREW: C. Messick, S. Young, M. Mattal							
AUTHORIZED BY:	JOB TYPE: C.N.M. - Squeeze Arbutile Perforations								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
37,216	3					4-10-12		PM	7:00
						ARRIVED AT JOB		AM/PM	9:45
						START OPERATION		AM/PM	10:15
19,903-19,905	3					FINISH OPERATION		AM/PM	1:15
19,832-19,862	3					RELEASED	4-10-12	AM/PM	1:45
						MILES FROM STATION TO WELL	35		

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 CP100C	Common Cement	sh	25	\$	400.00
P CP100C	Common Cement	sh	25	\$	400.00
P CC105	C-41P	Lb	6	\$	24.00
P CC112	Cement Friction Reducer	Lb	12	\$	72.00
P CC129	FLA-322	Lb	12	\$	90.00
P AF325	15% HCL Acid	Gal	200	\$	400.00
P C204	CIA-3EP: Inhibitor	Gal	1	\$	75.00
P E100	Pickup Mileage	mi	35	\$	148.75
P E101	Heavy Equipment Mileage	mi	70	\$	490.00
P E113	Bulk Delivery	tm	84	\$	134.40
P CE204	Cement Pump: 3,000 Feet To 4,000 Feet	hrs	4	\$	2,160.00
P CE240	Blending and Mixing Service	sh	50	\$	70.00
P S003	Service Supervisor	hrs	8	\$	175.00
P CE500	Squeeze Manifold	Job	1	\$	430.00

SUB TOTAL \$4,156.70

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: <i>R. M. Messick</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>L. D. Drilling</i>
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)	

FIELD SERVICE ORDER NO.

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer: L.T. Drilling, Incorporated Lease No. \_\_\_\_\_ Date: 4-10-12  
 Lease: Doonan Well # 2-31 C.I.B.P.  
 Field Order # \_\_\_\_\_ Station: Pratt, Kansas Casing: 5 1/2 14lb Depth: 3568 County: Barton State: Kansas  
 Type Job: C.N.W. - Squeeze Arbuckle Perforations Formation: Arbuckle Legal Description: 31-205-12 W

PIPE DATA		PERFORATING DATA		TREATMENT RESUME	
Casing Size: <u>5 1/2 14lb</u>	Tubing Size: <u>2 7/8</u>	Shots/Ft: _____	Acid: <u>200 Gallons</u>	Rate: <u>158 Reg</u>	ISIP: _____
Depth: <u>3568 Ft.</u>	Depth: <u>3427 Ft.</u>	From: <u>3532</u>	To: <u>3536</u>	Max. Min. with: <u>25 sucts com</u>	ISIP: <u>5 Min. C.I.P., 258 Defcom</u>
Volume: <u>2.1 Bbl.</u>	Volume: <u>1.2 Feet</u>	From: _____	To: _____	Min (Neat): <u>25 sucts com</u>	10 Min.
Max Press: <u>500 PSI</u>	Max Press: <u>2500 PSI</u>	From: _____	To: _____	Avg: <u>15.6 Lb./Gal.</u>	15 Min.
Well Connection: <u>2 7/8</u>	Annulus-Val: <u>2 7/8</u>	From: _____	To: _____	Avg: <u>2.22 Gal./Stk.</u>	Annulus Pressure
Plug Depth: <u>3568 Ft.</u>	Backer Depth: <u>3427 Ft.</u>	From: _____	To: _____	Flush: <u>22.4 Bbl. Fresh Water</u>	Total Load

Customer Representative: L.D. Davis Station Manager: David Scott Treater: Clarence R. Messick

Service Units	37,216	19,903	19,905	19,832	19,862
Driver Names	<u>Messick</u>	<u>Matth</u>	<u>Young</u>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
9:45					Trucks on location and hold safety meeting.
10:18		100	Packer set at 3557 Ft.		Start to fill tubing.
10:22		1700	9.5		Tubing full. Pressure upon C.I.B.P. set at 3568 Ft.
10:43	500	1000	3	3	Packer unset at 3537 Feet. Start salt water.
		300	15	3	Well full. Start 200 Gallons 158 Regular Acid.
<del>10:57</del>			21		Acid on spott. Pull Packer up to 3427 Feet and set it.
11:09	500				Pressure upon annulus and shut it in.
11:12		1000			Pressure up on Perforations.
		1200		1.25	Pumping steady.
		1200	15	1.25	Start mixing 25 sucts commencement with fluid.
		1200	5.4	1.25	Start mixing 25 sucts commencement. (Neat)
			10.7		Stop pumping. Shut in well. Wash pump and lines.
		-6-			Open well.
11:35		100		1.5	Start Fresh water Displacement.
10:50	500	2500	13		Well holding pressure
10:53	800			1.5	Unset packer and Reverse out.
12:11		2,500	25		Well clean. Reset packer. Repressure. It held.
12:23	400			2	Packer unset at 3566. Start to reverse out.
			40		Well clean.
					Packer set at 3427 Ft. Repressure. It held.
					Pull Packer out of well and wash up pump trucks.
1:45					Job Complete.

Thank You. Clarence, Mike, Steve

## GENERAL INFORMATION

### Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

### Site Information:

Contact: JOSH AUSTIN

Phone: Fax: e-mail:

### Well Information:

Name: DOONAN 2-31

Operator: L D DRILLING INC

Location-Downhole:

Location-Surface: S10/31S/12W

### Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JOSH AUSTIN

Test Type: CONVENTIONAL Job Number: D1114

Test Unit:

Start Date: 2012/03/31 Start Time: 19:00:00

End Date: 2012/04/01 End Time: 01:30:00

Report Date: 2012/04/01 Prepared By: JOHN RIEDL

Remarks: Qualified By: JOSH AUSTIN

GAS TO SURFACE 2ND FLOW, RECOVERY: 150'VERY SLIGHTLY OIL CUT GASSY MUD



# DIAMOND TESTING

P.O. Box 157

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

ON 19:00 03/31/12

OFF 01:30 04/01/12

## DRILL-STEM TEST TICKET STC/DOONAN2-31DST1

Company L.D DRILLING INC Lease & Well No. DOONAN 2-31  
 Contractor PETROMARK #2 Charge to L.D DRILLING INC  
 Elevation 1861K.B Formation LANS A-F Effective Pay \_\_\_\_\_ Ft. Ticker No. D1114  
 Date 3/31/12 Sec. 10 Twp. 31 S Range 12 W County STAFFORD State KS  
 Test Approved By JOSH AUSTIN Diamond Representative JOHN C. RIEDL

Formation Test No. 1 Interval Tested from 3207 ft. to 3300 ft. Total Depth 3300 ft.  
 Packer Depth 3202 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Packer Depth 3207 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Depth of Selective Zone Set \_\_\_\_\_

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

Mud Type CHEMICAL Viscosity 58 Drill Collar Length 120 ft. I.D. 2 1/4 in.  
 Weight 8.8 Water Loss 9.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 3,000 P.P.M. Drill Pipe Length 3067 ft. I.D. 3 1/2 in.  
 Jars: Make BOWEN Serial Number NOT REQUESTED Test Tool Length 20 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 93 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: STRONG (B.O.B 2 MINUTES) NO BB  
 2nd Open: STRONG (B.O.B IMMEDIATELY GTS 3 MIN.) NO BB

Recovered 150 ft. of VSLOGGM (3%OIL 25%GAS 72%MUD)

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

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

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

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

Remarks: TOTAL FLUID REC: 150' (30' IN DRILL PIPE, 120' IN DRILL COLLARS)

