Confidentiality Requested: Yes No

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

1187182

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 North / South Line of Section
City: State: Zip:+	Feet from Cast / 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 #:
	Field Name:
	Producing Formation:
	Elevation: Ground: Kelly Bushing:
	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 #:	Dewatering method used:
Dual Completion Permit #:	
SWD Permit #:	Location of fluid disposal if hauled offsite:
	Operator Name:
	Lease Name: License #:
Shud Data ar	Quarter Sec TwpS. R East West
Recompletion Date Reached TD Completion Date of 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	1187182
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	
INCTOLICTIONS. Chow important tang of formations panetrated Da	tail all aaraa Dana	rt all final conjus of drill stome tasts giving interval tastad, 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	oots)	Yes No	L	og Formatio	on (Top), Depth and	d Datum	Sample
Samples Sent to Geolog	gical Survey	Yes No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
		CASING Report all strings set-c	RECORD Ne	w Used ermediate, producti	on, 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 / SQL	EEZE RECORD			
Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used		Type and Pe	ercent Additives	
Protect Casing							
Plug Off Zone							
Did you perform a hydraulic	fracturing treatment of	on this well?		Yes	No (If No, skip	o questions 2 an	d 3)
Does the volume of the tota	I base fluid of the hyd	raulic fracturing treatment ex	ceed 350,000 gallons'	?	No (If No, skip	o question 3)	
Was the hydraulic fracturing	treatment information	n submitted to the chemical o	lisclosure registry?	Yes	No (If No, fill c	out Page Three o	of the ACO-1)

Shots Per Foot	PE	RFORATION REC Specify Footage	ORD - Bridge Plugs Se of Each Interval Perforate	et/Type ed	Ad	cid, Fracture, Shot, C (Amount and Kind	ement Squeeze Record d of Material Used)	Depth
TUBING RECORD:	Size:	Set	At: F	Packer At:	Liner Ru	n: Yes	No	
Date of First, Resumed	I Production, S	WD or ENHR.	Producing Method:	Pumping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bbls.	Gas Mcf	Wa	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITI	ON OF GAS:		METH	HOD OF COMPL	ETION:		PRODUCTION IN	TERVAL:
Vented Solo	d Used o	on Lease	Open Hole Pe	erf. Duall (Submit	y Comp. <i>ACO-5)</i>	Commingled (Submit ACO-4)		

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

Form	ACO1 - Well Completion
Operator	HERMAN L. LOEB, LLC
Well Name	SCHOOL TRUST 20-5
Doc ID	1187182

Tops

Name	Тор	Datum
Elgin SS	3688	-2209
Heebner	3826	-2347
Toronto	3844	-2365
Douglas Shale	3890	-2411
Stalnaker Sand	4150	-2671
Kansas City	4338	-2859
Swope	4516	-3037
Hertha	4544	-3065
Marmaton	4598	-3119
Pawnee	4673	-3194
Cherokee Sand	4742	-3263
Mississippi	4762	-3293
Kinderhook	5160	-3681
Woodford Shale	5226	-3747
Viola	5282	-3303
Simpson Sand 1st	5403	-3924
Simpson Sand 2nd	5532	-4053
Arbuckle	5584	-4105

Form	ACO1 - Well Completion
Operator	HERMAN L. LOEB, LLC
Well Name	SCHOOL TRUST 20-5
Doc ID	1187182

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	17.5	13.375	55.0	271	Quality Common	275	See Tkt# 6037
Production	7.875	5.5	15.5	5591	Basic Loeb Blend	350	See Tkt# 09511

LITHOLOGY STRIP LOG WellSight Systems

Scale 1:240 (5"=100') Imperial Measured Depth Log

Well Name: HERMAN L. LOEB LLC. SCHOOL TRUST #20-5 Location: NE NW SW NE SEC.5-T35S-R12W, BARBER CO. KANSAS License Number: 15-007-24092-00-00 Spud Date: 11/01/13 Surface Coordinates: 1,325' FNL, 2,295' FEL

Bottom Hole Coordinates:

Ground Elevation (ft):	1,470' K.B. Elevation (ft): 1,479'
Logged Interval (ft):	3,600' To: 5,640' Total Depth (ft): 5,640'
Formation:	Arbuckle
Type of Drilling Fluid:	Native Mud To; 3,245', Chemical Gel To RTD.
	Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Herman L. Loeb LLC. Address: PO Box 838 Lawrenceville IL 62439 Phone: 812-453-0385

GEOLOGIST

Name:James R. Hall (Wellsite Supervisor)Company:Black Gold PetroleumAddress:PO Box 66Valley Center, Kansas67147-0066

Comments

Drilling contractor: Sterling Drilling Co. Rig #4, Tool Pusher: Lanny Saloga.

Surface Casing: 13 3/8" set at 271' w/275sx, cement did circulate.

Activity: 11/01/13; Spud. 11/03/13; Drilling @ 1,365'. 11/04/13; Drilling @ 2,380'. 11/05/13; Drilling @ 3,085'. 11/06/13; Drilling @ 3,660'. Displaced system and convert to Chemical Gel mud @ 3,245'. 11/07/13; Running DST #1 (Stalnaker Sandstone, see test results below), @ 4,190'. Prior to DST #1 ran 30std. short trip, and strap pipe (1.39' short to the board. 11/08/13; Drilling @ 4.320'. 11/09/13; Drilling @ 4,630'. 11/10/13; 4,860' running DST #2 Miss. 4,790' - 4,860',(see test results below). 11/11/13; Drilling @ 4,930' 11/12/13; Drilling @ 5,165'. 11/13/13; Tripping NB #2 @ 5,313'. 11/14/13; Drilling @ 5.500'. 11/15/13; Open Hole Logs after RTD 5,640'. Make ready to run 5 1/2" casing to evaluate the Stalnaker Sandstone and Mississippi.

Deviation Surveys: 0.50 @ 275', 2.25 @ 4,190', 2.50 @ 4,860', 2.0 @ 5,013', 1.75 @ 5,640'.

Bit Record: #1 17 1/2" out @ 275'. #2 7 7/8" New JZ HA20Q in @ 275', out @ 5,313', made 5,038' in 175 hrs. #3 7 7/8" RR JZ QX30 in @ 5,313', out @ 5,640', made 327' in 28.5 hrs.

Drilling time commenced: @ 3,600'. Minimum 10' wet and dry samples commenced: @ 3600' to RTD. Samples delivered to Kansas Geological Sample Library at Wichita, Kansas.

Gas Detector: Sterling Rig unit #4. Tooke Daq Drilling time and Hotwire gas values were placed on this Plotted Sample Strip log.

Mud System: Mud-Co/Service Mud. Chemical Gel system @ 3,245', Mud Engineer: Brad Bortz & Terry Ison.

DST Co. Trilobite Testing Co., Tester: Leal Casom (Pratt Office).

Open Hole Logs: Halliburton (Liberal Kansas), Logging Engineer: J. Bollom. DIL, CDL/CNL/PE, MEL/SON.

Reference Wells: "A" Gulf Oil Exploration & Production School Trust #18-5, S/2 NW NE 5-35S-12W, "B" Gulf Oil Corp. School Trust #19-4, SW/4 4-35S-12W.

Note: The open hole log gamma ray and caliper curves have been placed on this sample strip log, for better correlation. This sample strip log has been shifted 2' for correlation purposes with the open hole logs. Tops shown on the strip log are E-log tops.

DST #1 (Stalnaker Sandstone), 4,156' - 4,168 (12' straddle test), 15-60-15-60, IH 2110, IF 149-614 (BOB 10sec, GTS 3min, 10min 2.1mmcf, 15min 2.4mmcf). ISI 1701 (1/2" blow), FF 483-598 (BOB>S immd., 5min 1.7mmcf, 10min 2.5mmcf, 15min 2.5mmcf), FSI 1699 (1/2"blow), Rec; 4,143' GIP, 10' GMCW (5%gas, 50%water, 40%mud), Rwa 0.81 @ 61 F (0.48 @ 102 F), BHT 102 F.

DST #2 (Mississippi) 4,790' - 4,860' (70'). 15-45-45-90, IH 2517, IF 113-308, (BOB 15sec., GTS 12min (orange flame), ISI 1162, (blow back, BOB 20min), FF 201-265, (BOB immd., 10min 168mcf, 20min 393mcf, 30min 313mc 40min 286mcf, 45min 286mcf), gas sample taken, FSI 1050 (blow back to 4"), FH 2426, Rec; 3797' GIP, 934' GSYOIL (5%gas,93%oil), 62' GWMCO (10%gas,80%oil,16%mud), Oil Gravity 19.6 API, BHT 120 F.

