



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1179371  
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: \_\_\_\_\_

1179371

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  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				

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	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

<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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Form	ACO1 - Well Completion
Operator	Trek AEC, LLC
Well Name	Thissen 5-27
Doc ID	1179371

Tops

Name	Top	Datum
Onaga Shale	2034	-434
Indian Cave SS	2070	-470
Wabaunsee	2114	-514
Heebner	2980	-1381
Lansing	3232	-1631
Stark Shale	3572	-1972
Cherokee	3820	-2219
Mississippian	3930	-2329
Kinderhook	4146	-2545
Viola	4264	-2665
Simpson SS A	4286	-2685
Simpson SS B	4303	-2701
Arbuckle	4387	-2786



# ALLIED OIL & GAS SERVICES, LLC 061029

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:  
At Bond Co

DATE <u>11-5-13</u>	SEC. <u>27</u>	TWP. <u>27</u>	RANGE <u>7</u>	CALLED OUT <u>4:00AM</u>	ON LOCATION <u>7:30AM</u>	JOB START <u>8:30AM</u>	JOB FINISH <u>9:15AM</u>
TRISSEN LEASE <u>12214</u>		WELL # <u>5-32</u>		LOCATION <u>Kingman 2E on 54, 14, west</u>		COUNTY <u>Kingman</u>	STATE <u>Ka</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR Archell 1  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D. 267  
 CASING SIZE 3 1/2 DEPTH 267  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG. 15'  
 PERFS.  
 DISPLACEMENT 16

OWNER Same  
 CEMENT AMOUNT ORDERED 225 lbs class A  
3 3/8 x 29 1/2

EQUIPMENT

PUMP TRUCK # <u>3166</u>	CEMENTER <u>Tom Newell</u>	1
BULK TRUCK # <u>609-112</u>	HELPER <u>Tom Newell</u>	2
BULK TRUCK #	DRIVER <u>Tom Tijerina</u>	<u>TWS</u>
BULK TRUCK #	DRIVER	

COMMON	225	@ 17.90	4027.50
POZMIX		@	
GEL	4	@ 23.40	93.60
CHLORIDE	634	@ 0.80	507.20
ASC		@	
HANDLING	243.30	@ 2.48	603.38
MILEAGE	11.10 x 82x	2.60	923.52
			TOTAL 6,155.20

REMARKS:  
Run 267' of 3 1/2" casing -  
Pumped 5 H2O, mixed 225 lbs class A  
3 3/8 x 29 1/2 - Annular with H2O.

Sequestered Annular  
1 Shank

CHARGE TO: Ice K REC LLC  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB	267		
PUMP TRUCK CHARGE		1512.25	
EXTRA FOOTAGE		@	
MILEAGE	Hum 32	@ 7.70	246.40
MANIFOLD		@	
	Hum 32	@ 4.40	140.80
		@	

TOTAL 1,899.45

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

To: Allied Oil & Gas Services, LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME X Ron Moon  
 SIGNATURE X Ron Moon

TOTAL \_\_\_\_\_

SALES TAX (if Any)	319.35
TOTAL CHARGES	8,054.65
DISCOUNT	1,610.93
IF PAID IN 30 DAYS	
	6,443.72



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Trek AEC, LLC.  
 155 N. Market Ste. 710  
 Wichita, KS 67202-1821  
 ATTN: Aaron Young

27-27s.-7w. Kingman Co.

**Thissen Unit 5-27**

Job Ticket: 52471      DST#: 1  
 Test Start: 2013.11.11 @ 10:53:36

## GENERAL INFORMATION:

Formation: **Viola**  
 Deviated: No Whipstock: 0.00 ft (KB)  
 Time Tool Opened: 13:11:36  
 Time Test Ended: 21:16:06  
 Interval: **4256.00 ft (KB) To 4260.00 ft (KB) (TVD)**  
 Total Depth: 4260.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ryan Reynolds  
 Unit No: 48  
 Reference Elevations: 1600.00 ft (KB)  
 1585.00 ft (CF)  
 KB to GR/CF: 15.00 ft

