# ORIGINAL

#### Kansas Corporation Commission Oil & Gas Conservation Division

Form ACO-1 October 2008 Form Must Be Typed

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

OPERATOR: License # 6039	API No. 15 - 185-23530-00-00
Name: L. D. DRILLING, INC.	Spot Description:
Address 1: 7 SW 26 AVE	SE_NW_NE_SW_Sec. 33_Twp. 22_S. R. 11 East West
Address 2:	2290 Feet from North / South Line of Section
City: GREAT BEND State: KS Zip: 67530 +	
Contact Person: L. D. DAVIS	Footages Calculated from Nearest Outside Section Corner:
Phone: (620) 793-3051	□ne □nw □se ☑sw
CONTRACTOR: License #_33323	County: STAFFORD
Name: PETROMARK DRILLING, LLC	Lease Name: RANDY Well #: 2
Wellsite Geologist: KIM SHOEMAKER	Field Name: WHITE CLOUD
Purchaser: NCRA	Producing Formation: SIMPSON SAND
Designate Type of Completion:	Elevation: Ground: 1801' Kelly Bushing: 1806'
New Well Re-Entry Workover	Total Depth: 3692' Plug Back Total Depth:
Oil SWD SIOW	Amount of Surface Pipe Set and Cemented at: 273 Feet
Gas ENHR SIGW	Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
CM (Coal Bed Methane) Temp. Abd.	If yes, show depth set:Feet
Other	If Alternate II completion, cement circulated from:
(Core, WSW, Expl., Cathodic, etc.)	feet depth to:w/sx cmt.
If Workover/Re-entry: Old Well Info as follows:	ALL T
Operator:	Drilling Fluid Management Plan Alt I NOC 1-28-09 (Data must be collected from the Reserve Pit)
Well Name:	
Original Comp. Date: Original Total Depth:	Chloride content: ppm Fluid volume: bbls
DeepeningRe-perfConv. to EnhrConv. to SWD	Dewatering method used:
Plug Back:Plug Back Total Depth Commingled Docket No.:	Location of fluid disposal if hauled offsite:
Dual Completion Docket No.:	Operator Name:
Other (SWD or Enhr.?) Docket No.:	Lease Name: License No.:
10/07/08 10/13/08 10/31/08	QuarterSec TwpS. R
Spud Date or Recompletion Date  Date Reached TD  Completion Date or Recompletion Date	County: Docket No.:
Kansas 67202, within 120 days of the spud date, recompletion, workover or co	•
All requirements of the statutes, rules and regulations promulgated to regulate t are complete and correct to the best of my knowledge.	he oil and gas industry have been fully complied with and the statements herein
Signature: Susan Scheweis	KCC Office Use ONLY
Title: CLERKDate:DECEMBER 4, 2008	Letter of Confidentiality Received
Subscribed and sworn to before me this <u>4</u> day of <u>December</u>	, If Denied, Yes Date:
20_08	Wireline Log Received
(2001.00)	Geologist Report Received RECEIVED
Notary Public:  NOTARY CURVEY SYATE OF KANSAS  Rashell Patter	LIC Distribution KANSAS CORPORATION COMMISSION

MY ADDI. EXP. 22-11

CONSERVATION DIVISION WICHITA, KS

DEC 0 5 2008

#### Side Two

Operator Name:L	. D. DRILLING, INC	<u> </u>	Lease N	vame: _F	RANDY		Well#: _2	
Sec. 33 Twp. 2	22S. R11	East  West	County:	STAF	FORD			
time tool open and clo recovery, and flow rate	sed, flowing and shut	d base of formations pen in pressures, whether s st, along with final chart( eport.	hut-in press	sure read	ched static level,	hydrostatic pre	ssures, bottom l	hole temperature, fluid
Drill Stem Tests Taker		✓ Yes		L	og Formatio	n (Top), Depth	and Datum	Sample
Samples Sent to Geo	•	☑ Yes ☐ No		Nam	e		Тор	Datum
Cores Taken Electric Log Run (Submit Copy)		Yes No				KAN	RECEI	VEU ION COMMISSION
List All E. Logs Run:				SEE	ATTACHED		DEC 05	2008
	ENT BOND, DI & DUAL INDU	UAL COMPENS CTION LOGS	ATED				CONSERVATION	ON DIVISION
			RECORD	✓ Ne	-	ion oto		
Purpose of String	Size Hole Drilled	Report all strings set-of- Size Casing Set (In O.D.)	Weig	ht	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	12 1/4"	8 5/8"	23		273'	60/40 POZM	IX 275	2%Gel,3%CC
PRODUCTION	7 7/8"	5 1/2"	15.5	5#	3691'	60/40 POZM	IX 140	2%Gel,18%Salt,5#Gil
		ADDITIONAL	CEMENTIN	NG / SQL	JEEZE RECORD			
Purpose:  —— Perforate  —— Protect Casing	Depth Top Bottom	Type of Cement	#Sacks	Used	3			
Plug Back TD Plug Off Zone								
Shots Per Foot		ON RECORD - Bridge Plug ootage of Each Interval Per				cture, Shot, Ceme	ent Squeeze Reco Material Used)	rd Depth
2	3588 - 3598'				500 gal 7.5	5% HCL AC	ID	
					17000 gal	Profrac LG	2000	
					w/80 cwt	20/40 Mes	h Brady San	d
					w/15 cwt	Santrol Su	per LC 16/30	) Sand
TUBING RECORD:	Size:	Set At:	Packer At		Liner Run:			
	2 7/8"	3684'			_	Yes 🗸 N	lo	·
OCTOBER 31, 20	Production, SWD or Enh 08	r. Producing Meti	hod:	Flowing	g 📝 Pumpir	ng Gas	Lift Oth	er (Explain)
Estimated Production Per 24 Hours	Oil E 40	Bbls. Gas	Mcf	Wate	er B <b>60</b>	bls.	Gas-Oil Ratio	Gravity
DISPOSITION	ON OF GAS:	A	METHOD OF	COMPL F	ETION:		PRODUCTION	ON INTERVAL:
Vented Solo	Used on Lease	Open Hole	Z Perf.	_		nmingled		
(If vented, Sul	bmit ACO-18.)	Other (Specify)			<del></del>	-		

Attachment to and Madera Part of ACO1: RANDY #2, Sec 33-22-11, Stafford Co., KS

#### DAILY DRILLING REPORT

**OPERATOR:** 

L.D. DRILLING, INC.

**LEASE: RANDY #2** 

SE NW NE SW Sec 33-22-11

WELLSITE GEOLOGIST:

Kim Shoemaker

Stafford Co., KS

CONTRACTOR:

PETROMARK DRILLING

**ELEVATION:** 

GR:

1801'

Ria #2

KB:

1806'

SPUD:

10/07/08 @ 7:45 P.M.

PTD: 3670'

SURFACE:

Ran 6 jts, 23#, 8 5/8" Surface Casing, Tally 268', Set @ 273', w/ 275 sx 60/40

Pozmix 2% Gel, 3% CC, Plug Down @ 3:00 A.M. 10/08/0/8, Did Circulate

by Basic Energy Ticket # 18883 - Survey 3/4 degree @ 278'

10/07/08 Move in, Rig up & Spud

10/08/08 278' WOC - Will drill plug @ 11:00 A.M.

