Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1160592

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 # 34758
Name: WPX Energy Production, LLC
Address 1: ONE WILLIAMS CENTER
Address 2: PO BOX 3102
City: TULSA State: OK Zip: 74101 + _ _ _ _
Contact Person: Heather Riley
Phone: (505) 333-1822
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Tim Brandon
Purchaser: MV Purchasing

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 #:

06/19/2013 Spud Date or Recompletion Date
07/12/2013 Date Reached TD
08/19/2013 Completion Date or Recompletion Date

API No. 15 - 15-151-22409-01-00
Spot Description:
NW SE SE SW Sec. 16 Twp. 26 S. R. 13 ☐ East ☑ West
510 Feet from ☐ North / ☑ South Line of Section
2160 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Pratt
Lease Name: Dodson A Well #: 1-16H
Field Name: Wildcat
Producing Formation: Mississippi Lime
Elevation: Ground: 1941 Kelly Bushing: 10
Total Vertical Depth: 8609 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 938 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: 0 ppm Fluid volume: 0 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Siroky Oil Management
Lease Name: Siroky #2 License #: 34484
Quarter NE Sec. 20 Twp. 27 S. R. 12 ☐ East ☑ West
County: Pratt Permit #: 1044197911

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: 10/16/2013
☑ **Confidential Release Date:** 10/19/2015
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 10/25/2013

1160592

Operator Name: WPX Energy Production, LLC Lease Name: Dodson A Well #: 1-16H

Sec. 16 Twp. 26 S. R. 13 ☐ East ☑ West County: Pratt

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 ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

GR-MWD

☑ Log Formation (Top), Depth and Datum ☑ Sample

Name	Top	Datum
Hutchinson Salt	1413'	+ 539'
Heebmer Shale	3656'	- 1695'
Lansing	3855'	- 1884'
Mississippi	4586'	- 2308'

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
Attached	Attached	Attached	Attached	Attached	Attached	Attached	Attached

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ 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 *(Amount and Kind of Material Used)*	Depth

TUBING RECORD: Size: 2 7/8" Set At: 4564.5' Packer At: 4564.5

Liner Run: ☑ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 9/27/2013

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	150	486	919	3240	41

DISPOSITION OF GAS:
☐ Vented ☑ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
4716.5
8568

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	WPX Energy Production, LLC
Well Name	Dodson A 1-16H
Doc ID	1160592

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	17.5	13.375	68	120	Class A	140	2% CaCl + .5 pps Cellflake
Surface	12.25	9.625	36	938	Class A & Pozmix	150	6% gel, 3% CaCl + .5 pps Cellflake
Surface	12.25	9.625	36	938	Class A	150	2% CaCl + .5 pps Cellflake
Intermediate	8.75	7	26	4708	Class A	85	2% sod silicate, 2% gypsum, 2% CaCl+.25 pps Cellflake
Intermediate	8.75	7	26	4708	Class A	495	.25 pps Cellflake, .25% defoamer, 10% salt, .5% cfr, .1% wca-1, 5 pps gilsonite

Form	ACO1 - Well Completion
Operator	WPX Energy Production, LLC
Well Name	Dodson A 1-16H
Doc ID	1160592

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Production	6.125	4.5	11.6	8608	Class H	650	10% salt, .25% defoamer, .75" cfr, .1% wca-1

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/

October 02, 2013

WPX Energy Production, LLC
ONE WILLIAMS CENTER
PO BOX 3102
TULSA, OK 74101

Re: ACO1
API 15-151-22409-01-00
Dodson A 1-16H
SW/4 Sec.16-26S-13W
Pratt County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,

Cementing Job Log

Customer: WPX Energy, Inc.
Well Name Dodson A 1-16H
City: Iuka
State: Kansas
Contractor & rig#: Duke #20
Well Type: New development well
Sales person: Kevin Gordley
Pump truck#: 19903-19905

Customer Rep: Jimmy
API#:
County: Pratt
Legal Description: 16-26s-13w
Job Purpos Cement 13 3/8 conductor
Job Type: (Cement 13 3/8 conductor
Cement Supervisor: K(Steve Orlando
Ticket #: 1718-08442 A

Activity:	Date/Time	Rate	Volume	Psi	Comments:
		BPM	bbl	Psi	
On location	6/19/2013				Time on location
	10:00 PM				
Safety meeting	6/19/2013				
	10:30 PM				
Rig up	6/19/2013				
	1:00 PM				
PSI test	6/20/2013			2000	Test pump & line- 2000#
	12:00 AM				
Pump spacer	6/20/2013	3	10	150	Pump 10 bbl h2o to break
	12:10 AM				circulation, then start mix
Pump cement	6/20/2013	3	32	150	cement, 140 sacks Common
	12:15 AM				
Drop plug	6/20/2013	0	0	0	No plug
Start displacement	6/20/2013	3	0	50	H2o displacement
	12:25 AM				
Finsh displacement	6/20/2013	2	17.5	100	Finish displacement
	12:45 AM				
Comments	6/21/2013	Shut in swedge & valve			
	12:46 AM				
		Circulated 12 bbl cement to pit.			

Cement Job Summary

Customer:	WPX Energy, Inc.	Customer Rep:	Jimmy
Well Name	Dodson A 1-16H	API#:	
City:	Iuka	County:	Pratt
State:	Kansas	Legal description:	16-26s-13w
Contractor	Duke #21	Job Type:	Cement 13 3/8 conductor
Well type:	New development	Sales person:	Kevin Gordley
Cement supervisor:	Steve Orlando	Pump truck #:	19903-19905

Job Personnel & Equipment

Steve Orlando in pickup 27283
Clarence Messick in pickup 37216
Steve Young in pump truck 19903-19905
Tim Kuemin in bulk truck 19826-19860

Well Data:

17 1/2" open hole to 126'
13 3/8" casing to 120'

Float Equipment Ticket # 1718-008443 A

2- 13 3/8 stop rings
2- 13 3/8" centralizers
1- 13 3/8" basket

Cement Data:

140 sacks Common cement- Class A regular or TypeI/II
2% Calcium Chloride- Pellets 80 lb.
1/2 #/sk Cellflake- 3/8" Flakes
Fresh H2o
Density- 15.6 lb/gal, 1.2 cft/sk, 5.2 gallon h2o/sk

PSI/VOLUMES/RATES

140 sacks cement volume of 30 bbl.
Displacement to 110' of 13 3/8" 54.5# casing is 17.27 bbl.
Diferential psi at 110' is 41.6 psi.
Average pump rate thru job is 3 BPM.

Cementing Job Log

Customer: WPX Energy, Inc.
Well Name: Dodson A 1-16H
City: Iuka
State: Kansas
Contractor & rig#: Duke #20
Well Type: New development well
Sales person: Kevin Gordley
Pump truck#: 7686-19905

Customer Rep: Jimmy
API#:
County: Pratt
Legal Description: 16-26s-13w
Job Purpos Cement 9 5/8 surface
Job Type: (Cement 9 5/8 surface
Cement Supervisor: K(Clarence Messick
Ticket #: 1718-08626 A

Activity:	Date/Time	Rate	Volume	Psi	Comments:
		BPM	bbl	Psi	
On location	6/21/2013				Time on location
	9:00 AM				
Safety meeting	6/21/2013				
	9:15 AM				
Rig up	6/21/2013				
	10:00 AM				
PSI test	6/21/2013			2000	Test pump & line- 2000#
	1:30 PM				
Pump spacer	6/21/2013	5	10	200	Pump 10 bbl h2o to break
	2:05 PM				circulation, then start mix
Pump cement	6/21/2013	5	32	200	cement, 150 sacks Common
	2:07 PM				
Drop plug	6/21/2013	0	0	0	
	2:28 PM				
Start displacement	6/21/2013	5	0	o	H2o displacement
	2:32 PM				
Plug down	6/21/2013	2	69.6	300	Plug down
	2:50 PM				

Comments	6/21/2013	Release psi- Float held
	2:51 PM	Did not circulate cement
	3:20 PM	Order 1" cement
	5:00 PM	1" cement on location
	5:00 PM	Run 100' of 1" tubing
	5:15 PM	Start mix cement
	5:30 PM	Circulated cement to pit
		Used 50 sk Common cement 2%
		calcium chloride, 1/2 # cellflake

Cement Job Summary

Customer: WPX Energy, Inc. **Customer Rep:** Jimmy

Well Name Dodson A 1-16H **API#:**

City: Iuka **County:** Pratt

State: Kansas **Legal description:** 16-26s-13w

Contractor Duke #21 **Job Type:** Cement 9 5/8 surface

Well type: New development **Sales person:** Kevin Gordley

Cement supervisor: Clarence Messick **Pump truck #:** 77686-19905

Job Personnel & Equipment

Clarence Messick in pickup 37216
Joe Melson in pump truck 77686-19905
Aaron Gibson in bulk truck 19826-19860

Well Data:

12 1/4" open hole to 953'
9 5/8" casing to 943'

Float Equipment Ticket # 1718-08627 A

1- 9 5/8" top rubber plug
4- 9 5/8" stop rings
2- 9 5/8" baskets

Cement Data:

150 sacks A Serv Lite cement- 65% class A regular or Type I/II/35% Pozmix
6% gel- 100 lb sack bentonite
3% Calcium Chloride- Pellets 80 lb.
1/2 #/sk Cellflake- 3/8" Flakes
Fresh H2o
Density- 13.3 lb/gal, 1.66 cft/sk, 8.39 gallon h2o/sk
150 sacks Common cement- Class A regular or TypeI/II
2% Calcium Chloride- Pellets 80 lb.
1/2 #/sk Cellflake- 3/8" Flakes
Fresh H2o
Density- 15.6 lb/gal, 1.2 cft/sk, 5.2 gallon h2o/sk

PSI/VOLUMES/RATES

300 sacks cement volume of 76 bbl.
Displacement to 901' of 9 5/8" 36# casing is 69.6 bbl.
Diferential psi at 901' is 271.81 psi.
Average pump rate thru job is 5 BPM.