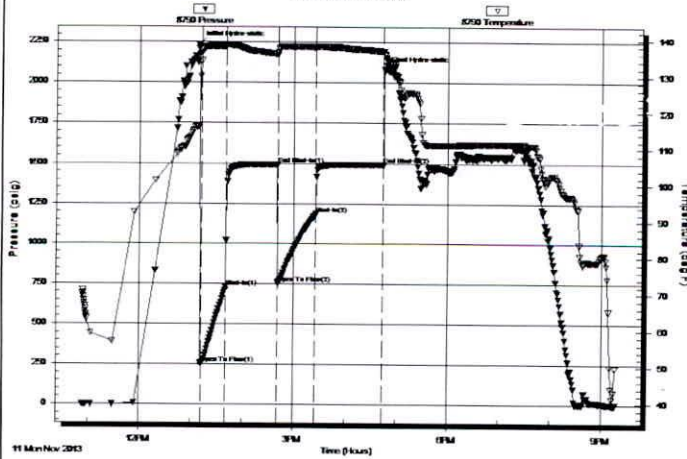
## Serial #: 8790

Inside

Press@RunDepth: 1186.84 psig @ 4257.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2013.11.11      End Date: 2013.11.11      Last Calib.: 2013.11.11  
 Start Time: 10:53:41      End Time: 21:16:06      Time On Btm: 2013.11.11 @ 13:08:21  
 Time Off Btm: 2013.11.11 @ 16:45:51

TEST COMMENT: IF: Strong blow . BOB immed. No GTS.  
 IS: Strong blow . BOB @ 5min. GTS 1min. into  
 FF: Strong blow . BOB immed. O to Surf. 2min. into  
 FS: Strong blow . BOB @ 7min.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2235.16	116.36	Initial Hydro-static
4	249.03	134.09	Open To Flow (1)
33	724.22	138.24	Shut-In(1)
93	1491.29	136.15	End Shut-In(1)
93	751.12	136.38	Open To Flow (2)
138	1186.84	137.99	Shut-In(2)
216	1491.44	136.85	End Shut-In(2)
218	2079.85	135.90	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3145.00	Clean gassy oil (Rev. 15 bbl. to truck 4	42.52
175.00	SLI OCGW trc%oil, 5%gas, 95%w tr	2.45

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Trek AEC, LLC.

**27-27s.-7w. Kingman Co.**

155 N. Market Ste. 710  
Wichita, KS 67202-1821

**Thissen Unit 5-27**

Job Ticket: 52471

**DST#: 1**

ATTN: Aaron Young

Test Start: 2013.11.11 @ 10:53:36

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

66000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 0.02 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
3145.00	Clean gassy oil (Rev. 15 bbl. to truck 4	42.522
175.00	SLI OCGW trc%oil, 5%gas, 95%wtr	2.455

