

JOB SUMMARY			PROJECT NUMBER SOK 3023	TICKET DATE 09/09/13
COUNTY Kiowa	State Kansas	COMPANY Sandridge Exploration & Production	CUSTOMER REP Bill Tomlinson	
LEASE NAME Michael 3020	Well No. 1-20	JOB TYPE Kickoff Plug	EMPLOYEE NAME John Hall	

EMP NAME					
John Hall		0			
Rocky Anthis					
Joseph Klemm					
Roy Morris					

Form. Name _____ Type: _____

Packer Type _____ Set At **0**

Bottom Hole Temp. **155** Pressure _____

Retainer Depth _____ Total Depth **4500**

	Called Out	On Location	Job Started	Job Completed
Date	9/9/2013	9/9/2013	9/9/2013	9/9/2013
Time	900	1400	1530	1700

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	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

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing		0.0	0		Surface	4,500	5,000
Liner							
Liner							
Tubing			5"				
Drill Pipe							
Open Hole			8 3/4"		Surface	4,500	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials			
Mud Type	WBM	Density	Lb/Gal
Disp. Fluid	Mud	9.1	
Spacer type	resh Water BBL.	10	8.33
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
Perfpac Balls	Qty.		
Other			
Other			
Other			
Other			
Other			

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
9/9	3.0	9/9	1.5	Kickoff Plug
Total	3.0	Total	1.5	

Pressures	
MAX	200 PSI
AVG	
Average Rates in BPM	
MAX	5 BPM
AVG	
Cement Left in Pipe	
Feet	N/a
Reason SHOE JOINT	

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	290	Premium H	0.5% C-37	3.40	0.94	17.50
2	0	0		0	0.00	0.00
3	0	0		0	0.00	0.00

Summary							
Preflush Breakdown	Type: _____	MAXIMUM	5.000 PSI	Preflush: BBI	10.00	Type: water	
	Lost Returns-N	Actual TOC	4.000	Load & Bkdn: Gal - BBI	N/A	Pad: Bbl - Gal	N/A
	Bump Plug PSI:	5 Min.	10 Min.	Excess /Return BBI	N/A	Calc. Disp Bbl	67
	15 Min.			Calc. TOC:	4.000	Actual Disp.	67.40
Average				Final Circ. PSI:		Disp: Bbl	67.40
ISIP	5 Min.			Cement Slurry: BBI	48.5		
				Total Volume	125.90		

CUSTOMER REPRESENTATIVE Bill Tomlinson SIGNATURE

****Notify Schlumberger 8 hours before trucks are needed.
Contact David Clayton at 501-428-6684.****

7-7/8" HOLE SECTION

- 9-5/8" shoe = 744'
- 8-3/4" TD = 5660'
- KOP = 4506'
- Base of Plug = 4700'

➤ Have plenty of fresh water at rig for cement job, at least 500 bbls.

Rig up Schlumberger and test lines to 5,000 psi.

Plug Slurry: 290 sx Class H Cement

- Additives:
 - .4% Dispersant
- Weight: 17.5 ppg
- Yield: 0.94 cuft/sk
- Water: 3.47 gal/sk

1. TIH open-ended to 4700'.
2. Circulate pipe capacity to clear string.
3. Spot 290 sx class H cement.
4. POOH 7 stands DP. Circulate hole capacity to clear excess cement.
5. Wait on cement 24 hours.
6. PU 8-3/4" tri-cone bit, 1.83° motor, and directional tools.
7. TIH to locate top of hard cement.
8. Kick-off to 3° to get separation from original wellbore.
9. Once separated, POOH to PU Security FXD55M
10. **Rotate at 3° to catch up with plan.** Refer to directional plan to build curve.

If you have any questions, please call.

*Justin Mueller
Drilling Engineer
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