



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1212769  
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: \_\_\_\_\_

1212769

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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# CEMENTING LOG

STAGE NO.

Date: 5/12/14  
 District: Mod. Loc. KS  
 Company: Topstone  
 Lease: Chain Land  
 County: Harper  
 Location: W. Harkton KS  
 Well No.: 3509-1-2  
 Rig: Nomal #14  
 Ticket No.: 62386

CASING DATA:  
 Conductor  PTA  Squeeze  Misc  
 Surface  Intermediate  Production  Liner  
 Size: 9 5/8" Type: Weight: 36 Collar

Casing Depths: Top: Bottom: 818

Drill Pipe: Size: Weight: 12 1/4 Collars  
 Open Hole: Size: T.D. ft. P.B. to ft.

CAPACITY FACTORS:  
 Casing: Bbs/Lin. ft. 12.93 Lin. ft./Bbl. 12.93  
 Open Holes: Bbs/Lin. ft. Lin. ft./Bbl.  
 Drill Pipe: Bbs/Lin. ft. 17.9272 Lin. ft./Bbl. 17.9272  
 Annulus: Bbs/Lin. ft. Lin. ft./Bbl.  
 Perforations: From ft. to ft. Amt.

COMPANY REPRESENTATIVE: *Allyson Dreyer*

CENTER: Jason Thimmesch

CEMENT DATA:  
 Spacer Type: Fresh H<sub>2</sub>O  
 Amt.: Sks Yield: ft<sup>3</sup>/sk Density: PPG  
 LEAD: Pump Time: hrs. Type: 65:35:6% Goh  
 Excess: 2% cc + 1/4 # Floccul  
 Amt.: Sks Yield: 255 ft<sup>3</sup>/sk Density: 1.87 PPG  
 TAIL: Pump Time: hrs. Type: Class A + 2% cc +  
 Excess: 1/4 # Floccul  
 Amt.: Sks Yield: 150 ft<sup>3</sup>/sk Density: 1.20 PPG  
 WATER: Lead 1005 gals/sk Tail 5.22 gals/sk Total  
 Pump Trucks Used: 892/555  
 Bulk Equip. 702

REMARKS: on location, spot in Rig up. Safety meetings  
 Rig Casers Run casing  
 Rig Casers down circ on bottom  
 Safety meetings  
 Recs test  
 Ramp Rch'd  
 Mix + Ramp 1d cement slurry TOC 5. face  
 Mix + Ramp 1d cement slurry TOC 304ft  
 Slit down / Release Plug  
 Start displacement  
 10 10 10 10 10  
 250Bbl 44Bbl 45Bbl 578Bbl  
 400 500 550 900 120PM  
 108 PM 105 PM 125Bbl 200 1238PM 190 1235PM 350 1230PM 2000  
 1200 AM  
 630 AM 7:00 AM

TIME	AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	Bbls Min. RATE	REMARKS
1200 AM							
1230 PM	2000			108Bbl	10	10	Safety meetings
1235 PM	350			108Bbl	10	10	Recs test
1238 PM	190			85Bbl	5	5	Ramp Rch'd
1258 PM	200			32Bbl	5	5	Mix + Ramp 1d cement slurry TOC 5. face
105 PM							Mix + Ramp 1d cement slurry TOC 304ft
108 PM	400			250Bbl	10	10	Slit down / Release Plug
	500						Start displacement
	550			44Bbl	10	10	
	900			45Bbl	2	2	Slow to Bump Plus
120 PM	900			578Bbl	0	0	Bump Plug
							Float did hold
							Cement did circulate
							Circulated 45Bbls to surface

**CEMENTING LOG**

STAGE NO.

Date: 5/14  
 District: Mad. Lp. KS  
 Ticket No.: 62389  
 Company: Tapscon  
 Lease: Chard  
 Well No.: 3509 1-2  
 Rig Name: 14  
 State: KS  
 Location: V. Hill, KS  
 Field: 1-355-9

CASING DATA:  
 Conductor  PTA  Squeeze  Misc   
 Surface  Intermediate  Production  Liner   
 Size: 7 Type: P-110 Weight: 26 Collar

Casing Depths: Top: Bottom: 5367  
 Open Hole: Size: 8 3/4 T.D. 5290 ft. P.B. to \_\_\_\_\_  
 CAPACITY FACTORS:  
 Casing: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Open Holes: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Drill Pipe: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Annulus: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