Total Length: 3320.00 ft

Total Volume: 44.977 bbl

Num Fluid Samples: 0

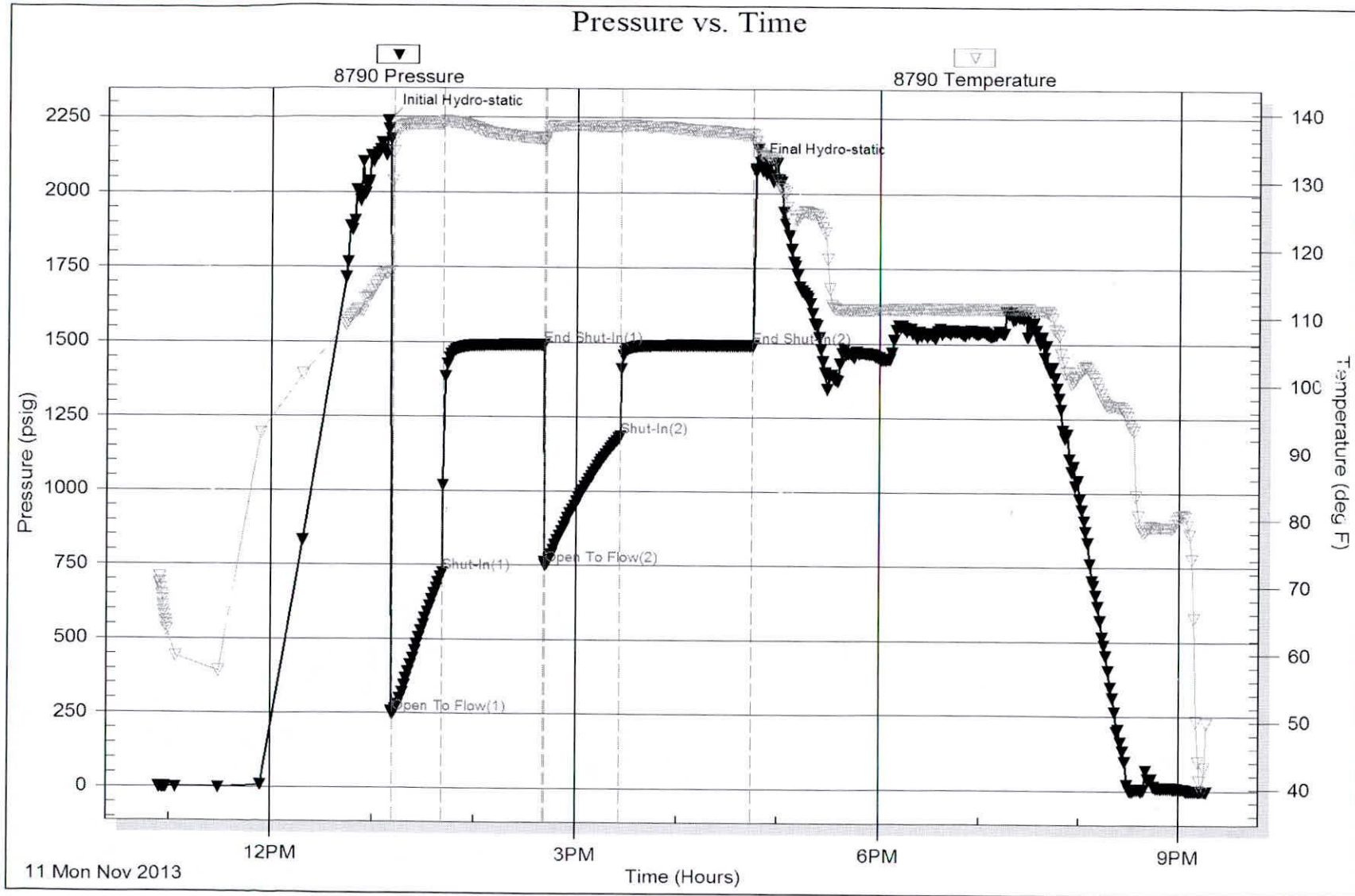
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:







**DRILLING AND COMPLETION REPORT  
THISSEN 5-27**

**PROSPECT:** Thissen North  
**LOCATION:** NE SW NE SW Sec. 27-T27S-R7W  
**COUNTY:** Kingman  
**API:** 15-095-22278-00-00  
**CONTRACTOR:** Pickrell Drilling  
**GEOLOGIST:** Debra Fitzgerald  
**WELLSITE:** Aaron Young  
**NOTIFY:** Trek AEC, LLC -  
 Dianne Y.. DeGood Family Trust  
 Hyde Resources, Inc.  
 R & T Investments  
 Debbie Schmitt, LLC  
 Nicholas Miller  
 Buffalo Creek Oil and Gas, LLC  
 Gar Oil Corp. - Fax to: 918-686-5334  
 Six M, LLC  
 Kathleen Hill

**SURFACE CASING:** 8 5/8" 23# set @ 267' KB  
**PRODUCTION CASING:** 5 1/2" set @ 4599'  
**PROJECTED RTD:** 4300'  
**G.L.:** 1590      **K.B.:** 1600  
**SPUD DATE:** 11/5/13  
**COMPLETION DATE:** 12/9/13  
**REFERENCE WELLS:**  
 #1: Thissen 1-27: NE NW SW  
 #2: Thissen 4-27: NE NW NE SW