GAS GUAGED 10 MCF/D THROUGHOUT ITS TIME TO SURFACE

Time Set Packer(s) 8:50 P.M. A.M. P.M. Time Started Off Bottom 11:50 P.M. A.M. P.M. Maximum Temperature 101

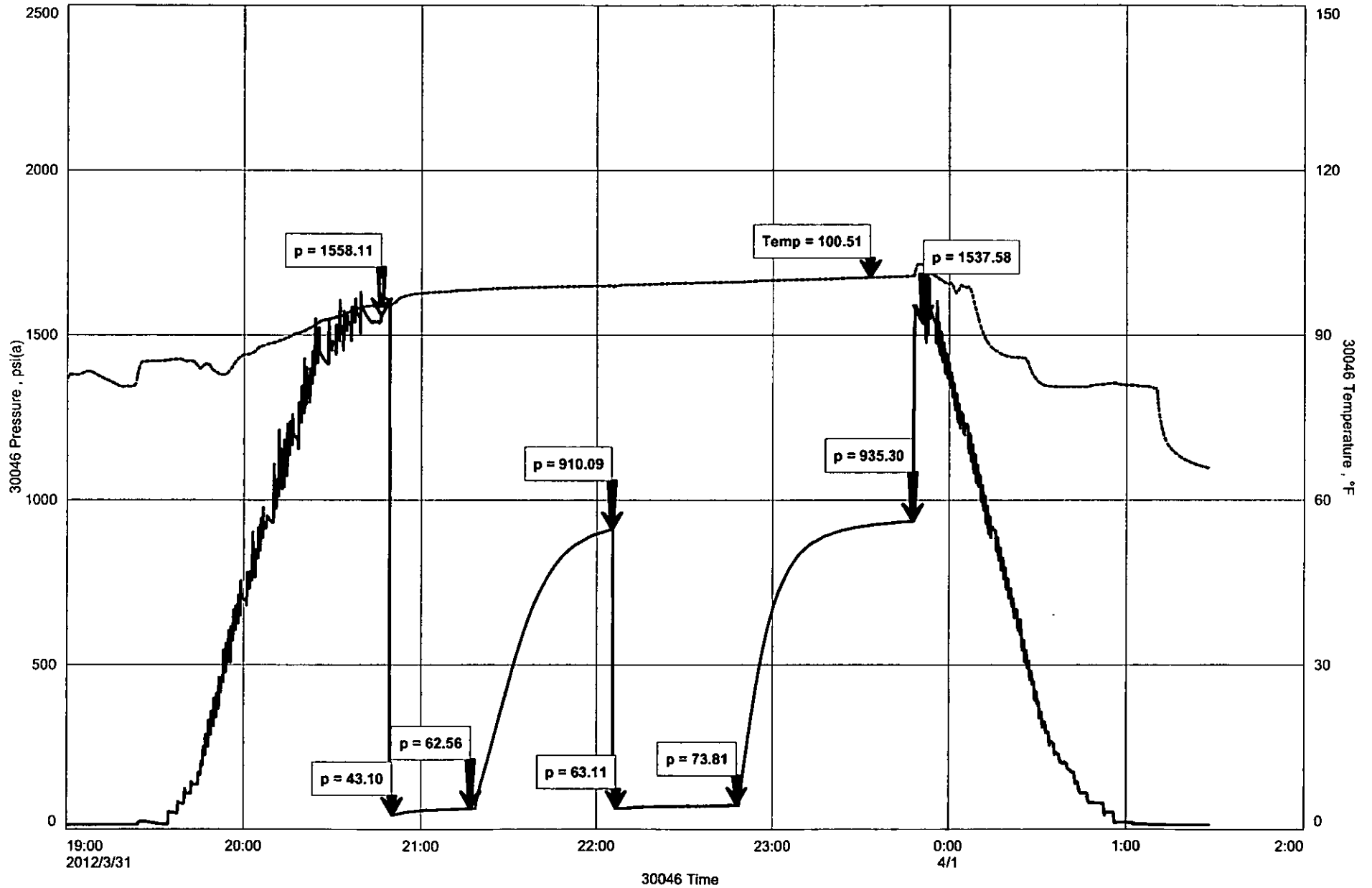
Initial Hydrostatic Pressure ..... (A) 1558 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 43 P.S.I. to (C) 63 P.S.I.  
 Initial Closed In Period ..... Minutes 45 (D) 910 P.S.I.  
 Final Flow Period ..... Minutes 45 (E) 63 P.S.I. to (F) 74 P.S.I.  
 Final Closed In Period ..... Minutes 60 (G) 935 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1537 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: 2012/03/31  
Final Test Date: 2012/04/01

DOONAN 2-31  
Formation: LANSING "A-F"  
Job Number: D1114

# DOONAN 2-31



## GENERAL INFORMATION

### Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

### Site Information:

Contact: JOSH AUSTIN

Phone: Fax: e-mail:

### Well Information:

Name: DOONAN 2-31

Operator: L D DRILLING INC

Location-Downhole:

Location-Surface: S10/31S/12W

### Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JOSH AUSTIN

Test Type: CON Job Number: D1115

Test Unit:

Start Date: 2012/04/01 Start Time: 09:00:00

End Date: 2012/04/01 End Time: 15:10:00

Report Date: 2012/04/01 Prepared By: JOHN RIEDL

Remarks: Qualified By: JOSH AUSTIN

RECOVERY" 600' GAS IN PIPE, 150' OIL SPECKED GASSY MUD



# DIAMOND TESTING

P.O. Box 157  
HOISINGTON, KANSAS 67544  
(620) 653-7550 • (800) 542-7313

ON 09:00 04/01/12

OFF 15:10 04/01/12

## DRILL-STEM TEST TICKET STC/DOONAN2-31DST2

Company L.D DRILLING INC Lease & Well No. DOONAN 2-31  
 Contractor PETROMARK #2 Charge to L.D DRILLING INC  
 Elevation 1861K.B Formation LANS "H+I" Effective Pay \_\_\_\_\_ Ft. Ticket No. D1115  
 Date 4/01/12 Sec. 10 Twp. 31 S Range 12 W County STAFFORD State KS  
 Test Approved By JOSH AUSTIN Diamond Representative JOHN C. RIEDL

Formation Test No. 2 Interval Tested from 3340 ft. to 3370 ft. Total Depth 3370 ft.  
 Packer Depth 3335 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Packer Depth 3340 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.

