

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1235754
OIL & GAS CONSERVATION DIVISION

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1235754

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

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

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

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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7303 N. Highway 81
Duncan, OK 73533

Invoice

Date:	Invoice #:
10/21/2014	0000017306

Phone # (580) 255-3111

Bill To
Tapstone Harper Office PO Box 1608 Oklahoma City, OK 79101

Description of Work
HARPER, COUNTY KS AFE N/A API 15-077-22099-01-00
Job Type: Surface (New Well Only)

Field Receipt	Terms	Service Date	Due Date	AFE No	Lease/Well Name
SOK4350	Net 30	10/18/2014	11/20/2014	AFE N/A	ROBERTS 27-34-9 1H

Item	Description	U/M	Qty	Price Each	Amount	Disc %	Disc Amt	Net Amount
ML001	Pickup Mileage	UNTMIL	100	4.26	426.00	65.00%	-276.90	149.10
ML002	Pump Truck/Heavy Vehicle Mileage	UNTMIL	100	7.32	732.00	65.00%	-475.80	256.20
ML003	Bulk Cement Delivery/Return	MILE	879	2.95	2,593.05	65.00%	-1,685.48	907.57
MX001	Bulk Material Mixing Service Charge	SCF	411	3.27	1,343.97	65.00%	-873.58	470.39
CC001	Pump Charge 0-1000'	4-HRS	1	2,038.61	2,038.61	65.00%	-1,325.10	713.51
ML014	Fuel Surcharge *	JOB	1	653.40	653.40	100.00%	-653.40	0.00
AE014	Environmental Fee*	JOB	1	228.69	228.69	100.00%	-228.69	0.00
PC003	Employee/Supervisor Retention/perdiem	JOB	5	1,306.80	6,534.00	90.00%	-5,880.60	653.40
AE002	Cement Head with manifold	JOB	1	1,176.12	1,176.12	65.00%	-764.48	411.64
AE003	Circulation Equipment(40' of equipment)	JOB	1	1,633.50	1,633.50	65.00%	-1,061.78	571.72
CL017	9 5/8" Top Rubber Plug	EACH	1	338.80	338.80	40.00%	-135.52	203.28
CSB006	O-Tex Lite Premium Plus	SACK	235	29.81	7,005.35	56.00%	-3,923.00	3,082.35
JM001	Data Acquisition System	JOB	1	1,437.48	1,437.48	65.00%	-934.36	503.12
CP001	C (Premium Plus Cement) (94 lbs/ft3)	94SACK	135	30.80	4,158.01	56.00%	-2,328.49	1,829.52
CP010	Cello Flake	LBS	93	4.20	390.60	56.00%	-218.74	171.86
CP009	CF-41 (Foam Preventer)	GAL	2	86.06	172.12	56.00%	-96.39	75.73
CPC43	X-Air P (Antifoam)	LBS	41	8.80	360.80	56.00%	-202.05	158.75
CP018	Calcium Chloride	LBS	663	1.22	808.86	56.00%	-452.96	355.90

Subtotal Amount	*****
Sales Tax	*****
Discount Amount	*****
Payment/Credit Amount	*****
Total Net Amount	*****

Contact: Ellen Yoder



7303 N. Highway 81
Duncan, OK 73533

Invoice

Date:	Invoice #:
10/21/2014	0000017306

Phone # (580) 255-3111

Bill To
Tapstone Harper Office PO Box 1608 Oklahoma City, OK 79101

Description of Work
HARPER, COUNTY KS AFE N/A API 15-077-22099-01-00
Job Type: Surface (New Well Only)

Field Receipt	Terms	Service Date	Due Date	AFE No	Lease/Well Name
SOK4350	Net 30	10/18/2014	11/20/2014	AFE N/A	ROBERTS 27-34-9 1H

Item	Description	U/M	Qty	Price Each	Amount	Disc %	Disc Amt	Net Amount

Contact: Ellen Yoder	Subtotal Amount	32,031.36
	Sales Tax	361.46
	Discount Amount	-21,517.32
	Payment/Credit Amount	0.00
	Total Net Amount	10,875.50

O-TEX PUMPING LLC

Service Location Fairview, Oklahoma
 Service Address 601 Industrial Blvd 73737

Service Date: 10/18/2014
 Customer Address: Tapstone Energy
 City St

Customer Rep Date
 Phone 713-758-0636

FIELD RECEIPT

Phone number 580-227-2727

Project Number: SOK 4350

Well Name: Roberts
 Well Number: 27-34-9 1H
 County: Harper
 State: Kansas
 API # 15-077-22099-01-00
 AFE # 0
 PERMIT #

Job Type 0
 Serv. Sup. Joseph Klemm
 Page 1 of 1

JOB TYPE
 CASING SIZE

Pump 1 # DA211800-Serva
 Pump 2 # 0

TAPSTONE ENERGY
 AFE # DC 14022
 WELL Roberts 27-34-9 1H
 RIG Unit 303
 ACT CODE 830.36
 APPROVED AMT \$10,514.06
Mick Jordan

REF #	DESCRIPTION	CO REP	U OF MEAS.	UNIT PRICE	QUAN	GROSS	%DISC	disc	NET
ML001	Pickup Mileage		per mile/ per Unit	4.26	100.0	\$426.00	65%	\$276.90	\$149.10
ML002	Pump Truck/Heavy Vehicle Mileage		per mile/ per Unit	7.32	100.0	\$732.00	65%	\$475.80	\$256.20
ML003	Bulk Cement Delivery/Return		per Ton-Mile	2.95	879.0	\$2,593.05	65%	\$1,685.48	\$907.57
MX001	Bulk Material Mixing Service Charge		per cuft	3.27	411.0	\$1,343.97	65%	\$873.58	\$470.39
CC001	Pump Charge 0-1000'		(per 4 hrs)	2,038.61	1.0	\$2,038.61	65%	\$1,325.10	\$713.51
ML014	Fuel Surcharge *		per unit per job	653.40	1.0	\$653.40	100%	\$653.40	\$0.00
AE014	Environmental Fee*		per job	228.69	1.0	\$228.69	100%	\$228.69	\$0.00
PC003	Employee/Supervisor Retention/perdiem		per job	1,306.80	5.0	\$6,534.00	90%	\$5,880.60	\$653.40
JM001	Data Acquisition System		Per Job	1,437.48	1.0	\$1,437.48	65%	\$934.36	\$503.12
AE002	Cement Head with manifold		per job	1,176.12	1.0	\$1,176.12	65%	\$764.48	\$411.64
AE003	Circulation Equipment(40' of equipment)		per job	1,633.50	1.0	\$1,633.50	65%	\$1,061.78	\$571.73
CL017	9 5/8" Top Rubber Plug		Each	338.80	1.0	\$338.80	40%	\$135.52	\$203.28
CSB006	O-TEX Lite with Premium Plus(65/35/6)		per sk	29.81	235.0	\$7,005.35	56%	\$3,923.00	\$3,082.35
CP001	C (Premium Plus Cement) (94 lbs/ft3)		per sk	30.80	135.0	\$4,158.00	56%	\$2,328.48	\$1,829.52
CP010	Cello Flake		per lb	4.20	93.0	\$390.60	56%	\$218.74	\$171.86
CP018	Calcium Chloride		per lb	1.22	663.0	\$808.86	56%	\$452.96	\$355.90
CP009	CF-41 (Foam Preventer)		per gal	86.06	2.0	\$172.12	56%	\$96.39	\$75.73
CPC43	X-Air (Powder Defoamer)		per lb	8.80	41.0	\$360.80	56%	\$202.05	\$158.75
CP031	Sugar		per lb	3.39		\$0.00	0%	\$0.00	\$0.00
CP001	C (Premium Plus Cement) (94 lbs/ft3)		per sk	30.80	-	\$0.00	56%	\$0.00	\$0.00
CP018	Calcium Chloride		per lb	1.22	-	\$0.00	56%	\$0.00	\$0.00
AE022	1" Pipe for Top-Out*		per ft	7.90	-	\$0.00	20%	\$0.00	\$0.00
ML003	Bulk Cement Delivery/Return		per Ton-Mile	2.95	-	\$0.00	65%	\$0.00	\$0.00
MX001	Bulk Material Mixing Service Charge		per cuft	3.27	-	\$0.00	65%	\$0.00	\$0.00
CC015	Pump Charge Additional Hours		per hour/per unit	588.06	-	\$0.00	35%	\$0.00	\$0.00
						\$32,031.35		\$21,517.29	\$10,514.06

