

JOB SUMMARY		PROJECT NUMBER TN # 285	TICKET DATE 10/8/2013
COUNTY Grant	COMPANY Linn Energy	CUSTOMER REP Weldon Higgins	
LEASE NAME Citizens State Bank	Well No. 5 ATU 118	JOB TYPE Surface	
EMP NAME Jessie McClain		EMPLOYEE NAME Jessie McClain	

Jessie McClain					
Lamont Patterson					
Rory Morris					
Mario Abrego					

Form. Name Chase-Council Grove Type: _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Retainer Depth _____ Total Depth _____

Date	Called Out	On Location	Job Started	Job Completed
	10/8/13	10/08/13	10/08/13	10/08/13
Time	1300	1715	1945	2130

Type and Size	Qty	Make
Auto Fill Tube	1	IR
Insert Float Valve	1	IR
Centralizers	5	IR
Top Plug	1	IR
HEAD	1	IR
Limit clamp	1	IR
Weld-A	2	IR
Texas Pattern Guide Shoe	1	IR
Cement Basket	0	IR

New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	New	24	8.625	KB	730'	1500
Liner						
Liner						
Tubing						
Drill Pipe						
Open Hole						
Perforations						Shots/Ft.
Perforations						
Perforations						

Materials			
Mud Type	WBM	Density	8.9 Lb/Gal
Disp. Fluid	H2O	Density	8.33 Lb/Gal
Spacer type	H2O	BBL.	10
Spacer type		BBL.	
Acid Type		Gal.	%
Acid Type		Gal.	%
Surfactant		Gal.	In
NE Agent		Gal.	In
Fluid Loss		Gal/Lb	In
Gelling Agent		Gal/Lb	In
Fric. Red.		Gal/Lb	In
MISC.		Gal/Lb	In
Perpac Balls		Qty.	
Other			
Other			
Other			
Other			

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
10/08/13	5.0	10/08/13	1.3	Surface
				Final pump psi: 245 psi
				50 bbls cmt to surface
				281 ft3 / 202 sks
Total	5.0	Total	1.3	

Pressures			
MAX	800	AVG	100
Average Rates in BPM			
MAX	4	AVG	3
Cement Left in Pipe			
Feet	44	Reason	Shoe Joint

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	450	Premium Class C	2% Calcium Chloride and .25 #/sk Cellotake	6.34	1.35	14.8
2						
3						
4						

Summary					
Preflush Breakdown	Type: _____	MAXIMUM	Preflush:	BBI	10.00
	Lost Returns-n	0	Load & Bkdn:	Gal - BBI	
	Actual TOC	Surface	Excess /Return	BBI	50
Average	Frac. Gradient		Calc. TOC:	Gal - BBI	Surface
ISP	5 Min	10 Min	Treatment:	BBI	
		15 Min	Cement Slurry:	BBI	108.0
			Total Volume	BBI	161.60

CUSTOMER REPRESENTATIVE Weldon Higgins SIGNATURE

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O - TEX Pumping

JOB SUMMARY

COUNTY Grant	PROJECT NUMBER TN # 288	TICKET DATE 10/10/2013
LEASE NAME Citizens State Bank 5 ATU 116	COMPANY Linn Energy	CUSTOMER REP Orlando
Well No. 5 ATU 116	JOB TYPE Production	EMPLOYEE NAME Jessie McClain

EMP NAME	Jessie McClain				
	Steve Crocker				
	Beau Clem				

Form. Name Chase-Council Grove Type: _____

Packer Type _____ Set At _____

Bottom Hole Temp. _____ Pressure _____

Retainer Depth _____ Total Depth _____

Date	Called Out	On Location	Job Started	Job Completed
	10/09/13	10/10/13	10/10/13	10/10/13
Time	2130	230	900	1100

Tools and Accessories

Type and Size	Qty	Make
Auto Fill Tube	1	IR
Insert Float Valve	1	IR
Centralizers	26	IR
Top Plug	1	IR
HEAD	1	IR
Limit clamp	1	IR
Weld-A	0	IR
Guide shoe	1	IR
Cement Basket	0	IR

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	New	15.5	5.5	J-55	KB	3110'	2500
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole							Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials

Mud Type	WBM	Density	9.0	Lb/Gal
Disp. Fluid	H2O	Density	8.33	Lb/Gal
Spacer type	am silicate BBL.		35	
Spacer type	BBL.			
Acid Type	Gal.		%	
Acid Type	Gal.		%	
Surfactant	Gal.		In	
NE Agent	Gal.		In	
Fluid Loss	Gal/Lb		In	
Gelling Agent	Gal/Lb		In	
Fric. Red.	Gal/Lb		In	
MISC.	Gal/Lb		In	

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
10/10/13	9.5	10/10/13	2.0	Production
				Final pump psi; 630 psi
				53 bbls cmt to surface
				298 ft3 / 82 sks
Total	9.5	Total	2.0	

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

Other _____

Other _____

Pressures

MAX	1250	AVG	100
Average Rates in BPM			
MAX	4	AVG	3
Cement Left in Pipe			
Feet	44	Reason	Shoe Joint

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	205	Premium Plus Class C	0.2% C-41P, 5% Oyp, 0.25#/sk Celoflake	23.49	3.65	10.8
2	95	Premium Plus Class C	2% Gel, 0.2% C-16A, 2% Calcium Chloride	10.4	1.90	13.0
3						
4						

Summary

Preflush Breakdown	Type: _____	Preflush:	BBI	35.00	Type: Sodium silicate/H2O
	MAXIMUM	Load & Bkdn:	Gal - BBI		Pad:Bbl -Gal
	Lost Returns-N	Excess /Return	BBI	53	Calc. Disp Bbl
	Actual TOC	Calc. TOC		Surface	73
Average	Frac. Gradient	Treatment:	Gal - BBI		Actual Disp.
15IP	5 Min	Cement Slurry:	BBI	165.0	Disp:Bbl
	10 Min	Total Volume	BBI	272.90	
	15 Min				

CUSTOMER REPRESENTATIVE Willie Hagan

SIGNATURE _____

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