FORMATION:	SAMPLE LOG:		REF. WELL COMP.		ELECTRIC LOG TOPS:		REF. WELL COMP.	
			#1	#2			#1	#2
Onaga Shale	2038	-438	NA	-5	2034	-434	NA	-1
Indian Cave SS	2070	-470	NA	-20	2070	-470	NA	-20
Wabaunsee	2114	-514	NA	-6	2114	-514	NA	-6
Heebner	2976	-1376	-8	-9	2980	-1381	-12	-13
Lansing	3234	-1634	-15	-16	3232	-1631	-13	-14
Stark Shale	3572	-1972	-1	-8	3572	-1972	-1	-8
Cherokee	3816	-2216	-5	-12	3820	-2219	-8	-15
Mississippian	3925	-2325	-3	-8	3930	-2329	-7	-12
Kinderhook					4146	-2545	-11	-12
Viola	4258	-2658	-6	-4	4264	-2665	-13	-11
Simpson SSA					4286	-2685	-12	-13
Simpson SSB					4303	-2701	-8	-9
Arbuckle	4387	-2786			4387	-2786	N/A	N/A
RTD	4600							
LTD	4610							

Note: Logging TD - 10' low to Driller, Drilling time - 6' high to logs.

10/29/13      Completed building location  
 11/04/13      Pickrell Drilling Company - Drilling Rig #1 - MIRT, RURT

11/05/13 Spud well at 1:15 AM, Drilled 12 1/4" surface hole to 269'. SHT @ 269 = 3/4 degree. Ran in 6 jts of new 8 5/8" 23# surface casing set at 267' KB (tally was 254'). Cemented with 225 sx Class A, 2% Gel, 3% CC. PD @ 9:15 AM on 11/5/13. CDC. Allied Ticket #61029. WOC - Approximately 8 hours.

11/06/13 Drilling ahead @ 1185'. SHT @ 783' = 34 degree deviation. Wellsite Geologist on Location.

11/07/13 CFS @ 2101'. SHT @ 1288' = 3/4 degree, at 1790' = 1 degree.

11/08/13 Drilling ahead at 2880'. SHT @ 2296' = 1 degree, at 2801' = 1 degree deviation.

11/09/13 Drilling ahead at 3554'

11/10/13 Drilling ahead at 3900'.

11/11/13 Circulating at 4260' for DST #1 Viola

11/11/13 DST#1 Viola: 1st Open: strong blow off bottom immediately, continued for 30 min. Shut in for 30 Min. Continuous blow throughout Shut In  
2nd Open: Blew off bottom of bucket after 10min, continuous gas blow, with mist of oil throughout. Will shut in for 75 minutes.  
Expect results 9:30 and 10:00 PM tonight. Will send full report in morning.

Due to our low structural position. We will probably drill into the Arbuckle 300' and set pipe to top of Arbuckle with 300' of open hole. We will attempt a Viola completion, but if unsuccessful we will have the well bore set to complete the well as a SWD well. Recent work on the Thissen lease has increased production to 40 BOPD.

11/12/13 At 4313' and Drilling Ahead.  
DST #1 Viola 4256-4260', Times: 30:60:45:75  
1st Open: Strong blow off Bottom after 2 seconds  
2nd Open: Strong blow off Bottom after 11 minutes  
IFP: 249-728#  
ISIP: 1491#  
FFP: 751-1186#  
FSIP: 1491#  
IHP: 2235#  
FHP: 2079#  
BHT: 138°  
Recovered 3145' CGO, 175' SLIOCGW (circulated oil to saltwater truck).

11/13/13 LDDP to run in 5 1/2" production casing. RTD = 4600'. Ran E-Logs, LTD: 4610'.  
Production Casing Information:  
  
Ran in 110 jts - 5 1/2", 15.5# PRODUCTION CASING SET @ 4599' (tally was 4610')  
Shoe jt: 21.12'  
Centralizers at: 4591, 4465, 4296  
Cement Basket @ 4212  
Centralizes: at 4169, 4127, 4001  
Cemented with 150 sx - ASC with 2% gel, 10% Salt, 6% gel and 5% Floseal  
30 sx in Rathole, 20 sx in mousehole, 60/40 poz, 4% gel.  
  