Cementing Job Log

Customer: WPX Energy, Inc.
Well Name: Dodson A 1-16H
City: Iuka
State: Kansas
Contractor & rig#: Duke #20
Well Type: New development well
Sales person: Kevin Gordley
Pump truck#: 19889-19843

Customer Rep: Jimmy
API#:
County: Pratt
Legal Description: 16-26s-13w
Job Purpos Cement 7" Intermediate
Job Type: (Cement 7" Intermediate
Cement Supervisor: K(Keven Lesley
Ticket #: 1718-08100 A

Activity:	Date/Time	Rate	Volume	Psi	Comments:
		BPM	bbl	Psi	
On location	6/28/2013				Time on location
	8:00 PM				
Safety meeting	6/28/2013				
	8:15 PM				
Rig up	6/28/2013				
	8:30 PM				
PSI test	6/28/2013			2000	Test pump & line- 2000#
	10:20 PM				
Pump spacer	6/28/2013	6	17	200	Pump 12 bbl mudflush and 5 bbl
	10:25 PM				h2o then start mix cement
Pump cement	6/28/2013	6	32	200	85 sk A-con lead
	10:30 PM	6	120	200	495 sk AA2 tail
Drop plug	6/28/2013	0	0	0	
	10:55 PM				
Start displacement	6/28/2013	6	0	o	H2o displacement
	11:00 PM				
Plug down	6/28/2013	1	177.9	4800	Plug down
	11:45 PM				
Comments	6/28/2013	Release psi- Float held			
		Close in head & manifold			

Cement Job Summary

Customer:	WPX Energy, Inc.	Customer Rep:	Jimmy
Well Name	Dodson A 1-16H	API#:	
City:	Iuka	County:	Pratt
State:	Kansas	Legal description:	16-26s-13w
Contractor	Duke #21	Job Type:	Cement 7" intermediate
Well type:	New development	Sales person:	Kevin Gordley
Cement supervisor:	Keven Lesley	Pump truck #:	19889-19843

Job Personnel & Equipment

Keven Lesley in pickup 37586
Ed Marquez in pump trusk 19889-19843
Mike Lawrence in bulk truck 19826-19860
Jesse Pierson in bulk truck 19960-21010

Well Data:

8 3/4" open hole to 4870'
7" 26# casing to 4708'

Float Equipment Ticket # 1718-08100 A

1- 7" top rubber plug

Cement Data:

85 sacks A-con cement- Class A regular or Type I/II
2% Metsolite- sodium silicate 50 lb.
2% gypsum- cal seal w60 50 lb.
1/4 #/sk Cellflake- 3/8" Flakes
2% Calcium Chloride- Pellets 80 lb.
Fresh h2o
Density- 12.6 lb/gal, 2.11 cft/sk, 11.84 gallon h2o/sk
495 sacks AA2 cement- Class A regular or Type I/II
1/4 #/sk Cellflake- 3/8" Flakes
.25% defoamer- powder 50 lb
10% salt- fine 50 lb
.5% cfr- powder 55 lb
.1% wca-1- powder 50 lb
5 #/sk gilsonite- granular 50 lb

5% gypsum- cal seal w60 50 lb

PSI/VOLUMES/RATES

580 sacks cement volume of 152 bbl.
Displacement to 4657' of 7" 26# casing is 177.9 bbl.
Diferential psi at 4657' is 1327.53 psi.
Average pump rate thru job is 5 BPM.

Cementing Job Log

Customer: WPX Energy, Inc.
Well Name: Dodson A 1-16H
City: Iuka
State: Kansas
Contractor & rig#: Duke #20
Well Type: New development well
Sales person: Kevin Gordley
Pump truck#: 78982-78983

Customer Rep: Jimmy
API#:
County: Pratt
Legal Description: 16-26s-13w
Job Purpos Cement 4 1/2" liner
Job Type: (Cement 4 1/2" liner
Cement Supervisor: K(Keven Lesley
Ticket #: 1718-07347 A

Activity:	Date/Time	Rate	Volume	Psi	Comments:
		BPM	bbl	Psi	
On location	7/16/2013				Time on location
	5:30 PM				
Safety meeting	7/16/2013				
	5:45 PM				
Rig up	7/16/2013				
	6:00 PM				
PSI test	7/16/2013			5000	Test pump & line- 5000#
	7:25 PM				
Pump spacer	7/16/2013	6	32	1000	Pump 12 bbl mudflush and
	8:20 PM				20 bbl h2o
Pump cement	7/16/2013	8	143	1200	Start mix 650 sk 'H' cement
	8:25 PM				
Drop plug	7/16/2013	0	0	0	
	8:50 PM				
Start displacement	7/16/2013	4.5	0	o	H2o displacement
	8:52 PM				
Plug down	7/16/2013	2	106.7	2000	Plug down
	9:15 PM				

Comments		
	7/16/2013	Release psi- Float held
	9:20 PM	Release drill pipe from liner
	9:25 PM	Reverse out long way
	9:40 PM	Circulate 23 bbl cement to pit
	9:43 PM	Pumped 150 bbl h2o to reverse out
	9:48 PM	Close BOP
	9:50 PM	Psi up on packer to 1500 psi
	9:55 PM	Held 1500 psi for 5 minutes
	10:00 PM	Release psi and pull drill pipe

Cement Job Summary

Customer:	WPX Energy, Inc.	Customer Rep:	Jimmy
Well Name	Dodson A 1-16H	API#:	
City:	Iuka	County:	Pratt
State:	Kansas	Legal description:	16-26s-13w
Contractor	Duke #21	Job Type:	Cement 4 1/2" Liner
Well type:	New development	Sales person:	Kevin Gordley
Cement supervisor:	Keven Lesley	Pump truck #:	78982-78983

Job Personnel & Equipment

Keven Lesley & Steve Orlando in pickup 37586
James Anthony inpump truck 78982-78983
Jesse Pierson in bulk truck 19831-19862
Ed Mendoza in bulk truck 38119-19566

Well Data:

6 1/8" open hole to 8609'
4 1/2" liner to 8608'
4 1/2" liner hanger at 4438'

Float Equipment Ticket # 1718-07346 A

30- 4 1/2" bow spring centralizers
2- boxes of threadlock

Cement Data:

650 sacks class 'H' cement
10% salt- fine 50 lb
.25% defoamer- powder 50 lb
3/4% cfr- powder 55 lb
.1% wca-1- powder 50 lb
Fresh h2o
Density- 15.6 lb/gal, 1.24 cft/sk, 5.4 gallon h2o/sk

PSI/VOLUMES/RATES

650 sacks cement volume of 143.5 bbl.
Displacement thru 4" drill pipe and 4 1/2" liner is 106.7 bbl
Diferential psi at 8608' is 1678 psi
Average pump rate thru job is 4 BPM.

Cementing Job Log

Customer: WPX Energy, Inc.
Well Name: Schepmann #1-21 SWD
City: luka
State: Kansas
Contractor & rig#: Duke #20
Well Type: New development well
Sales person: Kevin Gordley
Pump truck#: 77686-19905

Customer Rep: Jimmy
API#:
County: Pratt
Legal Description: 21-26S-12W
Job Purpos Cement 13 3/8 conductor
Job Type: Cement 13 3/8 conductor
Cement Supervisor: Clarence Messick
Ticket #: 1718-08647 A

Activity:	Date/Time	Rate	Volume	Psi	Comments:
		BPM	bbl	psi	
On location	7/20/2013				Time on location
	9:00 AM				
Safety meeting	7/20/2013				
	9:15 AM				
Rig up	7/20/2013				
	9:30 AM				
PSI test	7/20/2013			1000	Test pump & line to 1000psi
	10:00 AM				
Pump spacer	7/20/2013	5	5	125	Pump 5 bbl h2o to break
	11:40 AM				circulation, then start mix
Pump cement	7/20/2013	5	24.5	150	115 sk cement
	11:41 AM				
Drop plug		0	0	0	No plug
Start displacement	7/20/2013	5	0	150	
	11:57 AM				
Finish displaceent	7/20/2013	2	17	200	
	12:00 PM				
Comments	7/20/2013	Release psi- float shoe held			
	12:01 PM				

Circulate 5 bbl cement to pit.

Cement Job Summary

Customer:	WPX Energy, Inc.	Customer Rep:	Jimmy
Well Name	Schepmann 1-21 SWD	API#:	
City:	Iuka	County:	Pratt
State:	Kansas	Legal description:	21-26S-12W
Contractor	Duke #21	Job Type:	Cement 13 3/8 conductor
Well type:	New development	Sales person:	Kevin Gordley
Cement supervisor:	Clarence Messick	Pump truck #:	77686-19905

Job Personnel & Equipment

Clarence Messick in pickup 37216
Mike Mcgraw in pump truck 77686-19905
Jesse Pierson in bulk truck 19831-19862

Well Data:

17 1/2" open hole to 128'
13 3/8" 54.5# conductor casing to 124'

Float Equipment Ticket # 1718-08646 A

2- 13 3/8" x 17 1/2" bow spring centralizers
2- 13 3/8" cement baskets

Cement Data:

115 sacks class A regular cement or Type I/II
2% Calcium Chloride- Pellets 80 lb
1/2 #/sk cellflake- 3/8" flakes

PSI/VOLUMES/RATES

115sacks cement volume of 24.5 bbl.
Displacement to 110' of 13 3/8" 54.5# casing is 17 bbl.
Differential psi at 107' is 41.6 psi.
Average pump rate thru job is 5 BPM.

Cementing Job Log

Customer: WPX Energy, Inc.
Well Name: Schepmann #1-21 SWD
City: Iuka
State: Kansas
Contractor & rig#: Duke #20
Well Type: New development well
Sales person: Kevin Gordley
Pump truck#: 77686-19905

Customer Rep: Jimmy
API#:
County: Pratt
Legal Description: 21-26S-12W
Job Purpos Cement 9 5/8 surface
Job Type: Cement 9 5/8 surface
Cement Supervisor: Robert Sullivan
Ticket #: 1718-08392 A

Activity:	Date/Time	Rate	Volume	Psi	Comments:
		BPM	bbl	psi	
On location	7/21/2013				Time on location
	11:20 PM				
Safety meeting	7/22/2013				
	1:00 AM				
Rig up	7/22/2013				
	1:30 AM				
PSI test	7/22/2013			1000	Test pump & line to 1000psi
	7:30 AM				
Pump spacer	7/22/2013	5	5	200	Pump 5 bbl h2o to break
	8:05 AM				circulation, then start mix
Pump cement	7/22/2013	5	74	200	250 sk A Serv Lite
	8:06 AM	5	37.4	150	175 sk Common
Drop plug	7/22/2013	0	0	0	
	8:35 AM				
Start displacement	7/22/2013	5	0	o	
	8:36 AM				
Plug Down	7/22/2013	3.5	71	800	
	8:50 AM				
Comments	7/22/2013	Release psi- float shoe held			
	9:00 AM				

Circulate 20 bbl cement to pit.

