

JOB SUMMARY

COUNTY Grant	PROJECT NUMBER TN # #208	TICKET DATE 8/20/2013
LEASE NAME Hickok	COMPANY Linn Energy	CUSTOMER REP Weldon Higgins
Well No. E-4 ATU 63	JOB TYPE Surface	EMPLOYEE NAME Jessie McClain

EMP NAME Jessie McClain			
Lamont Patterson			
Steve Crocker			
Migel Garcia			

Form. Name Chase Council Grove Type: _____

Packer Type _____ Set At _____

Bottom Hole Temp. _____ Pressure _____

Retainer Depth _____ Total Depth _____

	Called Out	On Location	Job Started	Job Completed
Date	08/21/13	08/21/13	08/21/13	08/21/13
Time	1200	1630	2030	2230

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

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

Materials			
	WBM	Density	Lb/Gal
Mud Type	H2O	8.33	
Disp. Fluid	H2O	8.33	
Spacer type	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	

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
08/21/13	6.5	08/21/13	2.0	Surface
				Final Pump Pressure 340
				43 bbls cmt to surface
				241 ft 3 / 183 sks
Total	6.5	Total	2.0	

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

Other _____

Pressures		
MAX	1100	AVG. 20
MAX	4	Average Rates in BPM
		AVG 3
Feet	44	Cement Left in Pipe
		Reason Shoe Joint

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	450	Class C	2% C.C. + 0.25#/SK. Cellofak	6.30	1.32	14.8
2						
3						
4						

Summary					
Preflush Breakdown	Type: _____	MAXIMUM _____	Lost Returns-N _____	Actual TOC _____	Frac. Gradient _____
Average ISIP	5 Min. _____	10 Min. _____	15 Min. _____	Preflush: BBI 10.00	Type: H20
				Load & Bkdn: Gal - BBI _____	Pad:Bbl -Gal _____
				Excess /Return BBI _____	Calc Disp Bbl 44
				Calc. TOC: Surface _____	Actual Disp. 43.60
				Treatment: Gal - BBI _____	Disp:Bbl _____
				Cement Slurry: BBI _____	
				Total Volume BBI 159.60	

CUSTOMER REPRESENTATIVE Weldon Higgins SIGNATURE

**Thank You For Using
O - TEX Pumping**

JOB SUMMARY

PROJECT NUMBER TN # 211	TICKET DATE 8/21/2013
CUSTOMER REP Weldon Higgins	
EMPLOYEE NAME Jessie McClain	

COUNTY Grant	COMPANY Linn Energy	
LEASE NAME Hickok	JOB TYPE E-4 Atub Production	

EMP NAME Jessie McClain			
Lamont Patterson			
Mario Abrego			
0			

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
	08/22/13	08/23/13	08/23/13	08/23/13
Time	2100	230	740	935

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 1/2	44	KB	3116	2500
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole							Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials			
Mud Type	WBM	Density	Lb/Gal
Disp. Fluid	H2O	9.0	
Spacer type	m 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	
08/23/13	8.0	08/23/13	2.0	Production
				Final Pump psi: 730 Psi
				Cement to pit 10 bbbls
				55 ft3 / 16 sks
Total	8.0	Total	2.0	

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

Other _____

Other _____

Pressures	
MAX	1200
AVG	20
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	Class "C"	0.2% C-41-P + 5% Gypsum + 0.25#/sk Cellofak	23.49	3.65	10.8
2	95	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
	MAXIMUM	Load & Bkdn: Gal - BBI	
	Lost Returns-h	Excess /Return BBI	10
	Actual TOC	Calc. TOC:	Surface
Average	Frac. Gradient	Treatment: Gal - BBI	
ISP	5 Min.	Cement Slurry: BBI	165.0
	10 Min.	Total Volume	273.00
	15 Min.		

CUSTOMER REPRESENTATIVE Weldon Higgins SIGNATURE

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