10/09/08 1665' Drilling

10/10/08 2520' Drilling

10/11/08 3223' Drilling

10/12/08 3449' Drilling

10/13/08 3608' Drilling - DST #3 on bottom

10/14/08 3692' RTD - Logging

Ran 87 jts 15.5# New 5 1/2" Production Casing,

Set @ 3691' - 1' off Bottom - w/ 125 sx 60/40 Pozmix

2% Gel, 18% Salt, 5# Gilsonite, 15 sx in Rathole,

Plug Down 8:00 P.M. 10/14/08

DST #1 3246 - 3318' Lansing 'B-F'

TIMES:

30-45-45-60

RECOVERY:

BLOW: 1st Open: weak 1/4" inc to 3"

2nd Open: weak 1/4" inc to 2" 10' Mud - 100%

IFP:

30-33

ISIP: 107

FFP:

41-38

FSIP: 96

TEMP: 102 degrees

DST #2

3356 - 3460' Lansing 'H-K'

TIMES:

30-45-45-60

BLOW: 1st Open: fair 1/4" inc to bob in 29 min

2nd Open: fair 1/4" inc to bob in 40 min

RECOVERY:

226' 100% Mud, 124' mw

(30%m, 70% w)

IFP:

36-120 118-165 ISIP: 1185

FFP:

**FSIP: 1165** 

TEMP: 104 degrees

DST #3

3558 - 3608' Simpson Sand

TIMES:

30-45-45-60

BLOW: 1st Open:

fair 1/2" inc to bob in 9 1/2 min

2nd Open: fair 1/2" inc to bob in 11 1/2 min

RECOVERY:

530' gip, 90' ocgm (15%o,

30%g, 55%m)

IFP:

32-48

ISIP: 592

FFP:

43-66

FSIP: 674

TEMP: 105 degrees

RECEIVED COMMISSION COMMISSION DEC 05 2008 CONSERVATION DIVISION

#### **DAILY DRILLING REPORT**

Page 2

**OPERATOR:** 

L.D. DRILLING, INC.

LEASE: RANDY #2

SE NW NE SW Sec 33-22-11

WELLSITE GEOLOGIST:

Kim Shoemaker

Stafford Co., KS

CONTRACTOR:

PETROMARK DRILLING

**ELEVATION:** 

GR: 1801'

KB:

1806'

SPUD:

10/07/08 @ 7:45 P.M.

PTD: 3670'

DST #4 3631 - 3642' Arbuckle

TIMES:

30-45-45-60

BLOW: 1st Open: fair 1/4" inc to bob in 8 min

2nd Open: fair 1/4" inc to bob in 8 1/2 min

RECOVERY:

846' mw (15% m, 85% w)

IFP:

38-212

ISIP: 1255

FFP:

217-408

FSIP: 1251

TEMP: 115 Degrees

SAMPLE TOPS:			LOG TOP	S:
Anhy Top			522	(+1284)
Topeka	2772	(-966)	2772	(-966)
Heebner	3069	(-1263)	3066	(-1260)
Brown Lime	3208	(-1402)	3208	(-1402)
Lansing	3230	(-1424)	3230	(-1424)
Base Kansas City	3473	(-1667)	3469	(-1663)
Viola	3534	(-1728)	3532	(-1726)
Simpson	3568	(-1762)	3568	(-1762)
Arbuckle	3637	(-1831)	3632	(-1826)
RTD	3692	(-1886)	LTD 3	8693 (-1887)

BASiC

Subject to Correction

FIELD ORDER 18313

	ergy s	servic	C <b>e</b> S, L.P.	Lease RAND	/ Correction	Well #	2	Legal	a2·//
Date 10 - 14	- /1 &	Customer ID		County Staf	ford	State	()	Station P A 7	4 Ks
	7 0011	741		Depth	Formation		s	Shoe Joint	
н <del></del> А	D. Drill.	70, 110		Casing // ''	Casing Depth	TD 2 /	, 92 ' <u>'</u>	ob Type,	· cnw
R G	· · · · · · · · · · · · · · · · · · ·			Customer Represen	tative		<u>n / ≪  </u> Treater <sub>A //</sub>	en 7. L	1 and to
E -					<del></del>	$\frac{1}{2}$	N//	en to	Jerth
AFE Number		PO Number		Materials Received by	Deck	26			
Station Code	Product Code	QUANTITY		MATERIALS, EQUIPA	• -			UNIT PRICE	AMOUNT
P	CP103	125.51	60/40	P02					\$ 1500.00
P	CP103			. •					# 180.00
P	CCIII	1113 16	SAIT	(Fine)	-				# 558×50
	CCIIZ	54 1b	Cement	+ Friction	Reduce	<i>,</i> .			A 324.00
Ρ	CC 201	6251b	Gilson.	le			•		\$ 418.75
P	C706	2901	CC-1 (	KCL Sub	. )				B 88.00
À	CCISI		mud F						\$ 430.00
P	CF103		ł .	bber cem	ent Plu	5 5,	/2"		\$ 105.00
Þ	(F 251	IEA	Guide	Shoe R.	egulace	Blue	}		£ 250.00
P	CF 1451	1 e a	FINDDE	Type IN	Sect VA	ilve.	5/2"		x 215.00
P	CF 1651	hen	Tucholi	2 /2	" (B/4)	<del>(</del> )			\$ 660.00
			, , , , , , , , , , , , , , , , , , , ,			<del>- /</del>			
P	E 101	gam:	Henry	Eauin	milessi	e			# 630.00
- <i>P</i>	E113	27270	Bulle	Del Clig.					\$ 435'. 20
P	E100	45.00	lew t in	where Che	Picker	D.	······		d 191.25
ρ	CERYO		Blendin	ve of mexico	Serv.c	+ Ch	1		d 196.00
ρ	5003	1.en	Celuic			~ 1	N Loc.	7	\$ 175,00
P	CF 204		, ,	7/1 300			,,,, LOC.		£ 2160.00
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10244	NE Hiway 61	DO Pov 96	12 a Drott KC	67124-8613 • (62)	0) 670 1001 • E	ov (620) 67	70 5000		

As consideration, the Customer agrees:

- a) To pay BASIC ENERGY SERVICES, L.P. in accordance with the rates and terms stated in BASIC ENERGY SERVICES, L.P.'s current price list. Invoices are payable NET 30 after date of invoice. Upon Customer's default payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection cost and attorney fees in the amount of the unpaid account.
- b) To defend indemnify, release and hold harmless BASIC ENERGY SERVICES, L.P., its divisions, subsidiaries, parent and affiliated companies and the officers. directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorney's fees and costs of defense to the extent permitted by law for:
  - Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
  - 2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
  - 3. Personal injury of death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material. The amount of this invoice is due and payable at BASIC ENERGY SERVICES, L.P., Dept.
    No. 1131, Tulsa, Oklahoma 74182. All terms of the Service order with customer are incorporated herein and made a part hereof by reference.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by BASIC ENERGY SERVICES, L.P. negligence, strict liability, or operated, or furnished by BASIC ENERGY SERVICES, L.P. or any defect in the data, products, supplies, materials, or equipment of BASIC ENERGY SERVICES, L.P. whether the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of BASIC ENERGY SERVICES, L.P. The term "BASIC ENERGY SERVICES, L.P." as used in said Section b) and c) shall mean BASIC ENERGY SERVICES, L.P., its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.

- c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, BASIC ENERGY SERVICES, L.P. is unable to guarantee the effectiveness of the products, supplies, or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by BASIC ENERGY SERVICES, L.P. BASIC ENERGY SERVICES, L.P. personnel will use their best efforts in gathering such information and their best judgement in interpreting it, but Customer agrees that BASIC ENERGY SERVICES, L.P. shall not be liable for and Customer shall indemnify BASIC ENERGY SERVICES, L.P. against any damages from the use of such information.
- d) That BASIC ENERGY SERVICES, L.P. warrants only title to the products, supplies, and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. BASIC ENERGY SERVICES, L.P.'s liability and Customer's exclusive remedy in and cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials in expressly limited to the replacement of such products, supplies or materials on their return to BASIC ENERGY SERVICES, L.P. or, at BASIC ENERGY SERVICES, L.P.'s option, to the allowance to the Customer of credit for the cost of such items. In no event shall BASIC ENERGY SERVICES, L.P. be liable for special, incidental, indirect, punitive or consequential damages.
- e) To waive the provisions of the Deceptive Trade Practices Consumer Protection Act, to the extent permitted by law. We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to service furnished under this contract.
- f) That this contract shall be governed by the law of the state where services are performed or materials are furnished.
- g) That BASIC ENERGY SERVICES, L.P. shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized manager of BASIC ENERGY SERVICES, L.P.