COMPANY REPRESENTATIVE: *Shelton Stone*

TIME AM/PM PRESSURES PSI ANNULLUS TOTAL FLUID Pumped Per Time Period Bbls Min. RATE

TIME	AM/PM	PRESSURES PSI	ANNULUS	TOTAL FLUID	Pumped Per Time Period	Bbls Min.	REMARKS
9:00 PM							On line spot in Rig up running casing safety valves
2:00 AM		3500		20 BBL			Lead Balling plug Press test
2:05 AM		490		20 BBL			Ramp Profit
2:10 AM		450		35 BBL			Mix & Pump Ad cement slurry TOC 3964
2:18 AM		300		19 BBL			Mix & Pump Ad cement slurry TOC 4770 Shut down Release Plug Top
2:26 AM							Start displacement
2:30 AM		320		30 BBL			
		370		70 BBL			
		520		70 BBL			
		570		70 BBL			
		620		100 BBL			
		670		120 BBL			
		720		40 BBL			
		930		160 BBL			
		750		185 BBL			Slur to Bump Plug
		890		199 BBL			Bump Plug Release 1 BBL
		1400		199 3/4 BBL			Flout D.D. ball

CEMENT DATA:  
 Spacer Type: Super Plug  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG \_\_\_\_\_  
 LEAD: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_ Excess \_\_\_\_\_  
 FT-160 + 1% C-51 (Class A) 50:50:29G + 1.4%  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG \_\_\_\_\_  
 TALL: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_ Excess \_\_\_\_\_  
 FT-160 + 2% C-D-31 < 155 A + 8% 30%  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG \_\_\_\_\_  
 WATER: Lead \_\_\_\_\_ gals/sk Tail \_\_\_\_\_ gals/sk Total \_\_\_\_\_ Bbls. \_\_\_\_\_  
 Pump Trucks Used \_\_\_\_\_ 548/345  
 Bulk Equip. \_\_\_\_\_ 381/252

Float Equip: Manufacturer \_\_\_\_\_  
 Shoe: Type \_\_\_\_\_ Dam 301 float shoe  
 Depth \_\_\_\_\_  
 Float: Type \_\_\_\_\_ Sure Seal float collar  
 Depth \_\_\_\_\_  
 Centralizers: Quantity \_\_\_\_\_ Plugs Top \_\_\_\_\_  
 Stage Collars \_\_\_\_\_  
 Special Equip. \_\_\_\_\_  
 Disp. Fluid Type \_\_\_\_\_ Fresh H<sub>2</sub>O  
 Amt. \_\_\_\_\_ Bbls. Weight \_\_\_\_\_ PPG \_\_\_\_\_  
 Mud Type \_\_\_\_\_ Weight \_\_\_\_\_ PPG \_\_\_\_\_

CEMENTER: Jason Throck

FLUID PUMPED DATA

REMARKS

*The Road to Excellence Starts with Safety*

Sold To #:	372073	Ship To #:	2965150	Quote #:	0021881013	Sales Order #:	0901419706
Customer:	TAPSTONE ENERGY LLC	Customer Rep:	DANIEL MILLER	Well #:	1-2H	API/UMI #:	15-077-21875-01
Well Name:	CHAIN LAND -3509-	City (SAP):	ANTHONY	County/Parish:	HARPER	State:	KANSAS
Legal Description:	W2 SE SW SW-1-35S-9W-330FSL-975FWL						
Contractor:	NOMAC						
Rig/Platform Name/Num:	NOMAC 14						
Job BOM:	7524						
Well Type:	HORIZONTAL OIL						
Sales Person:	HALAMERICA\HX25353						
Srvc Supervisor:	Daniel Brisco						
<b>Job</b>							
Formation Name		Formation Depth (MD)	Top	Bottom			
Form Type							
Job depth MD		11600ft					
Water Depth							
Perforation Depth (MD)		From	To				
<b>Well Data</b>							
Description	New / Used	Size in	ID in	Weight lbm/ft	Grade	Top MD ft	Bottom MD ft
Drill Pipe		4	3.34	14		5045	
Casing	3	7	6.276	26	P-110	0	5388
Casing		4.5	4	11.6	N-80	5045	11600
Open Hole Section							
<b>Tools and Accessories</b>							
Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty
Guide Shoe	4.5	1	BKR	11600	Top Plug	4.5	1
Float Shoe					Bottom Plug		
Float Collar	4.5	1	BKR	11549.2	SSR plug set		
Insert Float					Plug Container	4.5	1
Stage Tool					Centralizers		
<b>Miscellaneous Materials</b>							
Gelling Agt	Conc		Surfactant		Conc	Acid Type	Qty
Treatment Fid	Conc		Inhibitor		Conc	Sand Type	Qty
<b>Fluid Data</b>							
Fluid #	Stage Type	Fluid Name	Qty	Qty Uom	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal
1	9.2 lb/gal Tuned Spacer III	Tuned Spacer III	0	bbl	9.2		
<b>Stage/Plug #: 1</b>							
Fluid #	Stage Type	Fluid Name	Qty	Qty Uom	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal
20.23 lbm/bbl		BARITE, BULK (100003681)					
39.73 gal/bbl		FRESH WATER					
1 lbm/bbl		FE-2 (100001615)					



