Confidentiality Requested: Yes No

KANSAS CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION**

1197668

Form ACO-1 August 2013 Form must be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	
Address 2:	Feet from Dorth / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
	Elevation: Ground: Kelly Bushing:
OG GSW Temp. Abd.	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to ENHR Conv. to SWD	Drilling Fluid Management Plan
Plug Back Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #: Dual Completion Permit #:	Dewatering method used:
Dual Completion Permit #: SWD Permit #:	Location of fluid disposal if hauled offsite:
ENHR Permit #:	Location of huid disposal if hadred offsite.
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East West
Recompletion Date Recompletion Date	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
Confidentiality Requested
Date:
Confidential Release Date:
Wireline Log Received
Geologist Report Received
UIC Distribution
ALT I II III Approved by: Date:

	Page Two	1197668
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	
INCTRUCTIONS, Chow important tang of formations papatrated	Dotail all cores Report a	Il final conjoc of drill ctome toets giving interval toetod, time tool

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken (Attach Additional She	eets)	Yes No		-	on (Top), Depth ar		Sample
Samples Sent to Geolog	gical Survey	Yes No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
		CASING Report all strings set-o	RECORD Ne		ion, 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 / SQU	EEZE RECORD			
Purpose:	Depth	Turne of Operation	III On also I land		Turne and D		

Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing				
Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?	Yes
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	Yes
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	Yes

No	(If No, skip questions 2 and 3)
No	(If No, skip question 3)

No

(If No, fill out Page Three of the ACO-1)

Shots Per Foot		PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated				A		ement Squeeze Record I of Material Used)	Depth	
TUBING RECORD:	Siz	ze:	Set At:		Packer	At:	Liner Ru	n:	No	
Date of First, Resumed	Producti	ion, SWD or ENHF	} .	Producing N		oing	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wat	er	Bbls.	Gas-Oil Ratio	Gravity
									1	
DISPOSITI	ON OF G	BAS:	_					_	PRODUCTION IN	TERVAL:
Vented Solo	J 🗌 t	Jsed on Lease		Open Hole	Perf.	Uually (Submit)	Comp.	Commingled (Submit ACO-4)		
(If vented, Su	bmit ACO	D-18.)		Other (Specify))		,	(505/111 ACO-4)		

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	GRAU-REED 1
Doc ID	1197668

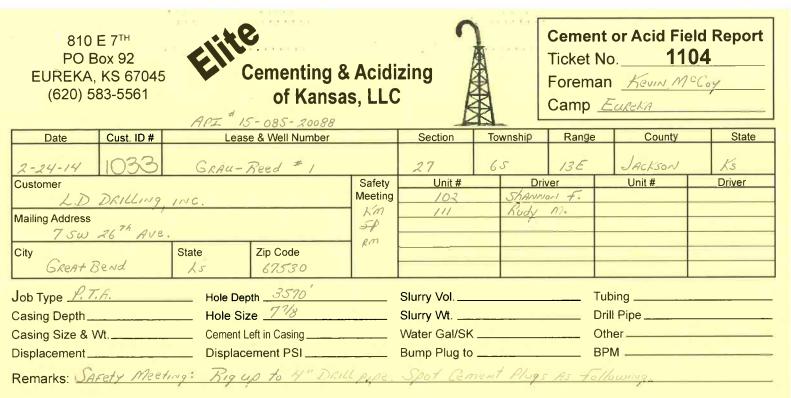
Tops

Name	Тор	Datum
LANSING	1307	-103
BASE KASAS CITY	1659	-456
CHEROKEE	1855	-652
MISSISSIPPI	2546	-1393
KENDERHOOK	2656	-1453
HUNTON	2865	-1662
MAQ	3307	-2167
VIOLA	3431	-2228
SP DOL	3542	-2339