# TREATMENT REPORT

Customer	Dril	ء يم . ا	200	Lease No	).				Date			
Lease R	wdv	1		Well #	a				10-	14-0	ç	
Field Order #		Prat	+	•		Casing ,	Depth		County +	fford		State
Type Job	Lown	Stown	. (		CA		Formation	•		Legal Des	cription ココー/	1
PIPI	E DATA	PEF	d RFORATII	NG DATA		FLUID (	JSED		TREA	TMENT R		· · · · · · · · · · · · · · · · · · ·
Casing Size	' Tubing Siz	e Shots	/Ft	1255K	Acio	140 PE	2 70/0	gel S	ATE PRE	ss ,, o/,	ISIP	5 2/6. / Son. 6
Depth 369/	Depth	From	1	To (?) 1	Pre	Pad / Cal		Max	70 /	7 7 7	5 Min.	<u></u>
Volume	Volume	From	7	Го	Pad	//	CC-1	Min			10 Min.	
Max Press	Max Press	From	1	Го	Frac	`	aud Flus	Avg			15 Min.	
Well Connection	on Annulus Vo	ol. From	1	Го				HHP Used			Annulus Pre	essure
Plug Depth	Packer De	pth From	7	Го	Flus	sh rechwa	100	Gas Volume	е		Total Load	**
Customer Rep	oresentative			Statio	on Mana	ager DAV	e Sco	#	Treater	111-N	Fu	verth
Service Units	18443	19889	1984			<u></u>			,			
Driver Names	weith	Joe	mels	<u>, L L., .</u>	me is	Bol						
Time	Casing Pressure	Tubing Pressure	Bbls. F	Pumped		Rate	Super	ior c	Servi	ce Log		
1345							ONLOC	. Disc	<u>, cs Sa</u>	Foty.	Set up	Plan Jub
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# TREATMENT REPORT

Customer	01.11.	ns.				ease No.						Da	te						
Lease	dy ti	ブン			W	/ell # - <del>_</del> +	42					10-14-02							
Field Order #	Station	AH	K.					Casing	12	Depth	1	Cou	inty S.+	ر	Caro	$\overline{I}$	S	tate	
Type Jobi/2					· N	W		7		Formation			*	T	Legal Des	scription	22	-//	
•	E DATA	P	ERF	ORATI				FLUID	US	ED			TREA		/ENT R				
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Depth 369	Depth	Fro	om		То		Pre	e Pad			Max					5 Min.			
Volume bb	Volume	Fro	om		То		Pa	d			Min		<u> </u>			10 Min			
Max Press +		s Fro	om		То		Fra	ac			Avg					15 Min			
Well Connection		ol. Fro	om		То	-				_	HHP Use	ed				Annulu	s Pres	sure	
Plug Depth	Packer De	epth Fro	om		То		Flu				Gas Volu					Total L			
Customer Rep	oresentative			·		Station	Man	lager UNUP	ے	coff		Т	reater	11.	en /	-/	U 1 0.	16	
Service Units		198	89	1984	12	1982	6												
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energy services, L.P.  Date 10-8-08 Customer ID  CL. D. Drilling, Incorporated  A  B  G  E				Subject to Correction  Lease Rand V  County Staff Ord  Depth Formation  Casing Bepth  Customer Representative Date	18883 225-11W H H Feet Surface		
AFE Number	Product	PO Number			sheling		
Code	CP103	275SH	60/40	MATERIALS, EQUIPMENT, and SERV	/ICES USED	UNIT PRICE	3,300.00
		(0)	6 11 01				
<u> </u>	CC102 CC109	69Lb 711Lb	Cellt'la Calcium	- 1 1		\$ \$	746.55
P	CF 153 CC 131	lea 501b	Wooden Sugar	Plug, 85/8"		<b>\$</b>	160.00 160.00
P P	E101 E113 E100	90 mi 533tm 45 mi	Heavy E Bulk Do Pickup	quipment Milea elivery Mileage	ge	***	630.00 852.80 191.25
P	CE240 S003 CE200 CE504	2755k 1ea 1ea 150b	Blending Service Pumpch Plug Co	g and Mixing Serv Supervisor arge: OFeet To 5 ntainer	00 Feet	\$ \$ \$	385.00   75.00  ,000.00 250.00
				unted Price = Taxes	RECEIVED RECEIVED RECEIVED RANSAS CORPORATION COMMI RANSAS CORPORATION COMMI DEC 0 5 2008	SSION ()	6,517.18

CONSERVATION DIVISION WICHITA, KS

As consideration, the Customer agrees:

- a) To pay BASIC ENERGY SERVICES, L.P. in accordance with the rates and terms stated in BASIC ENERGY SERVICES, L.P.'s current price list. Invoices are payable NET 30 after date of invoice. Upon Customer's default payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection cost and attorney fees in the amount of the unpaid account.
- b) To defend indemnify, release and hold harmless BASIC ENERGY SERVICES, L.P., its divisions, subsidiaries, parent and affiliated companies and the officers. directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorney's fees and costs of defense to the extent permitted by law for:
  - Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
  - 2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
  - 3. Personal injury of death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material. The amount of this invoice is due and payable at BASIC ENERGY SERVICES, L.P., Dept.
    - No. 1131, Tulsa, Oklahoma 74182. All terms of the Service order with customer are incorporated herein and made a part hereof by reference.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by BASIC ENERGY SERVICES, L.P. negligence, strict liability, or operated, or furnished by BASIC ENERGY SERVICES, L.P. or any defect in the data, products, supplies, materials, or equipment of BASIC ENERGY SERVICES, L.P. whether the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of BASIC ENERGY SERVICES, L.P. The term "BASIC ENERGY SERVICES, L.P." as used in said Section b) and c) shall mean BASIC ENERGY SERVICES, L.P., its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.

- c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, BASIC ENERGY SERVICES, L.P. is unable to guarantee the effectiveness of the products, supplies, or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by BASIC ENERGY SERVICES, L.P. BASIC ENERGY SERVICES, L.P. personnel will use their best efforts in gathering such information and their best judgement in interpreting it, but Customer agrees that BASIC ENERGY SERVICES, L.P. shall not be liable for and Customer shall indemnify BASIC ENERGY SERVICES, L.P. against any damages from the use of such information.
- d) That BASIC ENERGY SERVICES, L.P. warrants only title to the products, supplies, and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. BASIC ENERGY SERVICES, L.P.'s liability and Customer's exclusive remedy in and cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials in expressly limited to the replacement of such products, supplies or materials on their return to BASIC ENERGY SERVICES, L.P. or, at BASIC ENERGY SERVICES, L.P.'s option, to the allowance to the Customer of credit for the cost of such items. In no event shall BASIC ENERGY SERVICES, L.P. be liable for special, incidental, indirect, punitive or consequential damages.
- e) To waive the provisions of the Deceptive Trade Practices Consumer Protection Act, to the extent permitted by law. We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to service furnished under this contract.
- f) That this contract shall be governed by the law of the state where services are performed or materials are furnished.
- g) That BASIC ENERGY SERVICES, L.P. shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized manager of BASIC ENERGY SERVICES, L.P.