# HALLIBURTON

HALLIBURTON ENERGY INSTITUTE

Tapstone Chain Land 1-2H liner

Case 1

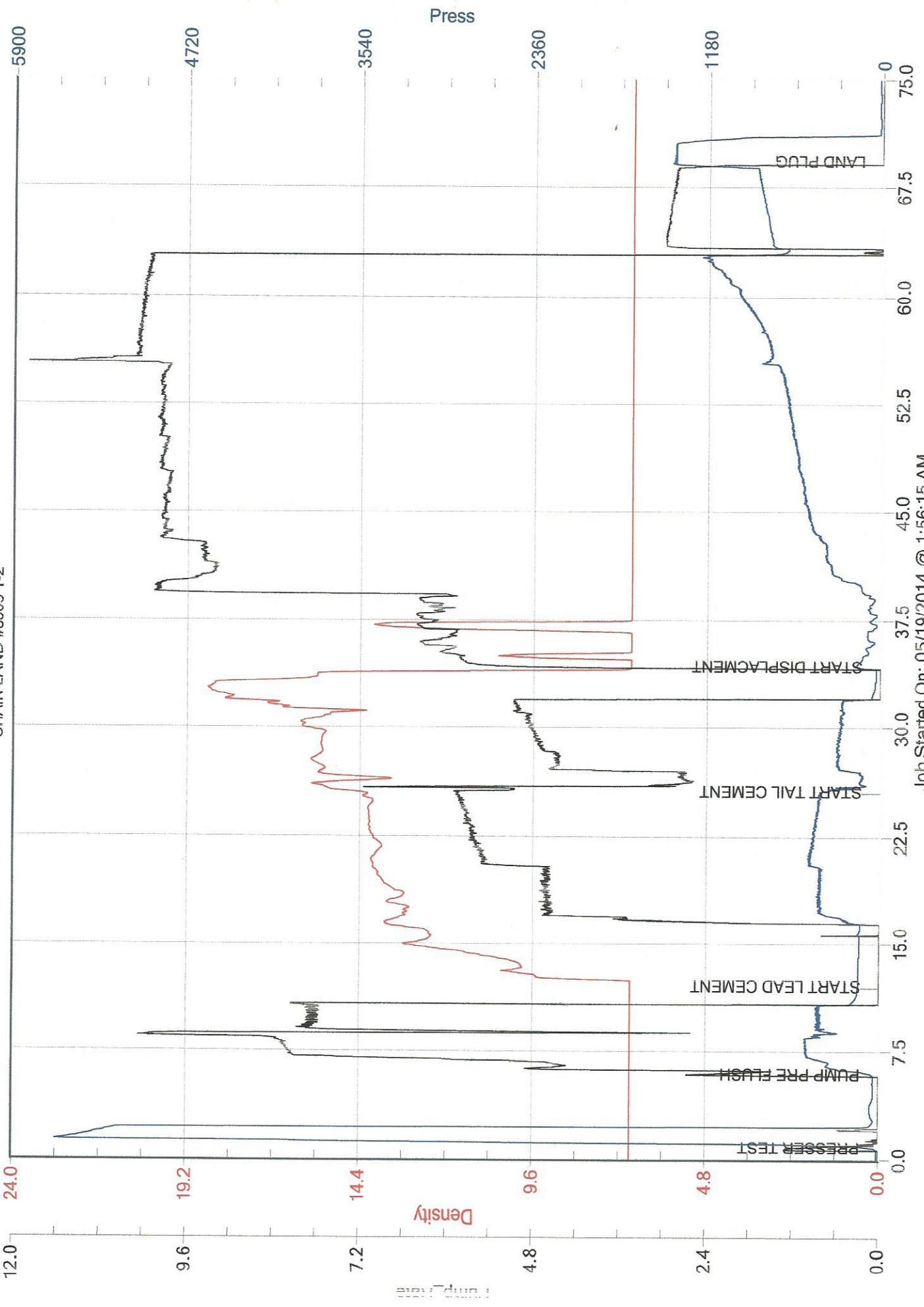
## 3.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Pass-Side Pump Pressure (psi)	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Comment
Event	1	Call Out	Call Out	6/11/2014	20:00:00	USER				
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	6/11/2014	23:00:00	USER				TALKED ABOUT THE ROUTE WE WERE GOING TO TAKE ANMD ANY STOPS WE WERE GOING TO MAKE. ALSO TALKED ABOUT THE WEATHER BECAUSE WE ARE SUPPOSE TO GET STORMS.
Event	3	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	6/11/2014	23:15:00	USER				<i>Stephan Struss</i>
Event	4	Arrive At Loc	Arrive At Loc	6/12/2014	01:30:00	USER				REQUESTED ON LOCATION AT 2:00
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	6/12/2014	02:00:00	USER				WENT OVER THE JSA AND TALKED ABOUT HOW WE WERE GOING TO RIG UP THE JOB. EXPLAINED TO THE GUYS TO WATCH THEIR STEPS WITH ALL THE MUD.
Event	6	Rig-Up Equipment	Rig-Up Equipment	6/12/2014	02:15:00	USER				TALKED TO THE COMPANY MAN ABOUT OUR SAFETY PROCEDURES AND THE JOB DETAILS. EVERYONE WAS ON THE SAME PAGE.
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	6/12/2014	03:45:00	USER	6.00	-0.07	0.00	
Event	8	Rig-Up Completed	Rig-Up Completed	6/12/2014	03:54:00	USER	6.00	-0.07	0.00	TESTED LINES TO 500 AND THEN 6000
Event	9	Test Lines	Test Lines	6/12/2014	03:57:43	COM7	2461.00	-0.09	0.00	30 BBL OF TUNE 3 SPACER AT 9.2 LB/GAL AND WE HAD 63 PSI
Event	10	Pump Spacer 1	Pump Spacer 1	6/12/2014	04:10:08	COM7	12.00	8.39	1.80	