Allied Cementing - Ticket #061796, Plug down at 7:00 p.m. and plug held  
Flush Displacement was 109 bbls - 2% KCL Water  
Released rig at 7:00 PM on 11/13/13.

**FINAL DRILLING REPORT - COMPLETION REPORTS TO FOLLOW**

**PERFORATION RECOMMENDATION:**

After review of the CNL and FDL logs (see attachment for log correlation) the following perforation has been chosen:

- Perforate from 4265' -2665 (Viola) with 2 shots
- Spot with 100 gallons 15% MCA at perfs and load hole with KCL water
- Perforate with and over balanced load to help clean up the cement damage
- Swab well to kick off

**COMPLETION INFORMATION AS FOLLOWS:**

12/09/13 MIRU - Alliance Well Service. Swabbed down casing to 500'. Unloaded 4600' of 2 7/8" yellow band tubing. TIH with tubing to 4275'. Hooked up Allied Acid and spotted with 100 gallons of 15% MCA Acid to 4275'. Unhooked Allied Acid. POOH. RU Log-Tech of Kansas and went in and **perforated at 4265' (Viola) with 2 shots.** SION

12/10/13 Checked shut-in pressures, casing on small vacuum. TIH with the following:

1 - 2 7/8" X 15' MA

1 - 2 1/2" X 1.10' SN

144 jts - 2 7/8" tubing - 4529.71' (KB)

Total to bottom MA is 4553.61' (KB)

Tagged at 4582'. Spaced 28.10' off bottom.

Began swabbing on well.

Total casing load to perfs was 90 bbls

Swabbed 5 hours, after 3rd hour (recovered 52 bbls) had show of oil.

At the end of 4th hour, fluid at 2650', oil cut at 28%, recovered 77 bbls of total load.

At the end of 5th hour, fluid at 3300', oil cut at 32%, recovered 9 bbls over total load.

Shot fluid level and found at 3492', annulus beginning to build gas pressure. SDFN

Recovered 13 bbls oil, 86 bbls water, 99 total bbls.

12/11/13 Checked pressures - Annulus - 30 psi, tubing - 13 psi. Shot fluid level at 67 jts (2107'). 14 hour fill up of 1385'. Swabbed on well for 2 hours - making 1 run every 30 minutes. First pull - had 500' of oil on top. Swab tested for 2 hours - recovered a total of 24 bbls, 2.89 bbls oil. Final fluid level at 3240'. Shut-in well. RDMO - Alliance Well Service.

Maintaining limited entry of fluid into wellbore. Will test pump, verify rates and pressures and may have to retreat at some point in the future.

12/18/13 MIRU - Alliance Well Service and Sunrise Supply to run in pump and rods.  
RIH as follows:

- 2 1/2 X 2" X 12' RWBC pump
- 3/4" X 2' pony rod with guide
- 181 - 3/4" rods - D Grade #1
- 3/4" X 6', 8' - rod subs
- 1 - 1 1/4 X 16' polished rod

RDMO

Set 142 - 173-54 Sentry pumping unit with C-66 engine  
Abes trenched in flowline and laid 2 - 7/8" fiberglass to the #1 tie-in and 1" poly gas line back to well.

01/01/14 Started well - Pumping unit set at 5 SPM

	<b>Total Lease Production</b>	<b>#5-27 Est. Production</b>	<b>#5-27 Est. Water</b>
01/02/14	64	35	49
01/03/14	45	15	30
01/04/14	43	13	30
01/05/14	41	13	30
01/06/14	40	13	30, CP = 42#

NOTE: Not pumping properly - will lower rods, making adjustments.

01/07/14 25 0 0

NOTE: #5-27 Down - weather related. Pumping Unit set at 3.5 SPM.