DSTs

() () () () () () () () () () () () () (Herman L Loeb LLC		5.3	55-12W	Barber	
TESTING , INC	PO Box 838 Law erencevill IL 62439		Sc	hool Tru	ist 20-5	
	ATTN: Tom Pronald		Job Tes	Ticket: 52 t Start: 20	516 I 13.11.07 @ 10:1	9:52
")+.A.						
GENERAL INFORMATION:						
Formation: Stalnaker Deviated: No Whipstock: Time Tool Opened: 13:39:52 Time Test Ended: 17:39:37	ft (KB)		Tes Tes Unit	tType: C ter: L tNo: 4	Conventional Stra .eal Cason 15	addle (Initial)
Interval: 4156.00 ft (KB) To 41 Total Depth: 4190.00 ft (KB) (TV Hole Diameter: 7.88 inchesHole	68.00 ft (KB) (TVD) (D) Condition: Good		Ref	erence Be KB to	vations: 14 14 o GR/OF:	479.00 ft (KB) 470.00 ft (CF) 9.00 ft
Seriel # 0700 Incide						
Serial #: 6756 Inside Press@RunDepth: 598.54 psig 598.54 psig Start Date: 2013.11.07 Start Time: 10:19:53	@ 4157.00 ft (KB) End Date: End Time:	2013.11.07 17:39:37	Capacity Last Cali Time On Time Off	r: b.: Btm: 2 Btm: 2	80 2013 2013.11.07 @ 12 2013.11.07 @ 14	000.00 psig 11.07 :36:37 :58:07
ISI: 1/2 inch Blow FF: Strong Blow, FSI: 1/2 inch Blov	Back BOB & GTS immediate, Gauged & v Back	Caught Sam	ple			
Pressure vs. Ti			P	RESSUR	E SUMMARY	,
078 Pressure	678 Torpenker	Time	Pressure	Temp	Annotation	
		Time (Min.) 0 2 16 62 64 77	Pressure (psig) 2110.45 149.60 614.37 1701.22 483.24 598.54	Temp (deg F) 104.00 105.16 90.61 101.69 93.89 89.64	Annotation Initial Hydro-stal Initial Hydro-stal Shut-In(1) End Shut-In(1) Open To Flow (1 Shut-In(2)	tic tic 1)
		Time (Min.) 0 2 16 62 64 77 135 142	Pressure (psig) 2110.45 149.60 614.37 1701.22 483.24 598.54 1699.85 2127.72	Temp (deg F) 104.00 105.16 90.61 101.69 93.89 89.64 102.97 102.56	Annotation Initial Hydro-stal Initial Hydro-stal Shut-In(1) End Shut-In(1) Open To Flow (1 Shut-In(2) End Shut-In(2) Final Hydro-stat	tic tic 1) tic
Plane 200 Plane Pl	Di Inputa	Time (Min.) 0 2 16 62 64 77 135 142	Pressure (psig) 2110.45 149.60 614.37 1701.22 483.24 598.54 1699.85 2127.72	Temp (deg F) 104.00 105.16 90.61 101.69 93.89 89.64 102.97 102.56	Annotation Initial Hydro-stal Initial Hydro-stal Shut-In(1) End Shut-In(1) Open To Flow (1 Shut-In(2) End Shut-In(2) Final Hydro-stat	tic tic 1) tic
encovery Length (t) Description	Volume (28)	Time (Min.) 0 2 16 62 64 77 135 142	Pressure (psig) 2110.45 149.60 614.37 1701.22 483.24 598.54 1699.85 2127.72	Temp (deg F) 104.00 105.16 90.61 101.69 93.89 89.64 102.97 102.56 Gas Chole (ir	Annotation Initial Hydro-stal Initial Hydro-stal Shut-In(1) End Shut-In(1) Open To Flow (1 Shut-In(2) End Shut-In(2) Final Hydro-stal	tic 1) tic g) Gas Rate (Mc8d)
Provide the second seco	072 Expract 1 <td< td=""><td>Time (Min.) 0 2 16 62 64 77 135 142</td><td>Pressure (psig) 2110.45 149.60 614.37 1701.22 483.24 598.54 1699.85 2127.72</td><td>Temp (deg F) 104.00 105.16 90.61 101.69 93.89 89.64 102.97 102.56 Chole (ir 0</td><td>Annotation Initial Hydro-stal Initial Hydro-stal Shut-In(1) End Shut-In(1) Open To Flow (1 Shut-In(2) End Shut-In(2) Final Hydro-stat</td><td>tic tic 1) tic g) Gas Rate (McRd) 20 2120.85</td></td<>	Time (Min.) 0 2 16 62 64 77 135 142	Pressure (psig) 2110.45 149.60 614.37 1701.22 483.24 598.54 1699.85 2127.72	Temp (deg F) 104.00 105.16 90.61 101.69 93.89 89.64 102.97 102.56 Chole (ir 0	Annotation Initial Hydro-stal Initial Hydro-stal Shut-In(1) End Shut-In(1) Open To Flow (1 Shut-In(2) End Shut-In(2) Final Hydro-stat	tic tic 1) tic g) Gas Rate (McRd) 20 2120.85
The second secon	Volume (bb) Volume (bb) 0.00 N 0.05	Time (Min.) 0 2 16 62 64 77 135 142 First Ga Last Ga	Pressure (psig) 2110.45 149.60 614.37 1701.22 483.24 598.54 1699.85 2127.72 s Rate s Rate	Temp (deg F) 104.00 105.16 90.61 101.69 93.89 89.64 102.97 102.56 Chole (in 0 0	Annotation Initial Hydro-stal Initial Hydro-stal Shut-In(1) End Shut-In(1) Open To Flow (1 Shut-In(2) End Shut-In(2) Final Hydro-stal States S	tic tic 1) tic 00 2120.85 00 2567.90
Parlia de la construcción de la	Volume (bb) 0.00 Volume (bb)	Time (Min.) 0 2 16 62 64 77 135 142 First Ga Last Ga Max. Ga	Pressure (psig) 2110.45 149.60 614.37 1701.22 483.24 598.54 1699.85 2127.72 s Rate s Rate s Rate as Rate	Temp (deg F) 104.00 105.16 90.61 101.69 93.89 89.64 102.97 102.56 Choixe (ir 0 0 0	Annotation Initial Hydro-stal Initial Hydro-stal Shut-In(1) End Shut-In(1) Open To Flow (1 Shut-In(2) End Shut-In(2) Final Hydro-stal States S	tic tic 1) tic 00 2120.85 00 2567.90 00 2458.13

() () () () () () () () () () () () () (Herman L Loeb LLC		5-3	5S-12W F	Barber	
ESTING , INC	PO Box 838 Law erencevill, IL 62439		Sci	hool Trus	st 20-5	54.0
	ATTN: Tom Pronald/Jim Hall		Tes	t Start: 201	3.11.10 @ 10:05:1	7
GENERAL INFORMATION						
Formation: Mississippi						
Deviated: No Whipstock: Time Tool Opened: 12:51:17 Time Test Ended: 20:45:47	ft (KB)		Tes Tes Unit	t Type: Co ter: Le No: 45	onventional Bottom eal Cason	Hole (Reset)
Interval: 4790.00 ft (KB) To 4860 Total Depth: 4860.00 ft (KB) (TV D) (TV D) Hole Diameter: 7.88 inchesHole O	.00 ft (KB) (TVD)) ondition: Good		Ref	erence Bev KB to	ations: 1479 1470 GR/CF: 9	.00 ft (KB) .00 ft (CF) .00 ft
Serial # 6798 Inside						
Press@RunDepth: 265.34 psig @ Start Date: 2013.11.10	4791.00 ft (KB) End Date: End Time:	2013.11.10 20:45:47	Capacity Last Cali Time On Time Off	: b.: Btm: 20 Btm: 20	8000 2013.11 013.11.10 @ 12:48	.00 psig .10 :32
Pressure vs. Time Official	078 Torquellar	Time	P Pressure	RESSURE Temp	E SUMMARY Annotation	
Pressure vs. Time			P	RESSURE	SUMMARY	
·····		(Min.)	(psig)	(deg F)	Annotation	
		0	2517.48 112.92	114.63	Initial Hydro-static Open To Flow (1)	
	1	17	307.64	116.08	Shut-In(1)	
	1	64	1161.90	117.04	End Shut-In(1)	
		109	265.34	118.25	Shut-In(2)	
		÷	4050.05	120.24	End Shut-In(2)	
		200	1050.05	120.24	Cool I hadro ototio	
		200 201	2425.71	120.53	Final Hydro-static	
Recovery		200 201	2425.71	120.53 I	Final Hydro-static	
Blanker 280 Blanke	Volume (bb)	200 201	2425.71	Gas Choke (inc	Rates Pressure (psig)	Ges Rate (McEd)
Recovery Length (#) Description 0.00 3797 GP	Volume (bbl) 0.00	First Ga:	1050.05 2425.71 s Rate	Gas Chole (inc 0.1	Rates hes) Pressure (psig) 25 92.00	Gas Rate (McEd) 168.79
Itensity	Volume (bbl) 0.00 180%O 0.30	First Gas Last Gas	1050.05 2425.71 s Rate s Rate	Gas Chole (inc 0.1 0.1	Rates hes) Pressure (psig) 25 92.00 50 28.00	Gas Rate (McRd) 168.79 286.02
Image: Second	Volume (bb) 0.00 180%O 0.30 11.77	First Ga Last Ga Max. Ga	s Rate s Rate s Rate	Gas Choise (inc 0.1 0.1	Rates hes) Pressure (psig) 25 92.00 50 28.00 25 92.00	Gas Rate (McBd) 168.79 286.02 168.79

Carbonates

CARBONATE CLASSIFICATION:

AFTER DUNHAM: GRAIN; any fossil, fossil fragment, sand grain, or other rock fragment within the rock. MUDSTONE; muddy carbonate rocks containing less than 10% grains. WACKESTONE; mud supported carbonate rocks with more than 10% grains. PACKSTONE; grain supported muddy carbonate rocks. GRAINSTONE; mud free carbonate rock, grain supported. BOUNDSTONE; carbonate rock bound together at deposition (coral, etc.). CRYSTALLINE CARBONATE; carbonate rock retaining to little of their depositional texture to be classified.