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMERS AGENT.

Customer Authorized Agent: _____

RECEIVED OCT 21 2014

SERVICE ORDER CONTRACT

Customer Name Tapstone Energy Ticket Number SOK 4350

Lease & Well Number Roberts 27-34-9 1H Date 10/18/2014

As consideration, The Above Named customer Agrees:

O-TEX Pumping L.L.C. shall not be responsible for and customer shall secure O-TEX pumping against any liability for damage to property of customer and of the well owner (if different from customer), unless caused by the willful misconduct or gross negligence of O-TEX pumping, this provision applying to but not limited to subsurface damage and surface damage arising from subsurface damage.

O-TEX makes no guarantee to the effectiveness of the products, supplies, or materials, nor of the results of any treatment or services. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, O-TEX personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others except where due to O-TEX gross negligence or willful misconduct in the preparation or furnishing it.

Invoices payable NET 30 days following the date on the invoice.

Upon customers default in payment of the customers account by the last day of the month following the month in which the invoice is dated.

Customer agrees to pay interest thereon after at the highest lawful contract rate applicable but never to exceed 18% per annum in the event it becomes necessary to employ an attorney to enforce collection of said account.

Customer agrees to pay all collection costs and attorney fees in the amount of 25% of the unpaid account.

Service order: I authorize work to begin per service instructions in accordance with terms and conditions printed on this form and represent that I have authority to accept and sign this order.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMERS AGENT.

Customer Authorized Agent: 

JOB SUMMARY			PROJECT NUMBER SOK 4350	TICKET DATE 10/18/14
COUNTY Harper	State Kansas	COMPANY Tapstone Energy	CUSTOMER REP Dale	
LEASE NAME Roberts	Well No. 27-34-9 1H	JOB TYPE 0	EMPLOYEE NAME Joseph Klemm	

EMP NAME	0				
Joseph Klemm					
Cody Bonitz					
Josh Davis					
0.00					

Form. Name _____ Type: _____
 Packer Type _____ Set At **0**
 Bottom Hole Temp. **80** Pressure _____
 Retainer Depth _____ Total Depth **786'**

Date	Called Out 10/18/2014	On Location 10/18/2014	Job Started 10/18/2014	Job Completed 10/18/2014
Time	0830	1130	1345	1915

Tools and Accessories		
Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Va	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		36#	9"		Surface	786'	3,000
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			12 1/4"		Surface	786'	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials			
Mud Type	WBM	Density	9 Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33 Lb/Gal
Spacer type	Fresh Water BBL.		10 8.33
Spacer type	BBL.		
Acid Type	Gal.	%	
Acid Type	Gal.	%	
Surfactant	Gal.	In	
NE Agent	Gal.	In	
Fluid Loss	Gal/Lb	In	
Gelling Agent	Gal/Lb	In	
Fric. Red.	Gal/Lb	In	
MISC.	Gal/Lb	In	

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
10/18	7.7	10/18	6.5	0
Total	7.7	Total	6.5	

Perfpac Balls _____ Qty. _____
 Other _____
 Other _____
 Other _____
 Other _____

Pressures	
MAX	3000 PSI
AVG.	300
Average Rates in BPM	
MAX	9 BPM
AVG	5
Cement Left in Pipe	
Feet	46
Reason	SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	235	TEX Lite Premium Plus 65	(6% Gel) 2% Calcium Chloride - 1/4pps Cello-Flake - 0.2% X-Air	11.11	2.01	12.40
2	135	Premium Plus (Class C)	2% Calcium Chloride - 1/4pps Cello-Flake	6.32	1.32	14.80
3	0	0		0	0.00	0.00

Summary					
Preflush	_____	Type:	BBI	10.00	Type: Fresh Water
Breakdown	MAXIMUM	3000 PSI	Load & Bkdn: Gal - BBI	N/A	Pad:Bbl -Gal N/A
	Lost Returns-	NO/FULL	Excess /Return BBI	43	Calc.Disp Bbl 58
	Actual TOC	SURFACE	Calc. TOC:	SURFACE	Actual Disp. 57.60
Average	Bump Plug PSI:	1,000	Final Circ. PSI:	350	Disp:Bbl 57.60
ISIF	5 Min.	10 Min	Cement Slurry BBI	115.8	
		15 Min	Total Volume BBI	183.40	