PO Box so4, Chanute, KS 66720)975 [& TREAT	MENT REF	TICKET NUMB LOCATION FOREMAN PORT	Eureka, KS	
620-431-9210 or 800-467-8676	5 40	CEMEN		AP1 15-085		3
DATE CUSTOMER # W	ELL NAME & NUME	BER	SECTION	TOWNŠHIP	RANGE	COUNTY
2-13-14 4979 Grau	-Reed #1		27	65	138	Jackson
CUSTOMER <u>L.D. Drilling Inc.</u> MAILING ADDRESS <u>7 Sw 26th Are.</u> CITY STATE Great Bend KS	ZIP CODE	Summit Drig.	TRUCK # 485 667	DRIVER Chris M. Zevi H.	TRUCK#	DRIVER
JOB TYPE Surface O HOLE SIZE	1214	HOLE DEPTH	357'	CASING SIZE & W	EIGHT <u>828</u>	
CASING DEPTH 337' DRILL PIPE		TUBING		-	OTHER	8
SLURRY WEIGHT 14.7 4/04/ SLURRY VO DISPLACEMENT 21.7 80 DISPLACEN	•	WATER gal/sk MIX PSI	6.5	CEMENT LEFT in RATE <u>5 BPN</u>	CASING <u>10</u>	<u>*/-</u>
REMARKS: Safety Meeting. Rig up Fresh water. Mired 200 sks	o to 87/8 Co	t w/ 3	lea <u>d + Mani</u> % Cadz., Z	fold. Break	circulation Flo-seal/s	w/ 5 B K. Shut
down. Release Aug. Displace 1 20 Bbl good cement slurry to	J/ ZI.7 Bols Fi	resh water	Shut wel	I in Good cir	culation @	all times.

ACCOUNT	QUANITY or UNITS			TOTAL
54015	1	PUMP CHARGE	870.00	870.00
5406	100	MILEAGE	4.20	420.00
11045	2.00 sks	Class "A" Cement	15.70	3140.001
1102	565#	Cacle @ 3%	. 78	440.70
1(188	375 [#]	Gel @ 2%	,22	82.50
1107	50#	Flo-seal @ 1/4 #/sk	2.47	123.50
5407A	9.4 Tons	Ton Mileage Bulk Truck	1.41	1325.40
4432		85/5" Wooden Plug	84.00	84,00
			and a state of the	. 1977
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			Lompio	icu
	· · · · · · · · · · · · · · · · · · ·		Subtotal	6486.10
		"Thank You" 7.5	5% SALES TAX	292.23
vin 3737			ESTIMATED TOTAL	6778.33
UTHORIZTION	DAN COX	TITLE	DATE	

acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's



15 Sh S @ 3420 VIO/A
15 5K5 @ 2865' Hunton
15 SKS (0 1650' BKC
1055ks 350 to SULFACE
150 Sts TotAL

			Al	
Code	Qty or Units	Description of Product or Services	Unit Price	Total
C /03	/	Pump Charge	1050.00	1050.00
C 107	145	Mileage	3.95	572.75
C 203	1505KS	60/40 Pozmix Cement	12.75	1912.50
206	.515 #	Gel 4%	. 20 *	103.00
C 108 B	6.45 Tows	Ton Mikage 145 miles	1.35	1262.59
		THANK YOU 7.55 %	Sub TotAL	4900.84
		At 7.55 %	Sales Tax	152.17
Authoric	Da	Title	Total	5053.01
Authoriz	ation	Title	TOTAL	