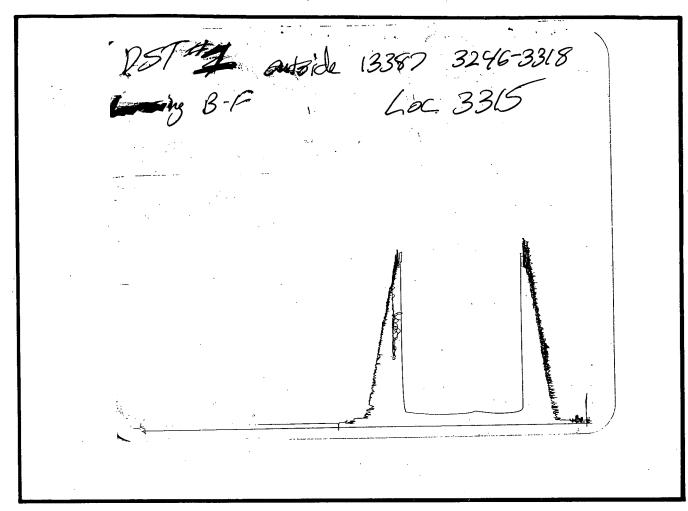


# TREATMENT REPORT

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Type Job	N.W	<u>Surfac</u>	e				Formation				Legal De	scription 5 -	<u>  W                                   </u>
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Casing Size	Z Tybingrsiz				3 6 C	0/40	Pozu	vith 2	RATE	PRE	SS	ISIP	
Depth 277	Pepth +	From	38 Jul	cium	Fige (23)	Chlo	ride2	Max b.	Ist.	7	flake	5 Min.	
Yotume > B	b Volume	From	14. 702	111	- Paul	5. 7	16a1.19	Min	250	U.F	TISH	. 10 Min.	
Max-Press	Max Pres	s From	То	•	Prate			Avg				15 Min.	
Well Connection	on Annulus V	/ol. From	То					HHP Used	t			Annulus Press	ure
Plug Depth	Packer De	epth From	То		Flush	7B1	ol. Fres	Garlyolun	رو ر			Total Load	
Customer Rep	presentative	.D. Da	vis	Station	Manager	Day	id Sco	#	CTrela C	ive	nce R.	Messich	
Service Units	19,870	19,903	19,905	19,960	0 19.	918							
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Time (1./	Casing Pressure	Tubing Pressure	Bbis. Pum	ped	Rate	•				Servi	ce Log		
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			1				<u></u>					CONSERVATION	DIVISION
										<del>.</del>		WICHITA.	
10244	1 NE Hi <u>w</u>	ay 61 • F	P.O. Box	861 <u>3</u> •	Pratt.	KS 6	7124-861	3 • (620	) 672	2-120	1 • Fax	(620) 672	-5383

#### NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b <sup>1</sup>	= Approximate Radius of Investigation (Net Pay Zone h1)	Feet
D.R.	= Damage Ratio	
EI	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	. Feet
h	= Interval Tested	Feet
h¹	= Net Pay Thickness	. Feet
K	= Permeability	
Κ¹	= Permeability (From Net Pay Zone h1)	md
m	= Slope Extrapolated Pressure Plot (Psi²/cycle Gas)	
OF1	Maximum Indicated Flow Rate	MCF/D
OF <sup>2</sup>	Minimum Indicated Flow Rate	MCF/D
OF3	= Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF <sup>4</sup>	= Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
ps	= Extrapolated Static Pressure	Psig.
PF	= Final Flow Pressure	Psig.
Pot	= Potentiometric Surface (Fresh Water*)	Feet
Q	Average Adjusted Production Rate During Test	.bbls/day
Q1	= Theoretical Production w/Damage Removed	bbls/day
Qэ	— Measured Gas Production Rate	MCF/D
R	= Corrected Recovery	bbls
r w	= Radius of Well Bore	Feet
t	= Flow Time	Minutes
t a	= Total Flow Time	Minutes
T	== Temperature Rankine	<b>ºR</b>
Z	Compressibility Factor	
U	— Viscosity Gas or Liquid	СР
Log	Common Log	

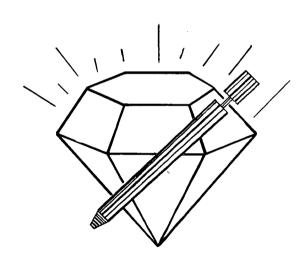


This is an actual photograph of recorder chart.

POINT		Field	SURE Elec. Office Reading	
(A)	Initial Hydrostatic Mud	1564	1564	PS
(B)	First Initial Flow Pressure	30	30	PS
(C)	First Final Flow Pressure	33	33	PS
(D)	Initial Closed-in Pressure	107	107	PS
(E)	Second Initial Flow Pressure	41	41	PS
(F)	Second Final Flow Pressure	38	38	PS
(G)	Final Closed-in Pressure	96	96	PS
(H)	Final Hydrostatic Mud	1591	1591	PS

<sup>\*</sup> Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

# FORMATION TEST REPORT



**DIAMOND TESTING** 

P.O. Box 157

HOISINGTON, KANSAS 67544

Telephone (620) 653-7550

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KANSAS CORPORATION COMMISSION
DEC 0 5 2008

CONSERVATION DIVISION WICHITA, KS



#### **DIAMOND TESTING**

# P.O. Box 157

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

STC 30035.D 105

Page 1 of 2 Pages

Company L. D. Drilling, Inc.	Lease & Well No. Randy No. 2
Elevation 1806 KB Formation Lansing "B" - "F"	
Date 10-11-08 Sec. 33 Twp. 22S Range 11W	
Test Approved By Kim B. Shoemaker	Diamond Representative Chris Redetzke
Formation Test No. 1 Interval Tested from 3,246 ft	to 3,318 ft. Total Depth 3,318 ft.
Packer Depth 3, 241 ft. Size 63/4 in.	Packer Depthft. Size in.
Packer Depth 3, 246 ft. Size 63/4 in.	Packer Depthft. Size in.
Depth of Selective Zone Setft.	
Top Recorder Depth (Inside) 3,249 ft.	Recorder Number 30035 Cap. 5,000 psi
Bottom Recorder Depth (Outside) 3,315 ft.	Recorder Number 13387 Cap. 4,000 psi
Below Straddle Recorder Depthft.	Recorder Number Cap. psi
Drilling Contractor Petromark Drilling, LLC - Rig 2 Dr	ill Collar Length 122 ft. I.D. 21/4 in.
Mud Type Chemical Viscosity 54 W	eight Pipe Length ft. I.D in.
Weight 9.2 Water Loss 8.8 cc. Dr	ill Pipe Length 3, 104 ft. I.D. 31/2 in.
Chlorides 4,000 P.P.M. Te	st Tool Length 20 ft. Tool Size 3 1/2 - IF in
Jars: Make Sterling Serial Number Not Run Ar	chor Length 72 ft. Size 41/2 - FH in.
Did Well Flow? No Reversed Out No Su	rface Choke Size1 in. Bottom Choke Size5/8 in.
	in Hole Size 7.7/8 in. Tool Joint Size 4.1/2-XH in.
Blow: 1st Open: Weak, ½ in., blow increasing to 3 ins. N 2nd Open: Weak, ½ in., blow increasing to 2 ins. N	
Recovered 10 ft. of mud = .049200 bbls. (Grind of	ut: 100%-mud)
Recovered ft. of	
Remarks Tool Sample Grind Out: 100%-mud	
5 aa XXII.	* 13rd
Time Set Packer(s) 5:30 P.M. Time Started Off B	本物. ottom <u>8:30</u> P.M. Maximum Temperature 102°
Initial Hydrostatic Pressure	A) 1564 P.S.I.
Initial Flow Period Minutes 30	B) 30 P.S.I. to (C) 33 P.S.I.
Initial Closed In Period Minutes 45 (I	D) <u>107</u> P.S.I.
Final Flow Period Minutes 45	E) 41 P.S.I. to (F) 38 P.S.I.
Final Closed In Period Minutes 60 (0	G) 96 P.S.I.
Final Hydrostatic Pressure (I	i) <u>1591</u> P.S.I.

# **GENERAL INFORMATION**

**Client Information:** 

Company: L.D DRILLING CO.

Contact: L.D. DAVIS

Phone: Fax: e-mail:

**Site Information:** 

**Well Information:** 

Contact: KIM SHOEMAKER

Phone: Fax: e-mail:

Name: RANDY #2

Operator: L.D. DRILLING CO.

