



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1083031

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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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	Tyep and Percent Additives
SURFACE	12.25	8.625	24	332	A-CON BLEND	175	
SURFACE CONT	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	



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ENERGY SERVICES
 PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 05918 A

DATE _____ TICKET NO. _____

DATE OF JOB 3-27-12 DISTRICT Pratt		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		LEASE Downer		WELL NO. 231				
ADDRESS		COUNTY Barton		STATE K S				
CITY		STATE		SERVICE CREW Orlando, Mitchell, Pearson				
AUTHORIZED BY		JOB TYPE: CNW - 8 5/8 Surface						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	TIME
27283	1/2						3-27-12	2:00
27463	1/2					ARRIVED AT JOB		4:00
19831-19867	1/2					START OPERATION		
						FINISH OPERATION		
						RELEASED		
						MILES FROM STATION TO WELL		45

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
CPI0F	A-Con Blend Cement	SK	175		3150.00
CPI00C	Common Cement	SK	175		2800.00
CC102	CellStake	Lb	88		325.60
CC109	Calcium Chloride	Lb	825		866.25
CF153	Wooden Cement Plug	ea	1		160.00
E100	Pickup Mileage	Mi	45		191.25
E101	Heavy Equipment Mileage	Mi	70		630.00
E113	Bulk Delivery	Ton	743		1188.00
CE200	Depth Charge 0-500'	ea	1		1000.00
CE240	Blending & Mixing Service Charge	SK	350		490.00
CE504	Plug Container	ea	1		250.00
S003	Service Supervisor	ea	1		175.00

CHEMICAL / ACID DATA:			

SUB TOTAL		215	8868.62
SERVICE & EQUIPMENT	%TAX ON \$		
MATERIALS	%TAX ON \$		
TOTAL			

SERVICE REPRESENTATIVE Steve Orland	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: _____ (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
FIELD SERVICE ORDER NO. _____	

Customer <i>L.D. Drilling</i>	Lease No.	Date <i>3-27-12</i>	
Lease <i>Down</i>	Well # <i>2-31</i>	Field Order # <i>5918</i>	Station <i>Pent</i>
Casing <i>2 3/8</i>	Depth <i>330</i>	County <i>Barton</i>	State <i>KS</i>
Type Job <i>CNW - 8 3/8 Surface</i>	Formation	Legal Description <i>31-00-12</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>2 3/8</i>	Tubing Size	Shots/Ft		Acid- <i>175 gal</i>		RATE	PRESS	ISIP
Depth <i>330</i>	Depth	From	To <i>175</i>	Pre Pad <i>120</i>		Max		5 Min.
Volume <i>21.1</i>	Volume	From	To	Pad		Min		10 Min.
Max Press <i>300</i>	Max Press	From	To	Frac		Avg		15 Min.
Well Connection <i>P.C.</i>	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth <i>315</i>	Packer Depth	From	To	Flush <i>20</i>		Gas Volume		Total Load

Customer Representative <i>Jim</i>	Station Manager <i>Down</i>	Treater <i>Bill</i>
Service Units <i>27333 27403 19231 17800</i>		
Driver Names <i>Down Miller Pearson</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>4:00 AM</i>					<i>On location - Safety Meeting</i>
					<i>Run 8 3/8 3 3/8 Casing</i>
					<i>Connect to Surface</i>
					<i>Break Circ with H₂O</i>
<i>5:30</i>	<i>250</i>		<i>77</i>	<i>5</i>	<i>Run 175 gal Acid Blend @ 11</i>
<i>5:40</i>	<i>250</i>		<i>37%</i>	<i>5</i>	<i>Run 175 gal Cement @ 15.6</i>
					<i>Shut Down</i>
					<i>Remove plug</i>
<i>5:50</i>	<i>300</i>		<i>0</i>	<i>11</i>	<i>Shut 1120 Displacement</i>
<i>5:57</i>	<i>300</i>		<i>8</i>	<i>11</i>	<i>Connect to Surface</i>
<i>6:00</i>	<i>300</i>		<i>20</i>	<i>11</i>	<i>Plug Down</i>
					<i>Conclusion This Job -</i>
					<i>Completed 11 bbl cement top</i>
					<i>Job Complete</i>
					<i>12:00 3/27/12</i>



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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.D. Drilling Inc.		LEASE Doonaw 2-31		WELL NO.:					
ADDRESS		COUNTY Stafford 31-20-12 STATE Ks							
CITY STATE		SERVICE CREW Allen Keever, Ed. Bowers							
AUTHORIZED BY		JOB TYPE: 5 1/2" L.S. C.N.W.							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
#28443 P.U.	1 1/2						4-3-12	AM	7:50
19889-19843	1 1/2					ARRIVED AT JOB	4-3-12	AM	7:15
19832-21010	1 1/2					START OPERATION	4-3-12	AM	10:00
32586 P4	1 1/2					FINISH OPERATION	4-3-12	AM	11:50
						RELEASED	4-4-12	PM	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
CP100C	Common Cement	SK	150		\$ 2400.00
CP103	60/40 Poz	SK	30		\$ 360.00
CC102	cell Flake	lb	38		\$ 140.60
CC112	cement Friction Reducer	lb	43		\$ 258.00
CC120	F/A-322	lb	43		\$ 322.50
CC113	Gypsw	lb	202		\$ 528.75
CC200	cement Gel	lb	282		\$ 70.50
CF103	Top Rubber	EA	1		\$ 105.00
CF251	Guide Shoe	EA	1		\$ 250.00
CF1451	Flapper Type Insert Float Valve 5 1/2"	EA	1		\$ 250.00
CFB651	Turbolizer 5 1/2" Blue	EA	6		\$ 660.00
CC151	mud Flush	EA	1000		\$ 960.00
E100	unit mileage chg. Pickup	mi	4.5		\$ 181.25
E101	Heavy Equip mileage	mi	90		\$ 600.30
E113	Bulk Delivery chg.	TM	376		\$ 601.20
CE204	Depth Chg. 3001-4000	4-hr	1		\$ 2160.00
CE240	Bulk Del. Chg	SK	180		\$ 252.00
CE504	plug container utilization chg	Job	1		\$ 200.00
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. W. ent	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Jim M. Kelly (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
FIELD SERVICE ORDER NO.	

BASIC

energy services, L.P.