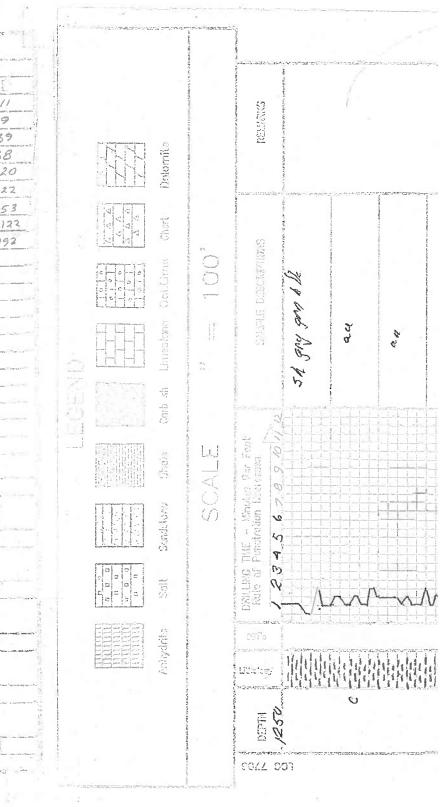
I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

Georges &. Felensen a.f. g. 386 an ooraalteng geologiki 3223 Rockers Rd. Topoka, Kenses BEEN, (125) 272-0382 enapesta Loa COMPANY: L.D. DRILLING Inc WELL MAKE GRAV-Reed #1 LOCATION: TN'2, SW, SE, NE 2210 FNL 990 FEL 350. 27 16 9 9 13 E COUNTY: JACKSON STATE: Konsus ELEVATION GR 1193,23 KB 1203 API 0: 15-085-20088-00-00 Soldier CONTRACTOR: SUMMIT Drilling Inc 2001 CONT. George E Petersen 2716 DEE : mar R/13/14 COMP DATE: 2/23/14 SAPLES SAME PROM. JEST TD 3570 _____ 1.102 NA S.S. S. C. NIA CARL LALE LOCK SUNFACE CASING SETL 300+ 700 CASE 3 237: SUPERVISION FROM SURP TD TD PSA Lack of shows & regated Test Results Gina and St.

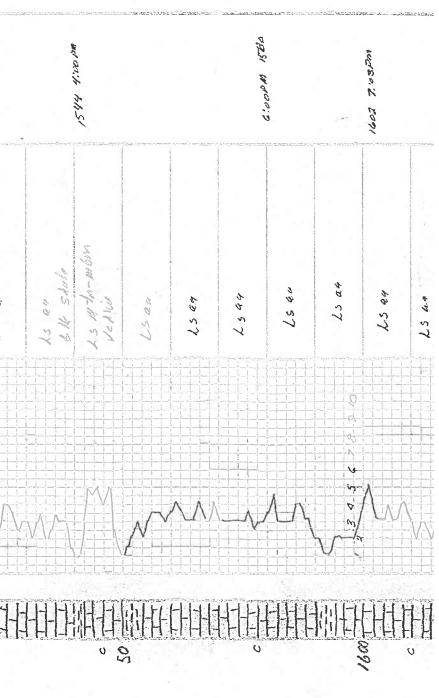
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B/KC 1659			-456	-441	-436	1-443	-439
Cherokee 1853	5		-652	-648	-639	-640	-638
177155 254L			- 1393	-1307	-1318	- 13 15	-1321
Kinderhade 2650		-	-1453	-1420	-1382	- 1417	-142
Munton 286	5	-	1662	7639	-1626	-1619	-165
Mag 330'	7		2167	-2123	1-2122	-2119	-212
Viola 3431		-	2228	-2195	1-2188	-2187	-219
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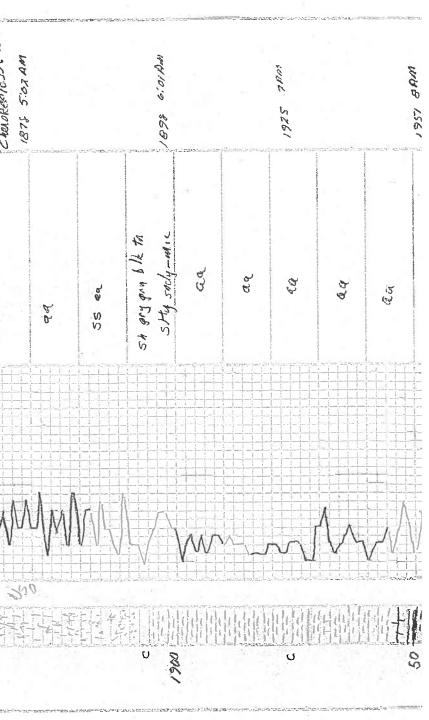
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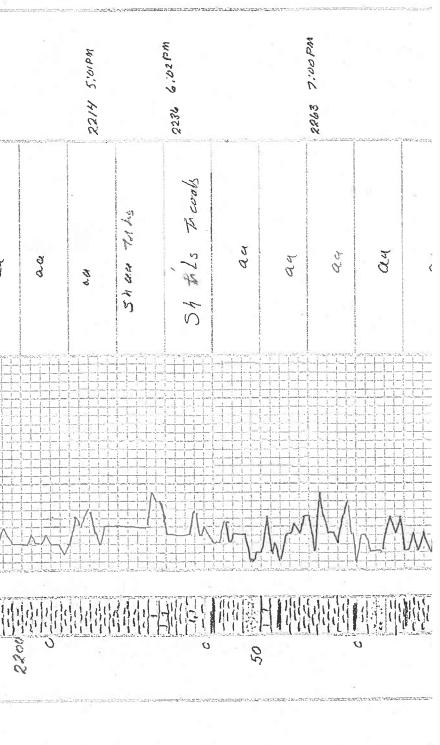


