

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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MWD SURVEYS

Customer: Tapstone Energy
Well: Leech 16-34-9 #1H
Field/Block: Hibbord
Co./Parish: Harper Co.
State: KS

PGS Job #: LKS6120316
MWD Operator: Travis Johnson
Directional Driller: Jared Gooch
Date of First Survey: January 28, 2016
Date of Last Survey: February 7, 2016



Total Correction: 4.02 East Grid

Vertical Section Plane: 359.3 Nominal Dip Angle: 65.28 Magnetic Field Strength: 0.516

Measured			Coordinates				Closure			Vib/Shk						
Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	+N / -S	+E / -W	Dist.	Angle	DLS	Mtr Yield	BRN	Temp (°F)	Color	Date	Time	
175	8747	89.5	357.3	4,634.28	4,447.08	4,446.72	-56.68	4,447.08	359.27	1.64	0.00	0.00	162 °F	Red	02/06/16	22:10
176	8778	89.1	357.2	4,634.66	4,478.05	4,477.68	-58.17	4,478.06	359.26	1.33	0.00	0.00	162 °F	Red	02/06/16	23:20
177	8810	89.6	357.3	4,635.02	4,510.03	4,509.64	-59.70	4,510.03	359.24	1.59	0.00	0.00	162 °F	Red	02/07/16	0:40
178	8842	90.0	357.3	4,635.13	4,542.01	4,541.60	-61.21	4,542.02	359.23	1.25	0.00	0.00	160 °F	Red	02/07/16	1:40
179	8873	89.3	356.9	4,635.32	4,572.99	4,572.56	-62.78	4,572.99	359.21	2.60	0.00	0.00	160 °F	Yellow	02/07/16	3:05
180	8905	89.4	356.6	4,635.69	4,604.96	4,604.51	-64.59	4,604.96	359.20	0.99	0.00	0.00	160 °F	Red	02/07/16	4:30
181	8936	89.0	356.5	4,636.12	4,635.92	4,635.45	-66.46	4,635.93	359.18	1.33	0.00	0.00	160 °F	Yellow	02/07/16	5:17
182	8950	88.7	356.4	4,636.40	4,649.90	4,649.42	-67.32	4,649.91	359.17	2.26	0.00	0.00	160 °F	Yellow	02/07/16	5:42
PBHL	9003	88.7	356.4	4,637.60	4,702.81	4,702.30	-70.65	4,702.83	359.14	0.00						