TREATMENT REPORT

Customer L.D. Drilling INC	Lease No.	Date 4-3-12
Lease DOOAN	Well # 2-31	
Field Order # 056-18A	Station Pratt KS	Casing 5 1/2"
Type Job 5 1/2" L.S.	Formation cnw	Depth 3627
		County Stafford
		State Ks
		Legal Description T03630 31-20-12

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size 5 1/2"	Tubing Size	Shots/Ft		Acid 1000 gal mud flush	RATE	PRESS	(SIP)
Depth 3627	Depth	From	To	Pre Pad 150 SK common cement	Max		5 Min.
Volume 88 BBL	Volume	From	To	Pad 30 SKs 60/40 Poz Plug R.H.	Min		10 Min.
Max Press 1000 #	Max Press	From	To	Frac	Avg		15 Min.
Well Connection PL	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 3602	Packer Depth	From	To	Flush Disp H2O	Gas Volume		Total Load

Customer Representative Jim TP	Station Manager scotty	Treater Allen
--	----------------------------------	-------------------------

Service Units 28443	19989	19843	19832	21010	37586			
Driver Names Allen	Edmundo	Justin	Bowers	Keever				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
7:15 PM					ON Loc. Discuss Safety, Setup, Plans.
					Laying down collars
					out of hole lay down Kelly.
					Rig up To Run 5 1/2" csg. 14'
8:35					Start 5 1/2" csg. Shoe Jt. 25'
					w/ Reg. Shoe, Insert Fill in collar.
					cent 1-3-5-7-9-11.
1000					Tag @ 3630' Pickup + CIR @ 3627
1100	200 #		24	5 1/2	Pump 24 BBL mud flush (1000 gal
			5	5 1/2	Pump 5 BBL N° spacer
			38	5 1/2	Pump 150 BBL common e 15 #/gal
					Finish mix, Whshout pump + line
				6	Drop Top Rubber Plug. 5 1/2" Start Disl
				5	caught, Lift PSI 55 BBL out
1150	300 #			4	Plug down
	1000 #				Release PSI 0 #
	0 #		7		Plug R.H. w/ 30 SKs 60/40 Poz
					wash up Equip. + Rack up
					Job complete.
					+ thanks Allen, Keever, Edmundo
					Bowers



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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:		SERVICE CREW: C. Messick; S. Young; M. Mattal								
AUTHORIZED BY:		JOB TYPE: C. N.W. - Squeeze Annular Perforations								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
37216	3						4-10-12			7:00
						ARRIVED AT JOB				9:45
						START OPERATION				10:15
19,903-19,905	3					FINISH OPERATION				1:15
19,832-19,862	3					RELEASED	4-10-12			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-4IP	Lb	6	\$	24.00
P CC112	Cement Friction Reducer	Lb	12	\$	72.00
P CC129	FLA-322	Lb	12	\$	90.00
P AK325	15% HCL Acid	Gal	200	\$	400.00
P C204	CIA-1EP: 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: *R. M. [Signature]*
 THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *L.D. Drilling [Signature]*
 (WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer L.D. Drilling, Incorporated	Lease No. Doonan	Date 4-10-12
Lease Doonan	Well # 2-31	C.I.B.P.
Field Order # 6108	Station Pratt, Kansas	Casing 5 1/2 14Lb
	Depth 568 Feet	County Barton
Type Job C.N.W. - Squeeze Arbuckle Perforations	Formation Arbuckle	State Kansas
		Legal Description 31-205-12W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2 14Lb	Tubing Size 3 1/2 18	Shots/Ft		Acid 200 Gallons	158	RATE Regular Acid		ISIP
Depth 3568 Ft	Depth 3427 Ft	From 3532	To 3536	25	sacks	Common with	58 F.L.A. 322	5 Min. P.P., 258 Defam
Volume 2 Bbl.	Volume 1.8 Feet	From	To	25	sacks	Common	(Neat)	10 Min.
Max Press 500 PSI	Max Press 2500 PSI	From	To	15.6	Lb./Gal.	Avg	5.22 Gal./Stk.	15 Min. 1.18 cu ft / Stk.
Well Connection 3 1/2 18	Annulus Vol	From	To			HHP Used		Annulus Pressure
Plug Depth 3568 Ft	Packer Depth 3427 Ft	From	To	Flush	22.4 Bbl.	Fresh Water		Total Load

Customer Representative L.D. Davis	Station Manager David Scott	Treater Clarence R. Messick
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Service Units	37,216	19,903	19,905	19,832	19,862				
Driver Names	Messick	Mattal	Young						

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		100		3	Packer unset at 3,537 Feet Start salt water to
		300	15	3	Well full. Start 200 Gallons 158 Regular Acid.
10:57			21		Acid on spot. 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 sacks commencement with fluid
		1200	5.4	1.25	Start mixing 25 sacks commencement. (Neat)
			10.7		Stop pumping. Shut in well. Wash pump and lines.
		-0-			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		2500	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 truck.
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

DRILL-STEM TEST TICKET

Company _____ Lease & Well No. _____
 Contractor _____ Charge to _____
 Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
 Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State _____
 Test Approved By _____ Diamond Representative **JOHN C. RIEDL**

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
 Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
 Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
 Jars: Make BOWEN Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
 2nd Open: _____

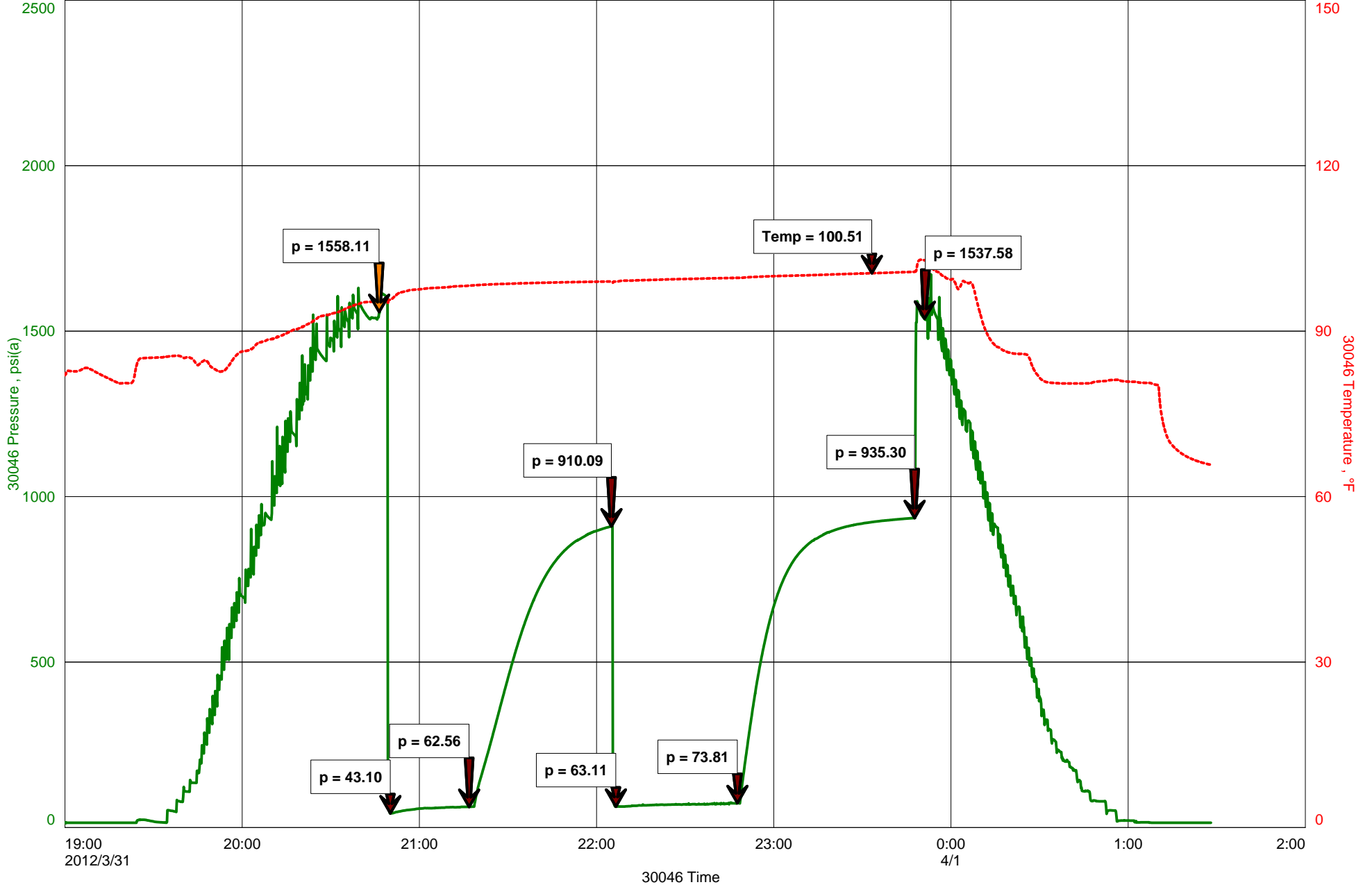
Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____ _____ _____	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) _____	A.M. P.M.	Time Started Off Bottom _____	A.M. P.M.	Maximum Temperature _____
Initial Hydrostatic Pressure _____	(A)	_____	P.S.I.	
Initial Flow Period _____	Minutes	(B)	_____	P.S.I. to (C) _____ P.S.I.
Initial Closed In Period _____	Minutes	(D)	_____	P.S.I.
Final Flow Period _____	Minutes	(E)	_____	P.S.I. to (F) _____ P.S.I.
Final Closed In Period _____	Minutes	(G)	_____	P.S.I.
Final Hydrostatic Pressure _____	(H)	_____	P.S.I.	