Cement Job Summary

Customer:	WPX Energy, Inc.	Customer Rep:	Jimmy
Well Name	Schepmann 1-21 SWD	API#:	
City:	Iuka	County:	Pratt
State:	Kansas	Legal description:	21-26S-12W
Contractor	Duke #21	Job Type:	Cement 9 5/8 surface
Well type:	New development	Sales person:	Kevin Gordley
Cement supervisor:	Robert Sullivan	Pump truck #:	77686-19905

Job Personnel & Equipment

Robert Sullivan in pickup 37900
Mike Mcgraw in pump truck 77686-19905
Jesse Pierson in bulk truck 19831-19862
Dale Phye in bulk truck 70959-19918

Well Data:

12 1/4" open hole to 965'
9 5/8" 36# casing to 956'

Float Equipment Ticket # 1718-08393 A

1- 9 5/8" top rubber plug
4- 9 5/8" stop rings
7- 9 5/8" x 12 1/4" bow spring centralizers
2- 9 5/8" baskets

Cement Data:

250 sacks A Serv Lite- 65% class A or Type I/II/ 35% Pozmix
3% Calcium Chloride- Pellets 80 lb
1/2 #/sk cellflake- 3/8" flakes
6% gel- Bentonite 100 lb
Fresh H2o
Density- 13.3 lb/gal, 1.66 cft/sk, 8.39 gallon h2o/sk
175 sacks Common cement- Class A regular or Type I/II
2% calcium Chloride- Pellets 80 lb
1/2 #/sk Cellflake- 3/8" flakes
Fresh H2o
Density- 15.6 lb/gal, 1.20 cft/sk, 5.2 gallon h2o/sk

PSI/VOLUMES/RATES

425 sacks cement volume of 111.5 bbl.
Displacement to 916' of 9 5/8" 36" casing is 70.8 bbl
Differential psi to 916' is 275 psi.
Average pump rate thru job is 5 BPM.

Cementing Job Log

Customer: WPX Energy, Inc.
Well Name: Schepmann #1-21 SWD
City: Iuka
State: Kansas
Contractor & rig#: Duke #20
Well Type: New development well
Sales person: Kevin Gordley
Pump truck#: 33708-20920

Customer Rep: Jimmy
API#:
County: Pratt
Legal Description: 21-26S-12W
Job Purpos Cement 7" longstring
Job Type: Cement 7" longstring
Cement Supervisor: Clarence Messick
Ticket #: 1718-08803 A

Activity:	Date/Time	Rate	Volume	Psi	Comments:
		BPM	bbl	psi	
On location	7/31/2013				Time on location
	2:30 AM				
Safety meeting	7/31/2013				
	2:45 AM				
Rig up	7/31/2013				
	8:00 AM				
PSI test	7/31/2013			2500	Test pump & line to 2500 psi
	8:55 AM				
Pump spacer	7/31/2013	6	18	300	Pump 3 bbl h2o, 12 bbl Mudflush,
	8:57 AM				3 bbl h2o, start mix
Pump cement	7/31/2013	6	194	200	500 sk A Serv Lite
	9:12 AM	6	89	200	350 sk AA2
Drop plug	7/31/2013				
	9:51 AM				
Start displacement	7/31/2013	7	0	o	
	9:52 AM				
Plug Down	7/31/2013	3.5	174	1800	Plug did not land, shut down 1/2
	10:30 AM				bbl over displacement
Comments	7/31/2013	Release psi- float shoe held			
	10:35 AM				

Good circulation thru job, did not circulate cement

Cement Job Summary

Customer:	WPX Energy, Inc.	Customer Rep:	Jimmy
Well Name	Schepmann 1-21 SWD	API#:	
City:	Iuka	County:	Pratt
State:	Kansas	Legal description:	21-26S-12W
Contractor	Duke #21	Job Type:	Cement 7" longstring
Well type:	New development	Sales person:	Kevin Gordley
Cement supervisor:	Clarence Messick	Pump truck #:	33708-20920

Job Personnel & Equipment

Clarence Messick in pickup 37216
Joe Melson in pump truck 33708-20920
om Mehlhorn in bulk truck 19960-21010
Dale Phye in bulk truck 70959-19918
Andrew Jones in bulk truck 19903-73768

Well Data:

8 3/4" open hole to 4469'
7" 23# casing to 4468'

Float Equipment Ticket # 1718-08877 A

1- 7" top rubber plug
2- 7" stop rings
4- 7" x 8 1/2" bow spring centralizers
2- 7" baskets

Cement Data:

500 sacks A Serv Lite- 65% class A or Type I/II/ 35% Pozmix
6% gel- Bentonite 100 lb
1/2 #/sk cellflake- 3/8" flakes
.25% defoamer- powder 50 lb
18% salt- fine 50 lb
Fresh h2o
Density- 12.6 lb/gal, 2.18 cft/sk, 12.41 gallon h2o/sk
350 sacks AA2 cement- Class A regular or Type I/II
1/2 #/sk Cellflake- 3/8" flakes
5 #/sk gilsonite- granular 50 lb
10% salt- fine 50 lb
5% gypsum- powder Cal seal W60
.25% defoamer- powder 50 lb
.3% cfr- powder 55 lb
.5% fla-322 low fluid loss- powder 55 lb
Fresh h2o
Density- 15.0 lb/gal, 1.43 cft/sk, 6.0 gallon h2o/sk

PSI/VOLUMES/RATES

850 sacks cement volume of 283 bbl.
Displacement of 4426' of 7" 23# casing is 174 bbl.
Differential psi to 4426' is 1289 psi
Average pump rate thru job is 6 BPM.

Cementing Job Log

Customer: WPX Energy, Inc.
Well Name: Schepmann #1-21H
City: Iuka
State: Kansas
Contractor & rig#: Duke #20
Well Type: New development well
Sales person: Kevin Gordley
Pump truck#: 27463

Customer Rep: Jimmy
API#:
County: Pratt
Legal Description: 21-26S-13W
Job Purpos Cement 13 13 3/8 conductor
Job Type: (Cement 13 3/8 conductor
Cement Supervisor: K(Mike Mattal
Ticket #: 1718-08754 A

Activity:	Date/Time	Rate	Volume	Psi	Comments:
		BPM	bbl		
On location	8/3/2013				Time on location
	7:10 PM				
Safety meeting	8/3/2013				
	7:30 PM				
Rig up	8/3/2013				
	8:00 PM				
PSI test	8/3/2013			1000	Test pump & line to 1000psi
	9:00 PM				
Pump spacer	8/3/2013	5	3	200	Pump 3 bbl h2o to break
	9:15 PM				circulation, then start mix
Pump cement	8/3/2013	5	32	200	cement.
	9:16PM				
Drop plug	8/3/2013	0	0	0	No plug
Start displacement	8/3/2013	5	0	200	
	9:25PM				
Finish displaceent	8/3/2013	2	16	100	
	9:30PM				
Comments	8/3/2013	Shut in swedge & valve with 100 psi.			
	9:31PM				

Circulate 16 bbl cement to pit.

Cement Job Summary

Customer:	WPX Energy, Inc.	Customer Rep:	Jimmy
Well Name	Schepmann 1-21H	API#:	
City:	Iuka	County:	Pratt
State:	Kansas	Legal description:	21-26S-12W
Contractor	Duke #21	Job Type:	Cement 13 3/8 conductor
Well type:	New development	Sales person:	Kevin Gordley
Cement supervisor:	Mike Mattal	Pump truck #:	27463

Job Personnel & Equipment

Mike Mattal in pickup #37216
Steve Young in pump truck #27463
Jesse Pierson in bulk truck #19960-21010

Well Data:

17 1/2" open hole to 126'
13 3/8" 54.5# conductor casing to 122'

Float Equipment Ticket # 1718-07350 A

4- 13 3/8" x 17 1/2" bow spring centralizers
2- 13 3/8" cement baskets
2- 13 3/8" stop ring

Cement Data:

150 sacks Common cement class 'A' with 2% calcium chloride, 1/2 #/sk cellflake mixed at 15.6 ppg, 1.20 cft/sk, 5.21 gallon h2o/sk.

PSI/VOLUMES/RATES

150 sacks cement volume of 32 bbl.
Displacement to 107' of 13 3/8" 54.5# casing is 16.5 bbl.
Differential psi at 107' is 40.4 psi.
Average pump rate thru job is 5 BPM.

Cementing Job Log

Customer: WPX Energy, Inc.
Well Name: Schepmann #1-21H
City: Iuka
State: Kansas
Contractor & rig#: Duke #20
Well Type: New development well
Sales person: Kevin Gordley
Pump truck#: 19889-19843

Customer Rep: Jimmy
API#:
County: Pratt
Legal Description: 21-26S-13W
Job Purpos Cement 9 5/8 surface
Job Type: (Cement 9 5/8 surface
Cement Supervisor: K(Keven Lesley
Ticket #: 1718-08574 A

Activity:	Date/Time	Rate	Volume	Psi	Comments:
		BPM	bbl	Psi	
On location	8/5/2013				Time on location
	9:00 AM				
Safety meeting	8/5/2013				
	9:15 AM				
Rig up	8/5/2013				
	10:00 AM				
PSI test	8/5/2013			2000	Test pump & line- 2000#
	4:30 PM				
Pump spacer	8/5/2013	6	3	300	Pump 3 bbl h2o to break
	4:49 PM				circulation, then start mix
Pump cement	8/5/2013	6	74	300	cement. 250 sk A Serv Lite,
	4:50 PM		38	200	175 sk Common.
Drop plug	8/5/2013	0	0	0	
	4:58 PM				
Start displacement	8/5/2013	6	0	o	H2o displacement
	5:00 M				
Plug down	8/5/2013	2	72.9	1000	Plug down
	5:30 PM				
Comments	8/5/2013	Release psi- Float held			
	5:31 PM				

Circulate 30 bbl cement to pit.