DRILL STEM TEST REPORT

Prepared For:

Herman L Loeb LLC

PO Box 838 Lawerencevill, IL 62439

ATTN: Tom Pronald/Jim Hall

School Trust #20-5

5-35s-12w Barber,KS

 Start Date:
 2013.11.07 @ 10:19:52

 End Date:
 2013.11.07 @ 17:39:37

 Job Ticket #:
 52516
 DST #:
 1

Trilobite Testing, Inc PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620 Herman L Loeb LLC

	DRILL STEM TES	ORT				
	Herman L Loeb LLC		5-35	5s-12w B	arber,KS	
ESTING , INC	PO Box 838		Sch	ool Trus	st #20-5	
	Law erencevill, IL 62439		Job	Ticket: 525	516 D	ST#:1
NON C	ATTN: Tom Pronald/Jim Hall		Test	Start: 201	3.11.07 @ 10:19	9:52
GENERAL INFORMATION:						
Formation: Stalnaker						
Deviated: No Whipstock:	ft (KB)		Test	Туре: Со	onventional Strac	ddle (Initial)
Time Tool Opened: 12:37:52 Time Test Ended: 17:39:37			Test Unit	er: Le No: 45	eal Cason 5	
Interval: 4156.00 ft (KB) To 41	68.00 ft (KB) (TVD)		Refe	erence Elev	ations: 14	79.00 ft (KB)
Total Depth: 4190.00 ft (KB) (T	/D)				14	70.00 ft (CF)
Hole Diameter: 7.88 inches Hole	e Condition: Good			KB to	GR/CF:	9.00 ft
Serial #: 6798 Inside			_			
Press@RunDepth: 598.54 psig Start Date: 2013 11 07	@ 4157.00 ft (KB) End Date:	2013 11 07	Capacity: Last Calib		80 2013	00.00 psig 11.07
Start Time: 10:19:53	End Time:	17:39:37	Time On E	3tm: 20	013.11.07 @ 12:	36:37
			Time Off I	Btm: 20	013.11.07 @ 14:	58:07
TEST COMMENT: IF: Strong Blow,	BOB in 10 seconds, GTS in 3 minut	es, Gauged	& Caught Sar	nple		
ISI: 1/2 inch Blow FF: Strong Blow	/ Back , BOB & GTS immediate, Gauged &	Caught Samp	ble			
FSI: 1/2 inch Blo	w Back					
Pressure vs. 7	íme T		PF	ESSURE	E SUMMARY	
6938 Pressure	6758 Temperature	Time (Min.)	Pressure	Temp	Annotation	
		(IVIIII.) 0	(psig) 2110.45	(deg P) 104.00	Initial Hydro-stati	c
		2	149.60	105.16	Open To Flow (1)
		16 62	614.37	90.61	Shut-In(1) End Shut-In(1)	
g 1220		64	483.24	93.89	Open To Flow (2)
		77 125	598.54	89.64	Shut-In(2)	
770		135	2127.72	102.97	End Snut-In(2) Final Hydro-stati	c
	- 65				,	
12PM 7 Thu Nov 2013 Time (Hours)	3FM GFM					
Recovery			ļļ	Gas	Rates	
Length (ft) Description	Volume (bbl)			Choke (inc	ches) Pressure (psig) Gas Rate (Mcf/d)
0.00 GTS	0.00	First Gas	s Rate	0.	50 300.0	0 2120.85
10.00 GMCW 5%G 40%M 50%	W 0.05	Last Gas	s Rate	0.	75 150.0	0 2567.90
		Max. Ga	is Rate	0.	50 350.0	0 2458.13
	 					

	DRILL STEM TES	T REP	ORT			
	Herman L Loeb LLC		5-35	5s-12w Barb	er,KS	
ESTING , INC	PO Box 838		Sch	ool Trust #2	20-5	
	Law erencevill, IL 62439		Job ⁻	Ticket: 52516	DST	#: 1
NOR .	ATTN: Tom Pronald/Jim Hall		Test	Start: 2013.11	.07 @ 10:19:52	2
GENERAL INFORMATION:						
Formation:StalnakerDeviated:NoWhipstock:Time Tool Opened:12:37:52Time Test Ended:17:39:37	ft (KB)		Test Test Unit	Type: Conve er: Leal C No: 45	entional Straddle ason	e (Initial)
Interval: 4156.00 ft (KB) To 41	68.00 ft (KB) (TVD)		Refe	erence ⊟evation	ns: 1479.0	00 ft (KB)
Total Depth: 4190.00 ft (KB) (TV Hole Diameter: 7 88 inches Hole	/D) • Condition: Good			KB to GR/	1470.0 CF: 9.0	00 ft(CF) 00 ft
Serial #: 8367 Outside Press@RunDepth: psig	@ 4157.00 ft (KB)		Capacity:		8000	00 psig
Start Date: 2013.11.07	End Date:	2013.11.07	Last Calib	0.:	2013.11.	07
Start Time: 10:19:53	End Time:	17:39:37	Time On E	3tm: Ptm:		
				Duni.		
FSI: 1/2 inch Blow FSI: 1/2 inch Blow FSI: 1/2 inch Blow	/ Back , BOB & GTS immediate, Gauged & w Back	Caught Samp	ble			
Pressure vs. T	ime 	Timo	PR			
2000 779 709 709 709 709 709 709	Trippertury 314 CM	(Min.)	(psig)	(deg F)	notation	
Recovery				Gas Ra	tes	
Length (ft) Description	Volume (bbl)			Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
0.00 GTS	0.00	First Gas	s Rate	0.50	300.00	2120.85
	<u>vv</u> 0.05	Last Gas	s Rate	0.75	350.00	2007.90
				1 0.00	1 330.00	2730.13

	DRILL STEM TES	T REPO	ORT			
	Herman L Loeb LLC		5-35	5s-12w Barb	er,KS	
ESTING , INC	PO Box 838		Sch	ool Trust #2	20-5	
	Law erencevill, IL 62439		Job 7	Ticket: 52516	DST#	ŧ:1
NOK.	ATTN: Tom Pronald/Jim Hall		Test	Start: 2013.11	.07 @ 10:19:52	
GENERAL INFORMATION:						
Formation:StalnakerDeviated:NoWhipstock:Time Tool Opened:12:37:52Time Test Ended:17:39:37	ft (KB)		Test Teste Unit I	Type: Conve er: Leal C No: 45	ntional Straddle ason	(Initial)
Interval: 4156.00 ft (KB) To 41	68.00 ft (KB) (TVD)		Refe	rence Elevation	ns: 1479.0	00 ft (KB)
Total Depth: 4190.00 ft (KB) (T	/D)				1470.0	00 ft (CF)
Hole Diameter: 7.88 Inches Hole	e Condition: Good			KB to GR/	UF: 9.1	
Serial #: 8358 Below (Strad	dle)					
Press@RunDepth: psig Start Date: 2013 11 07	@ 4187.00 ft (KB) End Date [.]	2013 11 07	Capacity: Last Calib		8000.0 2013 11 (00 psig 07
Start Time: 10:19:53	End Time:	17:39:22	Time On E	Btm:	2010.11.0	
			Time Off E	3tm:		
ISI: 1/2 Inch Blow FF: Strong Blow FSI: 1/2 Inch Blov Pressure vs. T	/ Back , BOB & GTS immediate, Gauged & (w Back	Caught Sample PRESSURE SUMMARY				
200 170 100 100 100 100 100 100 1	Torgeteurs 34 64 65 90 55 90 56 90 56 80 75 70 66 60 60 60 60 70 70 65 90 85 80 70 70 70 70 70 70 70 70 70 7	(Min.)	(psig)	(deg F)	notation	
Recovery				Gas Rat	es	
Length (ft) Description	Volume (bbl)			Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
0.00 GTS	0.00	First Gas	s Rate	0.50	300.00	2120.85
10.00 GMCW 5%G 40%M 50%	W 0.05	Last Gas	Rate	0.75	150.00	2567.90
		Max. Ga	s Rate	0.50	350.00	2458.13

1005		DITE	DRI	LL STE	EM TEST	REPOR	RT	TOOL DIAGRAM		
	Trop		Hermar	L Loeb LLC	;		5-35s-12w Barber,	5-35s-12w Barber,KS		
	ESI	ING , INC	PO Box	838			School Trust #20-	5		
			Law ere	encevill, IL 6	2439		Job Ticket: 52516	DST#:1		
155				Tom Pronal	d/.lim Hall		Test Start: 2013 11 07	@ 10.19.52		
				TomTToma	aronnin			@ 10.10.02		
Tool Information	n									
Drill Pipe:	Length:	3945.00 ft	Diameter:	3.80 i	nches Volume:	55.34 bbl	Tool Weight:	2100.00 lb		
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 i	nches Volume:	0.00 bbl	Weight set on Pack	er: 25000.00 lb		
Drill Collar:	Length:	208.00 ft	Diameter:	2.25 i	nches Volume:	1.02 bbl	Weight to Pull Loose	e: 85000.00 lb		
	(D	10.00.0			Total Volume:	56.36 bbl	Tool Chased	ft		
Drill Pipe Above P	(B:	18.00 ft					String Weight: Initia	80000.00 lb		
Depth to Top Pac	Ker: Dookori	4156.00 ft					Final	80000.00 lb		
	Dockera:	4100.00 IL								
Tool Length	Fackers.	55 00 ft								
Number of Packe	rs:	3	Diameter:	6 75 i	nches					
Tool Comments:		Ū	2.0	0.1.0						
Tool Description	on	Le	ngth (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths			
Shut In Tool			5.00			4140.00				
Hydraulic tool			5.00			4145.00				
Safety Joint			2.00			4147.00				
Packer			5.00			4152.00	21.00	Bottom Of Top Packer		
Packer			4.00			4156.00				
Stubb			1.00			4157.00				
Recorder			0.00	6798	Inside	4157.00				
Recorder			0.00	8367	Outside	4157.00				
Perforations			10.00			4167.00				
Blank Off Sub			1.00			4168.00	12.00	Tool Interval		
Packer			3.00			4171.00				
Perforations			16.00			4187.00				
Recorder			0.00	8358	Below	4187.00				
Bullnose			3.00			4190.00	22.00 E	Bottom Packers & Anchor		
Т	otal Too	l Length:	55.00							
-		J								