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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

Qualified By: JOSH AUSTIN

Remarks:

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

DRILL-STEM TEST TICKET

Company _____ Lease & Well No. _____
 Contractor _____ Charge to _____
 Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
 Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State _____
 Test Approved By _____ Diamond Representative **JOHN C. RIEDL**

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
 Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
 Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
 Jars: Make BOWEN Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
 2nd Open: _____

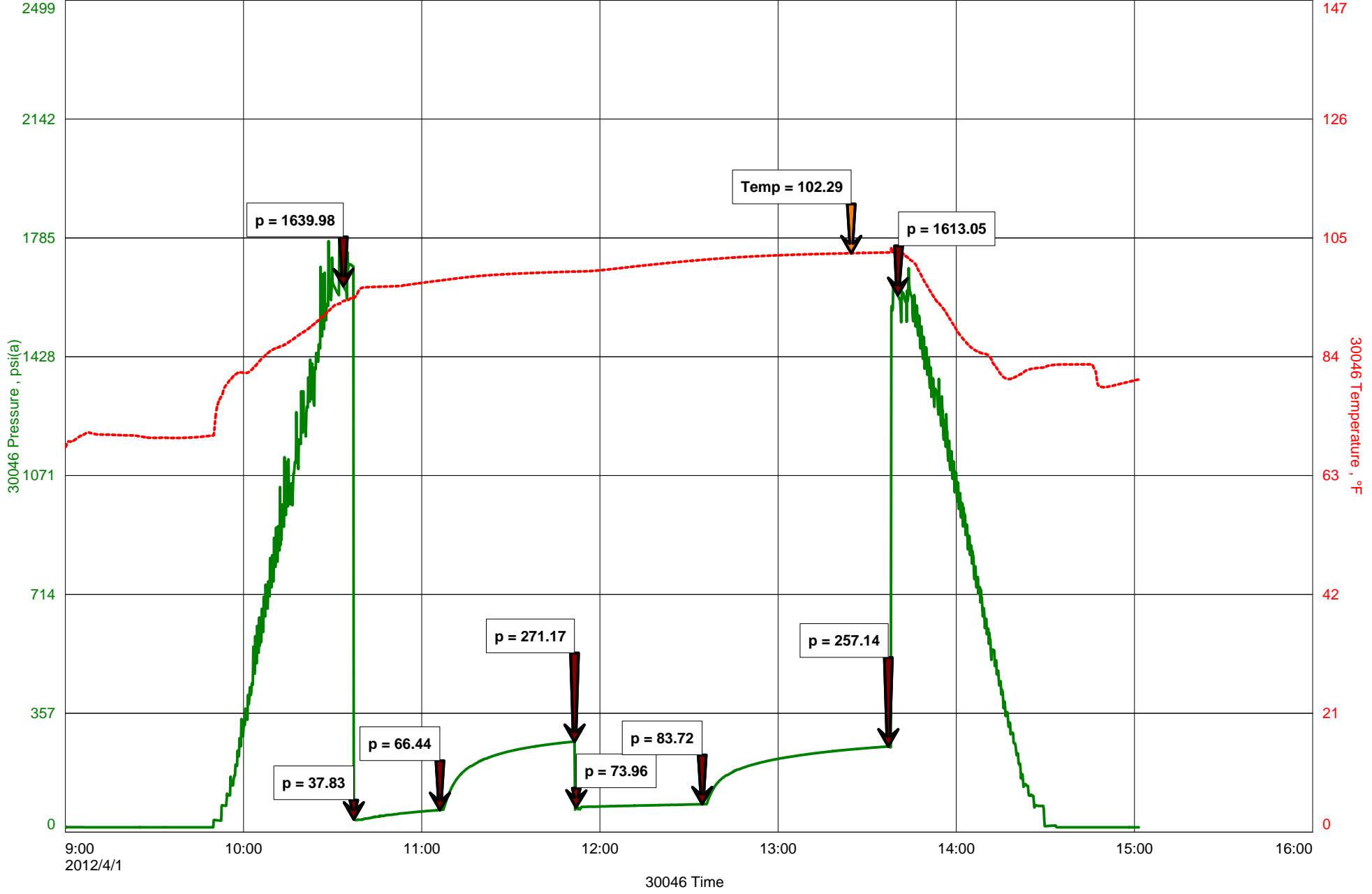
Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____ _____ _____	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) _____	A.M. P.M.	Time Started Off Bottom _____	A.M. P.M.	Maximum Temperature _____
Initial Hydrostatic Pressure _____	(A)	_____	P.S.I.	
Initial Flow Period _____	Minutes	(B)	_____	P.S.I. to (C) _____ P.S.I.
Initial Closed In Period _____	Minutes	(D)	_____	P.S.I.
Final Flow Period _____	Minutes	(E)	_____	P.S.I. to (F) _____ P.S.I.
Final Closed In Period _____	Minutes	(G)	_____	P.S.I.
Final Hydrostatic Pressure _____	(H)	_____	P.S.I.	