Cement Job Summary

Customer:	WPX Energy, Inc.	Customer Rep:	Jimmy
Well Name	Schepmann 1-21H	API#:	
City:	Iuka	County:	Pratt
State:	Kansas	Legal description:	21-26S-12W
Contractor	Duke #21	Job Type:	Cement 9 5/8 surface
Well type:	New development	Sales person:	Kevin Gordley
Cement supervisor:	Keven Lesley	Pump truck #:	19889- 19843

Job Personnel & Equipment

Keven Lesley in pickup 37586
Ed Marquez in pump truck 19889-19843
Jesse Pierson ion bulk truck 19831-19862
Mike Lawrence in bulk truck 19960-21010

Well Data:

12 1/4" open hole to 994'
9 5/8" 36# casing to 985'
13 3/8" 54.5# casing to 122'

Float Equipment Ticket # 1718-08573 A

1- 9 5/8" top rubber plug
3- 9 5/8" stop rings
4- 9 5/8" x 12 1/4" bow spring centralizers
2- 9 5/8" baskets
1- 9 5/8" float collar

Cement Data:

250 sacks A Serv Lite cement- 65% class A regular or Type I/II/35% Pozmix
6% gel- 100 lb sack bentonite
3% Calcium Chloride- Pellets 80 lb.
1/2 #/sk Cellflake- 3/8" Flakes
Fresh H2o
Density- 13.3 lb/gal, 1.66 cft/sk, 8.39 gallon h2o/sk
175 sacks Common cement- Class A regular or TypeI/II
2% Calcium Chloride- Pellets 80 lb.
1/2 #/sk Cellflake- 3/8" Flakes
Fresh H2o
Density- 15.6 lb/gal, 1.2 cft/sk, 5.2 gallon h2o/sk

PSI/VOLUMES/RATES

425 sacks cement volume of 111.3 bbl.
Displacement to 943' of 9 5/8" 36# casing is 72.9 bbl.
Diferential psi at 943' is 311.78 psi.
Average pump rate thru job is 6 BPM.

Cement Callsheet

BASIC ENERGY SERVICES

Company	WPX Energy, Inc.	Service Point	PRATT, KS.
		Contact Person	KEVIN GORDLEY 620-672-1201

Well Type	NEW	CONTRACTOR	DKE 20		COUNTY	PRATT		STATE	KS
LEASE	DODSON A	WELL #	1-16H	SEC	16	TWP	26	RANGE	13

DIRECTIONS:

HWY 281 & BYERS BLTP- 1/2 WEST- NORTH INTO. STOP AT GUARD HOUSE TO SIGN IN.

Job Type	8609' 4 1/2 Liner	Casing Size 4 1/2	Thread 8RND	Weight
Equipment	Caliper log shows 638 cft to 4708' 7" shoe. Liner hanger at 4450'. TOC 100' above liner hanger.	Tubing/Drill Pipe Size	Thread	Weight
		Hole Size 6 1/8	Packer	Bridge Plug
Remarks:	7" SET AT 4708'	Plug Container	Casing Swivel	Squeeze Manifold

8609' 4 1/2 liner

CEMENT DATA

LEAD 1	Weight PPG	Type		Additives
Sacks	Excess	Yield Ft³/sk	Water Gal/sk	
TAIL 1 CP100P	Weight PPG 15.60	Type Premium Cement		Additives Class H CEMENT with .25% DEFOAMER, 10% SALT, .75% CFR, .1% WCA-1
Sacks 650	Excess 100%	Yield Ft³/sk 1.24	Water Gal/sk 5.43	
LEAD 2	Weight PPG	Type		Additives
Sacks	Excess	Yield Ft³/sk	Water Gal/sk	
TAIL 2	Weight PPG	.		Additives
Sacks	Excess	Yield Ft³/sk	Water Gal/sk	
Mouse/Rat	Weight PPG	Type		Additives
Sacks	Excess	Yield Ft³/sk	Water Gal/sk	

Float Equipment

Part #	Quanity	Description		# Used	# Returned

Misc. Chemicals

C704	5	Claymax KCl Substitute		
CC131	50	Sugar		
CC151	500	Mud Flush		

Ordered By	SEAN BERZAS	Phone 539-573-5119	Fax		Date of Job	07/16/13
Call Taken By	KEVIN GORDLEY	Phone 620-770-2191	Email		Time Ready	WC
Operator or Driver Called	JIMMY- 713-206-3559				Call Out Time	

WPX Energy, Inc.
DODSON A #1-16H
PRATT County, KS
Sec. 16-26-13
8609' 4 1/2 liner
16-Jul-13

Well Data and Calculations

	Lead 1 Cement	Tail 1 Cement	Lead 2 Cement	Tail 2 Cement	Top Out Cement
Well Type:	NEW	NEW	NEW	NEW	
Job Type:	8609' 4 1/2 Liner	8609' 4 1/2 Liner	8609' 4 1/2 Liner	8609' 4 1/2 Liner	
Cement Weight PPG :		15.60			
Hole Size:	6.125	6.125	6.125	6.125	
Casing Size:	4.500	4.500	4.500	4.500	
Bottom of Cement:	4350	8609			
Top of Cement:	4350	4350			
Percent Excess:		100%			
Annulus Cal: (bbl/ft)	0.0168	0.0168	0.0168	0.0168	
Annulus Cal: (cft/ft)	0.0942	0.0942	0.0942	0.0942	
Annulus Vol: (ft/cft)	10.6194	10.6194	10.6194	10.6194	
Annulus Vol: cft		802.06			
Annulus Vol: ft		8517.40			
Fluid Yield: cft/sk	**1.62**	**1.24**	**1.18**	**1.38**	**1.26**
Annular Vol.bbls	72.96	144.39			
Slurry Volume: bbls		142.85			
Fluid Water Ratio: gal/sk	**8.23**	**5.43**	**5.20**	**5.63**	**5.73**
Shoe Length: Ft.		1			
Shoe Calculation: bbl/ft		0.0155		0.0010	
Pipe ID:Inches		4.0000			
Shoe Volume: bbls		0.02			
Shoe Volume: cft		0.09			
Cement Plus shoe: cft		802.15			
Cement Plus shoe: bbls		142.86			
Total mixing Water: bbls		83.63			
Displacement: bbls		133.80			
Calculated cement: Sks		**646.89**			
Total water required: bbls		217.44			

Cement Recommendations

Lead 1 Cement			
Tail 1 Cement	**650**	Premium Cement	650 sks
Lead 2 Cement			
Tail 2 Cement			
Mouse & Rat Hole Cement			
		Total:	650 sks

Float Equipment

Misc. Chemicals

Claymax KCl Substitute
Sugar
Mud Flush

WPX Energy, Inc.
DODSON A #1-16H
PRATT County, KS
Sec. 16-26-13
8609' 4 1/2 liner

Fluid Specifications

Tail 1 Cement: Premium Cement

Chem Code	CHEMICAL	U/M	LOADING PER CWT			
			Premium Cement			
			1st Stage Tail			
			611 cwt.			
CC105	C-41P Defoamer	lb	0.250			
CC111	Salt	lb	4.808			
CC112	Cement Friction Reducer	lb.	0.750			
CC130	C-51 Water Control Agent	lb.	0.100			

Special Instructions

Psi test pump & line to 5000 psi.
Pump 500 gallon mudflush, 20 bbl H2o spacer.
Pump 650 sacks 'H' cement with .25% defoamer, 10% salt, .75% cement friction reducer, .1% water control agent at 15.6ppg, 1.24 cft/sk, 5.4 gallon H2o/ sack.
Wash pump & line clean with sugar H2o.
Drop plug
Displace plug down with 2% KCL H2o and sugar in 1st 10 bbl displacement.
Land plug 500 psi over differential psi.
Release psi and check float.
Release drill pipe from liner and circulate well clean with h2o.
Watch for cement circulated to pit.

Need 400 bbl fresh H2o for job.

638 cft + 38 cft= 676 cft/ 1.24 cft/sk= 545 sacks cement with no excess over caliper log.
Jimmy decided to run 650 sacks cement, 105 sacks excess over caliper log.

Tail Stage 1

ENTER % CEMENT AND/OR % POZ IN COLUMN B		BULK PLANT SLURRY CALCULATOR					
				ADDITIVES			LBS
		%	LBS	Bentonite Gel		%	
Class A				Calcium Chloride		%	
Class C				C-15 Fluid Loss		%	
Class H	100	61100		C-20 Retarder		%	
Pozmix A				C-37 Frict /Dispersant	0.75	%	458.3
Micro Matrix				C-41P Defoamer/Powder	0.25	%	152.8
Total Lbs of Cement		61100		C-43 Thix-O-Tropic		%	
				C-44 Gasblock/Expander		%	
				C-45 Sodium Metasilicate		%	
Number of sacks		650		C-51 Free Water Control	0.1	%	61.1
Calculated with standard water requirements		User Input		Gypsum		%	
				KCl (bww)		%	
Slurry Wt. =>	15.60	15.60		Salt (bww)	10	%	2938.0
Water Req. =>	5.43						
Slurry Yield =>	1.24			Celloflake		#/sk	
				Gilsonite		#/sk	
				Pheno Seal		#/sk	
				20/40 Sand		#/sk	
Pozmix factor (lbs/cu ft)		74					
Pozmix factor (gal/lb)		0.0487					
Pozmix water requirement (gal/sk)		3.55					

4.80845 lbs Salt per CWT

lbs KCLper CWT

Celloflake Per CWT

Pheno Seal Per CWT

Gilsonite Per CWT

20/40 Sand Per CWT

BASIC ENERGY SERVICES

Date: 7/16/2013 Customer: WPX Energy, Inc. Prefared for: SEAN BERZAS

County: PRATTKS Lease: DODSON A1-16H 539-573-5119

Location:

Directions HWY 281 & BYERS BLTP- 1/2 WEST- NORTH INTO. STOP AT GUARD HOUSE TO SIGN IN.