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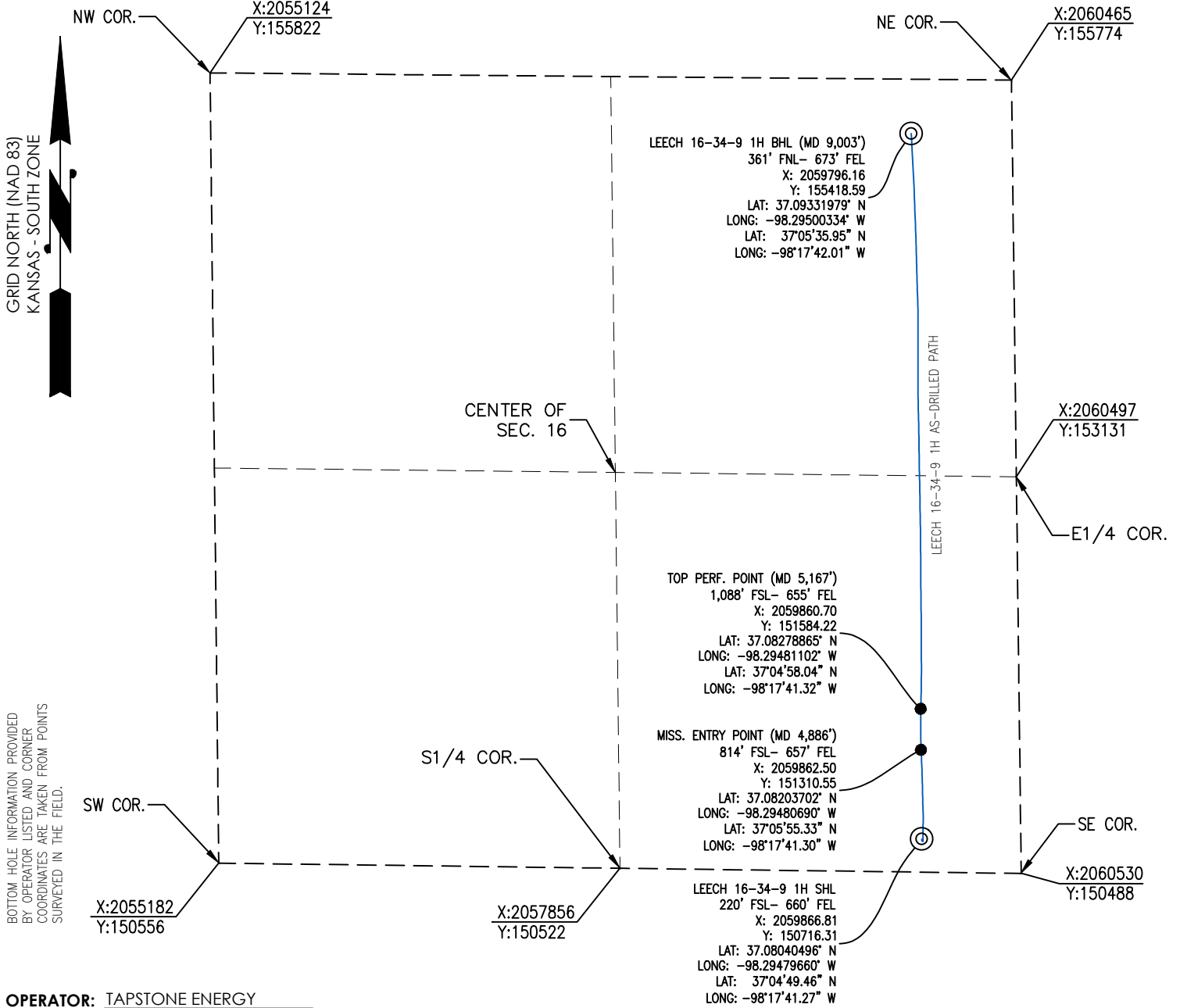
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Crafton Tull
 SURVEYING

HARPER COUNTY, KANSAS
 220' FSL- 660' FEL SECTION 16 TOWNSHIP 34S RANGE 09W 6TH P.M.



OPERATOR: TAPSTONE ENERGY

LEASE NAME: LEECH 16-34-9 1H

TOPOGRAPHIC & VEGETATION: LOCATION FELL IN A FIELD

GOOD DRILL SITE: YES

BEST ACCESSIBILITY TO LOCATION: SOUTH OR EAST LINE

DISTANCE & DIRECTION
FROM HWY JCT OR TOWN: FROM THE JCT. OF STATE HWY 2 AND SW 140 AVENUE, TRAVEL SOUTH ON SW 140 AVENUE FOR APPROXIMATELY 4.98 MILES, TO THE JCT. OF SW 140 AVENUE AND SW 50 ROAD, TRAVEL WEST ON SW 50 ROAD FOR APPROXIMATELY 0.13 MILES.

(THE FOLLOWING INFORMATION WAS GATHERED USING A GPS RECEIVER ACCURACY ±2-3 METERS)

GPS DATUM: NAD-27
LAT: 37.080405° N
LONG: -98.294797° W

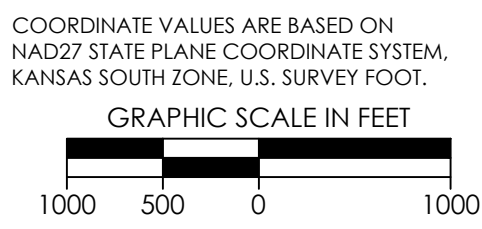
STATE PLANE COORDINATES:
ZONE: KS-SOUTH NAD-27
X: 2059866.8
Y: 150716.3