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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

Qualified By: JOSH AUSTIN

Remarks:

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

DRILL-STEM TEST TICKET

Company _____ Lease & Well No. _____
 Contractor _____ Charge to _____
 Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
 Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State _____
 Test Approved By _____ Diamond Representative **JOHN C. RIEDL**

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
 Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
 Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
 Jars: Make BOWEN Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
 2nd Open: _____

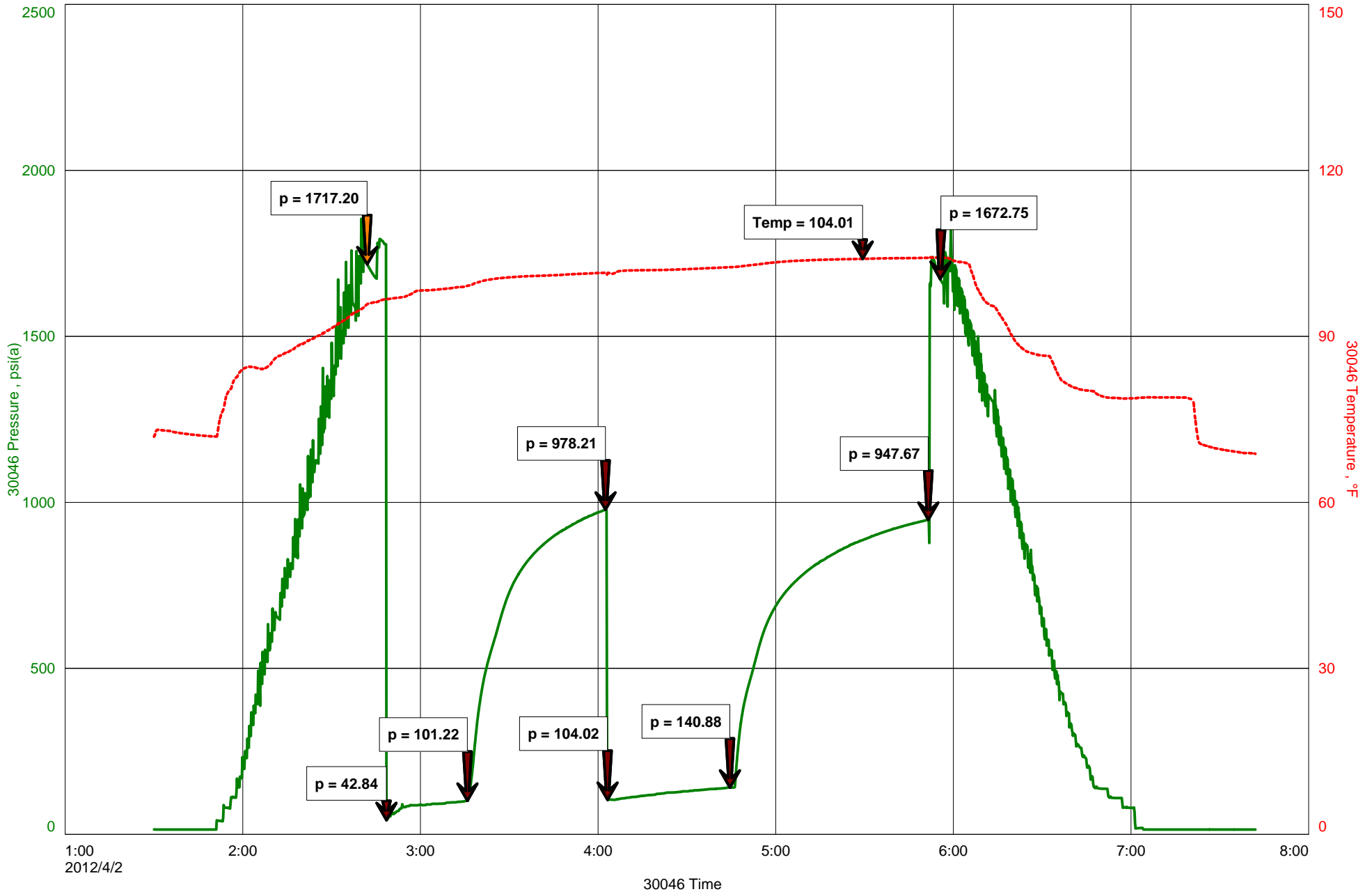
Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____ _____ _____	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s)	A.M. P.M.	Time Started Off Bottom	A.M. P.M.	Maximum Temperature
Initial Hydrostatic Pressure		(A)	P.S.I.	
Initial Flow Period		Minutes (B)	P.S.I. to (C)	P.S.I.
Initial Closed In Period		Minutes (D)	P.S.I.	
Final Flow Period		Minutes (E)	P.S.I. to (F)	P.S.I.
Final Closed In Period		Minutes (G)	P.S.I.	
Final Hydrostatic Pressure		(H)	P.S.I.	

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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

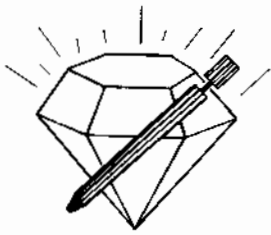
End Date: 2012/04/02 End Time: 19:00:00

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

DRILL-STEM TEST TICKET

Company _____ Lease & Well No. _____
 Contractor _____ Charge to _____
 Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
 Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State _____
 Test Approved By _____ Diamond Representative **JOHN C. RIEDL**

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
 Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
 Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
 Jars: Make BOWEN Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
 2nd Open: _____