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

Top Recorder Depth (Inside) 3343 ft. Recorder Number 30046 Cap. 6000 P.S.I.  
 Bottom Recorder Depth (Outside) 3367 ft. Recorder Number 11073 Cap. 4000 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 58 Drill Collar Length 120 ft. I.D. 2 1/4 in.  
 Weight 8.8 Water Loss 9.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 3,000 P.P.M. Drill Pipe Length 3200 ft. I.D. 3 1/2 in.  
 Jars: Make BOWEN Serial Number NOT REQUESTED Test Tool Length 20 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 30 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: STRONG (B.O.B 5 MINUTES) NO BB  
 2nd Open: STRONG (B.O.B 15 MIN.) NO BB

Recovered 600 ft. of GAS IN PIPE  
 Recovered 140 ft. of OIL SPECKED GASSY MUD (25%GAS 75%MUD)

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>TOTAL FLUID REC:140' (20' IN DRILL PIPE, 120' IN DRILL COLLARS)</u>	Insurance
	Total

Time Set Packer(s) 10:45 A.M. A.M. P.M. Time Started Off Bottom 1:45 P.M. A.M. P.M. Maximum Temperature 102

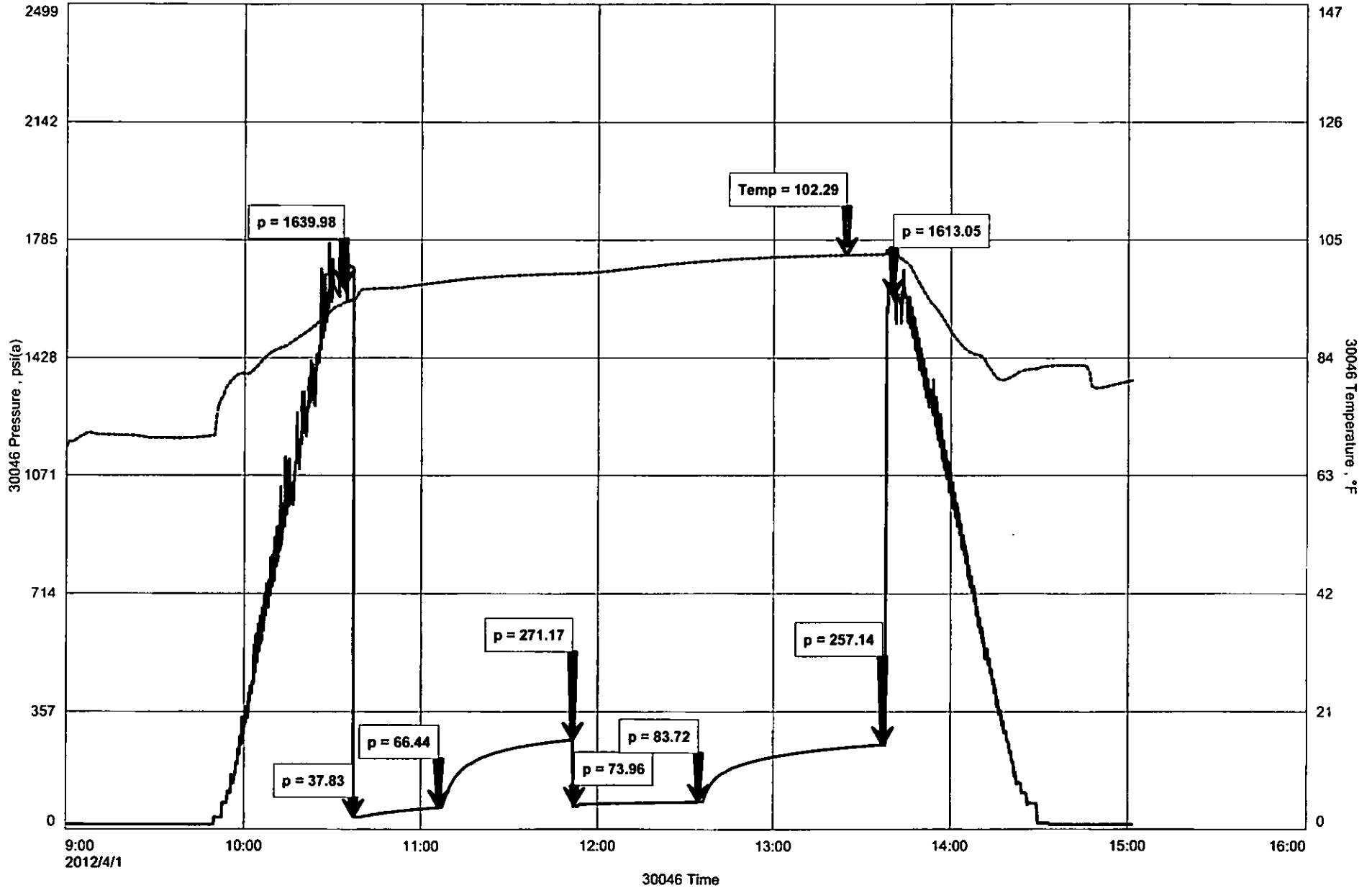
Initial Hydrostatic Pressure ..... (A) 1640 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 38 P.S.I. to (C) 66 P.S.I.  
 Initial Closed In Period ..... Minutes 45 (D) 271 P.S.I.  
 Final Flow Period ..... Minutes 45 (E) 74 P.S.I. to (F) 84 P.S.I.  
 Final Closed In Period ..... Minutes 60 (G) 257 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1613 P.S.I.

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L D DRILLING INC  
Start Test Date: 2012/04/01  
Final Test Date: 2012/04/01

DOONAN 2-31  
Formation: LANS "I+J"  
Job Number: D1115

# DOONAN 2-31





## GENERAL INFORMATION

### Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

### Site Information:

Contact: JOSH AUSTIN

Phone: Fax: e-mail:

### Well Information:

Name: DOONAN 2-31

Operator: L D DRILLING INC

Location-Downhole:

Location-Surface: S10/31S/12W

### Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JOSH AUSTIN

Test Type: CONVENTIONAL Job Number: D1117

Test Unit:

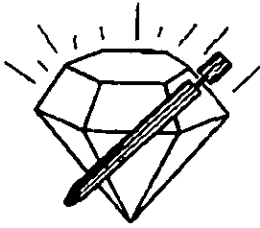
Start Date: 2012/04/02 Start Time: 13:00:00

End Date: 2012/04/02 End Time: 00:00:00

Report Date: 2012/04/02 Prepared By: JOHN RIEDL

Remarks: Qualified By: JOSH AUSTIN

RECOVERY: 600' GAS IN PIPE, 280' SLIGHTLY MUD CUT GASSY OIL



# DIAMOND TESTING

P.O. Box 157

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

ON 01:30 04/02/12

OFF 07:40 04/02/12

## DRILL-STEM TEST TICKET STC/DOONAN2-31DST3

Company L.D DRILLING INC Lease & Well No. DOONAN 2-31  
 Contractor PETROMARK #2 Charge to L.D DRILLING INC  
 Elevation 1861K.B Formation ARBUCKLE Effective Pay \_\_\_\_\_ Ft. Ticket No. D1117  
 Date 4/02/12 Sec. 10 Twp. 31 S Range 12 W County BARTON State KS  
 Test Approved By JOSH AUSTIN Diamond Representative JOHN C. RIEDL

Formation Test No. 3 Interval Tested from 3426 ft. to 3490 ft. Total Depth 3490 ft.  
 Packer Depth 3521 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Packer Depth 3526 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.