CUSTOMER REPRESENTATIVE _____

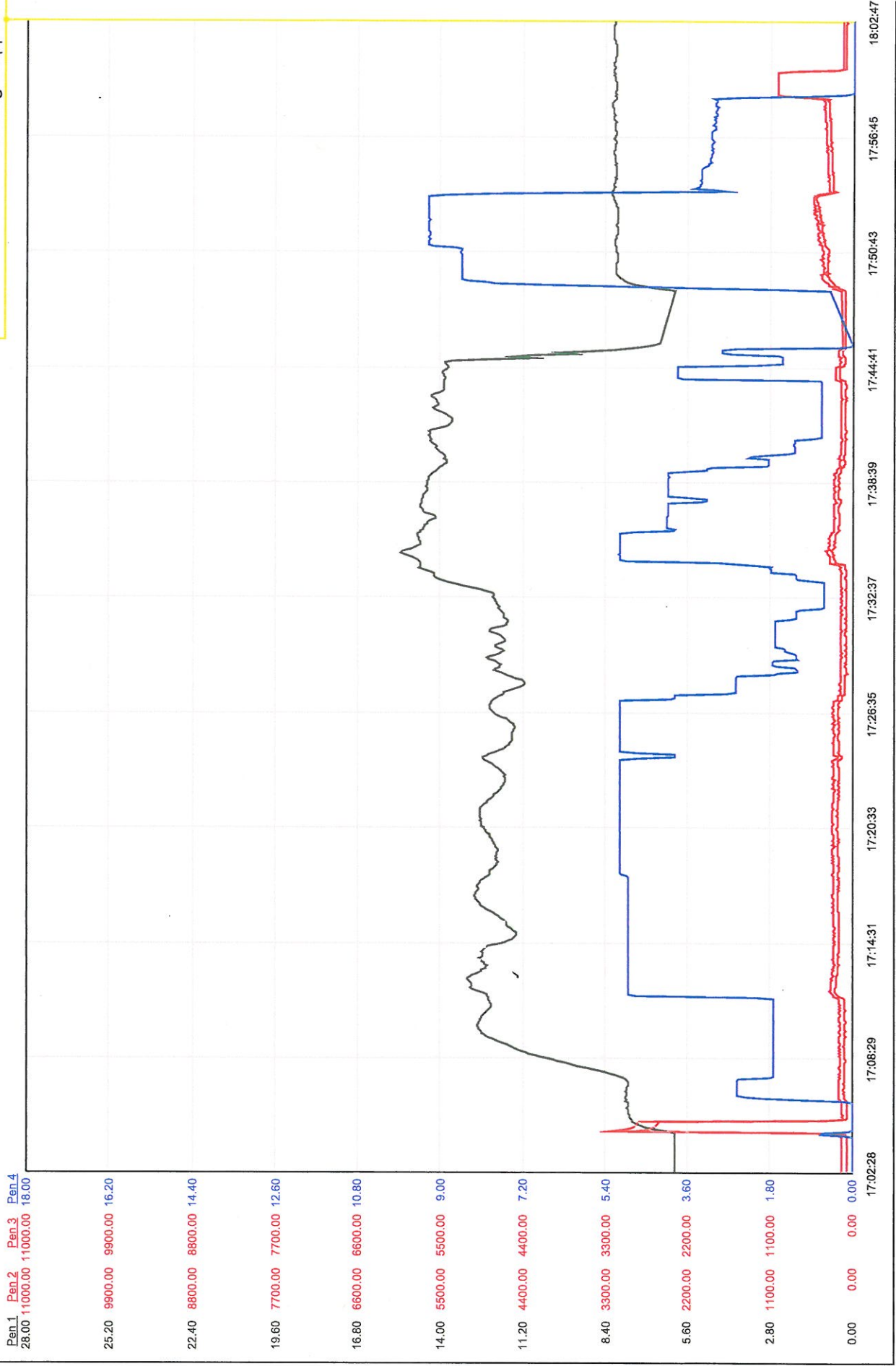
 SIGNATURE



SERVICE COMPANY: O-Tex
 TICKET NO: SOK 4350
 DATE RECORDED: 10/18/2014
 CUSTOMER NAME: Tapstone Energy
 JOB NO: SOK 4350
 UNIT DESCRIPTION: Unit #303
 WELL NAME: Roberts 27349 1H
 UNIT NOTES: 9 5/8" Surface
 WELL LOCATION: Harper Co. KS
 FILE NAME: Tapstone Energy_Roberts 27349 1H_14_10_18_#1.csv

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

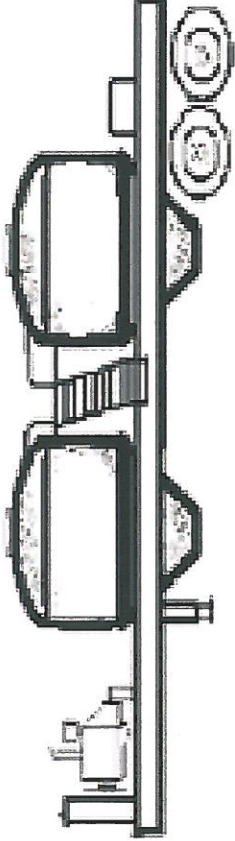
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Job Data Sheet



COMPANY Tapstone Energy		PROJECT NUMBER SOK 4350		AFEWK ORDER 0		DATE 10/18/2014		
CONTRACTOR Unit #303		Owner Same		LEGAL DESCRIPTION 27/34S/9W		API 15-077-22099-01-00		
LEASE & WELL # Roberts 27-34-9 1H		COUNTY Harper		STATE Kansas		MILEAGE 100		
DIRECTIONS <b style="text-align: center;">HWY 58 & STATE LINE- 4.5 MILES NORTH- 1 MILE EAST								
Pumping Services	<input checked="" type="checkbox"/> Surface		<input type="checkbox"/> Intermediate		<input type="checkbox"/> Long String		<input type="checkbox"/> Plug Back	
	<input type="checkbox"/> Squeeze		<input type="checkbox"/> Acid		<input type="checkbox"/> PTA		<input type="checkbox"/> Other	
							() H2S	
	Casing Size	Casing Weight	Thread	Tbng/DP Size	Thread	Plug. Cont.	Swage	% Excess
	9 5/8"	36#	LTC			YES	YES	150%
Number and Type Units Pump Truck & Bulk Materials						Casing Depth	Hole Depth	Hole Size
						786'	786'	12 1/4"
Remarks						Est. BHST	Tubing Depth	Depth-TVD
						80°		WBM
Materials	LEAD	# of Sacks	Type		Additives			
	84.13	235	O-TEX Lite Premium Plus 65/35		(6% Gel) 2% Calcium Chloride - 1/4pps Cello-Flake - 0.2% X-Air			
	H2O TO MIX	Weight PPG	Yield Ft3/Sk	Water Gal/Sk				
	62.16	12.40	2.01	11.11				
	TAIL	# of Sacks	Type		Additives			
	31.74	135	Premium Plus (Class C)		2% Calcium Chloride - 1/4pps Cello-Flake			
	H2O TO MIX	Weight PPG	Yield Ft3/Sk	Water Gal/Sk				
	20.31	14.80	1.32	6.32				
	TOP OUT	# of Sacks	Type		Additives			
	H2O TO MIX	Weight PPG	Yield Ft3/Sk	Water Gal/Sk				
	ACID	Type		Additives				
	Inhibitor	Surfactant	clay cont.	TAKE 50 # Sugar				
	Spacer or Flush	Quantity	Type		Additives			
		10 BBL	Fresh Water					
	Spacer or Flush	Quantity	Type		Additives			
	Other	Quantity	Type		Additives			
Crew Called	Cementer	Pumper	Bulky	Bulky	Bulky			
	Joseph Klemm	Cody Bonitz	Josh Davis					
CEOL	9 5/8" 8RD SWAGE, SW, DW, 3 BALES							
Sales Items	Casing Size	9 5/8"	Casing Weight	36#	Thread	LTC		
	Guide Shoe		Float Shoe		Float Collar	Insert Float Valve		
	Centralizers - Number		Size		Type			
	Wall Cleaners - Number		Type		MSC (DV Tool)	MSC Plug Set		
	Limit Clamps		Thread lock		Other			
	Remarks							
Customer Rep.	Cell Phone	Office Phone	Fax	Time of Call				
Dale	713-758-0636							
Call Taken By						Date Ready	Location Time	
Jared Sisco						10/18/14	1100 AM	
Crew Called						Yard Time		
Joseph Klemm						10/18/2014 800 AM		