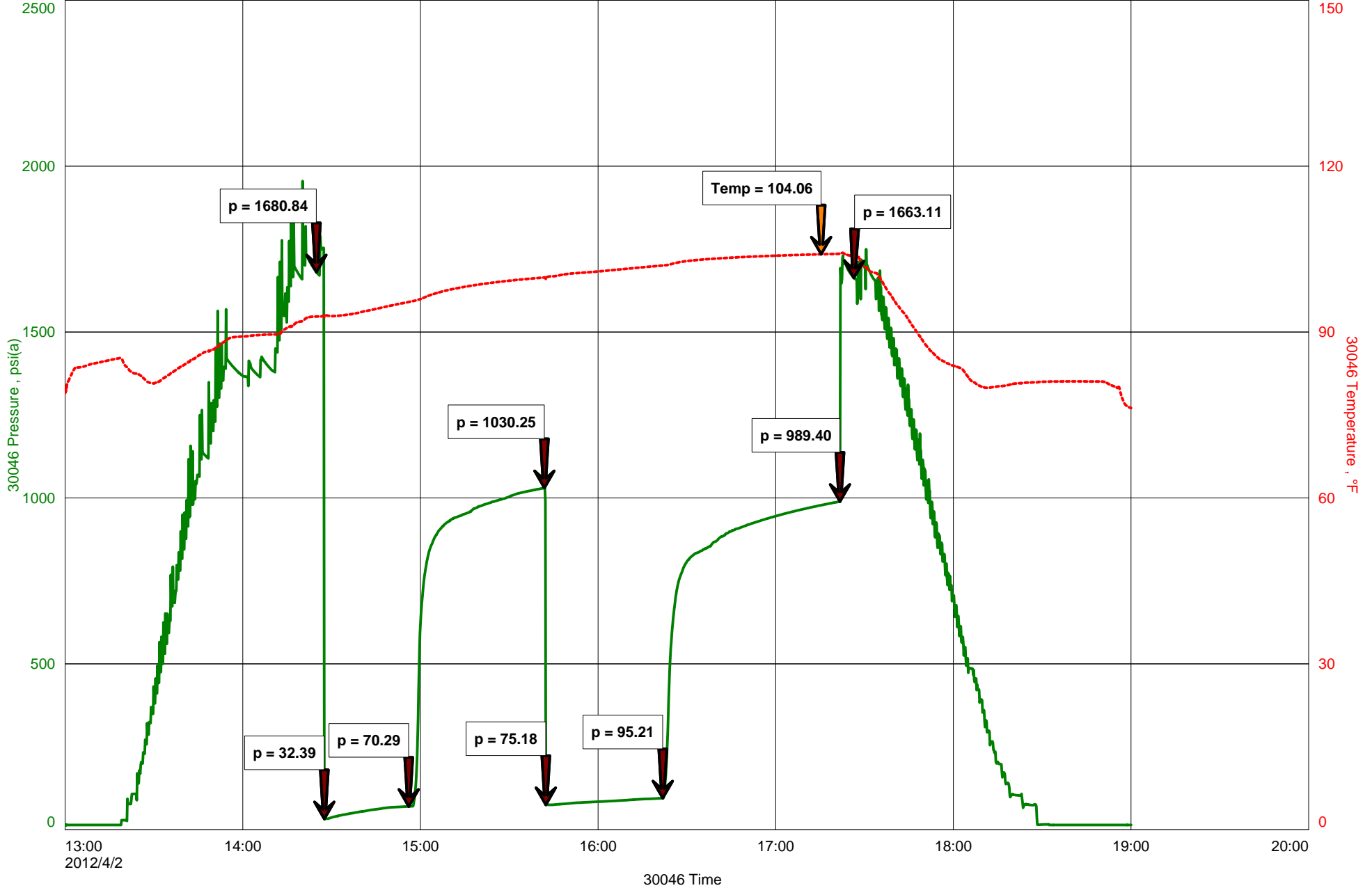
Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____ _____ _____	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) _____	A.M. P.M.	Time Started Off Bottom _____	A.M. P.M.	Maximum Temperature _____
Initial Hydrostatic Pressure _____	(A)	_____	P.S.I.	
Initial Flow Period _____	Minutes	(B)	_____	P.S.I. to (C) _____ P.S.I.
Initial Closed In Period _____	Minutes	(D)	_____	P.S.I.
Final Flow Period _____	Minutes	(E)	_____	P.S.I. to (F) _____ P.S.I.
Final Closed In Period _____	Minutes	(G)	_____	P.S.I.
Final Hydrostatic Pressure _____	(H)	_____	P.S.I.	

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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

DRILL-STEM TEST TICKET

Company _____ Lease & Well No. _____
 Contractor _____ Charge to _____
 Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
 Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State _____
 Test Approved By _____ Diamond Representative **JOHN C. RIEDL**

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
 Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
 Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
 Jars: Make BOWEN Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
 2nd Open: _____

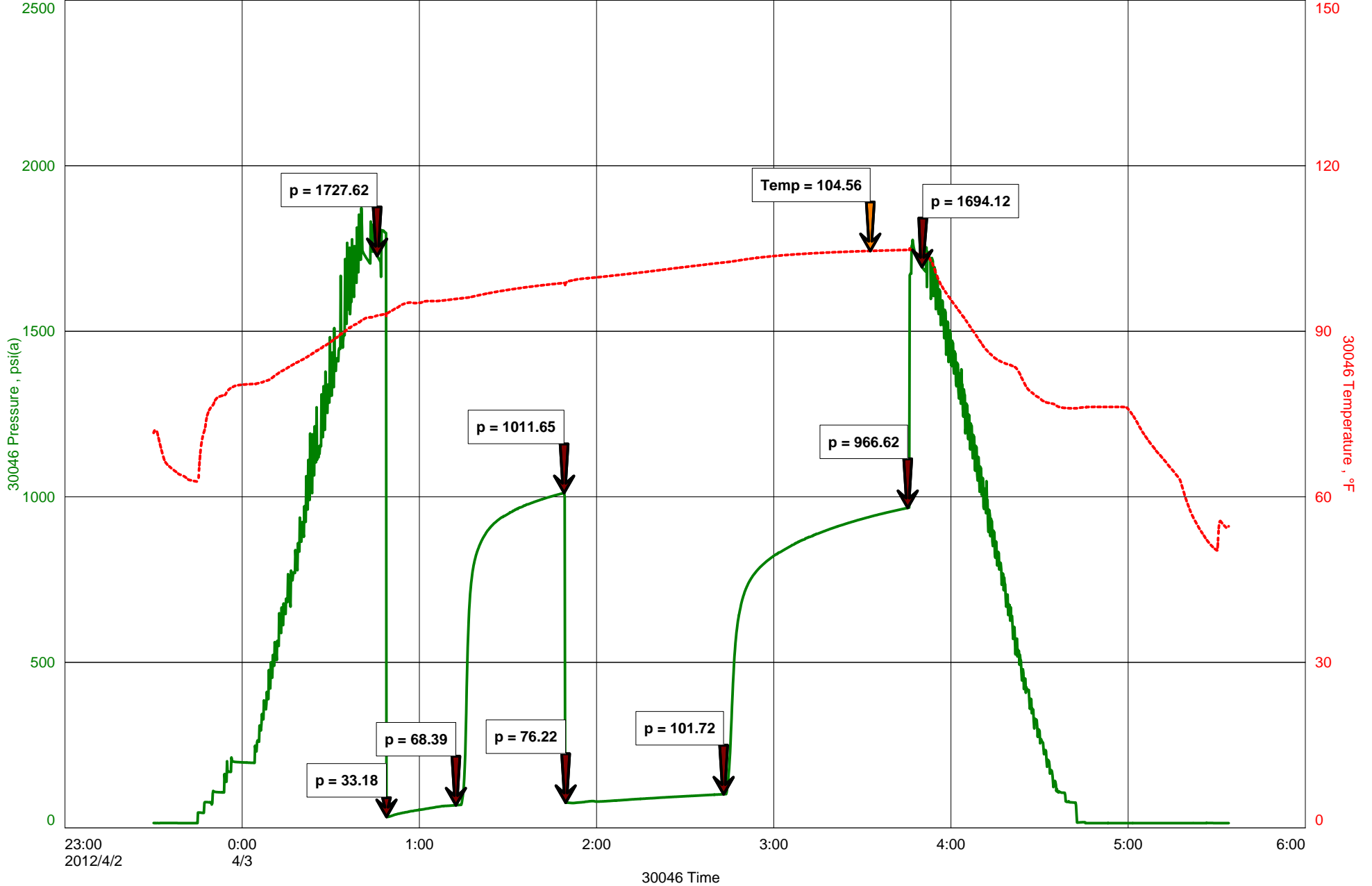
Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____ _____ _____	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) _____	A.M. P.M.	Time Started Off Bottom _____	A.M. P.M.	Maximum Temperature _____
Initial Hydrostatic Pressure _____	(A)	_____	P.S.I.	
Initial Flow Period _____	Minutes	(B)	_____	P.S.I. to (C) _____ P.S.I.
Initial Closed In Period _____	Minutes	(D)	_____	P.S.I.
Final Flow Period _____	Minutes	(E)	_____	P.S.I. to (F) _____ P.S.I.
Final Closed In Period _____	Minutes	(G)	_____	P.S.I.
Final Hydrostatic Pressure _____	(H)	_____	P.S.I.	