# TAPSTONE ENERGY

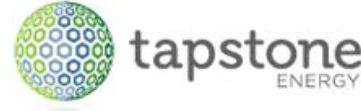
CHAIN LAND #3509 1-2



Job Started On: 05/19/2014 @ 1:56:15 AM

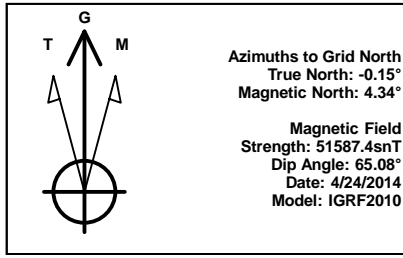


**Tapstone Energy(US Feet)**  
**Chain Land 3509 #1-2H**  
**Harper County, Ks**  
**Final**

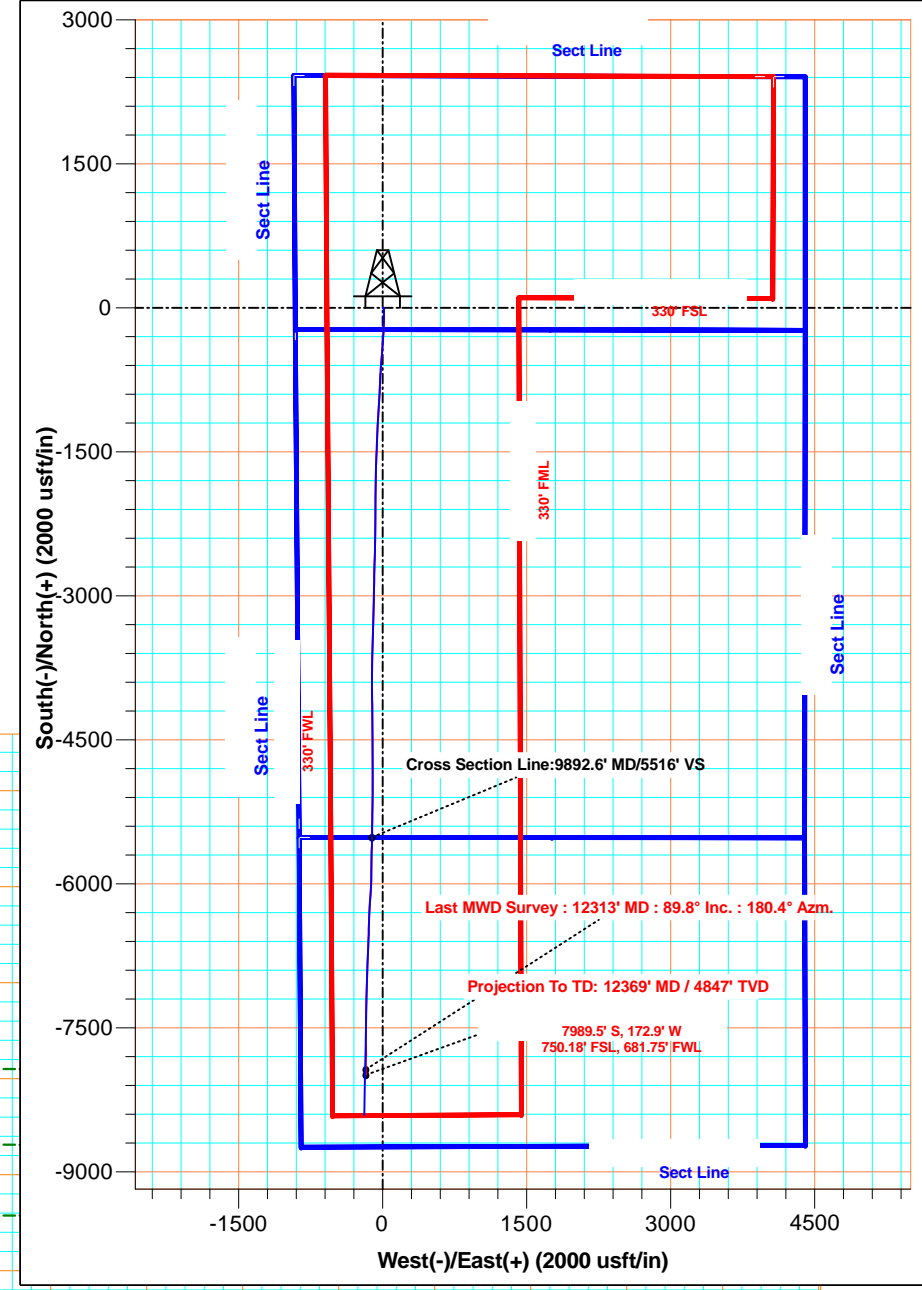
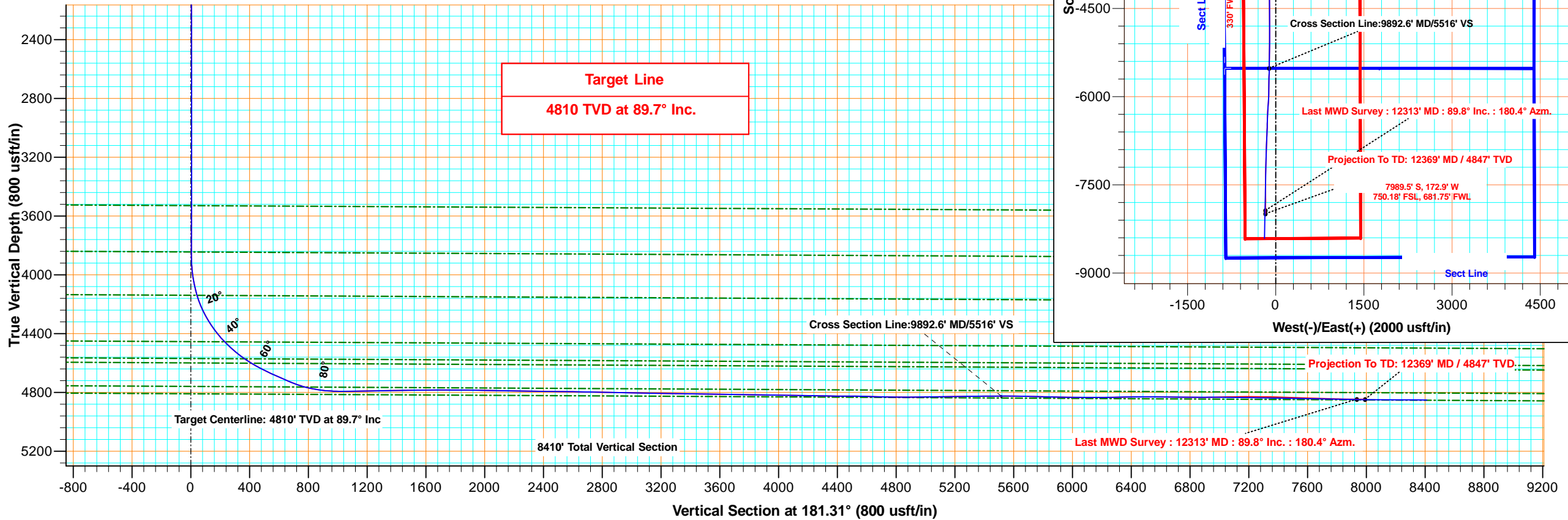