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

Top Recorder Depth (Inside) 3429 ft. Recorder Number 30046 Cap. 6000 P.S.I.  
 Bottom Recorder Depth (Outside) 3487 ft. Recorder Number 11073 Cap. 4000 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 58 Drill Collar Length 120 ft. I.D. 2 1/4 in.  
 Weight 8.8 Water Loss 9.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 3,000 P.P.M. Drill Pipe Length 3286 ft. I.D. 3 1/2 in.  
 Jars: Make BOWEN Serial Number NOT REQUESTED Test Tool Length 20 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 64 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: STRONG (B.O.B 12 MINUTES) NO BB  
 2nd Open: STRONG (10") NO BB

Recovered 600 ft. of GAS IN PIPE  
 Recovered 280 ft. of SLMCGO (10%MUD 25%GAS 65%OIL)

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Recovered _____ ft. of _____	Insurance
Remarks: <u>TOTAL FLUID REC: 280' (160' IN DRILL PIPE, 120' IN DRILL COLLARS)</u>	Total

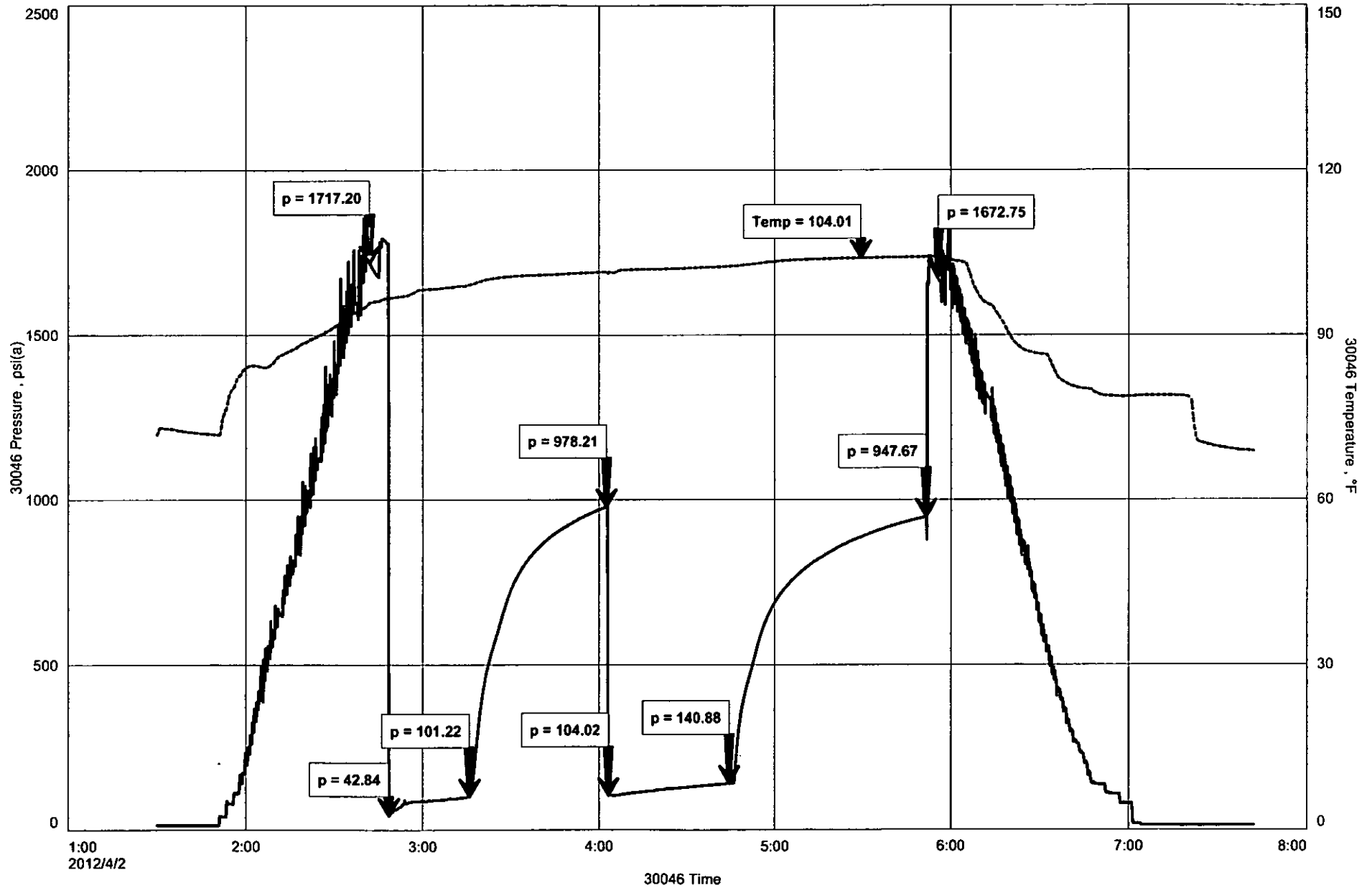
Time Set Packer(s) 2:50 P.M A.M. P.M. Time Started Off Bottom 5:50 A.M A.M. P.M. Maximum Temperature 104  
 Initial Hydrostatic Pressure ..... (A) 1717 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 43 P.S.I. to (C) 101 P.S.I.  
 Initial Closed In Period ..... Minutes 45 (D) 978 P.S.I.  
 Final Flow Period ..... Minutes 45 (E) 104 P.S.I. to (F) 141 P.S.I.  
 Final Closed In Period ..... Minutes 60 (G) 948 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1672 P.S.I.

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L D DRILLING INC  
Start Test Date: 2012/04/02  
Final Test Date: 2012/04/02

DOONAN 2-31  
Formation: ARBUCKLE  
Job Number: D1117

# DOONAN 2-31



## GENERAL INFORMATION

### Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

### Site Information:

Contact: JOSH AUSTIN

Phone: Fax: e-mail:

### Well Information:

Name: DOONAN 2-31

Operator: L D DRILLING INC

Location-Downhole:

Location-Surface: S10/31S/12W

### Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JOSH AUSTIN

Test Type: CONVENTIONAL Job Number: D1118

Test Unit:

Start Date: 2012/04/02 Start Time: 13:00:00

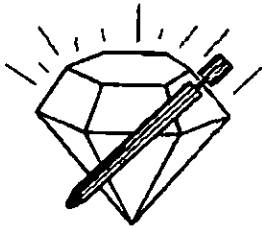
End Date: 2012/04/02 End Time: 19:00:00

Report Date: 2012/04/02 Prepared By: JOHN RIEDL

Qualified By: JOSH AUSTIN

### Remarks:

RECOVERY:250' GAS IN PIPE, 200' GASSY OIL



# DIAMOND TESTING

P.O. Box 157

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

ON 13:00 04/02/12

OFF 19:00 04/02/12

## DRILL-STEM TEST TICKET STC/DOONAN2-31DST4

Company L.D DRILLING INC Lease & Well No. DOONAN 2-31  
 Contractor PETROMARK #2 Charge to L.D DRILLING INC  
 Elevation 1861K.B Formation ARBUCKLE Effective Pay \_\_\_\_\_ Ft. Ticket No. D1118  
 Date 4/02/12 Sec. 10 Twp. 31 S Range 12 W County BARTON State KS  
 Test Approved By JOSH AUSTIN Diamond Representative JOHN C. RIEDL

Formation Test No. 4 Interval Tested from 3490 ft. to 3502 ft. Total Depth 3502 ft.  
 Packer Depth 3485 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Packer Depth 3490 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.