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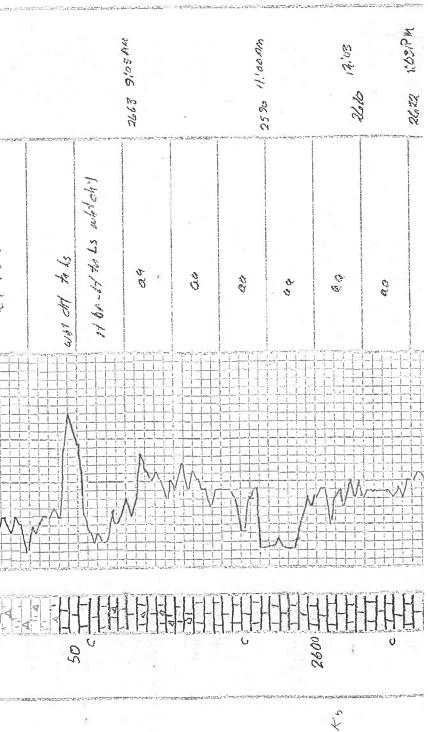
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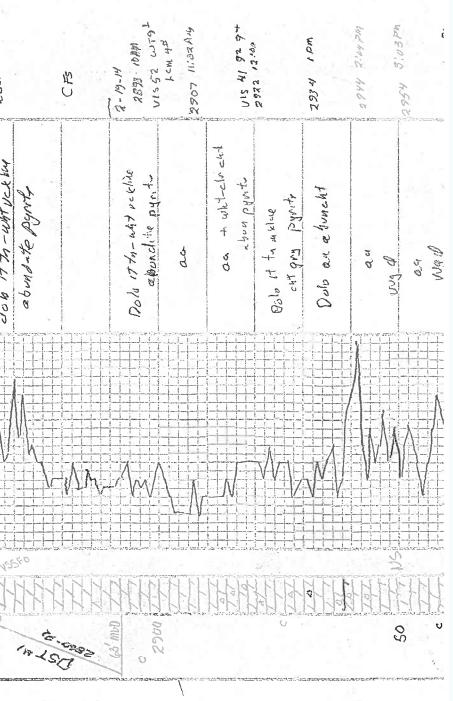