		DRII	LL STEM TEST REPORT	Γ	I	FLUID SUMMARY	
		Herman	L Loeb LLC	5-35s-12w	Barber,KS		
	STING, INC	PO Box 838			School Trust #20-5		
		Law ere	encevill, IL 62439	Job Ticket: 5	2516	DST#:1	
		ATTN:	Tom Pronald/Jim Hall	Test Start: 2	2013.11.07 @ 10	0:19:52	
Mud and Cushion	Information						
Mud Type: Gel Chem			Cushion Type:		Oil API:	deg API	
Mud Weight: 9.	00 lb/gal		Cushion Length:	ft bbl	Water Salinity:	8100 ppm	
Viscosily: 52. Water Loss: 10	00 Sec/ql 30 in ³		Cushion Volume.	וממ			
Resistivity:	ohm.m		Gas Cushion Pressure:	psia			
Salinity: 4000.	00 ppm			1-5			
Filter Cake: 0.	02 inches						
Recovery Informat	lion						
			Recovery Table		-		
	Length ft		Description	Volume bbl			
		0.00	GTS	0.000			
	1	0.00	GMCW 5%G 40%M 50%W	0.049	9		
	Total Length:	10.	00 ft Total Volume: 0.049 bbl				
	Num Fluid Samples	s: 0	Num Gas Bombs: 0	Serial #	:		
	Laboratory Name:		Laboratory Location:				
	Recovery Commer	nts: RW	/ w as .81 @ 61 degrees				
Trilohite Testing Inc.		R	ef No: 52516	Printer	· 2013 11 14 @	14:38:18	



DRILL STEM TEST REPORT

Herman L Loeb LLC

PO Box 838 Law erencevill, IL 62439

ATTN: Tom Pronald/Jim Hall

5-35s-12w Barber,KS

School Trust #20-5

 Job Ticket:
 52516
 DST#:1

 Test Start:
 2013.11.07 @ 10:19:52

Gas Rates Information

Temperature:	
Relative Density:	(
Z Factor:	

59 (deg F) 0.65 0.8

Gas Rates Table

Flow Period	Elapsed Time	ne Choke Pressure (inches) (psig)		Gas Rate (Mcf/d)
1	10	0.50	300.00	2120.85
1	15	0.50	350.00	2458.13
2	5	0.75	100.00	1786.91
2	10	0.75	150.00	2567.90
2	15	0.75	150.00	2567.90

GAS RATES

Printed: 2013.11.14 @ 14:38:18

Ref. No: 52516

Trilobite Testing, Inc



School Trust #20-5

Serial #: 6798

Inside

Herman L Loeb LLC

DST Test Number: 1

Printed: 2013.11.14 @ 14:38:18

Ref. No: 52516

Trilobite Testing, Inc



Outside Herman L Loeb LLC

School Trust #20-5

Printed: 2013.11.14 @ 14:38:18

Ref. No: 52516

Trilobite Testing, Inc



Below (Strattates)n L Loeb LLC

Serial #: 8358

School Trust #20-5

DST Test Number: 1



DRILL STEM TEST REPORT

Prepared For:

Herman L Loeb LLC

PO Box 838 Lawerencevill, IL 62439

ATTN: Tom Pronald/Jim Hall

School Trust #20-5

5-35s-12w Barber,KS

 Start Date:
 2013.11.10 @ 10:05:17

 End Date:
 2013.11.10 @ 20:45:47

 Job Ticket #:
 52517
 DST #:
 2

Trilobite Testing, Inc PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620 DST # 2

	DRILL	STEM TES	T REP	ORT						
	Herman L L	oeb LLC		5-3	5s-12w Barl	per,KS				
ESTING , INC	PO Box 838	ł		Sch	nool Trust #	20-5				
	Law erence	vill, IL 62439		Job Ticket: 52517 DST#: 2						
NOV .	ATTN: Tom Pronald/Jim Hall		Test	t Start: 2013.1	1.10 @ 10:05:17	7				
Formation: Mississinni										
Deviated: No Whipstock: Time Tool Opened: 12:51:17	ft	(КВ)		Test Test	t Type: Conv ter: Leal (entional Bottom Cason	Hole (Reset)			
Time Test Ended: 20:45:47					No: 45					
Interval: 4790.00 ft (KB) To 48	860.00 ft (KB)	(TVD)		Refe	erence ⊟evatio	ons: 1479.	00 ft (KB)			
Total Depth: 4860.00 ft (KB) (T Hole Diameter: 7 88 inches Hole	/D) • Condition: G	bood			KB to GR	/CF: 9	00 ft (CF) 00 ft			
Serial #: 6798 Inside	@ 4791.0	0 ft (KB)		Canacity		8000	00 nsia			
Start Date: 2013.11.10	End Da	ate:	2013.11.10	Last Calib	D.:	2013.11.	10 psig			
Start Time: 10:05:18	End Ti	me:	20:45:47	Time On I	Btm: 2013	11.10 @ 12:48:	32			
				Time Off	Btm: 2013	.11.10 @ 16:09:	1/			
TEST COMMENT: IF: Strong Blow , ISI: BOB Blow Ba FF: Strong Blow FSI: Blow Back B	TEST COMMENT: IF: Strong Blow, BOB in 15 seconds, GTS in 12 minutes ISI: BOB Blow Back in 20 minutes FF: Strong Blow, BOB & GTS Immediate, Gauged & Caught Sample FSI: Blow Back Built to 4 inches									
Pressure vs. T	ime ज			PF	RESSURE S	UMMARY				
679 Hessue	6798 Tempe		Time (Min.)	Pressure	Temp Ai	notation				
			0	(psig) 2517.48	(deg F) 114.63 Initia	al Hydro-static				
2300			3	112.92	115.75 Ope	en To Flow (1)				
	1 X	- 100	17	307.64	116.08 Shu 117.04 End	it-ln(1) Shut-ln(1)				
	Į į į	i ;	67	200.99	117.14 Ope	en To Flow (2)				
			109	265.34	118.25 Shu	it-In(2)				
			200	1050.05	120.24 End	Shut-In(2)				
		↓ - ↓ -	201	2425.71	120.53 Fina	al Hydro-Static				
	-									
	694									
10 Sun Nov 2013 Time (Haus)										
Recovery					Gas Ra	ites				
Length (ft) Description		Volume (bbl)			Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)			
0.00 GTS		0.00	First Ga	s Rate	0.25	92.00	168.79			
62.00 GWMCO 10&G 4%W 169	%M 80%O	0.30	Last Ga	s Rate	0.50	28.00	286.02			
57 OII 5%G 95%O				is rale	0.25	92.00	108.79			
* Recovery from multiple tests		· · · · · · · · · · · · · · · · · · ·								
Trilobite Testing, Inc	Ref. N	lo: 52517			Printed: 2013	3.11.14 @ 14:40	:29			

10D		DRILL	STEM TES	ЗT	REPO	ORT				
		Herman L Lo	oeb LLC			5-	35s-12w	Barb	er,KS	
	ESTING , INC	PO Box 838				S	chool Tr	ust #2	20-5	
		Law erence	vill, IL 62439			Jo	b Ticket: 5	2517	DST	#:2
NOV .		ATTN: Tom Pronald/Jim Hall			Те	st Start: 2	013.11	.10 @ 10:05:17	7	
Formation:	Mississinni									
Deviated: Time Tool Oper Time Test Ende	Deviated: No Whipstock: ft (KB) Time Tool Opened: 12:51:17 Time Test Ended: 20:45:47					Te Te Un	st Type: ster: it No:	Conve Leal Ca 45	ntional Bottom ason	Hole (Reset)
Interval:	4790.00 ft (KB) To 48	360.00 ft (KB)	(TVD)			Re	ference E	evatior	is: 1479.	00 ft (KB)
Total Depth:	4860.00 ft (KB) (T 7.88 inches Hold	VD) a Condition [,] G	and				KB	to CR/	1470. CE· 0	00 ft (CF)
			500U				ND		JF. 9.	
Serial #: 83	67 Outside	0				c				
Press@RunDe Start Date	pth: psig 2013 11 10	@ 4791.0	0 ft (KB) ate [.]	20	13 11 10	Capacit	y: lih [.]		8000. 2013 11	00 psig 10
Start Time:	10:05:18	End Tir	me:	20	20:45:32	Time Or	n Btm:		2010.11.	
						Time Of	f Btm:			
TEST COM	TEST COMMENT: IF: Strong Blow, BOB in 15 seconds, GTS in 12 minutes ISI: BOB Blow Back in 20 minutes FF: Strong Blow, BOB & GTS Immediate, Gauged & Caught Sample FSI: Blow Back Built to 4 inches									
	Pressure vs. 1	lime				F	RESSU	RE SI	JMMARY	
2500	\$367 Pressure	\$367 Temps	nature		Time (Min.)	Pressure (psig)	Temp	Anı	notation	
-		1			()					
				(deg i)						
2000			- 							
			- - - - - - - - - - - - - - - - - - -			(1 - 0)	(ueg i)			
2000		A A A A A A A A A A A A A A A A A A A	- 110 - 100 - 100 - 90 -	Tama		(1-2.5)	(deg i)			
2000				Ta was aref. In		(1-2.5)	(deg i)			
2000										
2000				Ta maa safi isa						
2000 1000 500 500 500				To you a refi to						
				Terrora safi i ra						
2000 1500 500 500 10 Sun Nov 2713	CTM 3TM Treeftant	AND		Termo eseti re						
2000 1000 500 10 Sun Nov 2013	EN 37M Treeftars)	AND					Gi	as Rat	es	
2000 1000 2000 1000 2000 1000 1000 1000	ZTM ZTM Teme (Hans) Recovery Description		70 500 500 500 500 500 500 500 5	Ta wa asafi isa			Gi	as Rat	es	Gas Rate (Mcf/d)
2000 1700 1000 10 Sun Nov 2013 Length (ft) 0.00	ZEW 374 Treestand	and the second s	Volume (bbl) 0.00	Towns and in	First Gas	s Rate	Gi	as Rat (inches) 0.25	es Pressure (psig) 92.00	Gas Rate (Mcf/d) 168.79
2000 1000 500 500 1000 500 1000 500 1000 500 1000 62.00	ESM STATE Recovery Description GTS GWMCO 10&G 4%W 164	ала с с с с с с с с с с с с с с с с с с	Volume (bbl) 0.00 0.30	Tamo a safi 19	First Gas Last Gas	s Rate	Gi	as Rat (inches) 0.25 0.50	es Pressure (psig) 92.00 28.00	Gas Rate (Mcf/d) 168.79 286.02
2000 100 1000 1	ZNU SNU THE (Hars) Recovery Description GTS GWMCO 10&G 4%W 164 GSY Oil 5%G 95%O		Volume (bbl) 0.00 0.30 11.77	Territoria de la constante de	First Gas Last Gas Max. Gas	s Rate s Rate s Rate	Gi	as Rat (inches) 0.25 0.50 0.25	ES Pressure (psig) 92.00 28.00 92.00	Gas Rate (Mcf/d) 168.79 286.02 168.79
2000 100 1000 1	The fiture of the second secon	34 34 34 34 34 34 34 34 34 34	Volume (bbl) 0.30 11.77	Town book is	First Gas Last Gas Max. Gas	s Rate s Rate s Rate s Rate	Gi	as Rat (inches) 0.25 0.50 0.25	es Pressure (psig) 92.00 28.00 92.00	Gas Rate (Mcf/d) 168.79 286.02 168.79
2000 100 1000 1	Recovery Description GTS GWMCO 10&G 4%W 164 GSY Oil 5%G 95%O	GTM	Volume (bbl) 0.00 0.30 11.77	Terran specifics	First Gas Last Gas Max. Gas	s Rate s Rate s Rate	Gi	as Rat (inches) 0.25 0.50 0.25	ES Pressure (psig) 92.00 28.00 92.00	Gas Rate (Mcf/d) 168.79 286.02 168.79
2000 100 1000 1	EEW 3THE (Hum) THE (Hum) THE (Hum) Recovery Description GTS GWMCO 10&G 4%W 164 GSY Oil 5%G 95%O Liple tests	2000 C	Volume (bbl) 0.00 0.30 11.77	Tana séri ra	First Gas Last Gas Max. Gas	s Rate s Rate s Rate	Gi	as Rat (inches) 0.25 0.50 0.25	es Pressure (psig) 92.00 28.00 92.00	Gas Rate (Mcf/d) 168.79 286.02 168.79

Trilobite Testing, Inc

	F	DRIL	TOOL DIAGRAM						
	E	Herman L	Loeb LLC			5-35s-12w Barber,	5-35s-12w Barber,KS		
ESTIN	IG , INC.	PO Box 8 Law erend ATTN: T	38 cevill, IL 624 com Pronald/	l39 (Jim Hall		School Trust #20- Job Ticket: 52517 Test Start: 2013.11.10	5 DST#: 2 @ 10:05:17		
Tool Information	I								
Drill Pipe:Length:45Heavy Wt. Pipe:Length:Drill Collar:Length:2Drill Pipe Above KB:Depth to Top Packer:47Depth to Bottom Packer:Interval betw een Packers:Tool Length:	585.00 ft 0.00 ft 208.00 ft 29.00 ft 790.00 ft ft 70.00 ft 96.00 ft	Diameter: Diameter: Diameter:	3.80 inc 0.00 inc 2.25 inc	ches Volume: ches Volume: ches Volume: Total Volume:	64.32 bbl 0.00 bbl 1.02 bbl 65.34 bbl	Tool Weight: Weight set on Packe Weight to Pull Loose Tool Chased String Weight: Initial Final	2100.00 lb er: 25000.00 lb e: 100000.0 lb ft 86000.00 lb 90000.00 lb		
Tool Comments:	2	Diameter:	6.75 ind	Provition	Do noth (ff)	Accum Longtha			
Shut In Tool	Len	5.00		FUSICION	4769.00	Accum. Lenguis			
Hydraulic tool		5.00			4774.00				
Jars		5.00			4779.00				
Safety Joint		2.00			4781.00				
Packer		5.00			4786.00	26.00	Bottom Of Top Packer		
Packer		4.00			4790.00		_ • • • • • • • • • • • • • • • • • • •		
Stubb		1.00			4791.00				
Recorder		0.00	6798	Inside	4791.00				
Recorder		0.00	8367	Outside	4791.00				
Perforations		6.00			4797.00				
Change Over Sub		1.00			4798.00				
Drill Pipe	:	32.00			4830.00				
Change Over Sub		1.00			4831.00				
Perforations	:	26.00			4857.00				
Bullnose		3.00			4860.00	70.00 E	Bottom Packers & Anchor		
Total Tool Le	ength:	96.00							

10th		DRI	LL STEM TEST REPORT			FLUID SUMMARY
	<u>I RILOBITE</u>	Hermar	n L Loeb LLC	5-35s-12w	Barber,KS	
	ESTING , INC.	PO Box	838	School Tr		
		Law ere	encevill, IL 62439	Job Ticket: 5	52517	DST#:2
NO.		ATTN:	Tom Pronald/Jim Hall	Test Start: 2	2013.11.10 @ 10	0:05:17
Mud and C	Cushion Information					
Mud Type:	Gel Chem		Cushion Type:		Oil API:	19.6 deg API
Mud Weight:	9.00 lb/gal		Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	52.00 sec/qt		Cushion Volume:	bbl		
Water Loss:	10.38 in³		Gas Cushion Type:			
Resistivity:	ohm.m		Gas Cushion Pressure:	psig		
Salinity: Filter Cake:	4000.00 ppm 0.02 inches					
Recovery I	Information					
			Recovery Table		-	
	Leng ft	th	Description	Volume bbl		
		0.00	GTS	0.000	2	
		62.00	GWMCO 10&G 4%W 16%M 80%O	0.305	5	
		934.00	GSY Oil 5%G 95%O	11.772	2	
	Total Length:	996	00 ft Total Volume: 12.077 bbl			
	Num Fluid Samp	oles: 0	Num Gas Bombs: 0	Serial #	:	
	Laboratory Nan	ne:	Laboratory Location:			
1	Recovery Com	ments: Gr	avity was 19.8 @ 62 degrees			



DRILL STEM TEST REPORT

Herman L Loeb LLC

PO Box 838 Law erencevill, IL 62439

ATTN: Tom Pronald/Jim Hall

5-35s-12w Barber,KS

School Trust #20-5

 Job Ticket:
 52517
 DST#:2

 Test Start:
 2013.11.10 @ 10:05:17

Gas Rates Information

Temperature:	
Relative Density:	
Z Factor:	

59 (deg F) 0.65

0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)	
2	10	0.25	92.00	168.79	
2	20	0.50	44.00	393.95	
2	30	0.50	32.00	313.00	
2	40	0.50	28.00	286.02	
2	45	0.50	28.00	286.02	

GAS RATES

Printed: 2013.11.14 @ 14:40:30

Ref. No: 52517





DST Test Number: 2

Printed: 2013.11.14 @ 14:40:30

Ref. No: 52517





DST Test Number: 2

Serial #: 8367 Outside Herman L Loeb LLC

/ 1 -	(1)	11	
手	T	1	
10	ST.	6 1	

RILOBITE ESTING INC.

1515 Commerce Parkway · Hays, Kansas 67601

Test Ticket

NO. 52516

Well Name & No. School Trust 2	.0-5	Test No.		Date 11/07/13	5
Company Herman LLOCH LLC		Elevation_/	479	кв 1470	GL
Address Po Box 838 Laweren	ceville, II 6	2439			
Co. Rep/Geo. Tom Pronald		Rig_Ster	ling 4		
Location: Sec. <u>5</u> Twp. <u>355</u>	_Rge. 12 W	Co. Barbe	r	State KS	
Interval Tested 4156 - 4168	Zone Tested 57	talnaker			
Anchor Length 12	Drill Pipe Run	30	945	Mud Wt. 9.2	10
Top Packer Depth 4151	Drill Collars Run	2	28	Vis 52	7.1
Bottom Packer Depth 4/68	Wt. Pipe Run		0	NL 10.4	
Total Depth 4/90	Chlorides	4000 pp	n System	_CM	
Blow Description IF: Strong Blow 1	BOB in 10 seco	inds, GTS	in 3 min	ATES, GOVIGEDIT	Cary ghts
ISI: 1/2 inch Blow Back				, , , , , , , , , , , , , , , , , , , ,	
FF: Strong Blow, BOB& GTS Immed	iate, Gauged	5a 5		12	
FST: "zinch Blow Back		-			No.
Rec4143 Feet ofP		%gas	%oil	%water	%mud
Rec Feet of GMCW		5 %gas	%oil	55 %water 40	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Total 10 BHT BHT BHT 103	_Gravity//	API RW _8/	@ <u>_6/</u> °F	Chlorides 8100	ppm
(A) Initial Hydrostatic 2/10	Test 1250		T-On Lo	cation 08:45	
(B) First Initial Flow150	Jars		T-Starte	d	
(C) First Final Flow 614	Safety Joint	75	T-Open_	13:39	
(D) Initial Shut-In 1701	Circ Sub		T-Pulled	14:51	
(E) Second Initial Flow 473	Hourly Standby		T-Out _	11:39	
(F) Second Final Flow 598	Mileage 120	^N 186	Comme	nts <u>3 66693461</u>	
(G) Final Shut-In / 700	Sampler		5180	130/19	
(H) Final Hydrostatic 2123	Straddle600)	- 🗆 Ruir	ned Shale Packer	
	Shale Packer		- 🗆 Ruir	ned Packer	
Initial Open15	Extra Packer		– D Extr	a Copies	Đ)
Initial Shut-In	Extra Recorder		_ Sub Tot	al 0	
Final Flow 15	Day Standby		Total	2111	
Final Shut-In 60	Accessibility		MP/DS	T Disc't	
Pro 11	Sub Total2111				
Approved By (// P/////	Ou	r Representative	X	10	

Trilobite Testing Inc. shall not be liable for damaged of any kind of 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 statements or opinion concerning the results 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.



RILOBITE ESTING INC.

Gas Volume Report

P.O. Box 1733 • Hays, Kansas 67601

H	erman		School Trust 20-5 1 Well Name and No. DST No.					
Min.	Ins. of Water PSIC	Orifice Size	MCF/D	Min.	Ins of Water PSI@	Orifice Size	M CF/	
10	306	1/2	2110.843	5	166	314	1,786.912	
15	350	1/2	2453.130	10	150	314	2567904	
67 %			-	15	150	3/4	2567.904	
				-				
							đ	
-			-					
1 <u>000000000000000000000000000000000000</u>								
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	-							

Remarks:

1	1.	A).	1	
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RILOBITE ESTING INC.

1515 Commerce Parkway · Hays, Kansas 67601

Test Ticket

NO. 52517

Well Name & No. Scho	of trust 20.	-5	Test No.	2	Date///0	/13
Company Herman	LLOGG LLC		Elevation	1479	KB 1470	GL
Address Po Box 83	19 Lawerencevi	11e II 624.	39		н	
Co. Rep / Geo. Jim 1	tall		Rig_Ste	rling 4		
Location: Sec.	Twp. <u>355</u>	Rge. 12 W	co. Barb	er	State KS	<u> </u>
Interval Tested 479	90 - 4860	Zone Tested/	1;35issipp)	`	•	
Anchor Length	70	Drill Pipe Run	43	-85	Mud Wt. 9.4	
Top Packer Depth	4785	Drill Collars Run	;	208	Vis 50	-
Bottom Packer Depth	4790	Wt. Pipe Run		0_	WL 8.8	
Total Depth	4860	Chlorides	5500 pr	om System	LCM_1/3	
Blow Description 75: 5	Frong Blow, BOU	Sin 15 seco	onds, GTS.	in 12 m	inutes	
ISI: BOB Blow	Back in 20 minu	nes	•			
FF: Strong Blow, B	ROBIEGTS Immediat	c, bauged to	aught Sam,	o/e		
FST: Blow Back B	vill to 4 inche	5				
Rec <u>3197</u> Feet	of <u>GTP</u>		%gas	%oil	%water	%mud
Rec <u>434</u> Feet	of GSY Oil		5 %gas	93 %oil	%water	%mud
Rec62 Feet	of GWMCO	55. 5	10 %gas	80 %oil	4 %water	16 %mud
Rec Feet	of		%gas	%oil	%water	%mud
Rec Feet	of		%gas	%oil	%water	%muc
Rec Total796	внт 120	Gravity 19.6	APIRW NC	@_N/c°	F Chlorides	ppm
(A) Initial Hydrostatic	2517	Test 1250		T-On L	ocation <u>69!15</u>	
(B) First Initial Flow	113	Jars 250		T-Star	ted 10:05	
(C) First Final Flow	308	Safety Joint	75	Т-Оре	n	
(D) Initial Shut-In	1162	Circ Sub	1.	T-Pulle	20115	
(E) Second Initial Flow	201	Hourly Standby_	11/2 150	- Comm	20:9)	and he as
(F) Second Final Flow	265	Mileage (12 G	372	- af	11/14/13 (addi	Tional'
(G) Final Shut-In	1050	□ Sampler		- 2 d	avs of standby)
(H) Final Hydrostatic	2426	Straddle		🖸 Ri	loaded tools 11	/14 14:15
		Shale Packer		🗆 Ru	uined Packer	
Initial Open	15	Extra Packer		— 🛛 E>	dra Copies	
Initial Shut-In	45	Extra Recorder _		Sub T	otal 3716.67	
Final Flow	45	Day Standby	1 1/2	Total_	5813.67	
Final Shut-In	70	Accessibility 1d 3	39.5 & 1d 65.5h	MP/D	ST Disc't	
$\overline{\Lambda}$	211-10	Sub Total				
Approved By	r Harl	Ou	r Representative_	X	10	

Trilobite Testing Inc. shall not be lable for damaged of any kind of 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 statements or opinion concerning the results 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.





P.O. Box 1733 • Hays, Kansas 67601

Gas Volume Report

He	rman L	LOCH L	LC	Schoo	1	Trust Well Nan	20-5		2
		operate. (of) 12 minute.	5		Wein Hum			DST NO.
Min.	Ins. of Water PSIG	Orifice Size	CF/D	Mi	in.	In s. of Wate r PSI@	Orifice Size	M CF/B	•
				10	2	92	14	168 793	
-				20	5	44	1/2	393.948	
				30	2	32	1/2	313,000	51 71
				40		28	1/2	286.017	
				4	5	28	1/2	286,017	
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				13					
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Remarks:

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	100		1 of 1	1	007589	11/21/2013
$2 \mathbf{P} \mathbf{C}$: 	o t		I	NVOICE NUMB	ER
ENERGY S				171	8 - 9134311	5
Pratt	(620)	б72-1201 J	LEASE NAM	E	School Trust	20-5
		0	LOCATION			
I PO Box: 838		. 0	COUNTY		Barber	
L LAWRENCEVILL	E	S	STATE		KS	
ILUS 62	439	Ť	JOB DESCR	IPTION	Cement-New We	ell Casing/Pi
O ATTN:	ACCOUNTS	E PAYABLE	JOB CONTA	CT		
JOB #	EQUIPMENT #	PURCHAS	SE ORDER NO.		TERMS	DUE DATE
40664650	19905		2 .		Net - 30 davs	12/21/2013
<u> </u>	· · · · ·			II of	INTT PRICE	INVOLCE AMOL
			¥**	M M	ONIT TRICE	INVOICE MOC
For Service Dates:	11/16/2013 to 1	1/16/2013				
0040664650	:					
	• • • •	. •				
171909511A Comon	Now Wall Cooling/Pi	11/16/2012				4
Cement 5 1/2" Longst	ring www.en casing/Fi	5 G + G + G + G + G + G + G + G + G + G	1 Carlet L		7.5 L 1975 197 19	
4. 2.0.	10 ar	Par-OAR-	an basanya ma	:	A DE HALLING THE	1 1 1 1 2 1
Cement	A from the set of the	PAID	400.00	EA	8.25	-3,300
Celloflake		15130	100.00	EA	2.78	277
Gypsum	al e		1,680.00	EA	0.56	945
FLA-322		NOA 5 D XAIA	168.00	EA	5.63	945
Gilsonite	C.		2,400.00	EA	0.50	1,206
KCL, Potassium Chlori		CANNED	906.00	EA	1.13	3 1,019
Claymax KCL Substitu	te		6.00	EA	26.25	5 157
Mud Flush	3	•	1,000.00	EA	0.65	645
"Latch Down Plug & I	3affle, 5 1/2"" (Blu	,	1.00		300.00	30
"Cmt. Shoe Packer Ty	pe, 5 1/2"" (Red)"		15.00		2,775.00	2,77
"F 1/2"" Reaket (Plue)	line)		3.00		217.50	65
"Cement Scratchers (able Type 5 1/2"" "		2.00	EA	56.25	11
="Unit Mileage Chg (20	le cars one way)"	و الموضح بالا التي الارد ال		_Mi	.3.19	
Heavy Equipment Mile	age		70.00	мі	5.25	36
"Proppant & Bulk Del.	Chgs., per ton mil		588.00	EA	1.20	70 70
Depth Charge; 5001-6	000'		1.00	EA	2,160.00	2,16
Blending & Mixing Ser	vice Charge		400.00	BAG	1.05	5 42
Plug Container Util. Ch	ig.		1.00	EA	187.50	
"Service Supervisor, f	irst 8 hrs on loc.		1.00	EA	131.2	
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PLEASE REMIT T	'0: SI	END OTHER CORR	ESPONDENCE T	0:	•	
PLEASE REMIT T	C: SI	END OTHER CORR	ESPONDENCE T	0:	SUB TOTAL	17,656
PLEASE REMIT T BASIC ENERGY S PO BOX 841903	O: SI ERVICES,LP BA 80	END OTHER CORR ASIC ENERGY SE 11 CHERRY ST,	ESPONDENCE I RVICES,LP STE 2100	0:	SUB TOTAL TAX	17,656 607
PLEASE REMIT T BASIC ENERGY S PO BOX 841903 DALLAS, TX 7528	O: SI ERVICES,LP BA 4-1903 FC	END OTHER CORR ASIC ENERGY SE)1 CHERRY ST,)RT WORTH, TX	ESPONDENCE 1 RVICES,LP STE 2100 76102	U: INV	SUB TOTAL TAX OICE TOTAL	17,656 607 18,263