Trailer Number: 87830/24223

Driver Name _____

**Front Pot
LEAD**

Cement 65/35 CLASS C/POZ

235 sks

CEMENT ADDITIVES

6% GEL	
2% CALCIUM	2% CALCIUM
1/4 PPS FLAKE	1/4 PPS FLAKE
.2% X Air P	

**Rear Pot
TAIL**

Cement CLASS C

135 sks

COMPANY: Tapstone DATE: 10/17/2014

LEASE: Roberts 37-34-9 1H TICKET: SOK 4350



Job Site Safety Meeting Attendance Sheet

Date: 10/18/2014

Job Site Leader: Joseph Klemm

Max Pressure: 3,000 PSI

Company - Lease - Well #: Tapstone Energy / Roberts27-34-9 1H

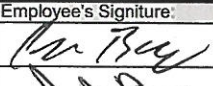
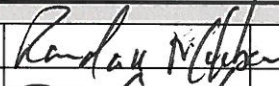
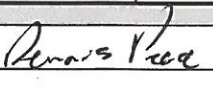


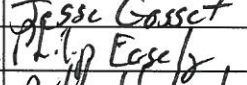
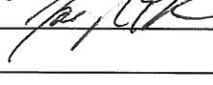
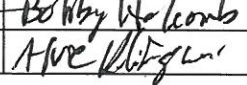




Ticket #: SOK 4350

	Employee Name *** Please Print ***	Employee Number	Unit Number	Trailer Number	Unit Type	Location	Company Name
1	Joseph Klemm		51663	31396	Pickup	Fairview,OK	O-Tex
2	Cody Bonitz		32504	11800	Pump	Fairview,OK	O-Tex
3	Josh Davis		87830	24223	Bulk	Fairview,OK	O-Tex
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Job Site Safety Leader: Joseph Klemm

Report all Minor Injuries, Accidents, Vehicle Accidents or Environmental Spills Immediately.

O-Tex Pumping LLC

Job Safety Analysis Worksheet		DATE:	10/18/2014
LEASE NAME AND JOB TYPE:		Roberts 37-34-9 1H 0	JOB NUMBER: SOK 4350
EMPLOYEE NAME AND JOB TITLE:		Joseph Klemm SUPERVISOR	Company: Tapstone Energy Rig: Unit #303
PERSONAL PROTECTIVE EQUIPMENT RECOMMENDED OR REQUIRED:			
HARD HAT / STEEL TOED BOOTS / SAFETY GLASSES / EAR PLUGS / GLOVES / COVERALLS			
SEQUENCE OF BASIC JOB STEPS	POTENTIAL ACCIDENTS OR HAZARDS	RECOMMENDED SAFE JOB PROCEDURES	
ASSESS LOCATION FOR POTENTIAL HAZARDS	SLIPS - TRIPS - FALLS	PAY ATTENTION TO SURROUNDINGS	
SAFETY HUDDLE TO DISCUSS HAZARDS AND POTENTIAL HAZARDS WHILE SPOTTING EQUIPMENT	NOT UNDERSTANDING OR HEARING JOB STEPS	SPEAK LOUD AND CLEAR - PAY ATTENTION - ASK QUESTIONS	
SPOT EQUIPMENT	BACKING INTO OR OVER SOMETHING OR SOMEONE	USE SPOTTERS AND MIRRORS - BACK SLOW - WATCH SPOTTER	
RIG UP IRON AND HOSES	SLIPS - TRIPS - FALLS - PINCH POINTS	PAY ATTENTION - DON'T RUSH OR TAKE SHORTCUTS - ASK FOR HELP IF NEEDED	
PRIME PUMPS	LEAKS - PINCH POINTS	WATCH HAND AND FOOT PLACEMENT - CHECK FOR LEAKS - WATCH PRESSURE	
RAISE STAND PIPE TO RIG FLOOR - RIG UP FLOOR	SLIPS - TRIPS - FALLS - OBJECTS FALLING - PINCH POINTS	DON'T TAKE SHORT CUTS - PAY ATTENTION TO TASK AT HAND - USE HAND RAILS WHEN GOING UP OR DOWN RIG STAIRS - DON'T GET UNDER OBJECTS BEING RAISED OR LOWERED - WATCH HAND AND FOOT PLACEMENT	
STAB PLUG CONTAINER OR DRILL PIPE PIN	SLIPS - TRIPS - FALLS - PINCH POINTS - DROPPED OBJECTS	WATCH HAND AND FOOT PLACEMENT - MAKE SURE ALL TOOLS ARE PROPERLY TIED OFF WHILE WORKING OVER HEAD - MAKE SURE LOADS ARE SECURE BEFORE LIFTING IN AIR - DON'T GET BETWEEN OBJECTS BEING LIFTED	
TEST LINES	LINES LEAKING OR EXPLODING	STAY CLEAR OF LINES WHILE UNDER PRESSURE - NEVER HAMMER ON IRON WITH PRESSURE ON IT!!!	
PUMP FLUIDS	LEAKS - PUMPING WRONG FLUID - VALVES CLOSED - PINCH POINTS	START PUMPING SLOWLY - WATCH FOR LEAKS OR RAPID PRESSURE INCREASE - WATCH HAND AND FOOT PLACEMENT - PAY ATTENTION TO YOUR JOB DUTIES	
RIG DOWN IRON	SLIPS - TRIPS - FALLS - DROPPED OBJECTS - PINCH POINTS	WATCH HAND AND FOOT PLACEMENT. DON'T WALK UNDER LOADS BEING LOWERED OR RAISED. DON'T THROW HAMMERS OR HAND TOOLS. DON'T RUSH OR TAKE SHORT CUTS. WORK TOGETHER. ASK FOR HELP OR HELP SOMEONE IF THEY NEED IT	
LEAVE LOCATION	RUNNING INTO OR OVER SOMETHING OR SOMEONE. OBJECTS FALLING FROM TRUCKS. FALLING ASLEEP WHILE DRIVING.	USE SPOTTER IF NEEDED. MAKE SURE ALL EQUIPMENT IS SECURE BEFORE MOVING TRUCK. WALK AROUND BEFORE GETTING IN CAB. IF YOU ARE TOO TIRED TO DRIVE, TAKE A NAP BEFORE LEAVING LOCATION. STOP IF YOU BECOME TOO SLEEPY AND CAN'T CONTINUE .	
Employee's Signature:			
			
			
			
			
			

<h1 style="margin: 0;">JOB SUMMARY</h1>			PROJECT NUMBER SOK 4366	TICKET DATE 10/23/14
COUNTY Harper	State Kansas	COMPANY Tapstone Energy	CUSTOMER REP 0	
LEASE NAME Roberts 27-34-9	Well No. 1H	JOB TYPE Intermediate	EMPLOYEE NAME Marcos Quintana	

EMP NAME Marcos Quintana	0				
vontray					
jacob jackson					
josh davis					

Form. Name _____ Type: _____

Packer Type _____ Set At **0**

Bottom Hole Temp. **155** Pressure _____

Retainer Depth _____ Total Depth **5081**

Date	Called Out	On Location	Job Started	Job Completed
	10/23/2014	10/23/2014	10/23/2014	10/23/2014
Time	0400	0900	1035	1211

Tools and Accessories		
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
Casing		26#	7"		Surface	
Liner						
Liner						
Tubing			0			
Drill Pipe						
Open Hole				8 3/4"	Surface	5,110
Perforations						Shots/Ft.
Perforations						
Perforations						

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

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
10/23	5.0	10/23	2.0	Intermediate
Total	5.0	Total	2.0	