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

Top Recorder Depth (Inside) 3493 ft. Recorder Number 30046 Cap. 6000 P.S.I.  
 Bottom Recorder Depth (Outside) 3499 ft. Recorder Number 11073 Cap. 4000 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 58 Drill Collar Length 120 ft. I.D. 2 1/4 in.  
 Weight 8.8 Water Loss 9.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 3,000 P.P.M. Drill Pipe Length 3350 ft. I.D. 3 1/2 in.  
 Jars: Make BOWEN Serial Number NOT REQUESTED Test Tool Length 20 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 12 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: STRONG (B.O.B 25 MINUTES) NO BB  
 2nd Open: STRONG B.O.B 40 MINUTES)) NO BB

Recovered 250 ft. of GAS IN PIPE  
 Recovered 200 ft. of GO (20%GAS 80%OIL) 37 GRAVITY @ 60 DEGREES

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>TOTAL FLUID REC:200' (80' IN DRILL PIPE, 120' IN DRILL COLLARS)</u>	Insurance
_____	Total

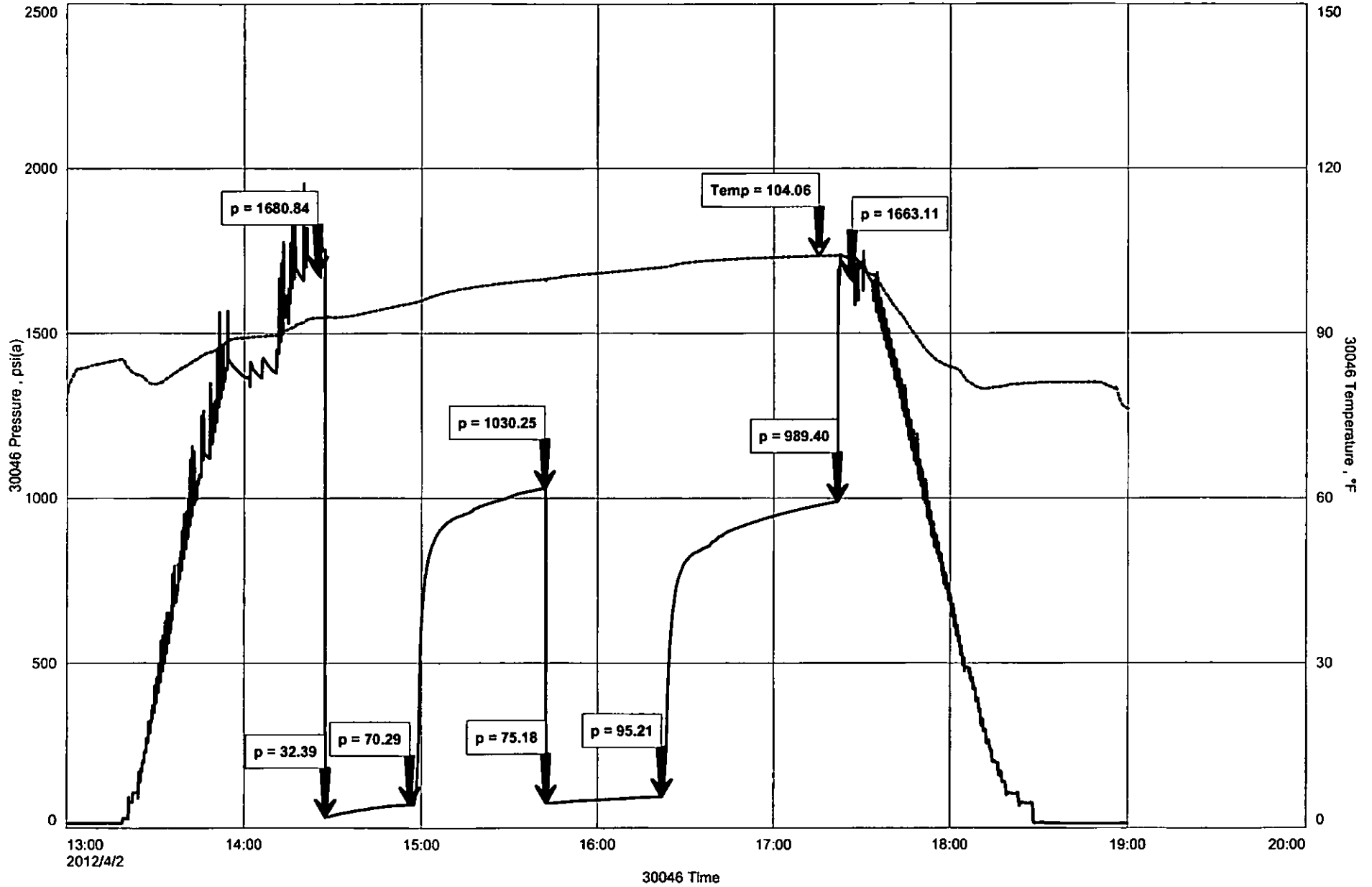
Time Set Packer(s) 2:30 p.m. <sup>A.M.</sup> P.M. Time Started Off Bottom 5:30 P.M. <sup>A.M.</sup> P.M. Maximum Temperature 104  
 Initial Hydrostatic Pressure ..... (A) 1680 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 32 P.S.I. to (C) 70 P.S.I.  
 Initial Closed In Period ..... Minutes 45 (D) 1030 P.S.I.  
 Final Flow Period ..... Minutes 45 (E) 75 P.S.I. to (F) 95 P.S.I.  
 Final Closed In Period ..... Minutes 60 (G) 989 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1663 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: 2012/04/02  
Final Test Date: 2012/04/02

DOONAN 2-31  
Formation: ARBUCKLE  
Job Number: D1118

# DOONAN 2-31



## GENERAL INFORMATION

### Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

### Site Information:

Contact: JOSH AUSTIN

Phone: Fax: e-mail:

### Well Information:

Name: DOONAN 2-31

Operator: L D DRILLING INC

Location-Downhole:

Location-Surface: S10/31S/12W

### Test Information:

Company: DIAMOND TESTING

Representative: JOHN RUEDL

Supervisor: JOSH AUSTIN

Test Type: CONVENTIONAL Job Number: D1118

Test Unit:

Start Date: 2012/04/02 Start Time: 23:30:00

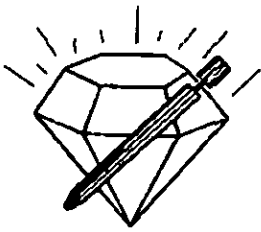
End Date: 2012/04/03 End Time:

Report Date: 2012/04/03 Prepared By: JOHNRIEDL

Qualified By: JOSH AUSTIN

### Remarks:

RECOVERY: 500' GAS IN PIPE, 200' GASSY OIL



**DIAMOND TESTING**

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

ON 23:30 04/02/12

OFF 05:00 04/03/12

**DRILL-STEM TEST TICKET**  
STC/DOONAN2-31DST5

Company L.D DRILLING INC Lease & Well No. DOONAN 2-31  
 Contractor PETROMARK #2 Charge to L.D DRILLING INC  
 Elevation 1861K.B Formation ARBUCKLE Effective Pay \_\_\_\_\_ Ft. Ticket No. D1118  
 Date 4/03/12 Sec. 10 Twp. 31 S Range 12 W County BARTON State KS  
 Test Approved By JOSH AUSTIN Diamond Representative JOHN C. RIEDL

Formation Test No. 5 Interval Tested from 3502 ft. to 3514 ft. Total Depth 3514 ft.  
 Packer Depth 3497 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Packer Depth 3502 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3505 ft. Recorder Number 30046 Cap. 6000 P.S.I.  
 Bottom Recorder Depth (Outside) 3509 ft. Recorder Number 11073 Cap. 4000 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 58 Drill Collar Length 120 ft. I.D. 2 1/4 in.  
 Weight 8.8 Water Loss 9.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 3,000 P.P.M. Drill Pipe Length 3362 ft. I.D. 3 1/2 in.  
 Jars: Make BOWEN Serial Number NOT REQUESTED Test Tool Length 20 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 12 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: STRONG (B.O.B 28 MINUTES) NO BB  
 2nd Open: STRONG B.O.B 43 MINUTES)) WEAK BB

Recovered 500 ft. of GAS IN PIPE  
 Recovered 200 ft. of GO (15%GAS 85%OIL) GRAVITY 37@ 60 DEGREES

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Recovered _____ ft. of _____	Insurance
Remarks: <u>TOTAL FLUID REC: 200' (80' IN DRILL PIPE, 120' IN DRILL COLLARS)</u>	Total

Time Set Packer(s) 12:50 a.m A.M. P.M. Time Started Off Bottom 3:50 a.m A.M. P.M. Maximum Temperature 105  
 Initial Hydrostatic Pressure ..... (A) 1728 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 33 P.S.I. to (C) 68 P.S.I.  
 Initial Closed In Period ..... Minutes 45 (D) 1012 P.S.I.  
 Final Flow Period ..... Minutes 45 (E) 76 P.S.I. to (F) 102 P.S.I.  
 Final Closed In Period ..... Minutes 60 (G) 967 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1694 P.S.I.