**Nomac 14**

Surface Location		Ground Elevation: 1250.0 RKB2 @ 1266.0usft (Nomac 14)				
+N-S	+E-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	129490.00	2072396.00	37° 1' 19.291 N	98° 15' 7.360 W	



Map System : US State Plane 1927 (Exact solution)  
 Datum : NAD 1927 (NADCON CONUS)  
 Ellipsoid : Clarke 1866  
 Zone Name : Kansas South 1502  
  
 Local Origin : Well #1-2H, Grid North  
 System Datum : Mean Sea Level



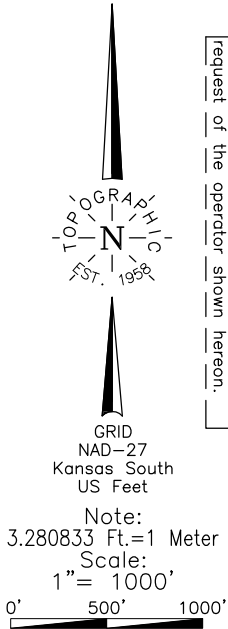
**TOPOGRAPHIC LAND SURVEYORS**

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

225'FSL-911'FWL Section 1 Township 35S Range 9W P.M.



A boundary survey of the said section(s) shown hereon was not performed per the request of the operator shown hereon.