Special Information:

Sacks with

Weight Yield Mix water

Sacks 650 Premium Cement with Class H CEMENT with .25% DEFOAMER, 10% SALT, .75% CFR, .1% WCA-1

Weight 15.60 Yield 1.24 Mix water 5.43

Sacks with

Weight Yield Mix water

Sacks with

Weight Yield Mix water

PRICE ESTIMATE

CODE					
			Cement		
CP100P	650	sk.	Premium Cement		$11,700.00
			Chemicals		
CC105	153	lb	C-41P Defoamer		$612.00
CC111	2938	lb	Salt		$1,469.00
CC112	459	lb.	Cement Friction Reducer		$2,754.00
CC130	62	lb.	C-51 Water Control Agent		$1,550.00
			Float Equipment		
			Misc. Chemicals		
C704	5	gal	Claymax KCl Substitute		$175.00
CC131	50	lb	Sugar		$100.00
CC151	500	gal.	Mud Flush		$430.00
			Equipment		
E100	10	mi	Unit Mileage Charge-Pickups, Small Vans & Cars (one way)		$42.50
E101	30	mi	Heavy Equipment Mileage		$210.00
E113	306	tm	Proppant and Bulk Delivery Charges, per ton mile	30.6 tons	$488.80
CE209	1	4hrs	Depth Charge; 8001'-9000'		$3,960.00
CE240	650	sk	Blending & Mixing Service Charge		$910.00
S003	1	ea	Service Supervisor, first 8 hrs on loc.		$175.00

No guarantee, written, expressed or implied Sales tax not included

Thank You

KEVIN GORDLEY Cell 620-770-2191
PRATT, KS. Office 620-672-1201

Discounted Total $17,203.41

Sales Tax not included

Terms: 30 days from invoice date

LEAM Drilling Systems, Inc.

Job Number: OK-130651
Company: WPX Energy
Lease/Well: Dodson A 1-16H
Location: Prater County, KS
Rig Name: Duke #20
RKB: 10'
G.L. or M.S.L.: GL

State/Country: Kansas
Declination: 4.92
Grid: 0.15
File name: E:\DODSON~1\WINSURV\130651.SVY
Date/Time: 12-Jul-13 / 07:05
Curve Name: as drilled

as drilled

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
138.00	.20	205.60	138.00	-.22	-.10	-.22	.24	205.60	.14
200.00	.20	223.00	200.00	-.39	-.22	-.39	.45	209.69	.10
293.00	.20	290.90	293.00	-.45	-.49	-.45	.67	226.96	.24
386.00	.10	303.10	386.00	-.35	-.71	-.35	.79	243.49	.11
478.00	.30	324.70	478.00	-.11	-.91	-.11	.92	263.00	.23
511.00	.10	328.40	511.00	-.02	-.98	-.02	.98	269.00	.61
542.00	.10	150.20	542.00	-.02	-.98	-.02	.98	268.98	.65
573.00	.50	155.60	573.00	-.16	-.91	-.16	.92	259.77	1.29
604.00	.70	138.20	604.00	-.43	-.73	-.43	.84	239.50	.87
635.00	1.10	138.50	634.99	-.79	-.40	-.79	.89	207.01	1.29
666.00	1.20	130.00	665.99	-1.22	.04	-1.22	1.22	178.04	.64
697.00	1.50	139.10	696.98	-1.74	.56	-1.74	1.83	162.27	1.19
728.00	1.70	132.40	727.96	-2.36	1.16	-2.36	2.63	153.76	.88
759.00	1.90	141.00	758.95	-3.07	1.82	-3.07	3.57	149.24	1.08
790.00	2.00	141.50	789.93	-3.89	2.48	-3.89	4.61	147.42	.33
821.00	2.10	141.60	820.91	-4.76	3.17	-4.76	5.72	146.29	.32
852.00	2.40	136.40	851.89	-5.67	3.97	-5.67	6.93	144.98	1.17
883.00	2.70	134.00	882.86	-6.65	4.95	-6.65	8.29	143.35	1.03
913.00	3.50	129.50	912.81	-7.72	6.16	-7.72	9.88	141.41	2.79
945.00	4.20	126.20	944.74	-9.04	7.86	-9.04	11.98	138.98	2.29
976.00	4.80	125.80	975.64	-10.47	9.83	-10.47	14.36	136.79	1.94
1007.00	5.10	128.30	1006.53	-12.08	11.96	-12.08	17.00	135.27	1.19
1221.00	5.40	127.70	1219.63	-24.13	27.39	-24.13	36.51	131.38	.14
1407.00	6.00	128.10	1404.71	-35.48	41.97	-35.48	54.96	130.21	.32

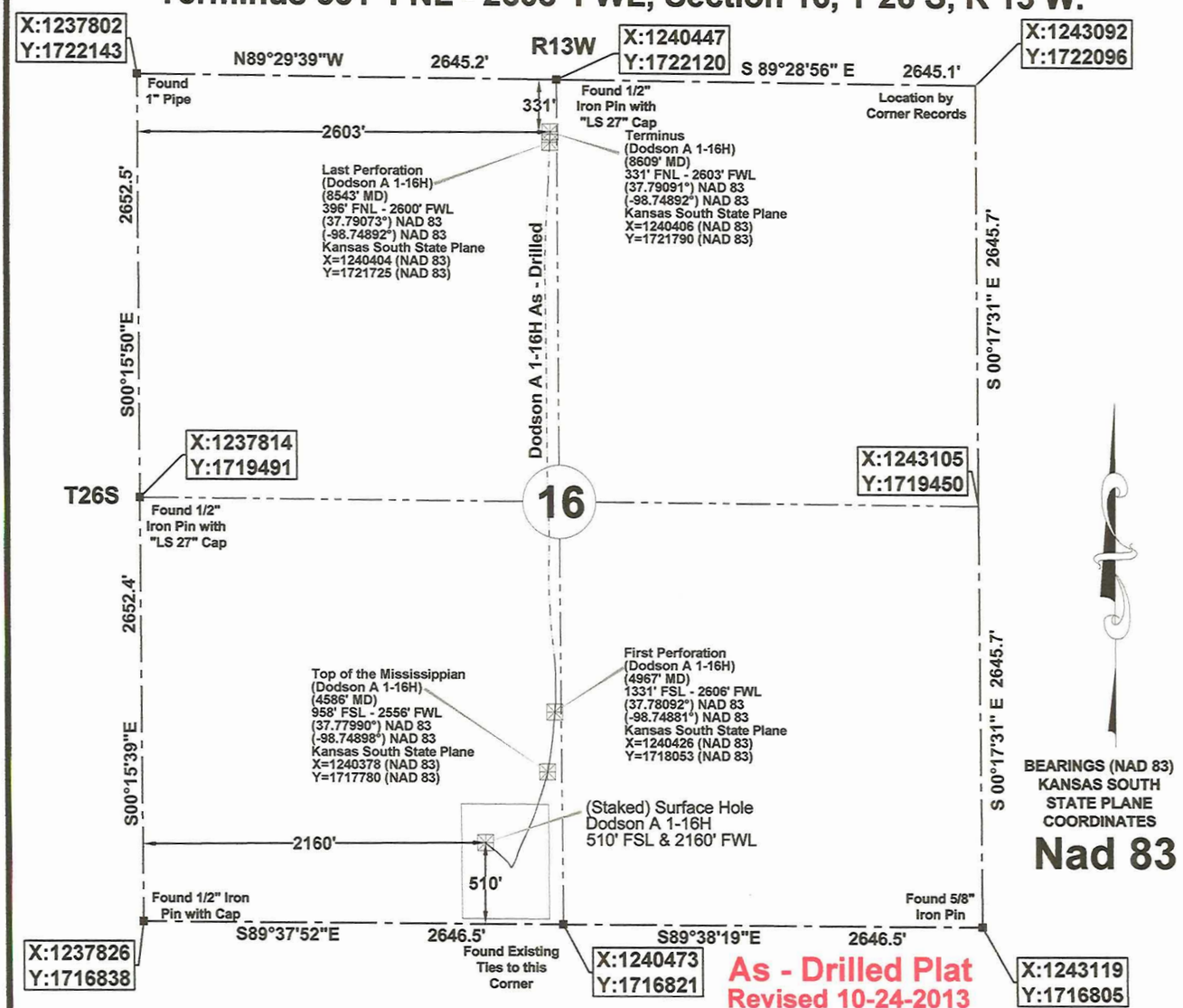
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E Distance FT	C L O S U R E Direction Deg	Dogleg Severity Deg/100
1593.00	6.60	124.90	1589.59	-47.60	58.39	-47.60	75.33	129.19	.37
1778.00	6.60	131.50	1773.36	-60.72	75.07	-60.72	96.55	128.97	.41
1967.00	6.90	134.20	1961.05	-75.84	91.34	-75.84	118.72	129.70	.23
2154.00	3.90	133.80	2147.20	-88.07	103.99	-88.07	136.27	130.26	1.60
2342.00	3.30	129.60	2334.83	-95.95	112.77	-95.95	148.06	130.39	.35
2529.00	4.80	135.60	2521.36	-104.97	122.39	-104.97	161.24	130.62	.83
2715.00	3.70	136.00	2706.85	-114.84	132.01	-114.84	174.97	131.02	.59
2901.00	4.20	136.00	2892.40	-124.06	140.91	-124.06	187.74	131.36	.27
3086.00	3.10	151.60	3077.03	-133.33	147.99	-133.33	199.20	132.02	.80
3272.00	3.80	156.80	3262.69	-143.42	152.81	-143.42	209.58	133.18	.41
3458.00	3.60	137.90	3448.31	-153.42	159.16	-153.42	221.06	133.95	.66
3489.00	3.80	135.00	3479.25	-154.87	160.54	-154.87	223.06	133.97	.88
3519.00	3.40	111.30	3509.19	-155.90	162.07	-155.90	224.88	133.89	5.10
3550.00	3.40	65.30	3540.14	-155.85	163.76	-155.85	226.07	133.58	8.57
3581.00	5.60	38.00	3571.05	-154.27	165.53	-154.27	226.27	132.98	9.72
3612.00	8.40	28.30	3601.81	-151.08	167.53	-151.08	225.60	132.04	9.77
3643.00	11.00	28.90	3632.37	-146.50	170.04	-146.50	224.44	130.75	8.39
3674.00	13.50	29.20	3662.66	-140.75	173.23	-140.75	223.20	129.09	8.07
3705.00	15.50	28.30	3692.67	-133.95	176.96	-133.95	221.94	127.12	6.49
3736.00	17.50	27.50	3722.39	-126.16	181.08	-126.16	220.69	124.87	6.49
3767.00	19.60	25.30	3751.78	-117.33	185.45	-117.33	219.45	122.32	7.14
3798.00	20.20	23.10	3780.93	-107.70	189.77	-107.70	218.21	119.58	3.10
3829.00	21.80	20.30	3809.87	-97.38	193.87	-97.38	216.95	116.67	6.09
3860.00	24.00	18.10	3838.43	-85.99	197.83	-85.99	215.71	113.49	7.61
3891.00	27.40	17.50	3866.35	-73.19	201.93	-73.19	214.79	109.92	11.00
3922.00	31.30	18.80	3893.37	-58.76	206.67	-58.76	214.86	105.87	12.75
3953.00	35.10	22.00	3919.31	-42.86	212.61	-42.86	216.89	101.40	13.49
3984.00	38.60	24.10	3944.11	-25.77	219.90	-25.77	221.40	96.68	12.00
4015.00	41.20	24.80	3967.89	-7.67	228.13	-7.67	228.26	91.93	8.51
4046.00	43.10	25.20	3990.87	11.19	236.93	11.19	237.19	87.30	6.19
4077.00	45.60	25.10	4013.04	30.80	246.13	30.80	248.05	82.87	8.07
4108.00	48.10	25.10	4034.24	51.28	255.73	51.28	260.82	78.66	8.06
4139.00	49.70	25.30	4054.62	72.41	265.67	72.41	275.37	74.75	5.18
4169.00	51.40	23.90	4073.68	93.48	275.31	93.48	290.75	71.25	6.72
4200.00	53.30	22.60	4092.61	116.03	285.00	116.03	307.71	67.85	6.97
4231.00	55.40	22.00	4110.68	139.33	294.55	139.33	325.85	64.68	6.95
4262.00	58.40	21.80	4127.61	163.43	304.24	163.43	345.35	61.76	9.69
4293.00	61.40	20.30	4143.15	188.45	313.86	188.45	366.10	59.02	10.54
4324.00	62.90	18.90	4157.64	214.27	323.06	214.27	387.66	56.44	6.27
4355.00	64.00	18.60	4171.49	240.53	331.97	240.53	409.95	54.07	3.65
4386.00	64.80	19.00	4184.89	267.00	340.98	267.00	433.08	51.94	2.83
4417.00	64.80	18.90	4198.09	293.53	350.09	293.53	456.86	50.02	.29
4447.00	66.70	18.10	4210.41	319.47	358.77	319.47	480.39	48.32	6.78
4479.00	68.20	16.60	4222.68	347.67	367.58	347.67	505.95	46.59	6.38
4510.00	69.40	16.40	4233.89	375.39	375.78	375.39	531.16	45.03	3.92

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E Distance FT	C L O S U R E Direction Deg	Dogleg Severity Deg/100
4540.00	71.00	15.20	4244.05	402.54	383.47	402.54	555.96	43.61	6.53
4571.00	72.50	13.60	4253.76	431.06	390.79	431.06	581.83	42.19	6.89
4602.00	74.20	12.30	4262.64	460.00	397.44	460.00	607.92	40.83	6.80
4633.00	76.50	11.00	4270.48	489.37	403.50	489.37	634.27	39.51	8.46
4664.00	79.10	9.30	4277.03	519.20	408.83	519.20	660.84	38.22	9.95
4695.00	80.40	7.50	4282.55	549.37	413.29	549.37	687.47	36.95	7.09
4735.00	81.60	7.30	4288.81	588.55	418.38	588.55	722.10	35.41	3.04
4782.00	82.40	6.80	4295.35	634.74	424.09	634.74	763.38	33.75	2.00
4813.00	83.80	6.40	4299.07	665.31	427.62	665.31	790.89	32.73	4.69
4844.00	86.30	5.60	4301.75	696.02	430.85	696.02	818.59	31.76	8.46
4875.00	90.60	3.60	4302.59	726.90	433.34	726.90	846.27	30.80	15.30
4906.00	90.40	5.90	4302.31	757.79	435.90	757.79	874.22	29.91	7.45
4937.00	90.50	6.10	4302.07	788.62	439.14	788.62	902.65	29.11	.72
4967.00	90.80	6.40	4301.73	818.44	442.41	818.44	930.36	28.39	1.41
4998.00	90.20	4.80	4301.46	849.29	445.43	849.29	959.01	27.68	5.51
5029.00	88.90	2.40	4301.70	880.23	447.38	880.23	987.40	26.94	8.80
5066.00	86.50	359.70	4303.19	917.19	448.06	917.19	1020.78	26.04	9.76
5097.00	86.60	359.40	4305.05	948.13	447.82	948.13	1048.56	25.28	1.02
5128.00	87.90	.00	4306.54	979.09	447.65	979.09	1076.57	24.57	4.62
5159.00	89.30	.40	4307.30	1010.08	447.76	1010.08	1104.88	23.91	4.70
5190.00	90.30	359.70	4307.41	1041.08	447.79	1041.08	1133.30	23.27	3.94
5221.00	90.10	357.80	4307.30	1072.07	447.11	1072.07	1161.57	22.64	6.16
5252.00	89.10	355.60	4307.52	1103.02	445.33	1103.02	1189.52	21.99	7.80
5283.00	89.10	354.70	4308.00	1133.90	442.71	1133.90	1217.26	21.33	2.90
5314.00	89.20	354.30	4308.46	1164.76	439.74	1164.76	1245.00	20.68	1.33
5407.00	89.60	354.20	4309.44	1257.28	430.42	1257.28	1328.92	18.90	.44
5500.00	89.80	355.50	4309.92	1349.90	422.07	1349.90	1414.35	17.36	1.41
5593.00	89.50	357.20	4310.49	1442.71	416.15	1442.71	1501.53	16.09	1.86
5627.00	88.50	356.20	4311.08	1476.65	414.20	1476.65	1533.64	15.67	4.16
5719.00	87.70	357.70	4314.14	1568.46	409.30	1568.46	1620.99	14.63	1.85
5811.00	86.80	359.60	4318.55	1660.33	407.14	1660.33	1709.52	13.78	2.28
5904.00	89.70	2.00	4321.39	1753.26	408.44	1753.26	1800.20	13.11	4.05
5996.00	89.40	1.40	4322.11	1845.21	411.17	1845.21	1890.47	12.56	.73
6089.00	90.00	359.30	4322.60	1938.20	411.73	1938.20	1981.45	11.99	2.35
6182.00	87.90	357.20	4324.30	2031.14	408.89	2031.14	2071.88	11.38	3.19
6274.00	91.90	357.40	4324.46	2123.01	404.56	2123.01	2161.22	10.79	4.35
6367.00	95.00	359.00	4318.87	2215.79	401.64	2215.79	2251.89	10.27	3.75
6460.00	94.20	359.50	4311.41	2308.48	400.43	2308.48	2342.95	9.84	1.01
6553.00	88.80	359.80	4308.98	2401.41	399.86	2401.41	2434.47	9.45	5.82
6646.00	86.40	359.40	4312.87	2494.32	399.22	2494.32	2526.06	9.09	2.62
6738.00	88.80	359.30	4316.72	2586.22	398.17	2586.22	2616.70	8.75	2.61
6831.00	91.20	359.80	4316.72	2679.21	397.44	2679.21	2708.53	8.44	2.64
6924.00	94.00	.00	4312.50	2772.11	397.28	2772.11	2800.43	8.16	3.02
7017.00	91.30	.20	4308.20	2865.00	397.44	2865.00	2892.44	7.90	2.91
7110.00	89.60	359.50	4307.47	2957.99	397.20	2957.99	2984.54	7.65	1.98

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E Distance FT	C L O S U R E Direction Deg	Dogleg Severity Deg/100
7202.00	92.10	359.40	4306.11	3049.97	396.32	3049.97	3075.61	7.40	2.72
7295.00	93.90	358.50	4301.24	3142.82	394.61	3142.82	3167.50	7.16	2.16
7388.00	92.50	359.20	4296.05	3235.66	392.75	3235.66	3259.41	6.92	1.68
7480.00	88.00	359.50	4295.65	3327.63	391.71	3327.63	3350.60	6.71	4.90
7573.00	86.30	359.10	4300.27	3420.50	390.57	3420.50	3442.73	6.51	1.88
7666.00	91.00	358.70	4302.46	3513.43	388.79	3513.43	3534.88	6.31	5.07
7759.00	92.20	1.00	4299.87	3606.39	388.55	3606.39	3627.26	6.15	2.79
7852.00	93.70	1.10	4295.08	3699.25	390.25	3699.25	3719.77	6.02	1.62
7944.00	91.70	1.90	4290.75	3791.11	392.65	3791.11	3811.39	5.91	2.34
8037.00	89.70	3.10	4289.61	3884.01	396.71	3884.01	3904.21	5.83	2.51
8130.00	87.70	3.20	4291.72	3976.84	401.82	3976.84	3997.08	5.77	2.15
8223.00	89.10	2.90	4294.32	4069.67	406.76	4069.67	4089.94	5.71	1.54
8315.00	84.90	2.90	4299.13	4161.40	411.41	4161.40	4181.69	5.65	4.57
8408.00	88.60	2.20	4304.40	4254.14	415.54	4254.14	4274.39	5.58	4.05
8501.00	88.90	1.70	4306.43	4347.07	418.70	4347.07	4367.19	5.50	.63
8556.00	88.60	1.90	4307.63	4402.03	420.43	4402.03	4422.06	5.46	.66
Proj to Bit @ TD									
8609.00	88.60	1.90	4308.93	4454.98	422.19	4454.98	4474.94	5.41	.00

Pratt County, Kansas.

Terminus 331' FNL - 2603' FWL, Section 16, T 26 S, R 13 W.



BEARINGS (NAD 83)
KANSAS SOUTH
STATE PLANE
COORDINATES

Nad 83

As - Drilled Plat
Revised 10-24-2013
Adjusted Surface Hole and Bottom Hole

0' 1000' 2000' 3000'

Legend

Section Line

1/4 Section Line

BOTTOM HOLE INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.
CORNER COORDINATES ARE TAKEN FROM POINTS SURVEYED IN THE FIELD.

ELEVATION:
1940' GR. AT STAKE

OPERATOR: WPX Energy

WELL NO. 1-16H

LEASE NAME: Dodson A

TOPOGRAPHY & VEGETATION: LEVEL TO SLOPED GRASS PASTURE.

GOOD DRILL SITE: YES

REFERENCE STAKES OR ALTERNATE LOCATION
STAKES SET: NONE

BEST ACCESSIBILITY TO LOCATION: FROM THE SOUTH

DISTANCE & DIRECTION
FROM HWY JCT OR TOWN: From Pratt, Kansas, Intersection of Hwy 54 and 281, go 9.0 mi. north on Hwy 281, then .60 mi. west on Asphalt Road, then north 300' to location stake.

48 HOURS BEFORE YOU DIG...
CALL KANSAS ONE-CALL
1-800-344-7233
KANSAS ONE-CALL SYSTEM

Buried utilities are not necessarily shown. It is the contractor's responsibility to locate and preserve all utility services.

Contractor is responsible for contacting all utility companies prior to construction.

REVISION:
INVOICE #: 18320

DATE OF DRAWING: October 23, 2013
DATE STAKED: October 25, 2012

STAKED SURFACE HOLE

DATUM:Nad 83
N: 37°46'43.208"
W: 98°45'01.209"
LAT: 37.77867°
LONG: -98.75034°
STATE PLANE
COORDINATES: (US FEET)
ZONE: Kansas South
X: 1239984
Y: 1717335

We do hereby certify that this survey was done in accordance to records, maps and other information as provided to us by the client herein named and that great care was taken in the actual staking of this well and the determination of any obstacles thereupon. However, the accuracy of this survey is not guaranteed and if there appears to be any discrepancy, please notify us immediately.

ROGER D. JIVIDEN
REGISTERED
L.S. 760
10-24-13
KANSAS
LAND SURVEYOR

Survey is valid only if print has original seal and signature of surveyor present

JIVIDENS LAND SURVEY CO., INC.
1210 19TH STREET / P.O. BOX 943
WOODWARD, OKLAHOMA 73802
Phone 580-256-7174 - Fax 580-256-3424
roger@jividenslandsurvey.com mike@jividenslandsurvey.com

Survey For:	JOB	DATE OF PLAT	SCALE	SHEET
WPX Energy 721 South Main Avenue Aztec, New Mexico 87410	652-13 producing	10-23-2013	1"=1000'	1 OF 1
	DRAWN BY R.D.J.	OKLA. CA #2064, EXP. 06/30/2015 KANSAS CA #143, EXP. 12/31/2014		

MD	INCL	AZIMUTH	TVD	VS	N(+)	E(+)	DL/100'	BUILD/100'
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138.00	0.20	205.60	138.00	-0.22	-0.22	-0.10	0.14	0.14
200.00	0.20	223.00	200.00	-0.39	-0.39	-0.22	0.10	0.00
293.00	0.20	290.90	293.00	-0.45	-0.45	-0.49	0.24	0.00
386.00	0.10	303.10	386.00	-0.35	-0.35	-0.71	0.11	-0.11
478.00	0.30	324.70	478.00	-0.11	-0.11	-0.91	0.23	0.22
511.00	0.10	328.40	511.00	-0.02	-0.02	-0.98	0.61	-0.61
542.00	0.10	150.20	542.00	-0.02	-0.02	-0.98	0.65	0.00
573.00	0.50	155.60	573.00	-0.16	-0.16	-0.91	1.29	1.29
604.00	0.70	138.20	604.00	-0.43	-0.43	-0.73	0.87	0.65
635.00	1.10	138.50	634.99	-0.79	-0.79	-0.40	1.29	1.29
666.00	1.20	130.00	665.99	-1.22	-1.22	0.04	0.64	0.32
697.00	1.50	139.10	696.98	-1.74	-1.74	0.56	1.19	0.97
728.00	1.70	132.40	727.96	-2.36	-2.36	1.16	0.88	0.65
759.00	1.90	141.00	758.95	-3.07	-3.07	1.82	1.08	0.65
790.00	2.00	141.50	789.93	-3.89	-3.89	2.48	0.33	0.32
821.00	2.10	141.60	820.91	-4.76	-4.76	3.17	0.32	0.32
852.00	2.40	136.40	851.89	-5.67	-5.67	3.97	1.17	0.97
883.00	2.70	134.00	882.86	-6.65	-6.65	4.95	1.03	0.97
913.00	3.50	129.50	912.81	-7.72	-7.72	6.16	2.79	2.67
945.00	4.20	126.20	944.74	-9.04	-9.04	7.86	2.29	2.19
976.00	4.80	125.80	975.64	-10.47	-10.47	9.83	1.94	1.94
1007.00	5.10	128.30	1006.53	-12.08	-12.08	11.96	1.19	0.97
1221.00	5.40	127.70	1219.63	-24.13	-24.13	27.39	0.14	0.14
1407.00	6.00	128.10	1404.71	-35.48	-35.48	41.97	0.32	0.32
1593.00	6.60	124.90	1589.59	-47.60	-47.60	58.39	0.37	0.32
1778.00	6.60	131.50	1773.36	-60.72	-60.72	75.07	0.41	0.00
1967.00	6.90	134.20	1961.05	-75.84	-75.84	91.34	0.23	0.16
2154.00	3.90	133.80	2147.20	-88.07	-88.07	103.99	1.60	-1.60
2342.00	3.30	129.60	2334.83	-95.95	-95.95	112.77	0.35	-0.32
2529.00	4.80	135.60	2521.36	-104.97	-104.97	122.39	0.83	0.80
2715.00	3.70	136.00	2706.85	-114.84	-114.84	132.01	0.59	-0.59
2901.00	4.20	136.00	2892.40	-124.06	-124.06	140.91	0.27	0.27
3086.00	3.10	151.60	3077.03	-133.33	-133.33	147.99	0.80	-0.59
3272.00	3.80	156.80	3262.69	-143.42	-143.42	152.81	0.41	0.38
3458.00	3.60	137.90	3448.31	-153.42	-153.42	159.16	0.66	-0.11
3489.00	3.80	135.00	3479.25	-154.87	-154.87	160.54	0.88	0.65
3519.00	3.40	111.30	3509.19	-155.90	-155.90	162.07	5.10	-1.33
3550.00	3.40	65.30	3540.14	-155.85	-155.85	163.76	8.57	0.00
3581.00	5.60	38.00	3571.05	-154.27	-154.27	165.53	9.72	7.10
3612.00	8.40	28.30	3601.81	-151.08	-151.08	167.53	9.77	9.03
3643.00	11.00	28.90	3632.37	-146.50	-146.50	170.04	8.39	8.39
3674.00	13.50	29.20	3662.66	-140.75	-140.75	173.23	8.07	8.06
3705.00	15.50	28.30	3692.67	-133.95	-133.95	176.96	6.49	6.45
3736.00	17.50	27.50	3722.39	-126.16	-126.16	181.08	6.49	6.45
3767.00	19.60	25.30	3751.78	-117.33	-117.33	185.45	7.14	6.77

3798.00	20.20	23.10	3780.93	-107.70	-107.70	189.77	3.10	1.94
3829.00	21.80	20.30	3809.87	-97.38	-97.38	193.87	6.09	5.16
3860.00	24.00	18.10	3838.43	-85.99	-85.99	197.83	7.61	7.10
3891.00	27.40	17.50	3866.35	-73.19	-73.19	201.93	11.00	10.97
3922.00	31.30	18.80	3893.37	-58.76	-58.76	206.67	12.75	12.58
3953.00	35.10	22.00	3919.31	-42.86	-42.86	212.61	13.49	12.26
3984.00	38.60	24.10	3944.11	-25.77	-25.77	219.90	12.00	11.29
4015.00	41.20	24.80	3967.89	-7.67	-7.67	228.13	8.51	8.39
4046.00	43.10	25.20	3990.87	11.19	11.19	236.93	6.19	6.13
4077.00	45.60	25.10	4013.04	30.80	30.80	246.13	8.07	8.06
4108.00	48.10	25.10	4034.24	51.28	51.28	255.73	8.06	8.06
4139.00	49.70	25.30	4054.62	72.41	72.41	265.67	5.18	5.16
4169.00	51.40	23.90	4073.68	93.48	93.48	275.31	6.72	5.67
4200.00	53.30	22.60	4092.61	116.03	116.03	285.00	6.97	6.13
4231.00	55.40	22.00	4110.68	139.33	139.33	294.55	6.95	6.77
4262.00	58.40	21.80	4127.61	163.43	163.43	304.24	9.69	9.68
4293.00	61.40	20.30	4143.15	188.45	188.45	313.86	10.54	9.68
4324.00	62.90	18.90	4157.64	214.27	214.27	323.06	6.27	4.84
4355.00	64.00	18.60	4171.49	240.53	240.53	331.97	3.65	3.55
4386.00	64.80	19.00	4184.89	267.00	267.00	340.98	2.83	2.58
4417.00	64.80	18.90	4198.09	293.53	293.53	350.09	0.29	0.00
4447.00	66.70	18.10	4210.41	319.47	319.47	358.77	6.78	6.33
4479.00	68.20	16.60	4222.68	347.67	347.67	367.58	6.38	4.69
4510.00	69.40	16.40	4233.89	375.39	375.39	375.78	3.92	3.87
4540.00	71.00	15.20	4244.05	402.54	402.54	383.47	6.53	5.33
4571.00	72.50	13.60	4253.76	431.06	431.06	390.79	6.89	4.84
4602.00	74.20	12.30	4262.64	460.00	460.00	397.44	6.80	5.48
4633.00	76.50	11.00	4270.48	489.37	489.37	403.50	8.46	7.42
4664.00	79.10	9.30	4277.03	519.20	519.20	408.83	9.95	8.39
4695.00	80.40	7.50	4282.55	549.37	549.37	413.29	7.09	4.19
4735.00	81.60	7.30	4288.81	588.55	588.55	418.38	3.04	3.00
4782.00	82.40	6.80	4295.35	634.74	634.74	424.09	2.00	1.70
4813.00	83.80	6.40	4299.07	665.31	665.31	427.62	4.69	4.52
4844.00	86.30	5.60	4301.75	696.02	696.02	430.85	8.46	8.06
4875.00	90.60	3.60	4302.59	726.90	726.90	433.34	15.30	13.87
4906.00	90.40	5.90	4302.31	757.79	757.79	435.90	7.45	-0.65
4937.00	90.50	6.10	4302.07	788.62	788.62	439.14	0.72	0.32
4967.00	90.80	6.40	4301.73	818.44	818.44	442.41	1.41	1.00
4998.00	90.20	4.80	4301.46	849.29	849.29	445.43	5.51	-1.94
5029.00	88.90	2.40	4301.70	880.23	880.23	447.38	8.80	-4.19
5066.00	86.50	359.70	4303.19	917.19	917.19	448.06	9.76	-6.49
5097.00	86.60	359.40	4305.05	948.13	948.13	447.82	1.02	0.32
5128.00	87.90	0.00	4306.54	979.09	979.09	447.65	4.62	4.19
5159.00	89.30	0.40	4307.30	1010.08	1010.08	447.76	4.70	4.52
5190.00	90.30	359.70	4307.41	1041.08	1041.08	447.79	3.94	3.23
5221.00	90.10	357.80	4307.30	1072.07	1072.07	447.11	6.16	-0.65
5252.00	89.10	355.60	4307.52	1103.02	1103.02	445.33	7.80	-3.23