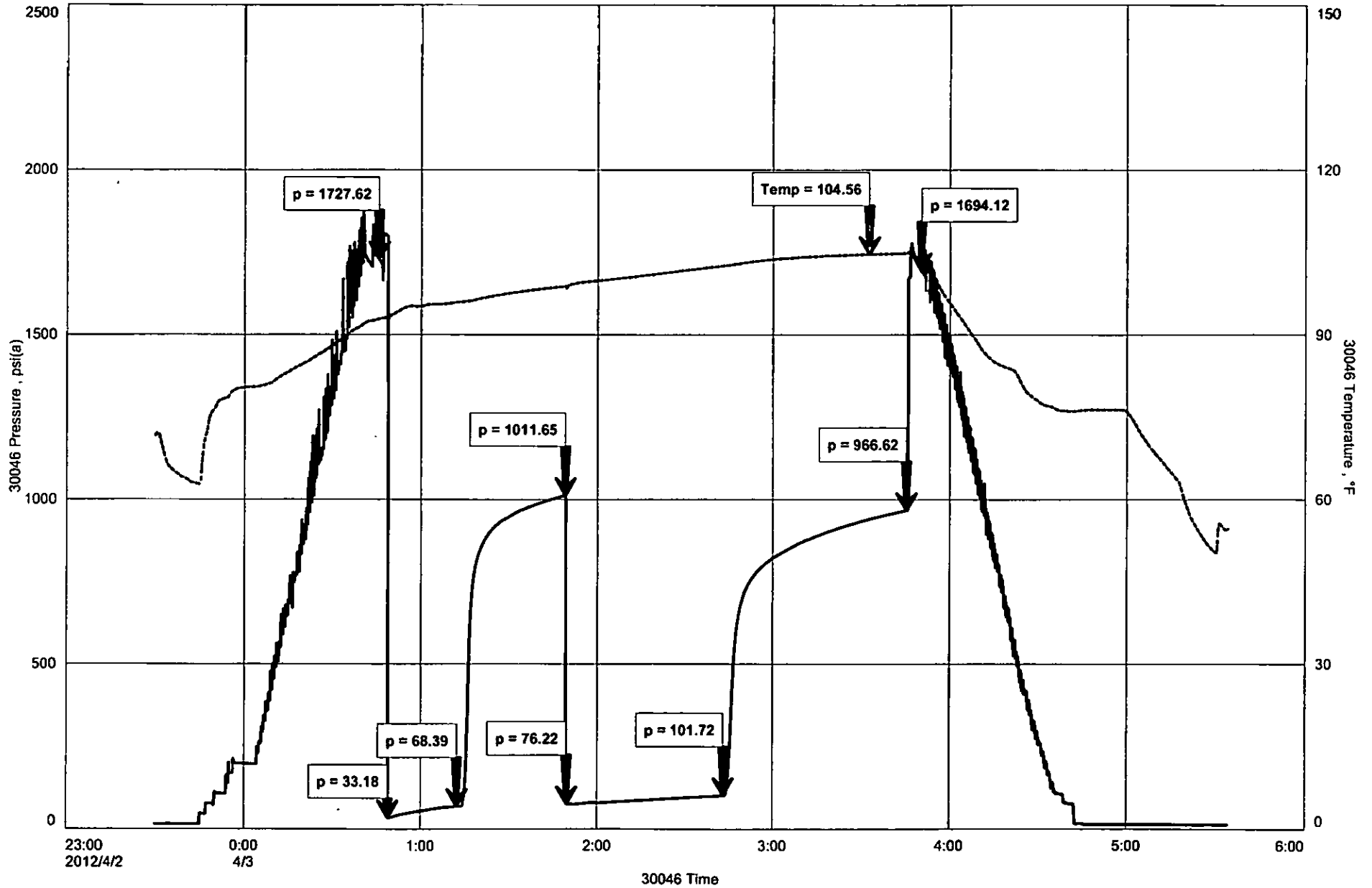
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L D DRILLING INC  
Start Test Date: 2012/04/02  
Final Test Date: 2012/04/03

DOONAN 2-31  
Formation: ARBUCKLE  
Job Number: D1118

# DOONAN 2-31



**OPERATOR**

Company: L.D. Drilling, Inc.  
 Address: 7 SW 26th AVE  
 Great Bend, Kansas 67530

Contact Geologist:  
 Contact Phone Nbr: 620-793-3051  
 Well Name: Doonan #2-31  
 Location: 8 5/8" @ 332'  
 Pool:  
 State: Kansas

API: 15-009-25666-0-00  
 Field: Rolling Green East  
 Country: USA



Scale 1:240 Imperial

Well Name: Doonan #2-31  
 Surface Location: 8 5/8" @ 332'  
 Bottom Location:  
 API: 15-009-25666-0-00  
 License Number:  
 Spud Date: 3/26/2012 Time: 3:34 PM  
 Region: Barton County, SW-SW-NW 31-20s-12w  
 Drilling Completed: 4/3/2012 Time: 5:50 PM  
 Surface Coordinates: 2310' From North Line & 330' From West Line  
 Bottom Hole Coordinates:  
 Ground Elevation: 1856.00ft  
 K.B. Elevation: 1861.00ft  
 Logged Interval: 2800.00ft To: 3630.00ft  
 Total Depth: 3630.00ft  
 Formation: Lansing  
 Drilling Fluid Type: Chemical mud was displaced at 2787'

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude: Latitude:  
 N/S Co-ord: 2310' From North Line  
 E/W Co-ord: 330' From West Line

**LOGGED BY**

Company: Musgrove Petroleum  
 Address: 212 Main ST  
 Clafin, KS 67525  
 Phone Nbr: 620-546-3960  
 Logged By: Geologist Name: Josh Austin

**CONTRACTOR**

Contractor: Petromark Drilling, LLC  
 Rig #: 2  
 Rig Type: mud rotary  
 Spud Date: 3/26/2012 Time: 3:34 PM  
 TD Date: 4/3/2012 Time: 5:50 PM  
 Rig Release: Time:

**ELEVATIONS**

K.B. Elevation: 1861.00ft Ground Elevation: 1856.00ft

**NOTES**






On the basis of the high structural position, positive drill stem test in the Arbuckle and after review the electric log, it was recommended by all parties involved in the Doonan 2-31 to run 5 1/2" production casing at rotary total depth 3630'