ELEVATION:
1,282' GR. AT STAKE

GENERAL NOTES:
 THE TIES AND FOOTAGES SHOWN ON THIS PLAT ARE FROM LINES OF OCCUPATION FROM A SURVEY MADE ON THE GROUND AND / OR BEARING AND DISTANCES FROM THE GENERAL LAND OFFICE PLAT OF THE AREA SHOWN AND MAY NOT BE THE ACTUAL PROPERTY CORNERS. THIS PLAT DOES NOT REPRESENT A TRUE BOUNDARY SURVEY. DRILL SITE CONDITION DETERMINATIONS WERE MADE BY TAPSTONE ENERGY REPRESENTATIVES.

DATE STAKED: 11-23-15

AS-DRILLED INFORMATION PROVIDED BY CLIENT.



REVISION	<p>"LEECH 16-34-9 1H" PART OF SECTION 16, T-34-S, R-09-W AS-DRILLED PLAT HARPER COUNTY, KANSAS</p>			
	SCALE: 1" = 1000'	PLOT DATE: 02-09-2016	DRAWN BY: J.PARKER	SHEET NO.: 1 OF 1

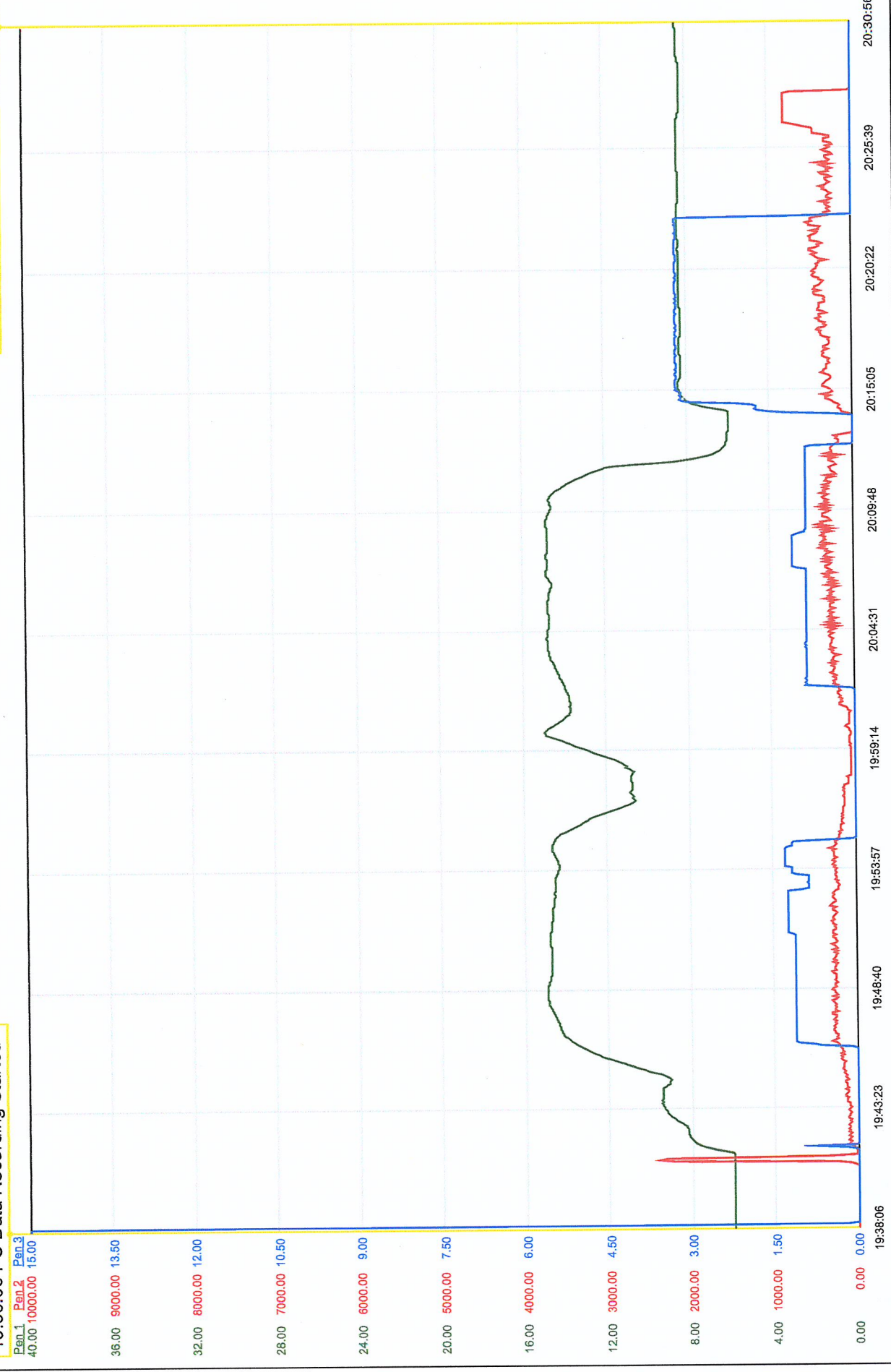


SERVICE COMPANY: O-Tex Pumping
TICKET NO: 0
CUSTOMER NAME: Tapstone
WELL NAME: Leech 16349 1H
WELL LOCATION: Harper KS.OK
DATE RECORDED: 01/27/2016
JOB NO: SOK 5565
UNIT DESCRIPTION: Nomac #7
UNIT NOTES: 9 5/8 Surface
FILE NAME: Tapstone_Leech 16349 1H_16_01_27_#1.csv

Pen 1: Density 1 (Density : lb/gal) Pen 2: Pressure 2 (Density : lb/gal) Pen 3: Flowrate 1 (Pressure : psi)

19:38:06 PC Data Recording Started

20:30:56 PC Data Recording Stopped