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

Other _____

Other _____

Pressures	
MAX 5,000 PSI	AVG. 500
Average Rates in BPM	
MAX 8 BPM	AVG 5
Cement Left in Pipe	
Feet 83	Reason SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	145	50/50 POZ PREMIUM	4% Gel - 0.2% FL-17 - 0.1% C-51 - 0.1% C-20 - 0.1% C-37 - 0.2% X-Air	6.93	1.43	13.60
2	90	Premium	0.2% FL-17 - 0.1% C-51 - 0.1% C-20 - 0.2 X-Air	5.19	1.19	15.60
3	0	0		0	0.00	0.00

Summary					
Preflush Breakdown	10	Type: _____	Preflush: BBI	30.00	Type: Gel Spacer
		MAXIMUM	Load & Bkdn: Gal - BBI	N/A	Pad: Bbl - Gal N/A
		Lost Returns-N	Excess /Return BBI	N/A	Calc. Disp Bbl 192
		Actual TOC	Calc. TOC:	3,110	Actual Disp. 192.00
Average		Bump Plug PSI:	Final Circ. PSI:	1,000	Disp: Bbl _____
ISIP	5 Min.	10 Min.	Cement Slurry: BBI	56.0	
		15 Min.	Total Volume BBI	278.00	

CUSTOMER REPRESENTATIVE _____ SIGNATURE _____

Job Data Sheet



COMPANY Tapstone Energy		PROJECT NUMBER SOK 4366	A/FEWORK ORDER 0	DATE 10/23/2014	
CONTRACTOR Unit #303		Owner Same	LEGAL DESCRIPTION 27/34S/9W	API 15-077-22099-01-00	
LEASE & WELL # Roberts 27-34-9 1H		COUNTY Harper	STATE Kansas	MILEAGE 100	
DIRECTIONS HWY 58 & STATE LINE NORTH OF BYRON OK - 4.5 MILES NORTH - 1 MILE EAST					
Pumping Services	<input type="checkbox"/> Surface <input checked="" type="checkbox"/> Intermediate <input type="checkbox"/> Long String <input type="checkbox"/> Plug Back <input type="checkbox"/> Squeeze <input type="checkbox"/> Acid <input type="checkbox"/> PTA <input type="checkbox"/> Other () H2S				
	Casing Size	Casing Weight	Thread	Tbna/DP Size	
	7"	26#	LTC		
	Number and Type Units	Plug Cont.	Swage	Top Plug	
	Pump Truck & Bulk Materials	YES	YES	YES	
	Bottom Plug	% Excess			
	NO	40%			
	Casing Depth	Hole Depth	Hole Size		
	5,081	5,110	8 3/4"		
Remarks	Est. BHST	KOP	Depth-TVD		
	155		9.2ppg WBM		
Materials	LEAD	# of Sacks	Type	Additives	
	36.93	145	50/50 POZ PREMIUM	4% Gel - 0.2% FL-17 - 0.1% C-51 - 0.1% C-20 - 0.1% C-37 - 0.2% X-Air	
	H2O TO MIX	Weight PPG	Yield Ft3/Sk		Water Gal/Sk
	23.93	13.60	1.43		6.93
	TAIL	# of Sacks	Type	Additives	
	19.07	90	Premium	0.2% FL-17 - 0.1% C-51 - 0.1% C-20 - 0.2 X-Air	
	H2O TO MIX	Weight PPG	Yield Ft3/Sk		Water Gal/Sk
	11.12	15.60	1.19		5.19
		# of Sacks	Type	Additives	
		Weight PPG	Yield Ft3/Sk	Water Gal/Sk	
		ACID	Type	Additives	
		Inhibitor	Surfactant	clay cont.	
	Spacer or Flush	Quantity	Type	Additives	
		30 bbls	Gel Spacer	900#s Bentonite Gel	
	Displace	Quantity	Type	Additives	
Other	Quantity	Type	Additives		
Crew Called	Cementer	Pumper	Bulky	Bulky	
	Marcos Quintana	vontray	jacob jackson	josh davis	
CEOL	7" 8RD SWAGE, SW, DW, BALE RACK				
Sales Items	Casing Size	Casing Weight	Thread		
	7"	26#	LTC		
	Guide Shoe	Float Shoe	Float Collar	Insert Float Valve	
	Centralizers - Number	Size	Type		
	Wall Cleaners - Number	Type	MSC (DV Tool)	MSC Plug Set	
	Limit Clamps	Thread lock	Other		
Remarks	TAKE 7" TOP & BOTTOM PLUG				
Customer Rep.	Cell Phone	Office Phone	Fax	Time of Call	
0	0				
Call Taken By				Date Ready	
Jared Sisco					
Crew Called				Location Time	
Marcos Quintana					
				Yard Time	