# L.D. Drilling, Inc.





## well comparison sheet

DRILLING WELL					COMPARISON WELL			
Doonan 2-31					Doonan 1-31			
					Structural Relationship			
1861 KB		No Log was ran			1862 KB			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log
Anhydrite	678	1183	678	1183	679	1183		
Heebner	3084	-1223	3086	-1225	3086	-1224	1	-1
Toronto	3100	-1239	3102	-1241				
Douglas	3118	-1257	3120	-1259				
Brown Lime	3204	-1343	3206	-1345	3208	-1346	3	1
Lansing	3218	-1357	3222	-1361	3223	-1361	4	FLAT
Base KC	3432	-1571	3434	-1573	3434	-1572	1	-1
Conglomerate	3444	-1583	3448	-1587				
Arbuckle	3479	-1618	3480	-1619	3491	-1629	11	10
Total Depth	3630	-1769	3632	-1771	3600	-1738		

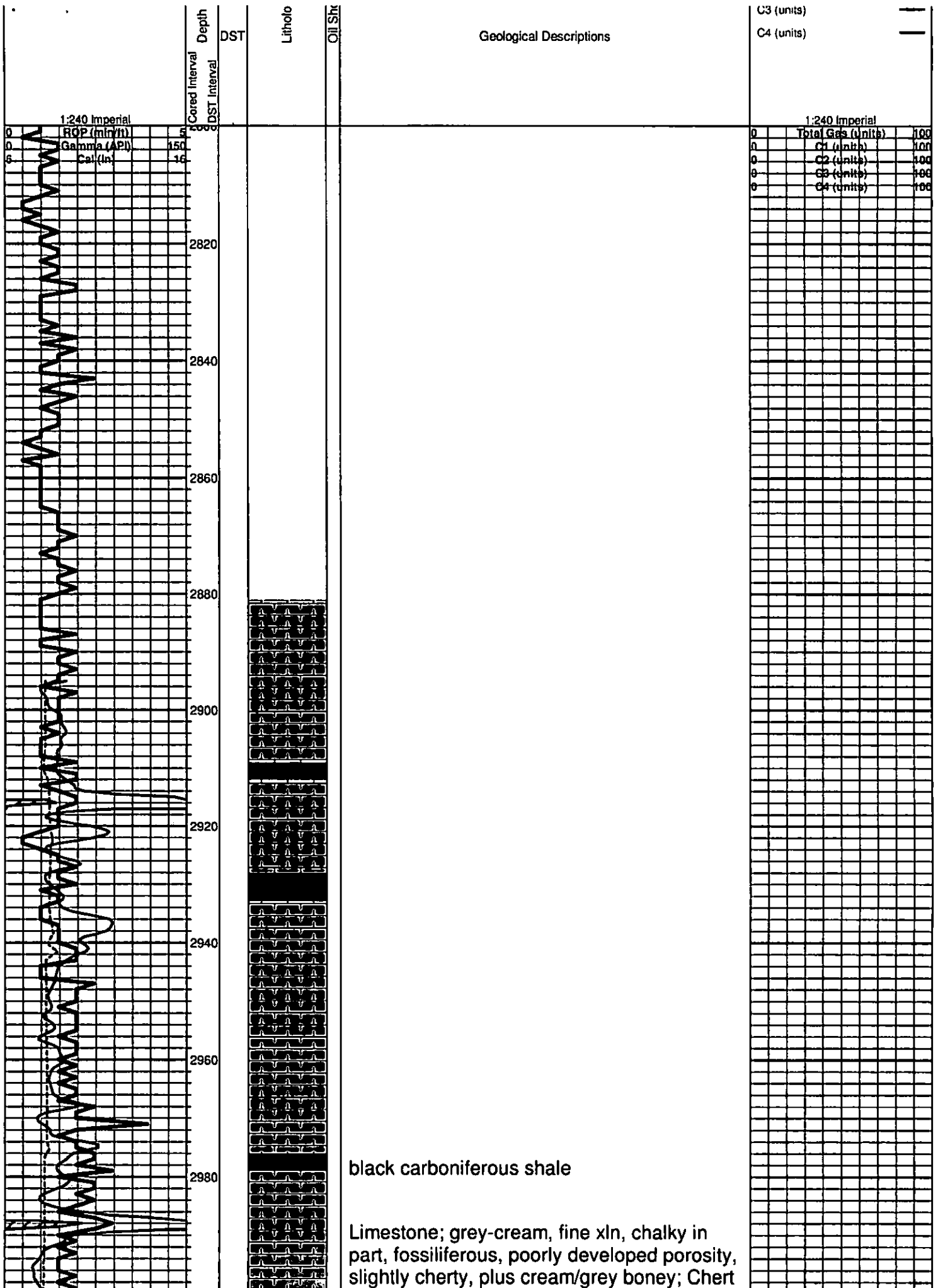
**ROCK TYPES**

 Chtcngl	 Lmst fw7> shale, gry	 Carbon Sh
 Dolprim	 Ss	

**OTHER SYMBOLS**

<b>DST</b>	
 DST Int	
 DST alt	
 Core	
 tail pipe	

Curve Track #1				TG, C1 - C5			
ROP (min/ft)	—	Intervals	BY	MC	Total Gas (units)	—	
Gamma (API)	—				C1 (units)	—	
Cal (in)	—				C2 (units)	—	



1:240 Imperial  
 ROP (min/ft)  
 Gamma (API)  
 Cal (in)

1:240 Imperial  
 Total Gas (units)  
 C1 (units)  
 C2 (units)  
 C3 (units)  
 C4 (units)

black carboniferous shale

Limestone; grey-cream, fine xln, chalky in part, fossiliferous, poorly developed porosity, slightly cherty, plus cream/grey boney; Chert



**LANSING 3216 (-1537)**

Limestone; cream-buff, fine xln, oolitic-fossiliferous, trace pin point-vuggy porosity, brown stain, spotty SFO, faint odor

Limestone; cream, oomoldic, chalky, fair-good oomoldic porosity, brown-black stain, SFO, SAT in part, good odor, trace gas bubbles

Limestone; cream-white, chalky, golden brown-brown stain, NSFO, poor porosity, faint odor

Limestone; tan-buff-lt. grey, fine-medium xln, chalky in part, slightly fossiliferous, few scattered porosity, trace black-brown stain, NFSO, questionable odor

Limestone; grey-cream, fine-medium xln, chalky, few oolitic pieces, dense, poor porosity, trace brown stain, NSFO, faint odor

Limestone; cream-grey, oolitic, poorly developed porosity, brown stain, trace spotty, faint odor

Limestone; tan-buff, oolitic, sub oomoldic, chalky, few granular pieces, fair oomoldic porosity, questionable brown stain and trace free oil, no odor

Limestone; grey-cream, fine xln, chalky, slightly fossiliferous, dense, poor porosity

Limestone as above plus lt. grey boney; Chert grey/black shale

Limestone; buff-grey, oolitic, chalky in part, dense, inter xln type porosity, brown-grey stain, SFO, faint-fair odor

Limestone; cream-lt. grey, oolitic, chalky in part, poorly developed porosity, no shows

Limestone; as above plus white chalk

Limestone; cream-white, chalky, oomoldic, fair-good oomoldic porosity, trace lt. grey stain, NSFO, very faint odor

Limestone; cream-grey, fine-medium xln, fossiliferous, chalky, scattered porosity, trace brown-grey stain, trace spotty FO, faint odor

Limestone; grey, fine xln, chalky, oolitic, fossil cast-inter xln porosity, brown stain, trace FO, very faint odor

**BASE KANSAS CITY 3432 (-1571)**

grey-green-maroon shale

DST #1 3207-3300  
30-45-45-60

Blow;  
Strong, BOB in 2 min  
Final; BOB immed.  
GTS in 3 min  
No Blow Back  
Gas stabilized at 10 MCF/D

Recovery;  
150' VSLOGGM  
(3%oil, 25%gas, 72% mud)