01/08/14	35	13	30, CP = 40#
01/09/14	28	08	30
01/10/14	38	10	30, CP = 46#

**FINAL PRODUCTION REPORT**



**DRILLING AND COMPLETION REPORT  
THISSEN 5-27**

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**LOCATION:** NE SW NE SW Sec. 27-T27S-R7W  
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FORMATION:	SAMPLE LOG:		REF. WELL COMP.		ELECTRIC LOG TOPS:		REF. WELL COMP.	
			#1	#2			#1	#2
Onaga Shale	2038	-438	NA	-5	2034	-434	NA	-1
Indian Cave SS	2070	-470	NA	-20	2070	-470	NA	-20
Wabaunsee	2114	-514	NA	-6	2114	-514	NA	-6
Heebner	2976	-1376	-8	-9	2980	-1381	-12	-13
Lansing	3234	-1634	-15	-16	3232	-1631	-13	-14
Stark Shale	3572	-1972	-1	-8	3572	-1972	-1	-8
Cherokee	3816	-2216	-5	-12	3820	-2219	-8	-15
Mississippian	3925	-2325	-3	-8	3930	-2329	-7	-12
Kinderhook					4146	-2545	-11	-12
Viola	4258	-2658	-6	-4	4264	-2665	-13	-11
Simpson SSA					4286	-2685	-12	-13
Simpson SSB					4303	-2701	-8	-9
Arbuckle	4387	-2786			4387	-2786	N/A	N/A
RTD	4600							
LTD	4610							

Note: Logging TD - 10' low to Driller, Drilling time - 6' high to logs.

10/29/13      Completed building location  
 11/04/13      Pickrell Drilling Company - Drilling Rig #1 - MIRT, RURT

11/05/13 Spud well at 1:15 AM, Drilled 12 1/4" surface hole to 269'. SHT @ 269 = 3/4 degree. Ran in 6 jts of new 8 5/8" 23# surface casing set at 267' KB (tally was 254'). Cemented with 225 sx Class A, 2% Gel, 3% CC. PD @ 9:15 AM on 11/5/13. CDC. Allied Ticket #61029. WOC - Approximately 8 hours.

11/06/13 Drilling ahead @ 1185'. SHT @ 783' = 34 degree deviation. Wellsite Geologist on Location.

11/07/13 CFS @ 2101'. SHT @ 1288' = 3/4 degree, at 1790' = 1 degree.

11/08/13 Drilling ahead at 2880'. SHT @ 2296' = 1 degree, at 2801' = 1 degree deviation.

11/09/13 Drilling ahead at 3554'

11/10/13 Drilling ahead at 3900'.

11/11/13 Circulating at 4260' for DST #1 Viola

11/11/13 DST#1 Viola: 1st Open: strong blow off bottom immediately, continued for 30 min. Shut in for 30 Min. Continuous blow throughout Shut In  
2nd Open: Blew off bottom of bucket after 10min, continuous gas blow, with mist of oil throughout. Will shut in for 75 minutes.  
Expect results 9:30 and 10:00 PM tonight. Will send full report in morning.

Due to our low structural position. We will probably drill into the Arbuckle 300' and set pipe to top of Arbuckle with 300' of open hole. We will attempt a Viola completion, but if unsuccessful we will have the well bore set to complete the well as a SWD well. Recent work on the Thissen lease has increased production to 40 BOPD.

11/12/13 At 4313' and Drilling Ahead.  
DST #1 Viola 4256-4260', Times: 30:60:45:75  
1st Open: Strong blow off Bottom after 2 seconds  
2nd Open: Strong blow off Bottom after 11 minutes  
IFP: 249-728#  
ISIP: 1491#  
FFP: 751-1186#  
FSIP: 1491#  
IHP: 2235#  
FHP: 2079#  
BHT: 138°  
Recovered 3145' CGO, 175' SLIOCGW (circulated oil to saltwater truck).

11/13/13 LDDP to run in 5 1/2" production casing. RTD = 4600'. Ran E-Logs, LTD: 4610'.  
Production Casing Information:  
  
Ran in 110 jts - 5 1/2", 15.5# PRODUCTION CASING SET @ 4599' (tally was 4610')  
Shoe jt: 21.12'  
Centralizers at: 4591, 4465, 4296  
Cement Basket @ 4212  
Centralizes: at 4169, 4127, 4001  
Cemented with 150 sx - ASC with 2% gel, 10% Salt, 6% gel and 5% Floseal  
30 sx in Rathole, 20 sx in mousehole, 60/40 poz, 4% gel.  
  