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		BA ENERGY PRESSURE PUMP	SERVICES SERVICES PING & WIRELINE	10244 NE H P.O. Box 86 Pratt, Kansa Phone 620-6 5 35 Tansa	wy. 61 13 as 67124 72-1201 5 - 1	₩ELL E		FIE 17 Date PROD INJ	LD SERVICE T 18 TICKET NO	
	CUSTOMER	Ciman	Loub, LL	C		LEASESC	100	Tivsi	I	WELL NO
	ADDRESS					COUNTY	mil	151	STATE IT C	1.1595
	CITY		STATE			SERVICE CF	iews M	essich (n McGraw S	Yay
						JOB TYPE	<u> 11 y</u>	1 Longs	string	
		# HRS	EQUIPMENT#	HRS	EQL	JIPMENT#	HRS	TRUCK CALL		$\begin{cases} \mathbf{A} \mathbf{M} TIME \\ \mathbf{P} \mathbf{M} \mathbf{S} \{\mathbf{a}, \mathbf{M}\} \end{cases}$
ļ		2 1 1 1	·			;		ARRIVED AT	JOB 1151	2 AM IL 2
	77,686 19,9	c5 175							RATION 11 16 1-	PM 5 CO
								BELEASED		AM T
	19, 231-19, 90	<u>a</u> 175						MILES FROM	I STATION TO WEL	
							s		ER, OPERATOR, CONT	RACTOR OR AGENT)
_	ITEM/PRICE REF. NO.	M	IATERIAL, EQUIPME	NT AND SER	VICES US	ED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
Ľ.	CP104	50/50 Pc	02 Blond Ca	ment		a	51	350		3,850 00
<u>,</u>	C1104	50,50 %	on Bland Ce	Ment			_5h_	50		550 00
ρ	CC102	Callfa	π			····-	1 12	100		37000
5	$C(1)^2$	GUDDUM	115				Lb	1620		1260 00
7	cc 124	FluidLo	75				LD	168	5	1,260 00
<i>،</i>	<u>CC 201</u>	Gilsonito	e 				. b	2,400	<u> </u>	1,603 00
	(7:00	Pota BIU	n Chloride	•			Lb_	4:06	\$	1,354 00
ρ	CF607	Latch Po	own Pluganc	Baffle	,512		ea	, 1	\$	40000
21 5 1	CT 100:	Healter	Ford Pacific	1 Stor,	515		5 (3	, .		3,000 00
	< F 1651	Turbol	<u>1281, 512'</u>				44	+5		1,650 00
5	CF Day	Parton Parton	$\overline{\mathcal{D}}$	ar (5			20			
		per (jiit	willing a lotte				<u></u>	**1		
P	((Oli	Clarma	x				Gal	6	5	210 00
P	CC 5	MUDFIL					Gal	1000		860 00

CHEMICAL / ACID DATA:		SUB TOTAL
	SERVICE & EQUIPMENT	%TAX ON \$
	MATERIALS	%TAX ON \$
	·	TOTAL

REPRESENTATIVE CONSTANT		SERVICE-	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:	With the
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FIELD SERVICE ORDER NO.

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(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

\frown							FIELD SERVICE		
	BASIC ENERGY SERVICES DEFECTIVE FUMPING & MIRELAN						1718 Entr	Aval 10	A
PRES	SURE PUMF	ING & WIRELINE	5-3	55-1	12W			,511	
· DATE OF .JOB - 6 -	-13 🛛	ISTRICT Pratt,	tansa	0					ER NO.:
CUSTOMER Her	Loob, LLC		LEASE SC	hool	Trust	WEL	NO20-		
ADDRESS	· · · · · · · · · · · · · · · · · · ·		COUNTY	Bar	ber STATE	ransa	5		
CITY STATE					SERVICE CI	REWC	Nersaich M McGraw	S.Ya	, 10;
AUTHORIZED BY					JOB TYPE:	$\subset N$	W. Longstring		,
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQU	JIPMENT#	HRS	TRUCK CALLED	DATE AM PM	TIME
	+	<u> </u>					ARRIVED AT JOB	AM PM	
					· · ·		START OPERATION	AM PM	
	+	• • • • • • • • • • • • • • • • • • • •					FINISH OPERATION	AM PM	
	++	<u> </u>					RELEASED	AM PM	
······································							MILES FROM STATION TO W	VELL	

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. \smile

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

REF. NO.	MATERIAL, EQUIPMENT AND SERVICE	S USED	UNIT	QUANTITY UNIT PRICE			\$ AMOUNT	
E100	Pictup Mileaye		Mi	35		\$	148	75
E 101	Heavy Equiphent Mileage		M1	70		\$	490	00
E 113	Bult Delivery		t /m	588		\$	940	80
	,	· · · · · · · · · · · · · · · · · · ·						
		,					0.00	
E 206	Cement Purp: 5,001 tent 106,0	JOU Feet	hrs	<u> </u>		\$	<u>, 880</u>	60
E240	Blanding and Mixing Service		SIT	400		\$	560	∞
E 504	PlugContainer		700	1		\$	\$ 50	00
								+-1
5003	Sauto Supartusat		TH	8		4	175	$\overline{\mathbf{a}}$
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		MATERIALS	MENT	%TA				
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	REF. NO. E 100 E 101 E 113 E 206 E 206 E 240 E 504 5003 CHE	REF. NO. REF. NO. E 100 Pictrup Mileage E 101 Heavy Equiphent Mileage E 101 Heavy Equiphent Mileage E 101 Built De Livery E 206 Cement Purp: 5,001 Fault To 6,0 E 240 Blanding and Mixing Service E 504 Plug Container 5003 Service Supervisor	MATERIAL, EDUPMENT AND SERVICES USED E 100 Pictrup Mileage E 101 Heavy Equip Alent Mileage E 100 E 206 Cement Pun p: 5, col Feet To 6,000 Feet E 206 E 206 E 206 E 200 Feet Vice E 304 Plag Container Set vice Super Visor Material Set vice Super Visor	MATERIAL, EUDIPMENT AND SERVICES USED E 100 E 101 Heavy Equip Ar at Mileage E 101 Heavy Equip Ar at Mileage MATERIAL Built Delivery TE 206 Centent Punp: 5, col Feet To 6,000 Feet hrs E 240 Blending and Mixing Service Sh TE 504 Plug Container Tob Source Superviser Source Superviser CHEMICAL/ACID DATA: SERVICE & EQUIPMENT Materials SERVICE & EQUIPMENT	REF. NO. MATERIAL ECONPMENT AND SERVICES USED DNIT DUANTITY E 100 Pictrup Mileage Mil 35 E 101 Heavy Equip Arat Mileage Mil 70 E 113 Bult Delivery tri 578 E 206 Centent Purp: 5,001 Feet To 6,000 Feet hrs 4 E 240 Blesding and Mixing Service Sht 400 E 504 Plug Container Job 1 South Service Superiors D Hrs 8 CHEMICAL/ACID DATA: SERVICE & EQUIPMENT %TA MATERIALS %TA	AREF. NO. MATERIAL, EQUIPMENT AND SERVICES USED Duilt OUANITY DUILT OUANITY E 100 Pictrup Mileage Mil 35 E 101 Heavy Equip Arnt Mileage Mil 70 E 113 Built De Livery tra 583 E 206 Cernent Purp: 5,001 Fact To 6,000 Feet hrs E 206 Cernent Purp: 5,001 Fact To 6,000 Feet hrs E 206 Cernent Purp: 5,001 Fact To 6,000 Feet hrs E 207 Solt ung and Mixing Service Sh E 504 Plug Container Job 1 Sold Service Supervisor To 1/16 Sold Service Supervisor To 1/16 Sub 7 Sub 7 Sub 7 S	Ref. NO. MATERIAL EXOLUCION DENVICES USED DUNIT OUNITY DUNITY DUNITY E 100 Pictrup Mileage Mil 35 \$ E 101 Heavy Equip Atmit Mileage Mil 70 \$ E 101 Heavy Equip Atmit Mileage Mil 70 \$ E 101 Heavy Equip Atmit Mileage Mil 70 \$ E 101 Heavy Equip Atmit Mileage Mil 70 \$ E 101 Heavy Equip Atmit Mileage Mil 70 \$ E 206 Centeral Pun p: 5,001 Feet To 6,000 Feet hrs 4 \$ E 240 Blend ing and Mixing Service \$ \$ E 504 Plug Container Job 1 \$ 5003 Service Superivisor The 8 \$ Sub Jona \$ \$ \$ Sub Jona \$ \$ \$	REF. NO. MARTERIAL, EUDIMENT AND SERVICES USED ONIT GUANTIT UNIT PRICE \$ AMOUNT E 100 Pictrup Mileage Mileage Mileage Mileage \$ 1490 E 101 Heavy Equiphent Mileage Mileage Mileage \$ 1490 E 101 Heavy Equiphent Mileage Mileage \$ 1490 E 113 Bult Delivery the 5583 \$ 940 E 206 Center Purp: 5,001 Feet To 6,000 Feet hrs \$ 2,880 E 240 Blord ing and Mileage \$ 560 \$ 560 E 504 Plug Container Tob 1 \$ 250 5003 Service Superivisor Toth 3 \$ 175 5003 Service Superivisor Toth 8 \$ 175 6 Subjection Subjection \$ 175 6 Service & Equipment \$ 17656 7 Service & Equipment \$ 17,656 8 Materials \$ 17,656

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: _/

REPRESENTATION & M. Oaid FIELD SERVICE ORDER NO.