JOB SUMMARY			PROJECT NUMBER	TICKET DATE
COUNTY	State	COMPANY	SOK 5577	02/01/16
Harper	Kansas	Tapstone Energy	CUSTOMER REP	0
LEASE NAME	Well No.	JOB TYPE	EMPLOYEE NAME	
Leech 16-34-9	1H	Intermediate	Brett Armer	

EMP NAME					
Brett Armer	0				
Jared Green					
Bryan Douglas					
0.00					

Form. Name _____ Type: _____

Packer Type _____ Set At **3,740'**

Bottom Hole Temp. **155** Pressure _____

Retainer Depth _____ Total Depth **5135**

	Called Out	On Location	Job Started	Job Completed
Date	1/31/2016	1/31/2016	2/1/2016	2/1/2016
Time	1900	2300	0402	0507

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Well Data							
	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing		26#	7"		Surface		5,000
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			8 3/4"		Surface	5,135	Shots/Ft.
Perforations							
Perforations							
Perforations							

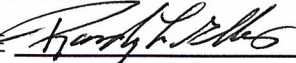
Materials			
	WBM	Density	Lb/Gal
Mud Type	Fresh Water	8.33	
Disp. Fluid	resh Wate	20	8.33
Spacer type	Caustic	10	8.40
Spacer type			
Acid Type			
Acid Type			
Surfactant			
NE Agent			
Fluid Loss			
Gelling Agent			
Fric. Red.			
MISC.			

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
1/31	1.0	2/1	1.0	Intermediate
2/1	6.5			
Total	7.5	Total	1.0	

Pressures	
MAX 5,000 PSI	AVG. 550
Average Rates in BPM	
MAX 7 BPM	AVG 6
Feet 82	Reason SHOE JOINT

Cement Data				W/Rq.	Yield	Lbs/Gal
Stage	Sacks	Cement	Additives			
1	140	50/50 POZ PREMIUM	4% Gel - 0.4% FL-17	6.93	1.43	13.60
2	90	Premium	0.4% FL-17	5.19	1.19	15.60
3	0	0		0.00	0.00	0.00

Summary					
Preflush Breakdown	10	Type: Caustic	Preflush: BBI	20.00	Type: Mud Wash
		MAXIMUM	Load & Bkdn: Gal - BBI	N/A	Pad:Bbl -Gal N/A
		Lost Returns-N	Excess /Return BBI	N/A	Calc. Disp Bbl 195
		Actual TOC	Calc. TOC:	3,740	Actual Disp. 195.00
Average		Bump Plug PSI:	Final Circ. PSI:	800	Disp:Bbl 195.00
ISIP 5 Min.		10 Min	Cement Slurry: BBI	55.0	
		15 Min	Total Volume BBI	270.00	

CUSTOMER REPRESENTATIVE  SIGNATURE _____

JOB LOG				PROJECT NUMBER SOK 5577	TICKET DATE 02/01/16
COMPANY Tapstone Energy		COUNTRY USA		STATE Kansas	COUNTY Harper
LEASE NAME Leech 16-34-9 1H	Well No.	EMPLOYEE NAME Brett Armer		CUSTOMER REP	
FIELD		SEC / TWP / RNG 16-34S-9W		TICKET AMOUNT 6,728.52	
API/UWI # 15-077-22164-01-00		JOB PURPOSE Intermediate		WELL TYPE Oil & Gas	

	Time	Rate (BPM)	Volume (BBL)(GAL)	Press.(PSI)		Job Description / Remarks
				CSG.	Tbg	
						TIME ARRIVED IN YARD
						Fit for duty meeting
						Headed to location from yard!
1-31-16	2300					Arrive On Location
2-1-16	0130					Rig Up
	0330					Safety Meeting
	0402			5000		Test Lines
	0403	3.0	20.0	200		Release Bottom Plug, Pump 20bbl Mud Flush
	0411	5.0	35.0	500		Mix And Pump 140sx Lead Cmt 35bbl@13.6ppg
	0421	5.0	20.0	500		Mix And Pump 90sx Tail Cmt. 20bbl@15.6ppg
	0430					Shut down Drop Plug
	0432	7.0	195.0	800		H2O displacement
	0507			1300		Bump plug
	0508			Held		Check floats
	0530					Rig down
	0630					Leave location
						SUPERVISOR SIGNATURE
Bumped Plug	Final lift Psi	Floats Held	PSI ON CSG	CEMENT SURFACE		X _____
YES	800	YES	1300.0	no		

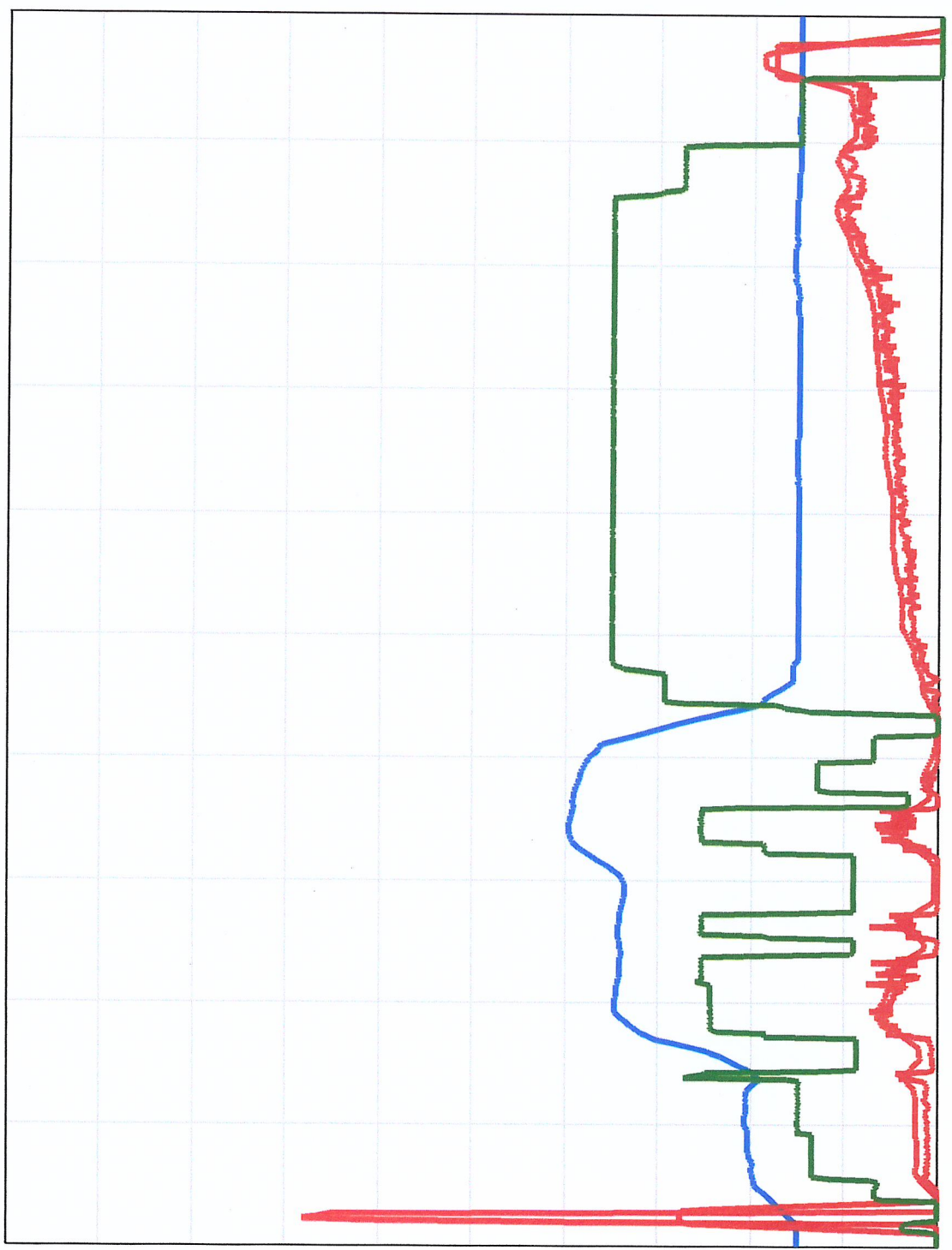


SERVICE COMPANY: O-TEX
 TICKET NO: Sok 5577
 CUSTOMER NAME: Tapstone
 WELL NAME: Leech 16349 1H
 WELL LOCATION: Harper Co KS
 DATE RECORDED: 02/01/2016
 JOB NO: Nomatic 7
 UNIT DESCRIPTION: UnitDescription
 UNIT NOTES: Tapstone_Leech 16349 1H_02_01_#1.csv
 FILE NAME:

Pen 1: Density 1 (Density : lb/gal) dF:25 Pen 2: Pressure 2 (Density : lb/gal) dF:15 Pen 3: Pressure 1 (Pressure : psi)
 Pen 4: Calc. SlurryRate (Pressure : psi)

Pen 1 40.00 Pen 2 7500.00 Pen 3 7500.00 Pen 4 20.00

36.00 6750.00 6750.00 18.00
 32.00 6000.00 6000.00 16.00
 28.00 5250.00 5250.00 14.00
 24.00 4500.00 4500.00 12.00
 20.00 3750.00 3750.00 10.00
 16.00 3000.00 3000.00 8.00
 12.00 2250.00 2250.00 6.00
 8.00 1500.00 1500.00 4.00
 4.00 750.00 750.00 2.00
 0.00 0.00 0.00 0.00



04:00:17 04:07:21 04:14:25 04:21:29 04:28:33 04:35:37 04:42:41 04:49:45 04:56:49 05:03:53 05:10:57