5283.00	89.10	354.70	4308.00	1133.90	1133.90	442.71	2.90	0.00
5314.00	89.20	354.30	4308.46	1164.76	1164.76	439.74	1.33	0.32
5407.00	89.60	354.20	4309.44	1257.28	1257.28	430.42	0.44	0.43
5500.00	89.80	355.50	4309.92	1349.90	1349.90	422.07	1.41	0.22
5593.00	89.50	357.20	4310.49	1442.71	1442.71	416.15	1.86	-0.32
5627.00	88.50	356.20	4311.08	1476.65	1476.65	414.20	4.16	-2.94
5719.00	87.70	357.70	4314.14	1568.46	1568.46	409.30	1.85	-0.87
5811.00	86.80	359.60	4318.55	1660.33	1660.33	407.14	2.28	-0.98
5904.00	89.70	2.00	4321.39	1753.26	1753.26	408.44	4.05	3.12
5996.00	89.40	1.40	4322.11	1845.21	1845.21	411.17	0.73	-0.33
6089.00	90.00	359.30	4322.60	1938.20	1938.20	411.73	2.35	0.65
6182.00	87.90	357.20	4324.30	2031.14	2031.14	408.89	3.19	-2.26
6274.00	91.90	357.40	4324.46	2123.01	2123.01	404.56	4.35	4.35
6367.00	95.00	359.00	4318.87	2215.79	2215.79	401.64	3.75	3.33
6460.00	94.20	359.50	4311.41	2308.48	2308.48	400.43	1.01	-0.86
6553.00	88.80	359.80	4308.98	2401.41	2401.41	399.86	5.82	-5.81
6646.00	86.40	359.40	4312.87	2494.32	2494.32	399.22	2.62	-2.58
6738.00	88.80	359.30	4316.72	2586.22	2586.22	398.17	2.61	2.61
6831.00	91.20	359.80	4316.72	2679.21	2679.21	397.44	2.64	2.58
6924.00	94.00	0.00	4312.50	2772.11	2772.11	397.28	3.02	3.01
7017.00	91.30	0.20	4308.20	2865.00	2865.00	397.44	2.91	-2.90
7110.00	89.60	359.50	4307.47	2957.99	2957.99	397.20	1.98	-1.83
7202.00	92.10	359.40	4306.11	3049.97	3049.97	396.32	2.72	2.72
7295.00	93.90	358.50	4301.24	3142.82	3142.82	394.61	2.16	1.94
7388.00	92.50	359.20	4296.05	3235.66	3235.66	392.75	1.68	-1.51
7480.00	88.00	359.50	4295.65	3327.63	3327.63	391.71	4.90	-4.89
7573.00	86.30	359.10	4300.27	3420.50	3420.50	390.57	1.88	-1.83
7666.00	91.00	358.70	4302.46	3513.43	3513.43	388.79	5.07	5.05
7759.00	92.20	1.00	4299.87	3606.39	3606.39	388.55	2.79	1.29
7852.00	93.70	1.10	4295.08	3699.25	3699.25	390.25	1.62	1.61
7944.00	91.70	1.90	4290.75	3791.11	3791.11	392.65	2.34	-2.17
8037.00	89.70	3.10	4289.61	3884.01	3884.01	396.71	2.51	-2.15
8130.00	87.70	3.20	4291.72	3976.84	3976.84	401.82	2.15	-2.15
8223.00	89.10	2.90	4294.32	4069.67	4069.67	406.76	1.54	1.51
8315.00	84.90	2.90	4299.13	4161.40	4161.40	411.41	4.57	-4.57
8408.00	88.60	2.20	4304.40	4254.14	4254.14	415.54	4.05	3.98
8501.00	88.90	1.70	4306.43	4347.07	4347.07	418.70	0.63	0.32
8556.00	88.60	1.90	4307.63	4402.03	4402.03	420.43	0.66	-0.55
8609.00	88.60	1.90	4308.93	4454.98	4454.98	422.19	0.00	0.00

TURN/100'
0.00
0.00
28.06
73.01
13.12
23.48
11.21
-574.84
17.42
-56.13
0.97
-27.42
29.35
-21.61
27.74
1.61
0.32
-16.77
-7.74
-15.00
-10.31
-1.29
8.06
-0.28
0.22
-1.72
3.57
1.43
-0.21
-2.23
3.21
0.22
0.00
8.43
2.80
-10.16
-9.35
-79.00
-148.39
-88.06
-31.29
1.94
0.97
-2.90
-2.58
-7.10

-7.10
-9.03
-7.10
-1.94
4.19
10.32
6.77
2.26
1.29
-0.32
0.00
0.65
-4.67
-4.19
-1.94
-0.65
-4.84
-4.52
-0.97
1.29
-0.32
-2.67
-4.69
-0.65
-4.00
-5.16
-4.19
-4.19
-5.48
-5.81
-0.50
-1.06
-1.29
-2.58
-6.45
7.42
0.65
1.00
-5.16
-7.74
-7.30
-0.97
1.94
1.29
-2.26
-6.13
-7.10

-2.90
-1.29
-0.11
1.40
1.83
-2.94
1.63
2.07
2.58
-0.65
-2.26
-2.26
0.22
1.72
0.54
0.32
-0.43
-0.11
0.54
0.22
0.22
-0.75
-0.11
-0.97
0.75
0.33
-0.43
-0.43
2.47
0.11
0.87
1.29
0.11
-0.32
0.00
-0.75
-0.54
0.36
0.00

Shots per foot	Perforation Record	Acid,Fracture,Shot,Cement Squeeze Record	Depth		
N/A- Sliding Sleeve	Sleeve at 8568	1000 gal 15% HCL Acid; 128,696 gal gelled water; 85,000 lbs 20/40 sand	8568		
6	Perfs @ 8516.5-8518,8416.5-8418,8316.5-8318; BP @ 8543'	1000 gal 15% HCL Acid; 176,660 gal gelled water; 160,000 lbs 20/40 sand	8316.5	to	8518
6	Perfs @ 8216.5-8218,8116.5-8118,8016.5-8018; BP @ 8267'	1000 gal 15% HCL Acid; 171,200 gal gelled water; 173,280 lbs 20/40 sand	8016.5	to	8218
6	Perfs @ 7916.5-7918,7816.5-7818,7716.5-7718; BP @ 7967'	1000 gal 15% HCL Acid; 172,200 gal gelled water; 178,000 lbs 20/40 sand	7716.5	to	7918
6	Perfs @ 7616.5-7618,7516.5-7518,7416.5-7418; BP @ 7667'	1000 gal 15% HCL Acid; 152,754 gal gelled water; 180,000 lbs 20/40 sand	7416.5	to	7618
6	Perfs @ 7316.5-7318,7216.5-7218,7116.5-7118; BP @ 7367'	1000 gal 15% HCL Acid; 164,388 gal gelled water; 91,220 lbs 20/40 sand	7116.5	to	7318
6	Perfs @ 7016.5-7018,6916.5-6918,6816.5-6818; BP @ 7067'	1000 gal 15% HCL Acid; 148,974 gal gelled water; 180,860 lbs 20/40 sand	6816.5	to	7018
6	Perfs @ 6716.5-6718,6616.5-6618,6516.5-6518; BP @ 6767'	1000 gal 15% HCL Acid; 136,416 gal gelled water; 184,240 lbs 20/40 sand	6516.5	to	6718
6	Perfs @ 6416.5-6418,6316.5-6318,6216.5-6218; BP @ 6467'	1000 gal 15% HCL Acid; 214,284 gal gelled water; 180,100 lbs 20/40 sand	6216.5	to	6418
6	Perfs @ 6116.5-6118,6016.5-6018,5916.5-5918; BP @ 6167'	1000 gal 15% HCL Acid; 153,258 gal gelled water; 180,000 lbs 20/40 sand	5916.5	to	6118
6	Perfs @ 5816.5-5818,5716.5-5718,5616.5-5618; BP @ 5867'	1000 gal 15% HCL Acid; 147,126 gal gelled water; 180,072 lbs 20/40 sand	5616.5	to	5818
6	Perfs @ 5516.5-5518,5416.5-5418,5316.5-5318; BP @ 5562'	1000 gal 15% HCL Acid; 133,350 gal gelled water; 172,000 lbs 20/40 sand	5316.5	to	5518
6	Perfs @ 5216.5-5218,5116.5-5118,5016.5-5018; BP @ 5277'	1000 gal 15% HCL Acid; 130,872 gal gelled water; 184,500 lbs 20/40 sand	5016.5	to	5218
6	Perfs @ 4916.5-4918,4825.5-4827,4716.5-4718; BP @ 4967'	1000 gal 15% HCL Acid; 139,062 gal gelled water; 174,288 lbs 20/40 sand	4716.5	to	4918

Tubing Record	
Size	2 7/8"
Set at	4564.5
Packer at	4564.5
Liner Run	Yes
Date of first production	9/27/2013
Producing Method	Pumping
Estimated Production for 24 hours	150 bbls oil, 486 mcf gas, 919 bbls water
	GOR = 3240 scf/bbl, Gravity = 40.5
Disposition of gas	Sold
Method of completion	Perf
Production interval	As perfed