£ (WELL OWNER OPERATOR CONTRACTOR OR AGENT)

11



TREATMENT REPORT

These Critical West 20-5Interm Prior	Customer	Ther LLOOK LLC Lease No.							Date/	/	1 /	1	17					
	Lease School Tivot					W	Well # 20-5								LD	LD		
Type JobPipe JobPerformationLegisly Begintion 2 wPIPE DATAPERFORATING DATAtGUID USEDTHEATMENT RESUMEGenerating String, StructureStructure350.5 ac Att String String StructurePressPressOpen a dataFromTo 2.5 LL PressMarket 1.35 cut ft Job100 Min.Open a dataFromTo 2.5 LL PressMarket 1.35 cut ft Job100 Min.Open a dataFromTo 2.5 LL PressMarket 1.35 cut ft Job100 Min.Open a dataFromTo 2.5 LL PressArg15 Min.Open a dataFromTo 2.6 LL PressArg15 Min.Open a dataFromTo 14 LL PressArg15 Min.Open a dataFrom To 14 LL PressArg15 Min.Open a dataFrom To 14 LL PressArg16 Min.Service of Market PressFrom To 16 Call Press16 Min.Service of Market Press16 Min.17 Min.20 Service PressThe PressPress16 Min.16 Min.Deven a dataMarket Press <td< td=""><td>Field Order #</td><td>Station</td><td>P</td><td>rutt</td><td>- 10</td><td>1150</td><td>4</td><td></td><td>Gasing</td><td>15.5 Depth</td><td>5.5965-</td><td>County 1</td><td>B</td><td>albei</td><td>SI</td><td>ate Un SK I</td></td<>	Field Order #	Station	P	rutt	- 10	1150	4		Gasing	15.5 Depth	5.5965-	County 1	B	albei	SI	ate Un SK I		
PIPE DATAPERFORATING/DATA PERFORATING/DATA the GRUND USEDTREATMENT RESUMECompared S. L. S. L. StateSocial SocialSocial SocialSocial SocialSocial SocialSocial 	Type Job CNW Longstrin						Formation							Legal De	scription 5 12W			
Canada Series Lubing State Photon Product Pro	PIPE DATA PERFORATIO												TREATMENT RESUME					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Casing Size Jubing Size Shots/Ft 3			350	350 50 c 175 50/50 Poz witi					th 28 Ge PRESS FILID ISIP 005, 58 HIL.								
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$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Volume	Volume		From	om To		To 14LL/Part Gal. 5.		. 43Gal.	Mintr. 1	:35	с v. f	7+ 15th.	10 Min.				
Weil Connection Annulus Vol. From Sod & hors of 2 hors to Play Ref (2015) State of Play Ref (Max Press P	S Max Press	3	From	om Tr		ro for an interview		·	Avg ′			15 Min.					
PlugDestr Reak Polyne Total Load Custome Representative Ital. V rafi 1 Station Manager (Te Vin Gordley) Ital. Load Service Units R7.28.3 77.656 19.926 19.31 19.362 Driver Marke Market Market Market Station Manager (Te Vin Gordley) Ital. Load Service Units R7.28.3 77.656 19.931 19.362 Ital. Ital. Names Market Market Market Market Station Manager (Te Vin Gordley) Ital. Ital. Names Market Market Market Market Station Manager (Te Vin Gordley) Ital. Ital. Names Market Market Market Market Station And Market Market Market Market Market Market Market 12.10 Station Market Market 13.10 Station Market Market Market Market Market Market Market Market Market Market 14.11 Station Market Market Market Market Market Market Market Market <	Well Connectin	on Annulus V 「(いです	ol.	FromSe	054	: to 5	to 5 50/ 50 Pozto Plu		y Rut (30	HHP)Used M		CUSE (JUS TS) Annulus		Annulus Pres	sure			
Cuistioner Representative 1 and Vrafil Station Manager Trevin Gordley Creater and R. All essich Service Units 27.293 77,6% [19,991 [19,981 [19,962] The PAP Pressure Consumer Volumy Service Log Time PAP Pressure Pressure Bale. Pumped Rate 10.30 (1.5:13) The Chart Volumy Rate Service Log The PAP Pressure Pressure Bale. Pumped Rate Down Part of the Screwed into Cellar and hold safety new trug. 12.10 Sterling Vr. Ming start to run Woather Food Patter show, Show Joint With Luten Pown Part of the Screwed into Cellar and a total of 134 Joint Study 1.5 (1) State on the Cellar and the device of the Schement Schell Ft State of the Screwed into Cellar and total of 134 Joint Study 1.5 (1) State of the Screwed into Cellar and the state of the Schement Schell Ft State of the Screwed into Cellar and the state of the Schement Schell Ft State of the Screwed into Cellar and the state of the Schement Schell Ft State of the Screwed into Cellar and the state of the Schement S	Plug Depth-	Packer De	epth	From		То	Flush 132.6 BUL 28			Gas Volume Total Load								
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Diverse Metzorich Mc Graw Yolung Time M Pressure Pressure Bobs. Pumped Rate Service Log Time M Pressure Resource Bobs. Pumped Rate True hto on location and hold safety meeting. 10:30 (1) 15:13 True hto on location and hold safety meeting. 12:10 Sterling Uriking start to run Weather Ford Pacter shoe. She Toint with Laten Down haff to screwed it to Cellar and a total of 134 Tointo new 15 SLUFFt. 512 casing A Bestert Vasion stalled above Cellars #2, 16 and #34, A Tointella. Uwarinstalled on collars #16,1114 17:19:24,29:30:34:35:39:43:47 and #51 3:40 800 Carring in Well. Set Parter shoe Circulate for 1 how 2000 Shationum. Pressore The Shoe Toint with 14:51 5:00:400 6:5tart Friend Water Pressor. Tost Open well 5:00:400 6:5tart Friend Water Pressor. Tost Open well 4:00 6:4 5:5tart Mixing 350:5uets 50/50 Poze contast 4:00 7:5 5:5tart to Lift comparent 4:00 7:5 7:5tart to Lift comparent 4:00 7:5 7:5 7:5tart to Lift comparent 4:00 7:5 7:5tart to Lift comparent 4:00 7:5 7:5tart to	Service Units	27 283	77	686	19,9	09	19,93	31 1	9,862									
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Taylor Printing, Inc. 620-672-3656

Quality Well Service, Inc.

324 Simpson St. Pratt, KS 67124

Bill To

5 - Y

Herman Loeb Box 524 Lawrenceville, IL 62439-0524

	P.O. No.	Terms	Lea	se Name		
			School	School Trust #20-5		
Description		Qty	Rate	Amount		
Common Gel Calcium Flo-Seal Conductor Pipe Handling .08 * sacks * miles LMV Pump Truck Mileage Discount Discount Discount Discount Expires after30 days from the date of the invoice School Trust #20-5 Barber Co. PAI	D	275 5 10 68.75 1 290 5,800 20 20 1,006.5 408.6	15.50 20.50 53.00 2.00 750.00 2.10 0.08 3.00 -1.00 -1.00 0.00	4,262.50T 102.50T 530.00T 137.50T 750.00 609.00 464.00 60.00 160.00 -1,006.50T -408.60 0.00		
Thank You for your business!		Subtotal	\$5,660.40			
		Sales Tax	\$287.86			
		Total		\$5,948.26		

1120		VN					
706 Scho 10438		Invoice					
	Date	Invoice #					
	11/5/2013	C-976					

1725

QUALITY WELL SERVICE, INC. Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

Office 620-727-3410 Fax 620-672-3663

5- 2

Rich's Cell 620-727-3409 Brady's Cell 620-727-6964

6037

	Sec.	Twp.	Range	(County	State	On Location	Finish				
Date 11-2-13	5	35	12	B	acter	Ks -	12:15 A.M	4:35 H.M				
Lease School Tr	v teus	Vell No.	20-5	Locatio	on by /i	loed there Ks	IN YOE	s'winto				
Contractor STER	ling DRI	94			Owner							
Type Job (ord.	133%	~			To Quality We You are here	ell Service, Inc. by requested to ren	t cementing equipmen	t and furnish				
Hole Size 1712		T.D.	275		cementer and helper to assist owner or contractor to do work as listed.							
Csg. 133/8	55.4	Depth	271.57		To HERMAN LOEB							
Tbg. Size		Depth			Street							
Tool		Depth			City State							
Cement Left in Csg.		Shoe Jo	pint Zo		The above wa	s done to satisfaction a	and supervision of owner	agent or contractor.				
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Bulktrk No.	7	_	CHAD		Poz. Mix							
Bulktrk No.					Gel.	5						
Pickup No.					Calcium / 2							
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Rat Hole	and the second				Salt							
Mouse Hole		-			Flowseal 63. /J							
Centralizers					Kol-Seal							
Baskets					Mud CLR 48							
D/V or Port Collar	1201				CFL-117 or (CD110 CAF 38						
La 7 Hs	13318	55 (:25		Sand							
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Thene 1011	III. KE CH	AD	CD NIN	Sung -			Discount					
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Signature							Total Onlargo					