X= 2071473  
Y= 131912

X= 2076798  
Y= 131898

X= 2071486  
Y= 129266

PENETRATION POINT  
(5118' MD) SEC 12  
522'FNL-882'FWL  
37.019975540° N  
98.252132811° W  
X= 2072372  
Y= 128744

X= 2074143  
Y= 129265

X= 2076798  
Y= 129256

TOP PERF (5400' MD)  
799'FNL-865'FWL SEC 12  
37.019212495° N  
98.252186378° W  
X= 2072357  
Y= 128466

X= 2071526  
Y= 123973

X= 2076792  
Y= 123975

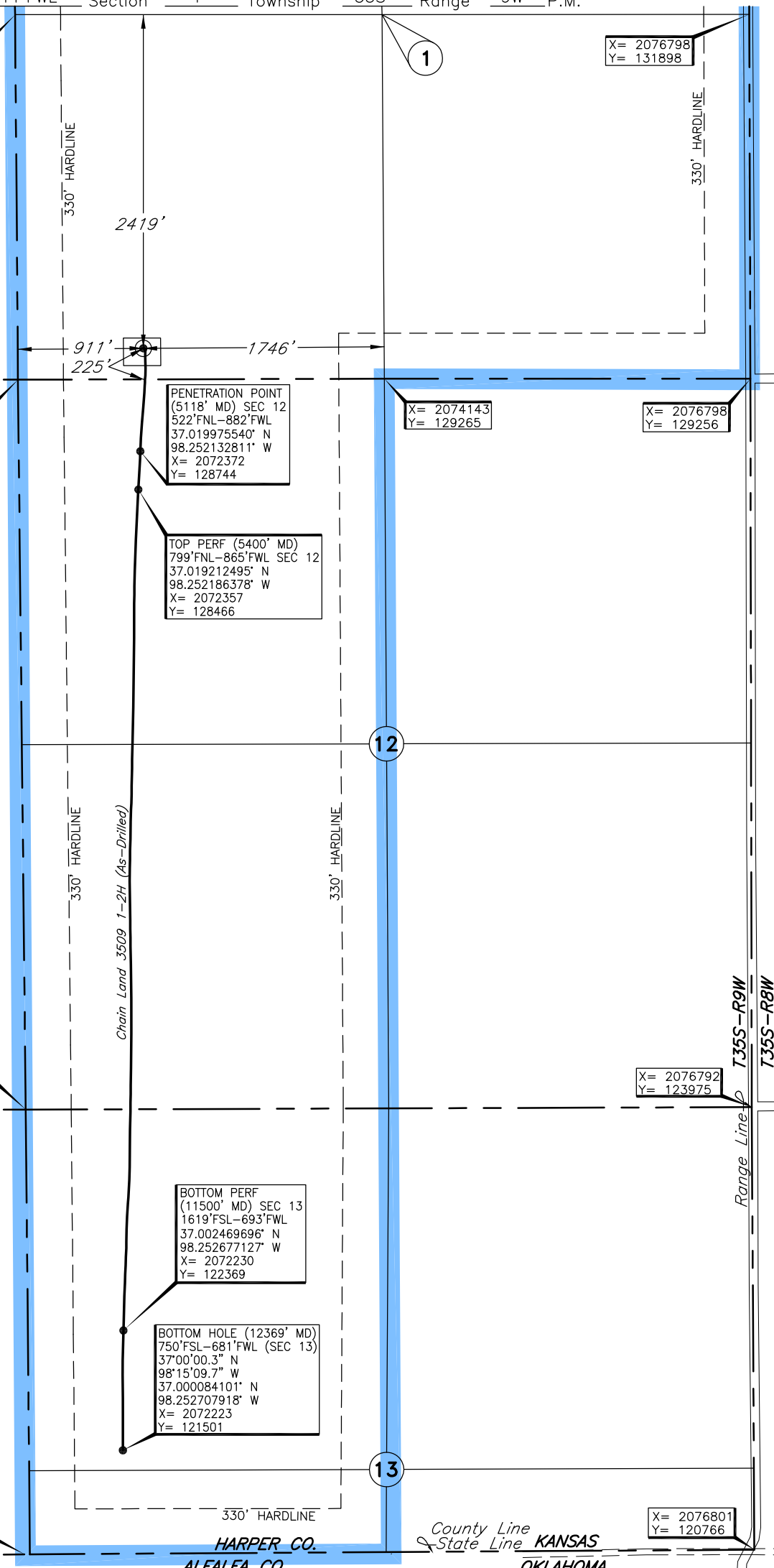
BOTTOM PERF  
(11500' MD) SEC 13  
1619'FSL-693'FWL  
37.002469696° N  
98.252677127° W  
X= 2072230  
Y= 122369

BOTTOM HOLE (12369' MD)  
750'FSL-681'FWL (SEC 13)  
37°00'00.3" N  
98°15'09.7" W  
37.000084101° N  
98.252707918° W  
X= 2072223  
Y= 121501

X= 2071546  
Y= 120748

X= 2076801  
Y= 120766

Operator: TAPSTONE ENERGY  
 Lease Name: CHAIN LAND 3509  
 Topography & Vegetation: Loc. fell at level existing pod ± 110' SW of existing well head  
 Well No.: 1-2H  
 ELEVATION: 1250' Gr. at level pod  
 Good Drill Site? Yes  
 Reference Stakes or Alternate Location: Stakes Set None  
 Best Accessibility to Location: From South off lease road  
 Distance & Direction from Hwy Jct or Town: From Jct. of St. Hwy 58 & Oklahoma & Kansas State Line, go North 0.75 mi. on on St. Hwy 58 to new lease road, then go East ±2.1 mi. NE-E on lease road to SW corner of Section 1-T35S-R9W



HARPER CO. ALFALFA CO. OKLAHOMA  
 County Line State Line KANSAS

DATUM: NAD-27  
 LAT: 37°01'19.3" N  
 LONG: 98°15'07.4" W  
 LAT: 37.022025199° N  
 LONG: 98.252043197° W  
 STATE PLANE COORDINATES: (US Feet)  
 ZONE: KS SOUTH  
 X: 2072396  
 Y: 129490

227364 Date of Drawing: Jul. 16, 2014  
 Invoice # 220478 Date Staked: Apr. 16, 2014 JP

**FINAL AS-DRILLED PLAT**

AS-DRILLED INFORMATION  
 FURNISHED BY TAPSTONE ENERGY

This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy.