

2/18/12

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33168
Name: WOOLSEY OPERATING COMPANY, LLC
Address 1: 125 N. Market
Address 2: Suite 1000
City: Wichita State: KS Zip: 67202
Contact Person: Dean Pattison
Phone: (316) 267-4379 (ext. 107)
CONTRACTOR: License # 34233
Name: Maverick Drilling LLC
Wellsite Geologist: none
Purchaser: PLAINS MARKETING / BLUESTEM GAS MARKETING

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SIOW
 Gas ENHR SIGW
 CM (Coal Bed Methane) Temp. Abd.
 Dry Other _____
(Core, WSW, Expl., Cathodic, etc.)

If Workover/Re-entry: Old Well Info as follows:
Operator: n/a
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to Enhr. Conv. to SWD
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Docket No.: _____
 Dual Completion Docket No.: _____
 Other (SWD or Enhr.?) Docket No.: _____
10/17/2009 10/23/2009 11/13/2009
Spud Date or ~~Recompletion Date~~ Date Reached TD Completion Date or ~~Recompletion Date~~

API No. 15 - 007-23461-00-00
Spot Description: 130' N & 60' W of S2 NW
NW - SE - SW - NE Sec. 20 Twp. 34 S. R. 11 East West
2180 Feet from North / South Line of Section
930 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Barber
Lease Name: LOGAN X Well #: 8
Field Name: Stranathan
Producing Formation: Mississippian
Elevation: Ground: 1383 Kelly Bushing: 1394
Total Depth: 5220 Plug Back Total Depth: 5051
Amount of Surface Pipe Set and Cemented at: 223 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 AHINS 22270
(Data must be collected from the Reserve Pit)
Chloride content: 36,000 ppm Fluid volume: 1880 bbls
Dewatering method used: Haul free fluids and allow to dry
Location of fluid disposal if hauled offsite:
Operator Name: WOOLSEY OPERATING COMPANY, LLC
Lease Name: Harbaugh 2 SWD License No.: 33168
Quarter NW Sec. 20 Twp. 34 S. R. 11 East West
County: Barber Docket No.: D - 30,333

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: _____
Title: Dean Pattison Date: February 9, 2010
Exploration and Production Manager
Subscribed and sworn to before me this 9th day of February

20 10
Notary Public: Debra K. Clingan
Date Commission Expires: March 27, 2010

KCC Office Use ONLY

Letter of Confidentiality Received
 If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

RECEIVED
FEB 12 2010

Operator Name: WOOLSEY OPERATING COMPANY, LLC Lease Name: LOGAN X Well #: 8
 Sec. 20 Twp. 34 S. R. 11 East West County: Barber

INSTRUCTIONS: Show important tops and base 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. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken Yes No
 (Attach Additional Sheets)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
 (Submit Copy)

List All E. Logs Run: Neutron Density
 Dual Induction
 Cement Bond

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Name:	Top	Datum
Onaga	2691	- 1297
Douglas	3758	- 2364
Hertha	4435	- 3041
Mississippian	4655	- 3261
Viola	4983	- 3589
Simpson	5115	- 3721
Arbuckle	DNP	

CASING RECORD New 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
Surface	14 3/4"	10 3/4"	32# / ft	223'	Class A	225	2% gel, 3% cc
Production	7 7/8"	4 1/2"	10.5# / ft	5085'	60/40 poz	50	4% gel, 1/4# Floseal
					Class H	200	10% salt, 10% Gypseal, 1/4# Celoflake, 6# Kalseal, .8% Friction reducer

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				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	Perf Miss zone 4638-4645 & 4670-4686	ACID: 5400 gal 10% HCL	4638 -
2	Perf Miss zone 4656-5663, 4690-4710, 4715-4744, 4750-4760 & 4805-4820	FRAC: 459,800 gal treated 2% KCl wtr, 168,600# 30/70 sd, 30,000# 16/30 sd & 18,000# 16/30 resin coated sd	4820 OA

TUBING RECORD:	Size: <u>2 3/8"</u>	Set At: <u>4767'</u>	Packer At: <u>n/a</u>	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. <u>01/04/2010</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls. <u>30</u>	Gas Mcf <u>115</u>	Water Bbls. <u>150</u>	Gas-Oil Ratio <u>3833 : 1</u> Gravity <u>23.6</u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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ALLIED CEMENTING CO., LLC. 34400

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Medicine Lodge, Ks

DATE <u>10-17-09</u>	SEC. <u>20</u>	TWP. <u>34s</u>	RANGE <u>11W</u>	CALLED OUT <u>10-16 9:00</u>	ON LOCATION <u>10-16 10:30am</u>	JOB START <u>11:15am</u>	JOB FINISH <u>11:45am</u>
LEASE <u>Logan</u>	WELL # <u>8</u>	LOCATION <u>2812160- 150 S, 1st Hole on E/side</u>			COUNTY <u>Barber</u>	STATE <u>KS</u>	
OLD OR <u>(NEW)</u> (Circle one)			E/Intro, Follow Signs.				