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

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



Musgrove

**PETROLEUM
 CORPORATION**
 Claflin, Kansas

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
 Claflin, 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			
1861 KB		No Log was ran			1862 KB		Structural Relationship	
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

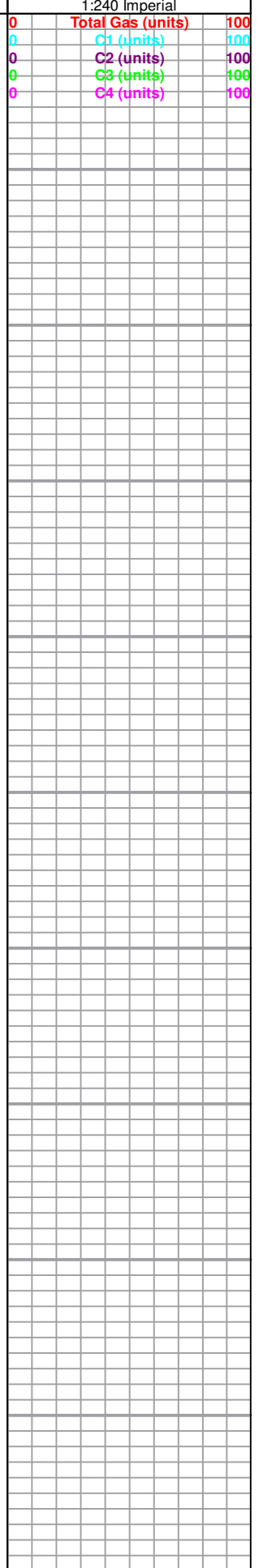
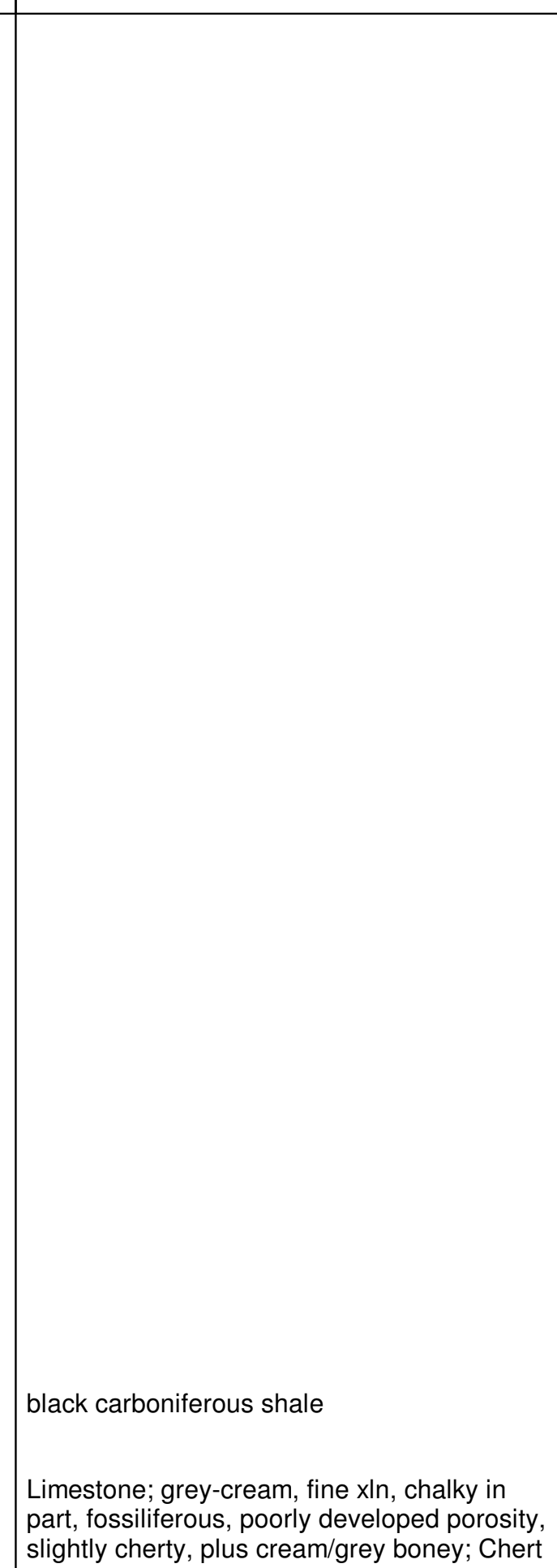
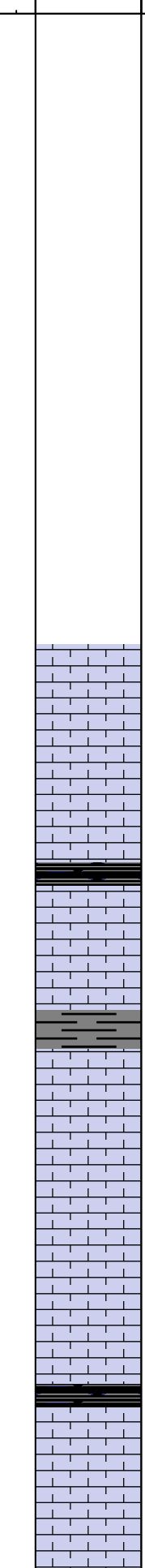
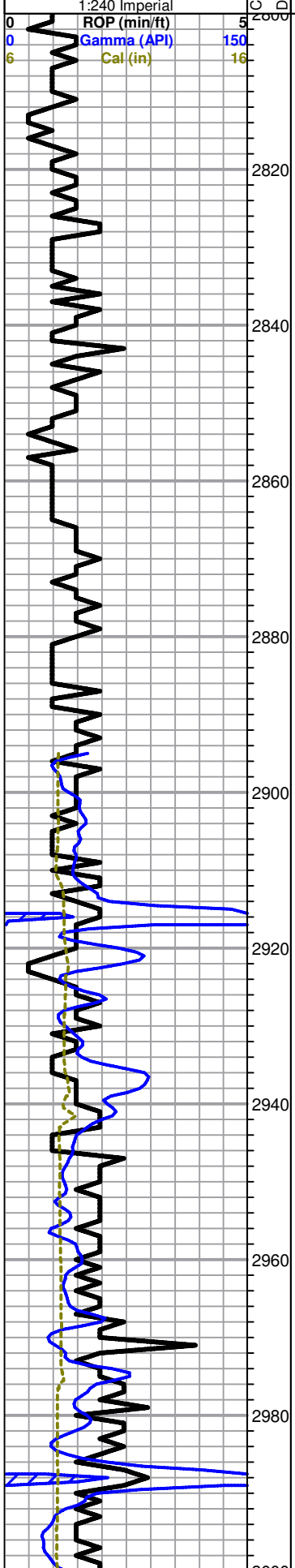
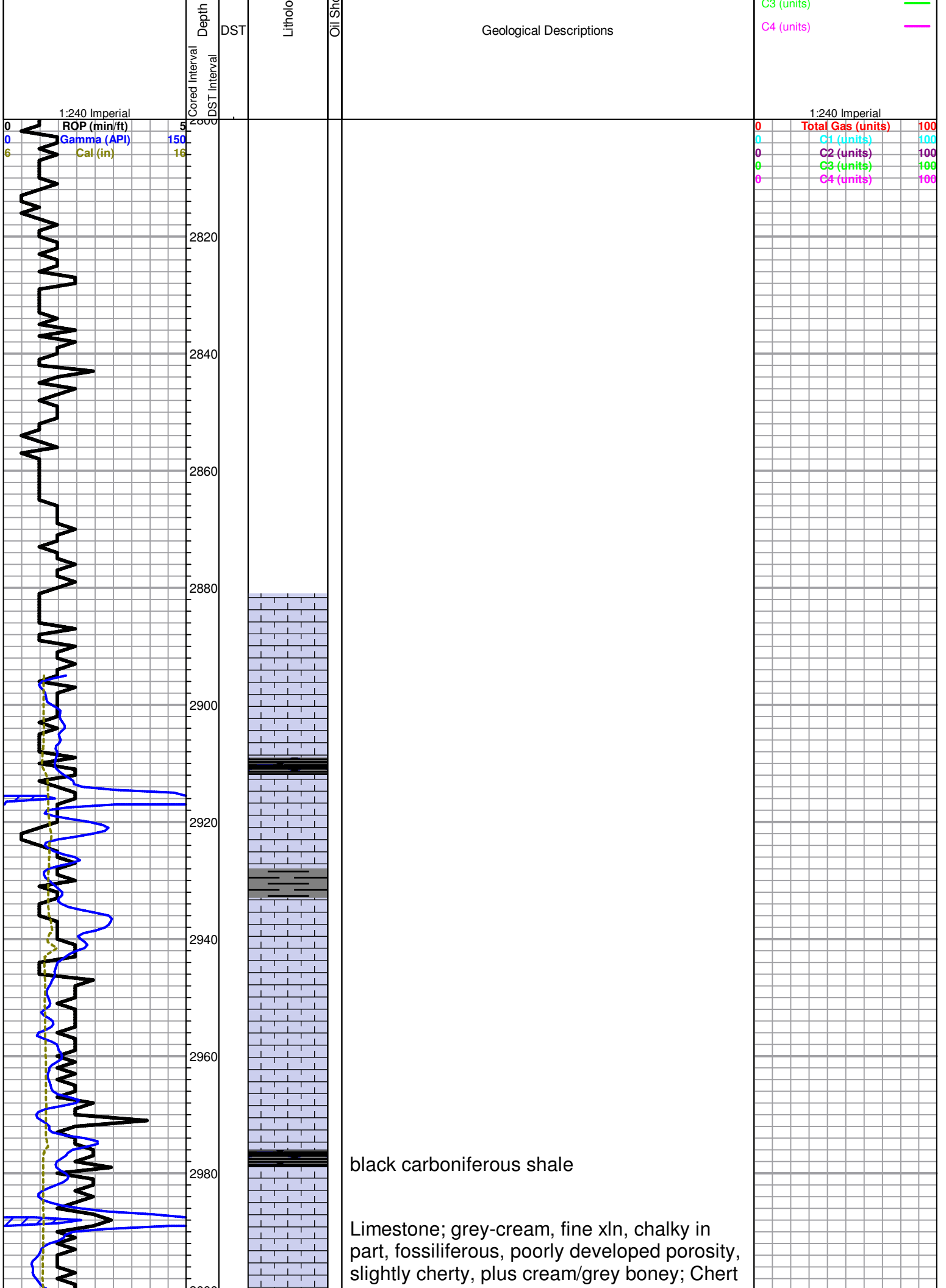
Chtcongl	Lmst fw7> shale, gry	Carbon Sh
Dolprim		Ss