Location-Downhole: DST #1 LANSING B-F 3,246 - 3,318

Location-Surface: sec 33-22S-11W STAFORD COUNTY

Test Information:

Representative:

Company: DIAMOND TESTING

**CHRIS** 

Supervisor: KIM SHOEMAKER

Test Type: CONVENTIONAL Job Number:

Test Unit: NO. 1

 Start Date:
 2008/10/11
 Start Time:
 16:00:00

End Date: 2008/10/11 End Time: 21:58:00

Report Date: Prepared By:

Remarks: Qualified By:

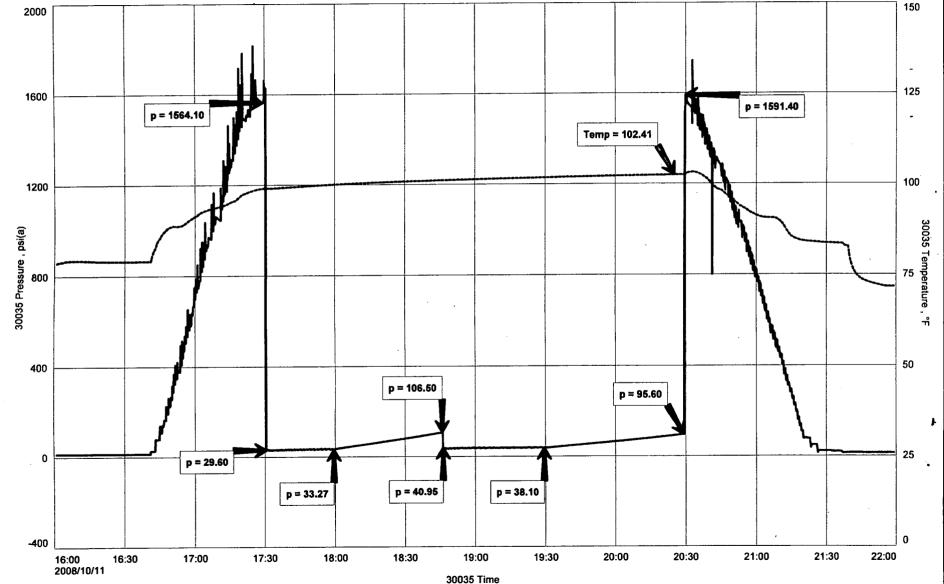
RECOVERED: 10' MUD 100% MUD

**TOOL SAMPLE: 100% MUD** 

L.D DRILLING CO. DST #1 LANSING B-F 3,246 - 3,318

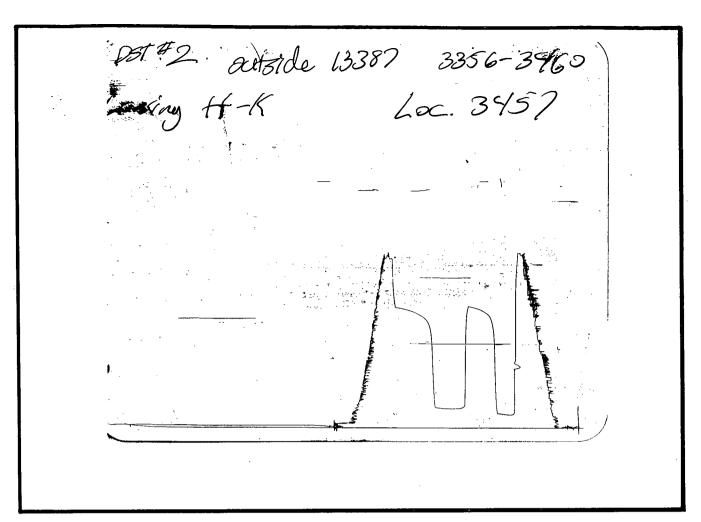
Start Test Date: 2008/10/11 Final Test Date: 2008/10/11 RANDY #2 . Formation: DST #1 LANSING B-F 3,246 - 3,318 Pool: WILDCAT





### NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b <sup>1</sup>	Approximate Radius of Investigation (Net Pay Zone h1)	Feet
D.R.	= Damage Ratio	—
Ei	== Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
<b>h</b>	= Interval Tested	Feet
h¹	= Net Pay Thickness	Feet
K	= Permeability	md
K <sup>1</sup>	= Permeability (From Net Pay Zone h1)	md
m	Slope Extrapolated Pressure Plot (Psi²/cycle Gas)	
OF <sup>1</sup>	Maximum Indicated Flow Rate	MCF/D
OF2	Minimum Indicated Flow Rate	.MCF/D
OF <sup>3</sup>	= Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF <sup>4</sup>	= Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
PS	== Extrapolated Static Pressure	Psig.
PF	= Final Flow Pressure	Psig.
Pot	= Potentiometric Surface (Fresh Water*)	Feet
Q	Average Adjusted Production Rate During Test	.bbls/day
Q١	= Theoretical Production w/Damage Removed	bbls/day
QЭ	Measured Gas Production Rate	MCF/D
R	= Corrected Recovery	bbls
r w	= Radius of Well Bore	Feet
t	= Flow Time	Minutes
t o	= Total Flow Time	Minutes
T	== Temperature Rankine	<b>-R</b>
Z	= Compressibility Factor	
U	— Viscosity Gas or Liquid	СР
Log	— Common Log	
_		



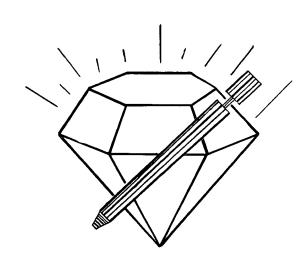
This is an actual photograph of recorder chart.

		PRESSU Field	Prec.	
POINT		Reading		
(A)	Initial Hydrostatic Mud	1630	1630	PSI
(B)	First Initial Flow Pressure	36	36	PSI
(C)	First Final Flow Pressure	120	120	PSI
(D)	Initial Closed-in Pressure	1185	1185	PSI
(E)	Second Initial Flow Pressure	118	118	PSI
(F)	Second Final Flow Pressure	165	165	PSI
(G)	Final Closed-in Pressure	1165	1165	PSI
(H)	Final Hydrostatic Mud	1636	1636	PSI