CONTRACTOR <u>Maverick 1000</u>	OWNER <u>Woodsey Operating</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>14 3/4</u>	T.D. <u>230'</u>
CASING SIZE <u>10 3/4</u>	DEPTH <u>225.54</u>
TUBING SIZE _____	DEPTH _____
DRILL PIPE _____	DEPTH _____
TOOL _____	DEPTH _____
PRES. MAX _____	MINIMUM <u>100</u>
MEAS. LINE _____	SHOE JOINT <u>20'</u>
CEMENT LEFT IN CSG. <u>20' per Cust. Rec.</u>	
PERFS. _____	
DISPLACEMENT <u>20 BBS Fresh Water</u>	

EQUIPMENT

PUMP TRUCK # <u>372</u>	CEMENTER <u>Greg G.</u>
BULK TRUCK # <u>304</u>	DRIVER <u>David F.</u>
BULK TRUCK # _____	DRIVER _____

CEMENT

AMOUNT ORDERED 225 SX A 738 CC TDS Gel

COMMON <u>225</u>	@ <u>15.45</u>	<u>3,476.25</u>
POZMIX _____	@ _____	_____
GEL <u>45X</u>	@ <u>20.80</u>	<u>83.20</u>
CHLORIDE <u>82</u>	@ <u>58.20</u>	<u>465.60</u>
ASC _____	@ _____	_____

WELL FILE

Regulatory Correspondence _____	KCC _____
Drig Comp _____	FEB 10 2010 _____
Tests 7 Meters _____	Operations _____

REMARKS:
Pipe on Bottom, Break Circulation, Pump 3 Ahead, Pump Cement - 225 SX A 3x2, Start bit, Displ with 20 BBS Fresh Water, Shut in, Cement Circulated to Surface.

HANDLING <u>225 SX</u>	@ <u>240</u>	<u>540.00</u>
MILEAGE <u>225 SX X 15 X 10 =</u>		<u>337.50</u>
		TOTAL <u>4,902.55</u>

CHARGE TO: Woodsey Operating

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB <u>230'</u>		
PUMP TRUCK CHARGE _____	<u>1,018.00</u>	
EXTRA FOOTAGE _____	@ _____	
MILEAGE <u>15</u>	@ <u>7.00</u> <u>105.00</u>	
MANIFOLD _____	@ _____	
		TOTAL <u>1123.00</u>

To Allied Cementing Co., 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 Mike Tharp

SIGNATURE _____

PLUG & FLOAT EQUIPMENT

NONE @ _____

RECEIVED

FEB 12 2010

KCC WICHITA

TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES [scribble]

DISCOUNT [scribble] IF PAID IN 30 DAYS

* Thank You *

ALLIED CEMENTING CO., LLC. 036926

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Medicine Lodge, KS

DATE <u>10-24-09</u>	SEC <u>20</u>	TWP <u>34S</u>	RANGE <u>11W</u>	CALLED OUT <u>10:00 AM</u>	ON LOCATION <u>1:00 PM</u>	JOB START <u>10:30 PM</u>	JOB FINISH <u>11:30 PM</u>
LEASE <u>Logen</u>	WELL # <u>8</u>	LOCATION <u>281 + 160 Jct, 15 miles</u>			COUNTY <u>Butler</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)			South, Post house on East Side, Elinor				

CONTRACTOR Maverick 106
 TYPE OF JOB Production
 HOLE SIZE 7 7/8 T.D. 5220'
 CASING SIZE 4 1/2 DEPTH 3084'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX 1800 MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 33'
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT 8 1/2 bbls of fresh water

OWNER Woolsey Operating
 CEMENT
 AMOUNT ORDERED 75sx 60' 40' 4' + 1/4" #1050, 200sx Class H + 10% Gyrol + 10% SSII, 6 # Kolsen + 8% FL160 + 1/4" #1050
 COMMON 45 A sx @ 15.45 695.25
 POZMIX 30 sx @ 8.00 240.00
 GEL 2 sx @ 20.00 40.00
 CHLORIDE _____ @ _____
 ASC _____ @ _____
 Gyrol 19 sx @ 29.20 554.80
 Salt 22 @ 12.00 264.00
 FL-160 150 # @ 13.30 1995.00
 Kolsen 1200 # @ .89 1068.00
 Chapin 8 Gal @ 31.25 250.00
 Flourol 69 @ 2.50 172.50
 Class H 200 sx @ 16.75 3350.00
 HANDLING 275 @ 2.40 660.00
 MILEAGE 275 / 10 / 15 @ 412.50
 TOTAL 9703.65

EQUIPMENT
 PUMP TRUCK CEMENTER Darin E
 # 414-302 HELPER Greg G
 BULK TRUCK
 # 381-250 DRIVER Scott P
 BULK TRUCK
 # _____ DRIVER WELL FILE

Regulatory Correspondence
 Orig. Comp Workovers
 REMARKS Meters Operations

Pipe on bottom & break circulation
 mix 25% of cement for R&R mouse hole
 mix 50% of light cement, mix
 200% of 4511 cement, shut down
 wash pump & lines & release plug, start
 displacement, lift pressure to 53 bbls
 slow rate to 3 bpm to 70 bbls, bump plus
 to 8 1/2 bbls to 800-1600 psig, float in
 hold

CHARGE TO: Woolsey Operating
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE
 DEPTH OF JOB 5084'
 PUMP TRUCK CHARGE 2185.00
 EXTRA FOOTAGE _____ @ _____
 MILEAGE 15 @ 7.00 105.00
 MANIFOLD _____ @ _____
Hogdrents _____ @ _____
 TOTAL 2290.00

PLUG & FLOAT EQUIPMENT
4 1/2
 1-AFU Float Shoe @ 205.00
 1-Latch Down Plug @ 145.00
 13-Turbolizers @ 37.00 491.00
 28-Scratchers @ 55.00 1558.00
 TOTAL 2399.00

To Allied Cementing Co., 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 MIKE THARP
 SIGNATURE X Mike Tharp

SALES TAX (If Any) _____
 TOTAL CHARGES _____
 DISCOUNT _____ IF PAID **RECEIVED**
FEB 12 2010
KCC WICHITA

KCC
FEB 10 2010
CONFIDENTIAL