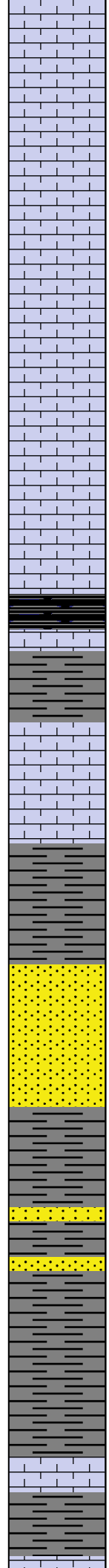
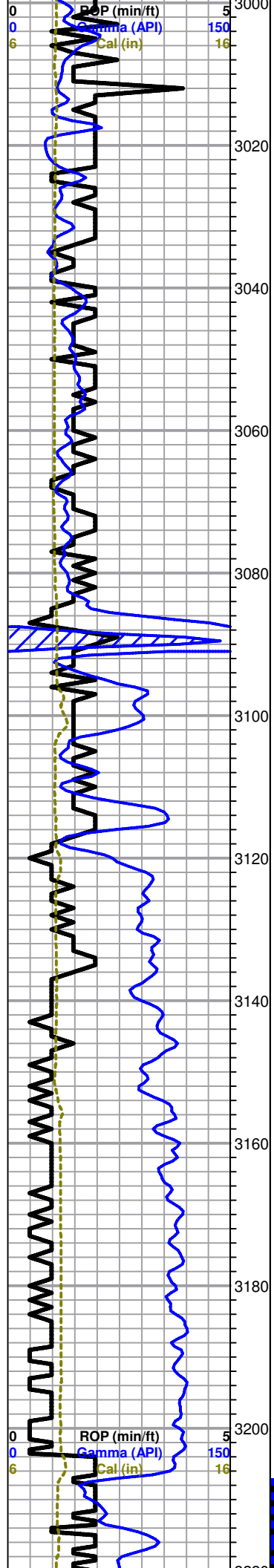
OTHER SYMBOLS

DST

	DST Int
	DST alt
	Core
	tail pipe

<p>Curve Track #1</p> <p>ROP (min/ft) </p> <p>Gamma (API) </p> <p>Cal (in) </p>	Intervals	gy	Dw		<p>TG, C1 - C5</p> <p>Total Gas (units) </p> <p>C1 (units) </p> <p>C2 (units) </p>
---	-----------	----	----	--	--





Limestone; tan-cream, finely oolitic in part, chalky, dense, few inter xln porosity, no shows

Limestone; as above cream-grey, fine-medium xln, chalky N/S

Limestone; cream-buff, fine xln, chalky slightly sucrosic, poorly developed porosity, no shows

Limestone; as above dense
plus lt. grey boney; Chert

HEEBNER 3084 (-1223)
Black Carboniferous Shale

grey-dark grey; Shale

TORONTO 3100 (-1244)
Limestone; cream-white, fine xln, chalky, oolitic in part, poor visible porosity, no shows

DOUGLAS 3118 (-1262)
Shale; grey-green, micaceous in part, slightly silty

Shale; as above, plus Sand; grey-greyish green, very fine grained, micaceous, sub rounded, sub angular, poorly developed porosity, silty, no shows

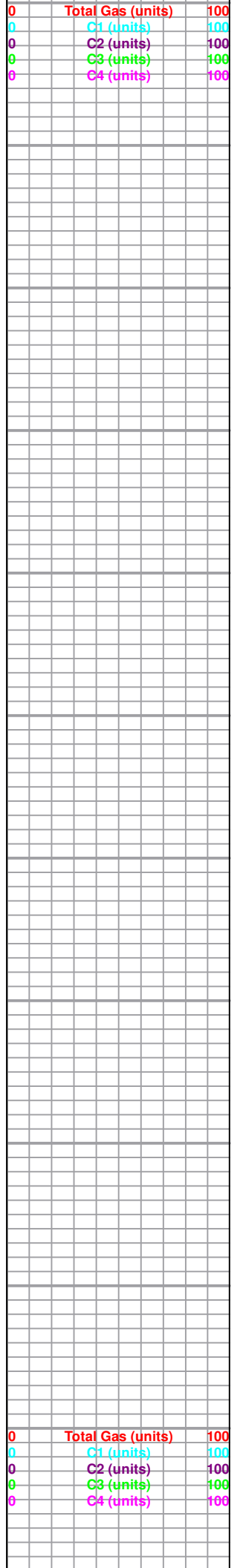
Grey-greyish green; Shale, micaceous, silty

Sand & Shale as above

Grey, micaceous, silty; Shale

BROWN LIME 3204 (-1343)
Limestone; tan-brown, fine xln, dense, cherty, slightly fossiliferous

LANSING 3218 (-1357)



LANSING 3216 (-1557)

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

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

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

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

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

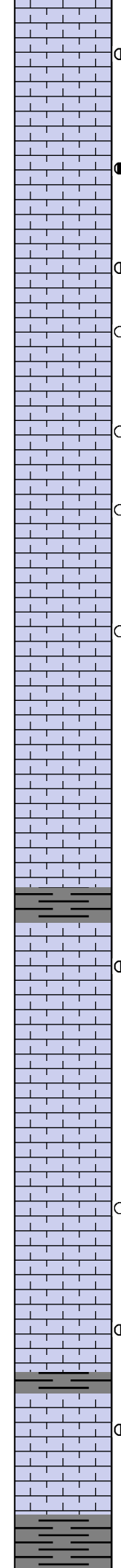
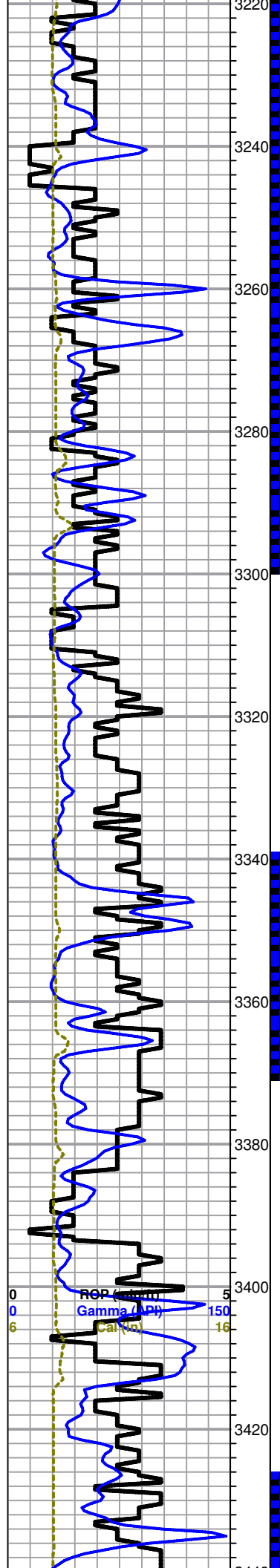
Limestone; cream-grey, fine-medium xln, fossiliferous, chalky, scattered porosity, trace brown-grey stain, trace spotty FO, faint odor

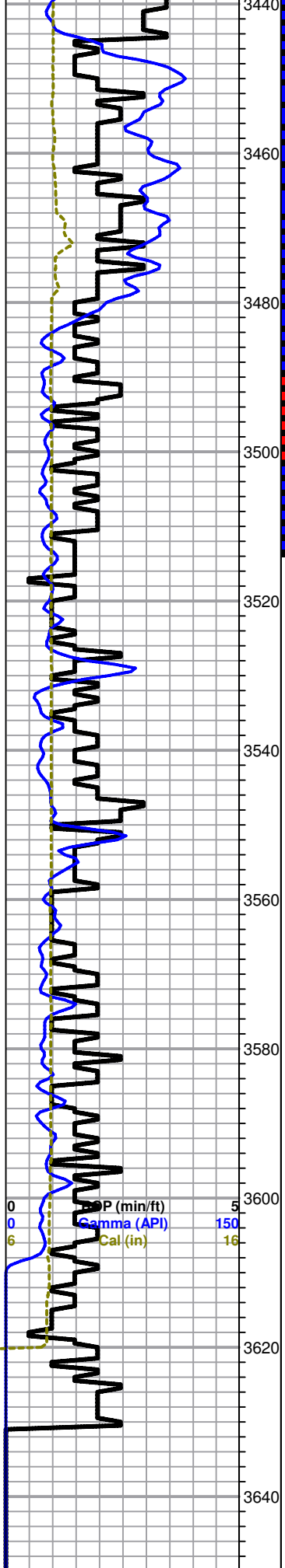
0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100

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





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' sli 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