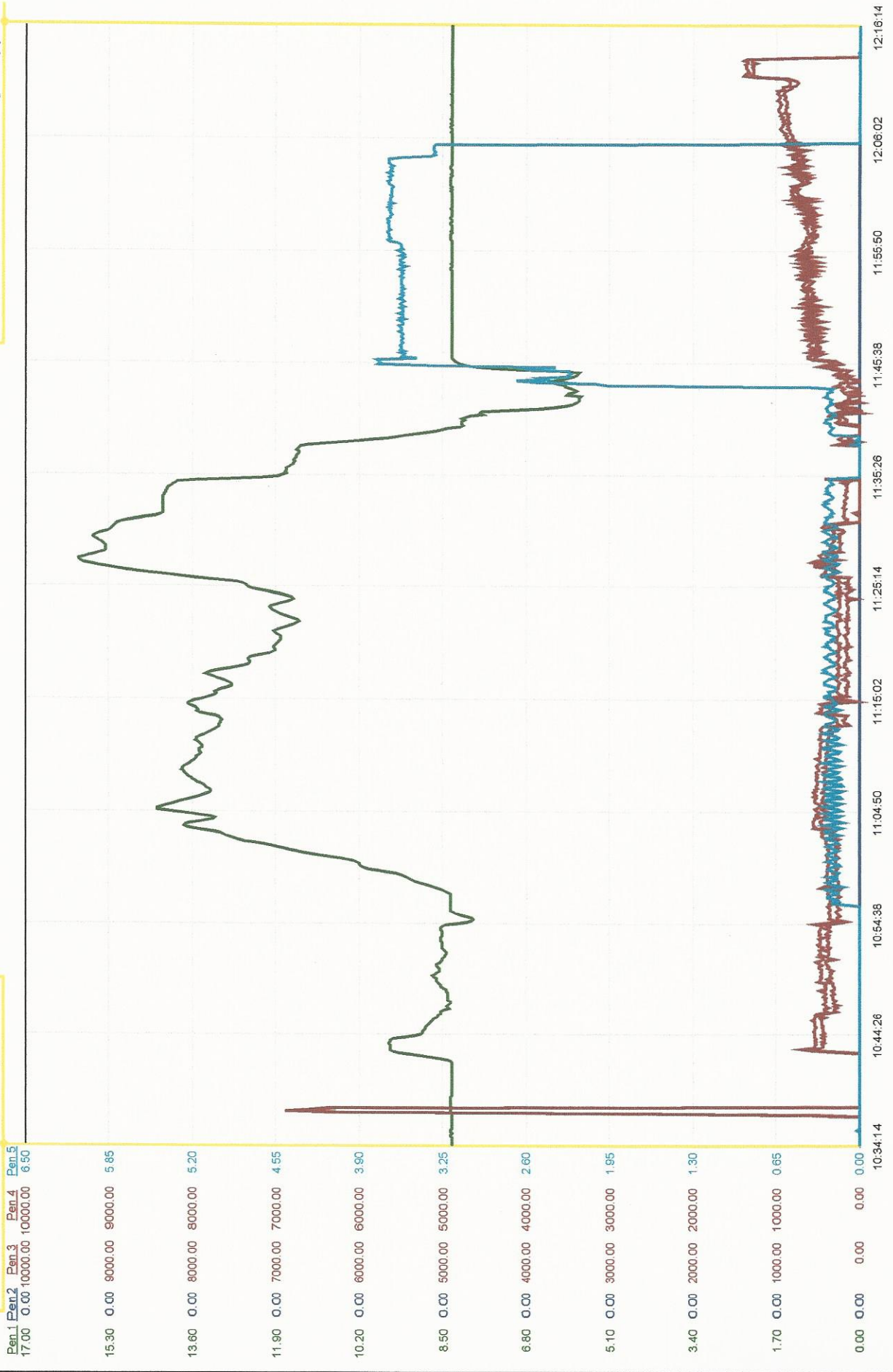


SERVICE COMPANY: O-tex pumping
 TICKET NO: 4366
 CUSTOMER NAME: Tapstone Energy
 WELL NAME: Roberts 27-34-9 1H
 WELL LOCATION: Harper Co KS
 DATE RECORDED: 10/23/2014
 JOB NO: JobNumber
 UNIT DESCRIPTION: UnitDescription
 UNIT NOTES: TreatmentNotes
 FILE NAME: CustomerName_WellName_14_10_23_#1.csv

Pen 1: Density (lb/gal) Pen 2: Density2 (Density : lb/gal) Pen 3: Pressure 1 (Pressure : psi) Pen 4: Pressure 2 (Pressure : psi) Pen 5: Flowrate 1 (Flowrate : bpm)

10:34:14 PC Data Recording Started

12:16:14 PC Data Recording Stopped



Tapstone
Roberts 27-34-9 1H
API# 15-077-22099-01-00

Vertical Section Azimuth @ 183.95 Degrees

Depth	Inc	Azm	TVD	N/-S	E/-W	VS	DLS
895.00	0.28	13.14	895	2.11	0.49	-2.14	0.03
1084.00	0.56	310.9	1083.99	3.16	-0.1	-3.14	0.26
1273.00	0.83	268.94	1272.98	3.73	-2.16	-3.58	0.3
1463.00	1.09	195.62	1462.96	1.98	-4.03	-1.69	0.61
1652.00	0.83	201.59	1651.93	-1.02	-5.01	1.36	0.15
1841.00	0.4	186.48	1840.92	-2.94	-5.59	3.32	0.24
2030.00	0.34	154.77	2029.92	-4.11	-5.42	4.48	0.11
2219.00	0.17	214.49	2218.92	-4.86	-5.34	5.22	0.16
2408.00	0.03	158.47	2407.92	-5.15	-5.49	5.51	0.08
2597.00	0.57	71.24	2596.91	-4.89	-4.57	5.19	0.3
2787.00	0.66	16.66	2786.9	-3.53	-3.36	3.76	0.3
2976.00	0.67	35.67	2975.89	-1.59	-2.4	1.75	0.12
3163.00	0.46	56.92	3162.88	-0.3	-1.14	0.38	0.15
3350.00	0.8	78.54	3349.87	0.37	0.77	-0.43	0.22
3538.00	1.2	85.81	3537.84	0.78	4.01	-1.05	0.22
3727.00	1.41	59.74	3726.79	2.09	7.99	-2.64	0.33
3821.00	0.94	74.45	3820.77	2.88	9.73	-3.54	0.59
3852.00	2.39	167.07	3851.76	2.32	10.12	-3.01	8.42
3884.00	5.83	172.64	3883.68	0.05	10.47	-0.77	10.79
3916.00	8.97	173.07	3915.41	-4.04	10.98	3.27	9.81
3947.00	11.94	175.23	3945.89	-9.63	11.54	8.81	9.66
3979.00	14.39	176.47	3977.04	-16.9	12.06	16.03	7.73
4010.00	16.52	181.28	4006.92	-25.15	12.2	24.25	8
4042.00	19.01	185.01	4037.4	-34.9	11.64	34.01	8.56
4073.00	20.61	186.36	4066.56	-45.35	10.6	44.51	5.37
4103.00	21.64	185.65	4094.54	-56.11	9.47	55.32	3.52
4135.00	24.41	183.73	4123.99	-68.58	8.46	67.83	8.96
4165.00	28.16	182.44	4150.88	-81.84	7.75	81.11	12.66
4197.00	31.56	181.93	4178.63	-97.76	7.15	97.04	10.64
4228.00	34.56	183.4	4204.61	-114.65	6.35	113.94	10.01
4259.00	36.59	183.87	4229.82	-132.65	5.21	131.97	6.63
4291.00	38.68	185.42	4255.16	-152.12	3.62	151.51	7.17
4322.00	40.49	186.21	4279.05	-171.77	1.62	171.25	6.04
4353.00	42.71	186.54	4302.23	-192.23	-0.67	191.82	7.21
4385.00	44.36	186.32	4325.43	-214.13	-3.14	213.84	5.19
4416.00	46.12	184.98	4347.25	-236.03	-5.3	235.84	6.45
4447.00	48.31	184.6	4368.31	-258.7	-7.2	258.59	7.11