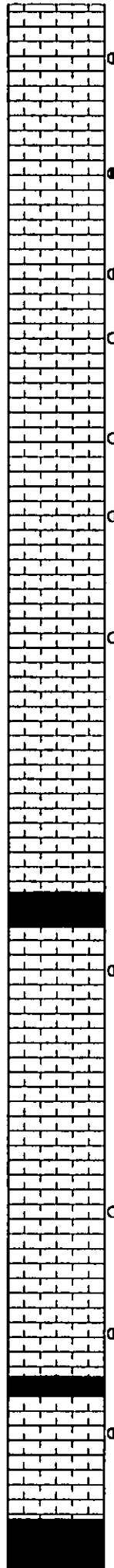
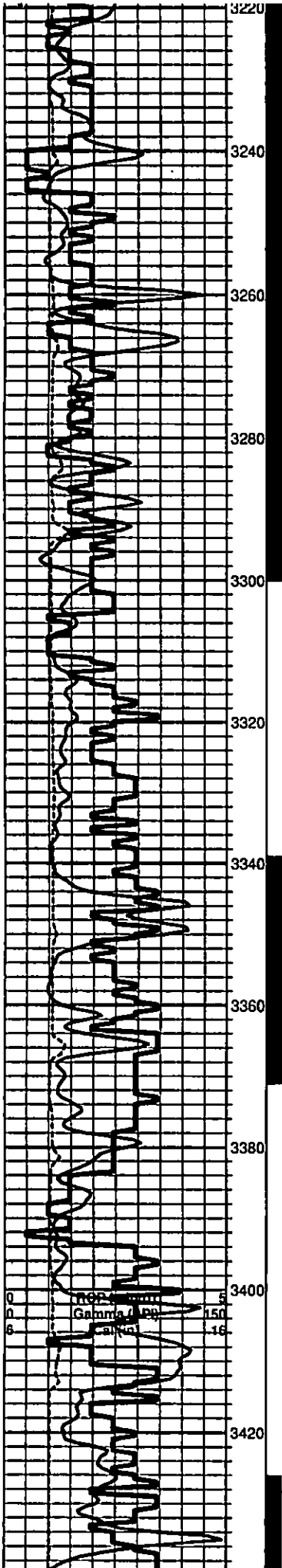
Pressure;  
ISIP 910  
FSIP 935  
IFP 43-63  
FFP 63-74  
HSH 1558-1537

DST # 2 3340-3370  
Blow; BOB in 5 min  
final; BOB in 15 min  
no blow back

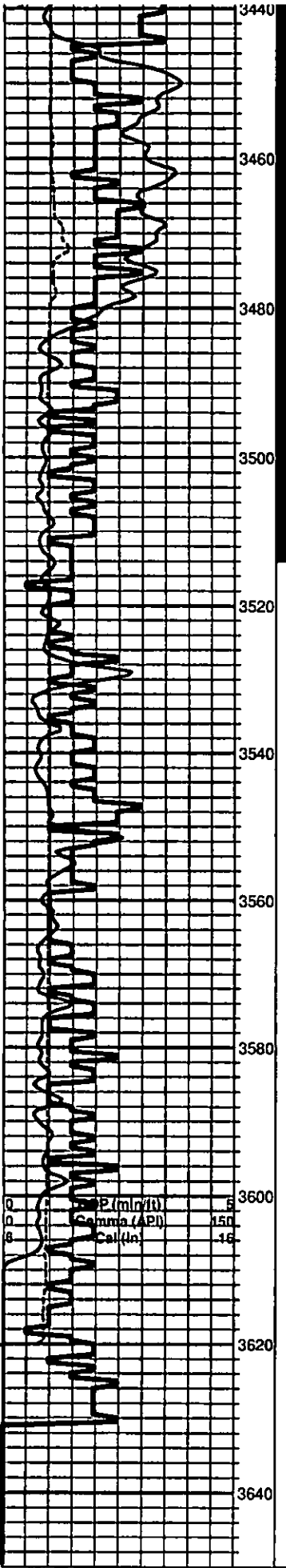
Recovery;  
500' GIP  
140' OSGM  
(25%gas, 75% mud)

Pressures;  
ISIP 271  
FSIP 257  
IFP 38-66  
FFP 74-84  
HSH 1640-1613

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



DST #1 3207-3300 30-45-45-60		
Blow; Strong, BOB in 2 min Final; BOB immed. GTS in 3 min No Blow Back Gas stabilized at 10 MCF/D		
Recovery; 150' VSLOGGM (3%oil, 25%gas, 72% mud)		
Pressure; ISIP 910 FSIP 935 IFP 43-63 FFP 63-74 HSH 1558-1537		
DST # 2 3340-3370 Blow; BOB in 5 min final; BOB in 15 min no blow back		
Recovery; 500' GIP 140' OSGM (25%gas, 75% mud)		
Pressures; ISIP 271 FSIP 257 IFP 38-66 FFP 74-84 HSH 1640-1613		
0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



**CONGLOMERATE 3444 (-1583)**

variety colored Chert, plus grey-green-brick red, "gummy" Shale

Chert; as above plus green-red shale

**ARBUCKLE 3479 (-1618)**

Dolomite; buff-grey, fine-medium xln, fair inter lxn porosity, brown stain, SFO, fair-good odor

Dolomite; grey-buff-cream, fine xln, few granular, poorly developed porosity, black-grey stain, slight SFO, fair-good odor

Dolomite; grey-cream, fine xln, few sucrosic, poorly developed porosity, cherty in part, brown-black stain, slight SFO fair odor trace grey-white boney Chert

Dolomite; tan-cream, fine-medium xln, dense, few vuggy-inter xln porosity, brown-black stain, few pieces SFO/SAT, fair-good odor

Dolomite; cream-tan, fine xln, sucrosic, brown-black spotty stain

Dolomite; grey-tan, medium xln, fair inter xln, porosity, brown-black stain, SFO/SAT, good odor

Dolomite; cream-buff-tan, fine xln, dense, slightly cherty, lt. brown-black stain, trace free oil (shows starting to decrease)

Trace lt. grey dolomite; granular, black stain, SFO/SAT trace quartz

Dolomite; tan-cream, fine-medium xln, dense, trace brown stain, NSFO, very faint odor plus white-lt. grey boney; Chert

Dolomite; white-cream-buff, fine xln, dense, poor porosity, no shows, plus white-lt. grey boney Chert

Dolomite and Chert as above

**ROTARY TOTAL DEPTH 3630 (-1769)**

DST #3 3426-3490		
30-45-45-60		
Blow; BOB in 12 min		
Final; built to 10"		
Recovery;		
600' GIP		
280' sil MCGO		
Pressure;		
ISIP 978		
FSIP 948		
IFP 43-101		
FFP 104-141		
HSH 1717-1672		
DST #4 3490-3502		
30-45-45-60		
Blow; BOB in 25 min		
Final; BOB in 40 min		
no blow back		
Recovery;		
250' GIP		
200' GO		
Pressure;		
ISIP 1030		
FSIP 989		
IFP 32-70		
FFP 75-95		
HSH 1680-1663		
DST #5 3502-3514		
30-45-45-60		
Blow; BOB in 28 min		
no blow back		
Final; BOB in 35 min		
weak blow back		
Recovery;		
500' GIP		
200' CGO		
Pressures;		
ISIP 1012		
FSIP 967		
IFP 33-68		
FFP 76-102		
HSH 1728-1694		
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100