<sup>\*</sup> Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

# FORMATION TEST REPORT

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**DIAMOND TESTING** 

P.O. Box 157

HOISINGTON, KANSAS 67544

Telephone (620) 653-7550





#### DIAMOND TESTING

#### P.O. Box 157

#### HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

STC 30035.D 106

Page 1 of 2 Pages

Company L. D. Drilling, Inc.	Lease & Well No. Randy No. 2
Elevation 1806 KB Formation Lansing "H" - "K"	Ft. Ticket NoC106
Date 10-12-08 Sec. 33 Twp. 22S Range 11W	County Stafford State Kansas
Test Approved By Kim B. Shoemaker	Diamond Representative Chris Redetzke
Formation Test No. 2 Interval Tested from 3,356 f	t. to 3,460 ft. Total Depth 3,460 ft.
Packer Depth 3,351 ft. Size 63/4 in.	Packer Depthft. Size in.
Packer Depth 3,356 ft. Size 63/4 in.	Packer Depthft. Size in.
Depth of Selective Zone Setft.	
Top Recorder Depth (Inside) 3,359 ft.	Recorder Number 30035 Cap. 5,000 psi
Bottom Recorder Depth (Outside) 3,457 ft.	Recorder Number 13387 Cap. 4,000 psi
Below Straddle Recorder Depthft.	Recorder Number Cappsi
Drilling Contractor Petromark Drilling, LLC - Rig 2 D	rill Collar Length 122 ft. I.D. 21/4 in.
Mud Type Chemical Viscosity 44 W	eight Pipe Length ft. I.D in.
Weight 9.4 Water Loss 11.2 cc. D	rill Pipe Length 3,214 ft. I.D. 31/2 in.
Chlorides 5,000 P.P.M. To	est Tool Length 20 ft. Tool Size 3 1/2 - IF in.
Jars: Make Sterling Serial Number Not Run A	nchor Length 104 ft. Size 41/2 - FH in.
Did Well Flow? No Reversed Out No Su	urface Choke Size1 in. Bottom Choke Size5/8 in.
M	ain Hole Size 7.7/8 in. Tool Joint Size 4.1/2-XH in.
Blow: 1st Open: Fair, ½ in., blow increasing. Off bottom 2nd Open: Fair, ½ in., blow increasing. Off bottom	of bucket in 29 mins. No blow back during shut-in of bucket in 40 mins. No blow back during shut-in.
Recovered 226 ft. of mud = 3.215980 bbls. (Grind out: 1	00%-mud)
Recovered 124 ft. of muddy water = .628700 bbls. (Grind	out: 30%-mud; 70%-water) Chlorides: 30,000 Ppm
Recovered 350 ft. of TOTAL FLUID = 3.844680 bbls.	
Recovered ft. of	
Recovered ft. of	
Remarks Tool Sample Grind Out: 30%-mud: 7	0%-water
Fime Set Packer(s) 11:30 PXM. Time Started Off E	AXM. ottom 2:30 P.M. Maximum Temperature 104°
Initial Hydrostatic Pressure (	•
	B) 36 P.S.I. to (C) 120 P.S.I.
nitial Closed In Period Minutes 45 (	D) 1185 P.S.I.
· -	E) 118 P.S.I. to (F) 165 P.S.I.
Final Closed In Period Minutes 60 (	G) 1165 P.S.I.
	C)F.S.I.

### **GENERAL INFORMATION**

**Client Information:** 

Company: L.D DRILLING CO.

Contact: L.D. DAVIS

Phone: Fax: e-mail:

**Site Information:** 

Contact: KIM SHOEMAKER

Phone: Fax: e-mail:

**Well Information:** 

Name:

Operator: L.D. DRILLING CO.

Location-Downhole: DST #2 LANSING 'H-K' 3,356 - 3,460

Location-Surface: sec 33-22S-11W STAFORD COUNTY

**Test Information:** 

Representative:

Company: DIAMOND TESTING

**CHRIS** 

Supervisor: KIM SHOEMAKER

RANDY #2

Test Type: CONVENTIONAL Job Number:

Test Unit: NO. 1

Start Date: 2008/10/12 Start Time: 10:05:00

End Date: 2008/10/12 End Time: 16:16:00

Report Date: Prepared By:

Remarks: Qualified By:

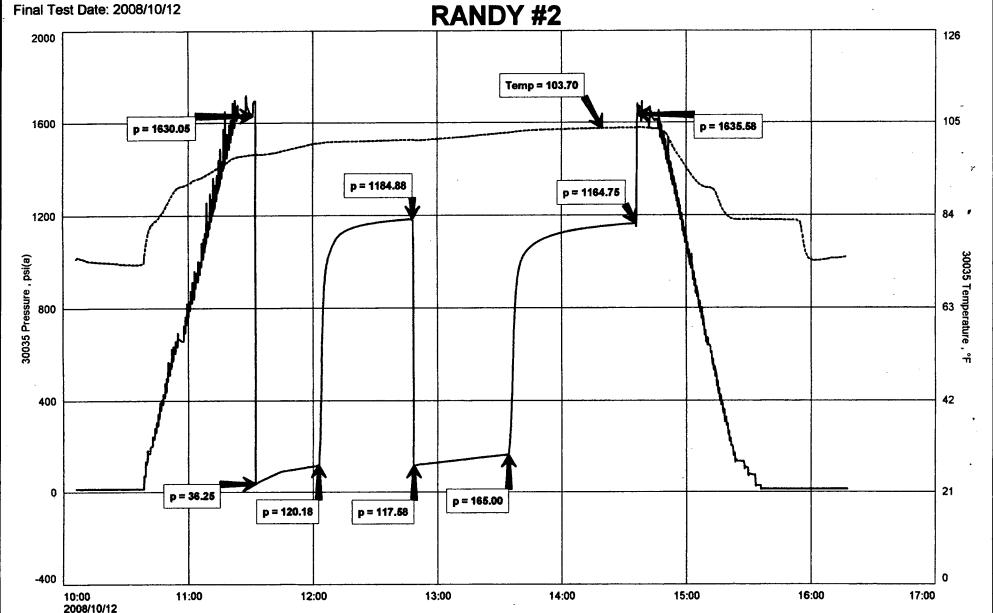
RECOVERED: 226' MUD 100% MUD 124' M.W 30% MUD, 70% WTR CHLORIDES: 30.000

124' M.W 30% MUD, 70% WTR CHLORIDES: 30,000 ppm 350' TOTAL FLUID

TOOL SAMPLE: 30% MUD, 70% WTR

L.D DRILLING CO. DST #2 LANSING 'H-K' 3,356 - 3,460 Start Test Date: 2008/10/12 RANDY #2 Formation: DST #2 LANSING 'H-K' 3,356 - 3,460

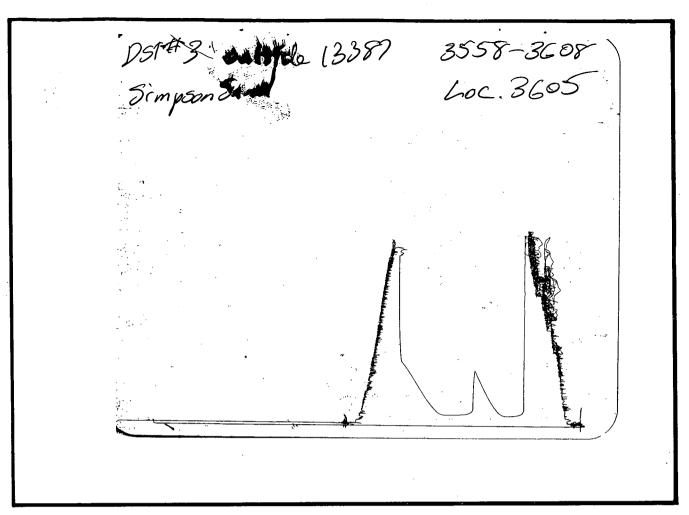
Pool: WILDCAT



30035 Time

# NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b <sup>1</sup>	Approximate Radius of Investigation (Net Pay Zone h1)	Feet
D.R.	== Damage Ratio	
El	== Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
<b>h</b>	= Interval Tested	Feet
h¹	= Net Pay Thickness	. Feet
K	= Permeability	md
Κ¹	= Permeability (From Net Pay Zone h1)	md
m	= Slope Extrapolated Pressure Plot (Psi²/cycle Gas)	
OF <sup>1</sup>	— Maximum Indicated Flow Rate	MCF/D
OF <sup>2</sup>	Minimum Indicated Flow Rate	.MCF/D
OF3	= Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF <sup>4</sup>	= Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
ps	= Extrapolated Static Pressure	Psig.
PF	= Final Flow Pressure	.Psig.
Por	= Potentiometric Surface (Fresh Water*)	Feet
Q	Average Adjusted Production Rate During Test	.bbls/da
Q <sup>1</sup>	= Theoretical Production w/Damage Removed	bbls/da
Qэ	— Measured Gas Production Rate	MCF/D
R	= Corrected Recovery	bbls
r w	= Radius of Well Bore	Feet
t	= Flow Time	Minutes
t o	= Total Flow Time	Minutes
T	= Temperature Rankine	. <b>-R</b>
Z	— Compressibility Factor	.—
Ų	— Viscosity Gas or Liquid	.CP
Log	— Common Log	
-		



This is an actual photograph of recorder chart.

		<b>PRES</b> Field	SURE Elec. Office	
POINT		Reading		
(A)	Initial Hydrostatic Mud	1743	1743	PSI
(B)	First Initial Flow Pressure	32	32	PSI
(C)	First Final Flow Pressure	48		PSI
(D)	Initial Closed-in Pressure	592	592	PSI
(E)	Second Initial Flow Pressure	43	43	PSI
(F)	Second Final Flow Pressure	66	66	PSI
(G)	Final Closed-in Pressure	674	674	PSI
(H)	Final Hydrostatic Mud	1732	1732	PSI

<sup>\*</sup> Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

# FORMATION TEST REPORT



### **DIAMOND TESTING**

P.O. Box 157

HOISINGTON, KANSAS 67544

Telephone (620) 653-7550





#### **DIAMOND TESTING**

#### P.O. Box 157

#### HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313 STC 30035.D 107 Page 1 of 2 Pages

Company L. D. Drilling, Inc. Lease & Well No. Randy No. 2 1806 KB Formation Simpson Sand Elevation \_\_\_\_Ft. Effective Pay Ticket No. C107 10-13-08 Sec. 33 Twp. 22S Range 11W County Stafford State Kansas Test Approved By Kim B. Shoemaker Diamond Representative \_\_\_Chris Redetzke \_\_\_\_ Formation Test No. 3 Interval Tested from 3,558 ft. to 3,608 ft. Total Depth\_\_\_\_\_ 3.608 ft. Packer Depth 3,553 ft. Size 63/4 in. Packer Depth -- ft. Size\_\_\_\_ -- in. Packer Depth 3,558 ft. Size 63/4 in. Packer Depth -- ft. Size\_\_\_ -- in. Depth of Selective Zone Set\_\_\_ \_\_\_\_3.561 ft. Recorder Number 30035 Cap. Top Recorder Depth (Inside) 5,000 psi \_\_\_\_\_3,605 ft. Recorder Number 13387 Cap. 4,000 psi Bottom Recorder Depth (Outside) Below Straddle Recorder Depth Recorder Number\_\_\_\_\_ \_ Cap. \_ Drilling Contractor Petromark Drilling, LLC - Rig 2 I.D. 2 1/4 in. Drill Collar Length 122 ft. Mud Type Chemical Viscosity\_\_\_\_ 44 Weight Pipe Length \_\_\_\_ ft. I.D. \_\_\_\_\_ -- in. Weight 9.4 Water Loss 11.2 cc I.D. <u>3 1/2</u> in. Drill Pipe Length 3,416 ft. 5,000 P.P.M. Tool Size\_\_\_\_\_\_3 1/2 - IF in. Test Tool Length \_\_\_\_\_ 20 ft. Jars: Make Sterling Serial Number Not Run Anchor Length \_\_\_\_\_ 50 ft. Size 4 1/2 - FH in. Did Well Flow? No Reversed Out No Surface Choke Size \_\_\_\_\_\_1 in. Bottom Choke Size \_\_\_\_5/8 in. Main Hole Size 7.7/8 in. Tool Joint Size 4 1/2-XH in. Blow: 1st Open: Fair, in., blow increasing. Off bottom of bucket in 95 mins. No blow back during shut-in. 2nd Open: Fair, ½ in., blow increasing. Off bottom of bucket in 11½ mins. No blow back during shut-in. Recovered 530 ft. of gas in pipe Recovered 90 ft. of oil cut gassy mud = .442800 bbls. (Grind out: 15%-oil; 30%-gas; 55%-mud) Recovered 90 ft. of TOTAL FLUID = .442800 bbls. Recovered ft. of Recovered\_\_\_\_ ft. of\_\_ Tool Sample Grind Out: 20%-oil; 30%-gas; 50%-mud A.M. A.M. Time Set Packer(s)\_\_\_\_\_ 6:35 RXX. Time Started Off Bottom 9:35 RXM. Maximum Temperature 105° Initial Flow Period ..... Minutes\_\_\_\_ 30 32 P.S.I. to (C) 48 P.S.I. \_(B)\_\_\_\_ Initial Closed In Period ...... Minutes\_\_\_\_ 45 (D)\_\_\_\_ 592 P.S.I. \_(E)\_\_\_\_ Final Flow Period ...... Minutes 45 43 \_P.S.I. to (F)\_\_\_\_\_66\_\_\_\_P.S.I. Final Closed In Period ...... Minutes 60 (G) 674 P.S.I. Final Hydrostatic Pressure ...... (H) 1732 \_P.S.I.

# **GENERAL INFORMATION**

**Client Information:** 

Company: L.D. DRILLING CO.

Contact: L.D. DAVIS

Phone: Fax: e-mail:

**Site Information:** 

Contact: KIM SHOEMAKER

Phone: Fax: e-mail:

Well Information:

Representative:

Name:

Operator: L.D. DRILLING CO.

Location-Downhole: DST #3 SIMPSON SAND 3,558 - 3,608

Location-Surface: sec 33-22S-11W STAFORD COUNTY

<u>Test Information:</u>

Company: DIAMOND TESTING

**CHRIS** 

Supervisor: KIM SHOEMAKER

RANDY #2

Test Type: CONVENTIONAL Job Number:

Test Unit: NO. 1

 Start Date:
 2008/10/13
 Start Time:
 05:30:00

End Date: 2008/10/13 End Time: 11:22:00

Report Date: Prepared By:

Remarks: Qualified By:

RECOVERED: 530' G.I.P.

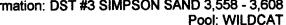
90' O.C.G.M. 15% OIL, 30% GAS, 55% MUD

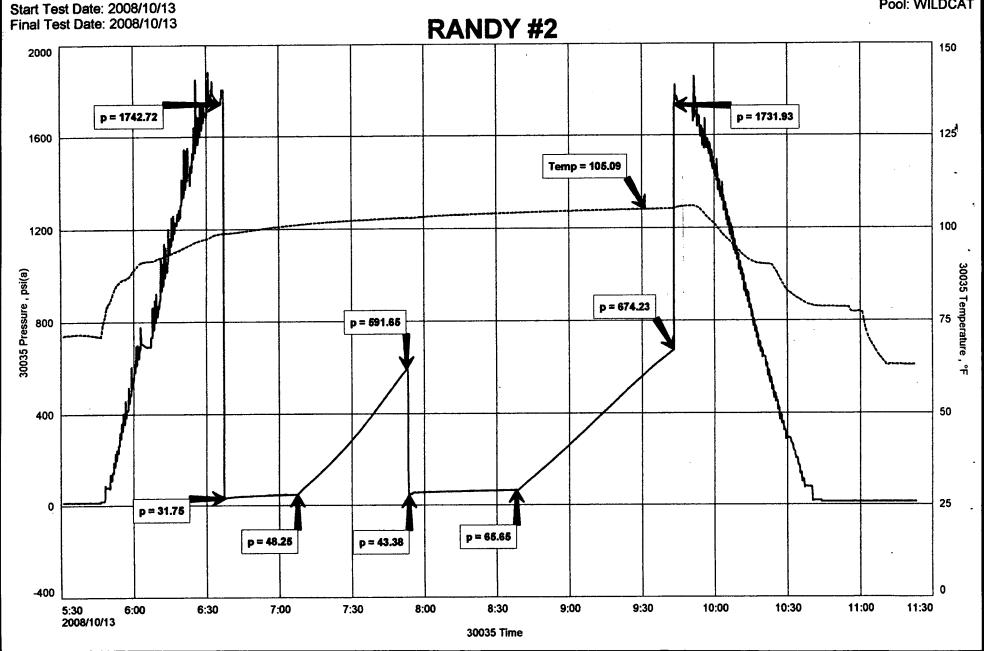
90' TOTAL FLUID

TOOL SAMPLE: 20% OIL, 30% GAS, 50% MUD

L.D. DRILLING CO. **DST #3 SIMPSON SAND 3,558 - 3,608** 

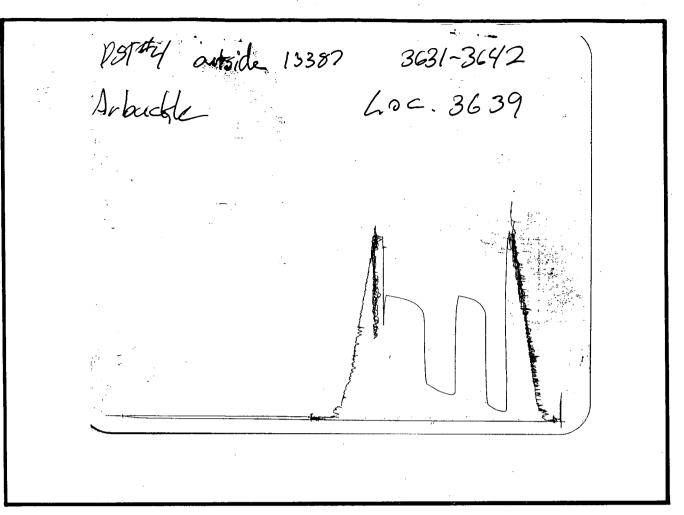
RANDY #2 Formation: DST #3 SIMPSON SAND 3,558 - 3,608





# NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b <sup>1</sup>	Approximate Radius of Investigation (Net Pay Zone h1)	Feet
D.R.	== Damage Ratio	.——
EI	= Elevation	Feet
GD	B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h¹	= Net Pay Thickness	Feet
K	= Permeability	md
K <sup>1</sup>	= Permeability (From Net Pay Zone h1)	md
m	= Slope Extrapolated Pressure Plot (Psi²/cycle Gas)	psi/cycl
OF <sup>1</sup>	— Maximum Indicated Flow Rate	MCF/D
OF2	Minimum Indicated Flow Rate	MCF/D
OF <sup>3</sup>	= Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF <sup>4</sup>	= Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
ps	= Extrapolated Static Pressure	Psig.
PF	= Final Flow Pressure	Psig.
Рот	= Potentiometric Surface (Fresh Water*)	Feet
Q	Average Adjusted Production Rate During Test	bbls/da
Q <sup>1</sup>	= Theoretical Production w/Damage Removed	bbls/da
Qэ	— Measured Gas Production Rate	MCF/D
R	= Corrected Recovery	bbls
r w	= Radius of Well Bore	Feet
t	= Flow Time	Minutes
t o	= Total Flow Time	Minutes
Т	= Temperature Rankine	. <b>0</b> R
Z	Compressibility Factor	.——
U	— Viscosity Gas or Liquid	.CP
Log	— Common Log	



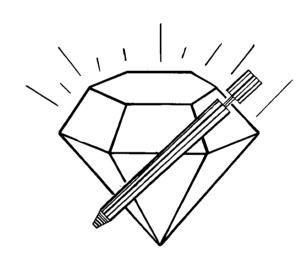
This is an actual photograph of recorder chart.

		PRES	SURE Elec.	
		Field	Office	
POINT		Reading	Reading	
(A)	Initial Hydrostatic Mud	1769	1769	. PSI
(B)	First Initial Flow Pressure	38	38	. PSI
(C)	First Final Flow Pressure	212	212	. PSI
(D)	Initial Closéd-in Pressure	1255	1255	. PSI
(E)	Second Initial Flow Pressure	217	217	. PSI
(F)	Second Final Flow Pressure	408	408	. PSI
(G)	Final Closed-in Pressure	1251	1251	. PSI
(H)	Final Hydrostatic Mud	1789	1789	. PSI

<sup>\*</sup> Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

# FORMATION TEST REPORT

agree Segre .



**DIAMOND TESTING** 

P.O. Box 157

HOISINGTON, KANSAS 67544

Telephone (620) 653-7550



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P.O. Box 157

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STC 30035.D108

Page 1 of 2 Pages

Company L. D. Drilling, Inc.	Lease & Well No. Randy No. 2
Elevation 1806 KB Formation Arbuckle	Effective PayFt. Ticket NoC108
Date 10-13-08 Sec. 33 Twp. 22S Range 11	W County Stafford State Kansas
Test Approved By Kim B. Shoemaker	Diamond RepresentativeChris_Redetzke
Formation Test No. 4 Interval Tested from 3,631	ft. to 3,642 ft. Total Depth 3,642 ft.
Packer Depth 3,626 ft. Size 63/4 in.	Packer Depth ft. Size in.
Packer Depth 3,631 ft. Size 63/4 in.	Packer Depth ft. Size in.
Depth of Selective Zone Setft.	
Top Recorder Depth (Inside) 3,634 ft.	Recorder Number 30035 Cap. 5,000 psi
Bottom Recorder Depth (Outside) 3,639 ft.	Recorder Number 13387 Cap. 4,000 psi
Below Straddle Recorder Depthft.	Recorder Number Cappsi
Drilling Contractor Petromark Drilling, LLC - Rig 2	Drill Collar Length 122 ft. I.D. 2 1/4 in.
Mud Type Chemical Viscosity 43	Weight Pipe Length
Weight 9.4 Water Loss 12.0 cc.	Drill Pipe Length 3,483 ft. I.D. 31/2 in.
Chlorides 7,000 P.P.M.	Test Tool Length 26 ft. Tool Size 3 1/2 - IF in.
Jars: Make Sterling Serial Number 1	Anchor Length <u>11 ft. Size</u> <u>4 1/2 - FH in.</u>
Did Well Flow? No Reversed Out No	•
	Main Hole Size 77/8 in. Tool Joint Size 4 1/2-XH in.
Blow: 1st Open: Fair, & in., blow increasing. Off bott	om of bucket in 8 mins. No blow back during shut-in.
	com of bucket in 8½ mins. No blow back during shut-in.
Recovered 846 ft. of muddy water = 10.902760 bbls. (G	Frind out: 15%-mud; 85%-water) Chlorides: 25,000 Ppm
Recovered ft. of	
Remarks Tool Sample Grind Out: 10%-mud;	
Time Set Packer(s) 8:02 P.M. Time Started Of	XXM.  ff Bottom 11:02 P.M. Maximum Temperature 115°
Initial Hydrostatic Pressure	_
Initial Flow Period	
Initial Closed In Period	(B) 38 P.S.I. to (C) 212 P.S.I. (D) 1255 P.S.I.
Final Flow Period Minutes 45	
Final Closed In Period Minutes 60	(E) 21/ P.S.I. to (F) 408 P.S.I. (G) 1251 P.S.I.
Final Hydrostatic Pressure	• •
****** ********* * 1000010	1.0.1.

### **GENERAL INFORMATION**

**Client Information:** 

L.D. DRILLING CO. Company:

Contact: L.D. DAVIS

Phone: Fax: e-mail:

**Site Information:** 

KIM SHOEMAKER Contact:

Fax: Phone: e-mail:

**Well Information:** 

Name:

L.D. DRILLING CO. Operator:

Location-Downhole: DST #4 ARBUCKLE 3,631 - 3,642

Location-Surface: sec 33-22S-11W STAFORD COUNTY

**Test Information:** 

Company: DIAMOND TESTING

**CHRIS** 

RANDY #2

Representative: Supervisor: KIM SHOEMAKER

Test Type: CONVENTIONAL Job Number:

Test Unit: NO. 1

2008/10/13 Start Date: Start Time: 18:47:00

2008/10/14 End Date: End Time: 00:55:00

Report Date: Prepared By:

Remarks: Qualified By:

RECOVERED: 846' M.W. 15% MUD, 85% WTR CHLORIDES: 25,000 ppm

TOOL SAMPLE: 10% MUD, 90% WTR

L.D. DRILLING CO.

DST #4 ARBUCKLE 3,631 - 3,642

Start Test Date: 2008/10/13 Final Test Date: 2008/10/14

RANDY #2 Formation: DST #4 ARBUCKLE 3,631 - 3,642

Pool: WILDCAT