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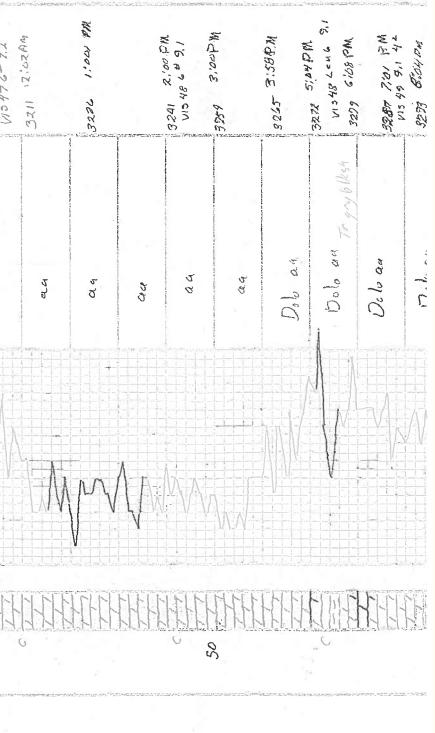
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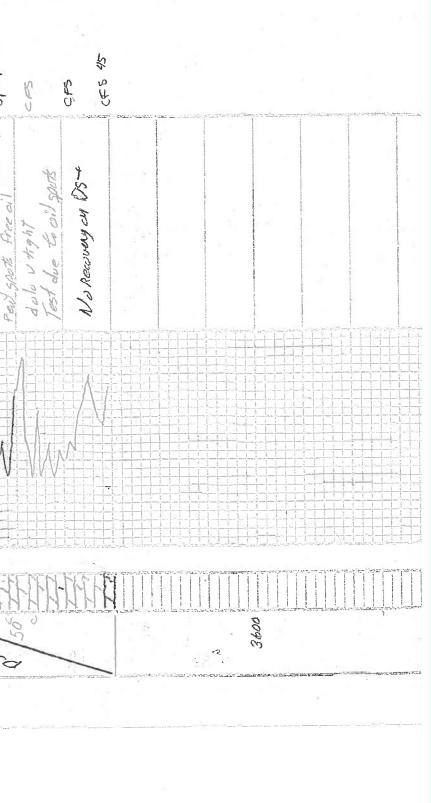
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DIAMOND TESTING P.O. Box 157 HOISINGTON, KANSAS 67544 (800) 542-7313 DRILL-STEM TEST TICKET FILE: GR-RD1DST1

TIME ON: 2135 (2/18)

TIME OFF: 0550 (2/19)

Company L.D. DRILLING, INC.	Lease & Well No. GRAU-REED #1
Contractor SUMMIT DRILLING COMPANY RIG 1	
	DN Effective PayFt. Ticket NoM616
Date 2/18/2014 Sec. 27 Twp. 6 S F	Range12E W CountyJACKSONStateKANSAS
Test Approved By GEORGE PETERSON	Diamond Representative MIKE COCHRAN
Formation Test No. 1 Interval Tested from 2	860 ft. to 2892 ft. Total Depth 2892 ft.
Packer Depth2855 ft. Size6 3/4 in.	
Packer Depth 2860 ft. Size6 3/4 in.	Packer depth NA ft. Size 6 3/4 in.
Depth of Selective Zone Set	
Top Recorder Depth (Inside) 2847 ft.	Recorder Number0063_Cap6,000_P.S.I.
Bottom Recorder Depth (Outside) 2889 ft.	Recorder Number 6884 Cap 5,000 P.S.I.
Below Straddle Recorder Depthft.	Recorder Number Cap P.S.I.
Mud Type CHEM Viscosity 52	Drill Collar Length 314 ft. I.D 2 1/4 ii
Weight 9.1 Water Loss 9.6 cc	. Weight Pipe Length0 ft. I.D2 7/8
ChloridesP.P.M.	Drill Pipe Length 2519 ft. I.D 3 1/2
Jars: Make STERLING Serial Number SFTY JT	_ Test Tool Length 27 ft. Tool Size 3 1/2-IF i
Did Well Flow?NOReversed OutNO	Anchor Length 32 ft. Size4 1/2-FH
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 31/2 XH in.	Surface Choke Size1 in. Bottom Choke Size_5/8
Blow: 1st Open: 11/2" RIGHT AWAY, BUILT TO 3"	(NO BB)
2nd Open: WSB, INCREASE TO 11/2"	(NO BB)
Recovered 63 ft. of DM 100% MUD	a na Milanda a contra con a director de la conferencia de seconda de la contra de la contra de la contra de la
Recovered 63 ft. of TOTAL FLUID	
Recoveredft. of	
Recoveredft. of	
Recoveredft. of	
Recovered ft. of	Other Charges
Remarks: TOOL SLID 15'	Insurance
TOOL SAMPLE: 100% MUD	Total
Time Set Packer(s) 1:30 A.M. P.M. Time Started Off B	ottom 3:00A.M. P.M. Maximum Temperature 107°F
Initial Hydrostatic Pressure	(A) 1383 P.S.I.
Initial Flow Period	(B) 23 P.S.I. to (C) 34 P.S.I.
Initial Closed In Period Minutes 30	(D)1011 P.S.I.
Final Flow Period Minutes 15	(E) 34 P.S.I. to (F) 44 P.S.I.
Final Closed In PeriodMinutes 30	(G) <u>1003</u> P.S.I.
Final Hydrostatic Pressure	(H) 1374 P.S.I.