4479.00	50.5	183.63	4389.13	-282.94	-8.94	282.88	7.24
4510.00	52.34	183.49	4408.46	-307.13	-10.44	307.12	5.92
4542.00	53.93	184.1	4427.66	-332.67	-12.14	332.72	5.2
4573.00	56.52	184.52	4445.34	-358.06	-14.06	358.18	8.44
4604.00	59.7	185.41	4461.71	-384.28	-16.34	384.49	10.54
4635.00	63.24	185.26	4476.52	-411.39	-18.87	411.71	11.43
4667.00	64.44	186.45	4490.62	-439.96	-21.8	440.42	5.01
4699.00	64.88	186.89	4504.32	-468.69	-25.16	469.31	1.84
4731.00	64.94	186.54	4517.89	-497.47	-28.55	498.25	1.01
4761.00	65.23	187.14	4530.53	-524.48	-31.79	525.43	2.06
4793.00	65.41	186.56	4543.89	-553.35	-35.26	554.47	1.74
4824.00	65.56	186.75	4556.75	-581.37	-38.52	582.64	0.74
4855.00	65.59	187.21	4569.57	-609.39	-41.95	610.83	1.37
4887.00	65.51	187.04	4582.81	-638.29	-45.57	639.91	0.56
4918.00	66.86	187.85	4595.33	-666.41	-49.24	668.22	4.98
4949.00	69.08	187.6	4606.95	-694.89	-53.1	696.89	7.21
4980.00	72.13	186.36	4617.25	-723.91	-56.65	726.09	10.53
5011.00	75.59	185.02	4625.86	-753.53	-59.6	755.85	11.9
5043.00	79.29	184.26	4632.82	-784.66	-62.13	787.08	11.79
5123.00	86.43	184	4642.76	-863.78	-67.84	866.4	8.93
5154.00	88.09	184.7	4644.25	-894.66	-70.19	897.37	5.8
5186.00	88.24	185.11	4645.27	-926.52	-72.92	929.35	1.39
5216.00	88.06	185.31	4646.24	-956.38	-75.65	959.32	0.92
5246.00	89.54	185.07	4646.87	-986.25	-78.36	989.31	4.99
5276.00	90.52	184.78	4646.85	-1016.14	-80.94	1019.3	3.43
5307.00	89.88	184.23	4646.74	-1047.05	-83.37	1050.3	2.75
5337.00	89.75	183.97	4646.84	-1076.97	-85.52	1080.3	0.94
5366.00	89.44	183.23	4647.04	-1105.91	-87.34	1109.3	2.77
5397.00	88.86	183.32	4647.5	-1136.86	-89.11	1140.29	1.92
5427.00	88.49	183.14	4648.2	-1166.8	-90.8	1170.28	1.37
5457.00	88.15	183.21	4649.08	-1196.74	-92.46	1200.27	1.14
5487.00	87.75	182.71	4650.15	-1226.68	-94.01	1230.24	2.14
5517.00	88.49	182.7	4651.14	-1256.63	-95.42	1260.22	2.47
5547.00	89.04	183.17	4651.79	-1286.59	-96.96	1290.21	2.44
5577.00	89.08	183.95	4652.28	-1316.52	-98.82	1320.2	2.6
5607.00	88.98	183.82	4652.79	-1346.45	-100.85	1350.2	0.54
5637.00	89.54	183.9	4653.17	-1376.38	-102.87	1380.2	1.87
5667.00	89.94	183.46	4653.31	-1406.32	-104.79	1410.2	1.98
5697.00	90.37	183.5	4653.23	-1436.26	-106.61	1440.19	1.44
5727.00	90.31	183.8	4653.05	-1466.2	-108.52	1470.19	0.99
5758.00	90.37	183.63	4652.87	-1497.14	-110.53	1501.19	0.58
5788.00	90.43	183.75	4652.66	-1527.07	-112.46	1531.19	0.45
5817.00	90.18	183.7	4652.5	-1556.01	-114.34	1560.19	0.87
5847.00	89.91	183.57	4652.48	-1585.95	-116.24	1590.19	1.02
5877.00	89.07	183.34	4652.75	-1615.89	-118.05	1620.19	2.88
5907.00	88.68	183.23	4653.33	-1645.84	-119.77	1650.18	1.38
5937.00	88.28	183.42	4654.13	-1675.78	-121.51	1680.17	1.48

5967.00	88.95	183.27	4654.86	-1705.72	-123.26	1710.16	2.32
5998.00	89.54	183.78	4655.27	-1736.66	-125.17	1741.15	2.51
6028.00	89.14	183.52	4655.61	-1766.59	-127.08	1771.15	1.58
6058.00	88.8	183.68	4656.15	-1796.53	-128.96	1801.15	1.26
6088.00	88.83	183.96	4656.78	-1826.46	-130.96	1831.14	0.94
6118.00	88.98	184.78	4657.35	-1856.36	-133.24	1861.13	2.77
6148.00	89.26	184.86	4657.81	-1886.25	-135.76	1891.13	0.97
6179.00	89.35	184.44	4658.18	-1917.15	-138.27	1922.12	1.41
6209.00	89.94	184.4	4658.37	-1947.06	-140.58	1952.12	1.95
6240.00	90.43	183.61	4658.27	-1977.98	-142.75	1983.12	3.01
6270.00	90.71	183.79	4657.97	-2007.92	-144.68	2013.12	1.12
6300.00	90.4	184.12	4657.68	-2037.85	-146.76	2043.11	1.5
6330.00	89.81	184.17	4657.62	-2067.77	-148.93	2073.11	1.96
6360.00	89.91	184.27	4657.7	-2097.69	-151.13	2103.11	0.45
6390.00	90	184.75	4657.72	-2127.59	-153.49	2133.11	1.64
6420.00	89.97	183.85	4657.73	-2157.51	-155.74	2163.11	3.03
6450.00	90.18	183.18	4657.69	-2187.45	-157.58	2193.11	2.33
6480.00	90.43	183.31	4657.53	-2217.4	-159.28	2223.11	0.93
6510.00	90.55	183.04	4657.27	-2247.36	-160.94	2253.1	0.99
6540.00	90.62	183.09	4656.96	-2277.31	-162.55	2283.1	0.27
6570.00	90.49	182.64	4656.67	-2307.27	-164.05	2313.09	1.56
6600.00	90.37	182.32	4656.45	-2337.24	-165.35	2343.08	1.15
6631.00	90.4	182.16	4656.24	-2368.22	-166.56	2374.07	0.53
6660.00	90.34	181.78	4656.05	-2397.2	-167.56	2403.05	1.34
6690.00	90.06	182.03	4655.95	-2427.18	-168.55	2433.03	1.25
6720.00	89.57	181.93	4656.04	-2457.17	-169.59	2463.01	1.68
6751.00	89.23	182.54	4656.37	-2488.14	-170.8	2494	2.27
6810.00	89.66	182.77	4656.94	-2547.07	-173.53	2552.98	0.83
6871.00	89.54	183.11	4657.37	-2607.99	-176.66	2613.97	0.6
6932.00	89.97	184.12	4657.63	-2668.87	-180.5	2674.96	1.79
6995.00	89.75	184.76	4657.78	-2731.68	-185.38	2737.96	1.07
7026.00	88.65	184.71	4658.21	-2762.57	-187.94	2768.95	3.58
7058.00	88.55	185.01	4659	-2794.45	-190.64	2800.94	0.99
7089.00	88.71	184.33	4659.74	-2825.33	-193.17	2831.93	2.24
7120.00	88.83	184.47	4660.41	-2856.24	-195.55	2862.92	0.59
7152.00	88.21	184.17	4661.23	-2888.13	-197.96	2894.91	2.15
7184.00	88.09	183.71	4662.27	-2920.04	-200.15	2926.89	1.47
7215.00	88.21	184	4663.27	-2950.96	-202.23	2957.88	1
7247.00	88.86	183.65	4664.08	-2982.87	-204.37	2989.87	2.29
7278.00	89.41	183.67	4664.55	-3013.81	-206.35	3020.86	1.79
7310.00	89.51	183.7	4664.85	-3045.74	-208.4	3052.86	0.29
7341.00	89.45	183.01	4665.13	-3076.68	-210.22	3083.86	2.22
7373.00	89.75	182.94	4665.36	-3108.64	-211.88	3115.85	0.99
7404.00	90.03	183.08	4665.42	-3139.6	-213.51	3146.85	1
7436.00	90.12	182.92	4665.37	-3171.55	-215.18	3178.84	0.6
7466.00	90.65	183.6	4665.17	-3201.5	-216.89	3208.84	2.86
7498.00	90.22	184.1	4664.93	-3233.43	-219.04	3240.84	2.08