Allied Cementing - Ticket #061796, Plug down at 7:00 p.m. and plug held  
Flush Displacement was 109 bbls - 2% KCL Water  
Released rig at 7:00 PM on 11/13/13.

**FINAL DRILLING REPORT - COMPLETION REPORTS TO FOLLOW**

**PERFORATION RECOMMENDATION:**

After review of the CNL and FDL logs (see attachment for log correlation) the following perforation has been chosen:

- Perforate from 4265' -2665 (Viola) with 2 shots
- Spot with 100 gallons 15% MCA at perfs and load hole with KCL water
- Perforate with and over balanced load to help clean up the cement damage
- Swab well to kick off

**COMPLETION INFORMATION AS FOLLOWS:**

12/09/13 MIRU - Alliance Well Service. Swabbed down casing to 500'. Unloaded 4600' of 2 7/8" yellow band tubing. TIH with tubing to 4275'. Hooked up Allied Acid and spotted with 100 gallons of 15% MCA Acid to 4275'. Unhooked Allied Acid. POOH. RU Log-Tech of Kansas and went in and **perforated at 4265' (Viola) with 2 shots.** SION

12/10/13 Checked shut-in pressures, casing on small vacuum. TIH with the following:

1 - 2 7/8" X 15' MA

1 - 2 1/2" X 1.10' SN

144 jts - 2 7/8" tubing - 4529.71' (KB)

Total to bottom MA is 4553.61' (KB)

Tagged at 4582'. Spaced 28.10' off bottom.

Began swabbing on well.

Total casing load to perfs was 90 bbls

Swabbed 5 hours, after 3rd hour (recovered 52 bbls) had show of oil.

At the end of 4th hour, fluid at 2650', oil cut at 28%, recovered 77 bbls of total load.

At the end of 5th hour, fluid at 3300', oil cut at 32%, recovered 9 bbls over total load.

Shot fluid level and found at 3492', annulus beginning to build gas pressure. SDFN

Recovered 13 bbls oil, 86 bbls water, 99 total bbls.

12/11/13 Checked pressures - Annulus - 30 psi, tubing - 13 psi. Shot fluid level at 67 jts (2107'). 14 hour fill up of 1385'. Swabbed on well for 2 hours - making 1 run every 30 minutes. First pull - had 500' of oil on top. Swab tested for 2 hours - recovered a total of 24 bbls, 2.89 bbls oil. Final fluid level at 3240'. Shut-in well. RDMO - Alliance Well Service.

Maintaining limited entry of fluid into wellbore. Will test pump, verify rates and pressures and may have to retreat at some point in the future.

12/18/13 MIRU - Alliance Well Service and Sunrise Supply to run in pump and rods.  
RIH as follows:

- 2 1/2 X 2" X 12' RWBC pump
- 3/4" X 2' pony rod with guide
- 181 - 3/4" rods - D Grade #1
- 3/4" X 6', 8' - rod subs
- 1 - 1 1/4 X 16' polished rod

RDMO

Set 142 - 173-54 Sentry pumping unit with C-66 engine  
Abes trenched in flowline and laid 2 - 7/8" fiberglass to the #1 tie-in and 1" poly gas line back to well.

01/01/14 Started well - Pumping unit set at 5 SPM

	<b>Total Lease Production</b>	<b>#5-27 Est. Production</b>	<b>#5-27 Est. Water</b>
01/02/14	64	35	49
01/03/14	45	15	30
01/04/14	43	13	30
01/05/14	41	13	30
01/06/14	40	13	30, CP = 42#

NOTE: Not pumping properly - will lower rods, making adjustments.

01/07/14 25 0 0

NOTE: #5-27 Down - weather related. Pumping Unit set at 3.5 SPM.

01/08/14	35	13	30, CP = 40#
01/09/14	28	08	30
01/10/14	38	10	30, CP = 46#

**FINAL PRODUCTION REPORT**