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

DIAMOND TESTING

Pressure Survey Report

General Information

Company Name Well Name Unique Well ID Surface Location Field	Representative Well Operator Report Date Prepared By	M616 MIKE COCHRAN L.D. DRILLING, INC. 2014/02/19 MIKE COCHRAN
Field Well Type	Prepared By Qualified By	MIKE COCHRAN GEORGE PETERSON
	Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL	
Formation	GRAU-REED #1 DST#1	
Test Purpose (AEUB)	Initial Test	

0063

Gauge Name Gauge Serial Number

Test Results

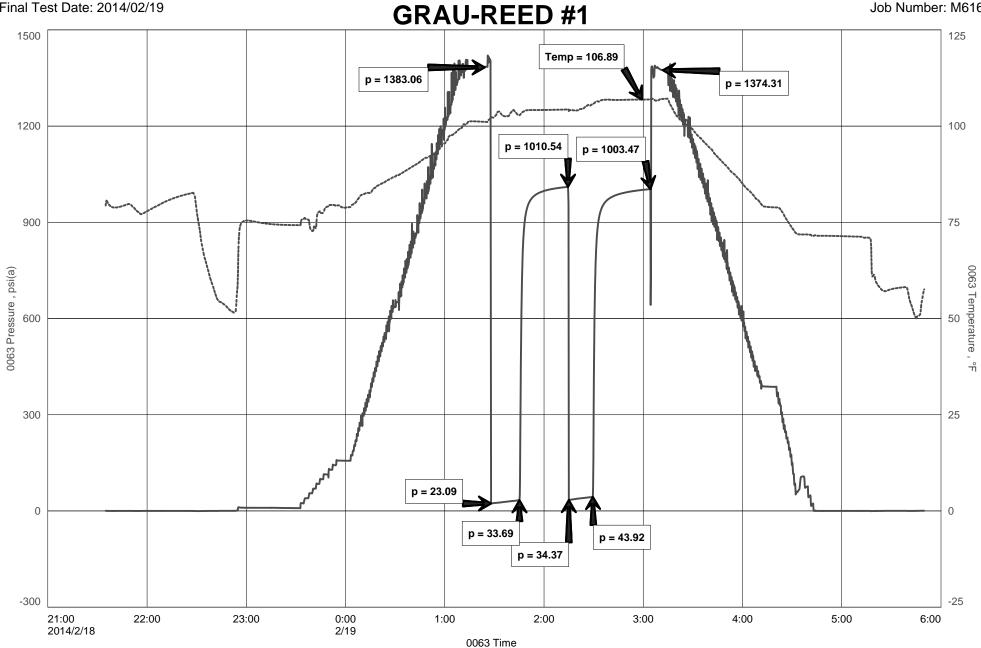
Remarks RECOVERED:

63' DM 100% MUD 63' TOTAL FLUID

TOOL SAMPLE: 100% MUD

L.D. DRILLING, INC. GRAU-REED #1 DST#1 Start Test Date: 2014/02/18 Final Test Date: 2014/02/19

GRAU-REED #1 Formation: GRAU-REED #1 DST#1 Pool: WILDCAT Job Number: M616





DIAMOND TESTING P.O. Box 157 HOISINGTON, KANSAS 67544 (800) 542-7313 DRILL-STEM TEST TICKET FILE: <u>GR-RD1DST2</u>

TIME ON: 1005

TIME OFF: 1900

Company_L.D. DRILLING, INC.			_Lease & Well No. GRA			
Contractor SUMMIT DRILLING CC				the second s		
Elevation 1203 KB Form	ationSIMPS	ON DOLO-S	S_Effective Pay	F	t. Ticket No	M617
Date 2/23/2014 Sec. 27	Twp	6 S R	ange12E	W CountyJA	ACKSON Sta	te KANSAS
Test Approved By GEORGE PETERSEN	N		_ Diamond Representative	MIK	E COCHRA	N
Formation Test No. 2	Interval Tested from	n35	530 ft. to	3570 ft. Total De	pth	3570 ft.
Packer Depth3525 ft	. Size 6 3/4	in.	Packer depth	NA ft.	. Size 6 3/4	in.
Packer Depth3530 ft	. Size 6 3/4	in.	Packer depth	NA ft.	. Size 6 3/4	in.
Depth of Selective Zone Set						
Top Recorder Depth (Inside)		3518 _{ft.}	Recorder Number	0063 Ca	p6	,000 P.S.I.
Bottom Recorder Depth (Outside)		3567 _{ft.}	Recorder Number	6884 Ca	ар5	9,000 P.S.I.
Below Straddle Recorder Depth		ft.	Recorder Number	Ca	p	P.S.I.
Mud Type CHEM Viscos	ity47		Drill Collar Length	314 ft.	I.D. 2	? 1/4 in
Weight 9.3 Water Los	s8.8	3cc.	Weight Pipe Length	0 _{ft.}	I.D. 2	. 7/8 in
Chlorides	1,00	0 P.P.M.	Drill Pipe Length		I.D. 3	3 1/2 in
Jars: MakeSTERLINGSerial N	umberSF	TY JT	Test Tool Length		Tool Size 3	1/2-IF in
Did Well Flow?NORe	versed Out	NO	Anchor Length	40 _{ft.}	Size 4	1/2-FH ir
			Surface Choke Size	1in.	Bottom Choke	Size 5/8 in
Blow: 1st Open: A FEW BUBBLE	S ON TOOL	OPEN TH	EN A VERY WEA	AK INTERMI	FTENT SB	(NO BB)
2nd Open: NO BLOW		(NO BB)				1
Recovered <1 ft. of DM 100%						
Recovered <1 ft. of TOTAL FLU	DIC					
Recoveredft. of						
Recoveredft. of						
Recoveredft. of				Pric	e Job	
Recovered ft. of				Oth	er Charges	
Remarks:				Insu	urance	
TOOL SAMPLE: 100% DM				Tota	al	
Time Set Packer(s) 2:00 P.M.	A.M. P.M. Time \$	Started Off Bo	attom 3:15 P.M.	A.M. P.M. Maximu	m Temperature	113°F
Initial Hydrostatic Pressure			(A) 1	732 P.S.I.		
Initial Flow Period	Minutes	15	(B)	14 P.S.I. to (C)	1	5 P.S.I.
Initial Closed In Period	Minutes	30	(D)	18 P.S.I.		
Final Flow Period		10	(E)	14 P.S.I. to (F)_	1	5 _{P.S.I.}
Final Closed In Period	Minutes	20	(G)	16 P.S.I.		
Final Hydrostatic Pressure			(H) 1	725 _{P.S.I.}		

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DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	L.D. DRILLING, INC.	Job Number	M617
Well Name	GRAU-REED #1	Representative	MIKE COCHRAN
Unique Well ID	DST#2 3530-3570 SIMPSON DOLO-SS	Well Operator	L.D. DRILLING, INC.
Surface Location	SEC.27-6S-13E JACKSON CO.KS.	Report Date	2014/02/23
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	GEORGE PETERSEN
		Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL
Formation	DST#2 3530-3570 SIMPSON DOLO-SS
Test Purpose (AEUB)	Initial Test

Start Test Date	2014/02/23 Start Test Time	10:05:00
Final Test Date	2014/02/23 Final Test Time	19:00:00
	Well Fluid Type	01 Oil

0063

Gauge Name Gauge Serial Number

Test Results

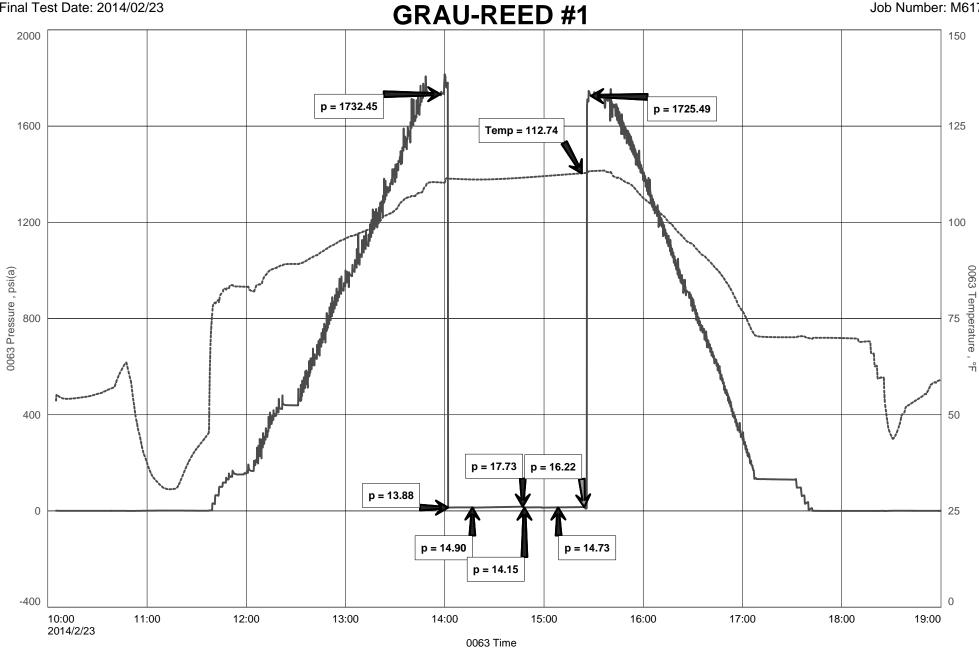
Remarks **RECOVERED**:

<1' DM 100% MUD <1' TOTAL FLUID

TOOL SAMPLE: 100% DM

L.D. DRILLING, INC. DST#2 3530-3570 SIMPSON DOLO-SS Start Test Date: 2014/02/23 Final Test Date: 2014/02/23

GRAU-REED #1 Formation: DST#2 3530-3570 SIMPSON DOLO-SS Pool: WILDCAT Job Number: M617



C:\Users\Roger Friedly\Documents\aMIKEDST\GRAU-REED #1\GR-RD1DST2\GR-RD1DST2CHT.FKT 23-Feb-14 Ver