7529.00	90.15	184.01	4664.83	-3264.35	-221.23	3271.84	0.36
7561.00	89.6	184.26	4664.9	-3296.27	-223.53	3303.84	1.88
7592.00	88.06	183.85	4665.53	-3327.18	-225.72	3334.83	5.14
7624.00	87.65	184.41	4666.73	-3359.08	-228.03	3366.81	2.16
7655.00	87.31	184.17	4668.09	-3389.96	-230.34	3397.78	1.35
7687.00	87.47	184.27	4669.55	-3421.84	-232.69	3429.74	0.59
7718.00	87.56	183.91	4670.9	-3452.73	-234.9	3460.71	1.22
7750.00	87.72	183.65	4672.21	-3484.64	-237.01	3492.69	0.92
7781.00	87.91	183.97	4673.4	-3515.55	-239.07	3523.66	1.18
7813.00	88.12	183.43	4674.51	-3547.46	-241.13	3555.64	1.8
7844.00	88.06	183.45	4675.54	-3578.39	-242.99	3586.63	0.21
7875.00	88.34	183.57	4676.52	-3609.31	-244.89	3617.61	0.97
7907.00	88.71	183.76	4677.34	-3641.24	-246.93	3649.6	1.31
7938.00	89.69	183.05	4677.77	-3672.18	-248.77	3680.59	3.93
7970.00	90.03	183.04	4677.85	-3704.13	-250.47	3712.59	1.06
8002.00	89.97	183.14	4677.85	-3736.09	-252.19	3744.59	0.36
8033.00	89.51	183.15	4677.99	-3767.04	-253.9	3775.58	1.49
8096.00	89.35	183.38	4678.62	-3829.94	-257.48	3838.57	0.44
8127.00	89.69	183.69	4678.88	-3860.88	-259.39	3869.57	1.48
8159.00	88.64	183.1	4679.34	-3892.82	-261.29	3901.57	3.76
8190.00	88.89	182.96	4680.01	-3923.77	-262.92	3932.56	0.92
8222.00	88.77	183.19	4680.67	-3955.71	-264.64	3964.55	0.84
8253.00	89.05	182.94	4681.26	-3986.66	-266.3	3995.54	1.21
8285.00	89.97	181.98	4681.53	-4018.63	-267.67	4027.52	4.18
8317.00	89.6	181.66	4681.65	-4050.61	-268.69	4059.5	1.52
8348.00	89.04	182.87	4682.02	-4081.59	-269.91	4090.48	4.28
8379.00	87.91	184	4682.85	-4112.52	-271.77	4121.47	5.17
8411.00	87.87	183.88	4684.02	-4144.42	-273.97	4153.45	0.37
8442.00	87.99	183.52	4685.14	-4175.34	-275.97	4184.43	1.25
8474.00	87.71	183.78	4686.34	-4207.25	-278	4216.41	1.2
8505.00	87.87	183.86	4687.53	-4238.16	-280.06	4247.38	0.58
8537.00	87.87	184.82	4688.72	-4270.04	-282.48	4279.36	3.02
8568.00	88.55	185.19	4689.69	-4300.91	-285.19	4310.34	2.5
8600.00	88.67	184.9	4690.46	-4332.78	-288	4342.32	0.97
8631.00	89.75	184.03	4690.89	-4363.68	-290.41	4373.32	4.49
8663.00	89.63	184.82	4691.06	-4395.58	-292.88	4405.32	2.5
8695.00	88.61	185.22	4691.55	-4427.46	-295.68	4437.31	3.42
8730.00	88.3	185.82	4692.5	-4462.28	-299.04	4472.28	1.93
8757.00	88.21	186.19	4693.32	-4489.12	-301.87	4499.25	1.42
8793.00	88.67	186.05	4694.29	-4524.9	-305.7	4535.21	1.34
8821.00	90.37	184.82	4694.53	-4552.77	-308.35	4563.2	7.48
8884.00	90.52	184.51	4694.04	-4615.56	-313.48	4626.19	0.54
8947.00	90.06	184.78	4693.71	-4678.36	-318.58	4689.19	0.85
8993.00	90.06	184.78	4693.66	-4724.2	-322.42	4735.18	0

Motor Yield

9.46
10.81
11.88
13.23
10.1
11.5
12.2
7.6
8.07
15.1
14.5
14.81
14.76
12.05
12.74
12.52
13.12
10.36
9.08
9.6

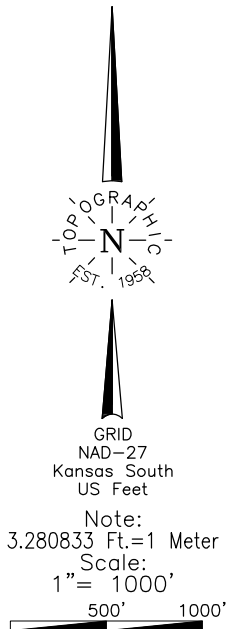
TOPOGRAPHIC LAND SURVEYORS

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
 Certificate of Authorization No. LS-99, Exp. Dec. 31, 2015

HARPER

County, Kansas

200'FNL-1570'FEL Section 27 Township 34S Range 9W P.M.



X 2060530
Y 150488

X 2063192
Y 150484

X 2065854
Y 150481

X 2060570
Y 147834

X 2065902
Y 147839

X 2060609
Y 145167

X 2063282
Y 145173

X 2065954
Y 145179

X 2060647
Y 142520

X 2065999
Y 142540

X 2060685
Y 139875

X 2063365
Y 139887

X 2066044
Y 139901

22

27

PENETRATION POINT (4955' MD)
900'FNL-1636'FEL (SEC 27)
900'FNL-1038'FWL (UNIT LINE)
37.062684088° N
98.279536219° W
X= 2064334
Y= 144275

TOP PERF (5110' MD)
1051'FNL-1652'FEL (SEC 27)
1051'FNL-1022'FWL (UNIT LINE)
37.062271074° N
98.279582415° W
X= 2064321
Y= 144124

BOTTOM HOLE (8993' MD)
360'FSL-1973'FEL (SEC 27)
360'FSL-706'FWL (UNIT LINE)
37°03'05.9" N
98°16'49.8" W
37.051635147° N
98.280489244° W
X= 2064065
Y= 140251

Roberts 27-34-9 1H (As-Drilled)

Operator: TAPSTONE ENERGY
Lease Name: ROBERTS 27-34-9

Topography & Vegetation Location fell in level pasture ±230' West of fence N-S & 210' East of low drainage area.

ELEVATION:
1270' Gr. at stake

Good Drill Site? Yes
Best Accessibility to Location From North off county road.
Distance & Direction from Hwy Jct or Town From Road 295 at State Line, go North ±4.5 miles, then ±1 mile East to the NE corner of Section 27, T34S-R9W.

Reference Stakes or Alternate Location
Stakes Set None

DATUM: NAD-27
LAT: 37°03'52.6"N
LONG: 98°16'45.6"W
LAT: 37.064607616°N
LONG: 98.279346218°W
STATE PLANE COORDINATES (US FEET):
ZONE: KS SOUTH
X: 2064387
Y: 144975

234088 Date of Drawing: Nov. 05, 2014
Invoice # 230410A Date Staked: Sep. 25, 2014 JP

FINAL AS-DRILLED PLAT

AS-DRILLED INFORMATION
FURNISHED BY TAPSTONE ENERGY