

3-27-12 District LIBERAL Ticker No. 27175
 Company Tri Hill op Rig _____
 Lease Edmabriston Well No. 19ND
 County COMANCHE State KS
 Location _____ Field _____

CEMENT DATA:
 Spacer Type: H₂O
 Amt. 10 Sks Yield _____ ft³/sk Density _____ PPG

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 9 5/8 Type L-55 Weight 36# Collar _____

LEAD: Pump Time _____ hrs. Type Am-D
 Excess _____

Amt. 150 Sks Yield 3.09 ft³/sk Density 11.4 PPG
 TAIL: Pump Time _____ hrs. Type A
 Excess _____

Amt. 115 Sks Yield 1.2 ft³/sk Density 15.2 PPG
 WATER: Lead 19.2 gals/sk Tail 5.2 gals/sk Total 83 Bbls.

Casing Depths: Top 0 Bottom 919'

Pump Trucks Used 531/541
 Bulk Equip. 472/467

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size _____ T.D. _____ ft. P.B. to _____ ft.

Float Equip: Manufacturer WEATHERS
 Shoe: Type _____ Depth _____

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. 0.773 Lin. ft./Bbl. _____
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. 0.558 Lin. ft./Bbl. _____
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

Float Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top 5-W Btm. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type H₂O Amt. _____ Bbls. Weight _____ PPG
 Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE _____

CEMENTER R. Hagan

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
7:00						ON LOC + SAFETY MEETING
7:15						Log up BREAK CIRC
0:00	100		84	6		Mix 150 SK (Am-D) @ 11.4# LEAD
2:30	100		24	6		Mix 115 A TAIL
1:00				0		SHUT DOWN = Drip Plug
1:15			673	6		Disp Csmg
1:30	250			2		Slow to 2 BPM
1:38	150			2		LAND PLUG

FINAL DISP. PRESS: 250 PSI BUMP PLUG TO 750 PSI BLEEDBACK 1/2 BBLs. THANK YOU

JOB SUMMARY			PROJECT NUMBER SOK1362	TICKET DATE 04/09/12
COUNTY COMANCHE	State Oklahoma	COMPANY TUG HILL OPERATING	CUSTOMER REP Jay Lewis	
LEASE NAME Edmonston	Well No. #15W	JOB TYPE Intermediate	EMPLOYEE NAME Larry Kirchner Jr.	

Larry Kirchner Jr.	Marcos Quintana			
John Hall				
Michael Bajo				
Robert Stonehocker				

Form. Name _____ Type: _____
Packer Type _____ Set At 0
Bottom Hole Temp. 140 Pressure _____
Retainer Depth _____ Total Depth 6000

Date	Called Out 4/8/2012	On Location 4/8/2012	Job Started 4/8/2012	Job Completed 4/8/2012
Time	3:00AM	11:00AM	10:14PM	11:49PM

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	1	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	New	26#	7"	Surface	6,324'	5,000
Liner						
DV Tool	New		7"	4,725	4,727'	5,000
Tubing			0			
Drill Pipe						
Open Hole			8 3/4"	Surface	6,365'	Shots/Ft.
Perforations						
Perforations						
Perforations						

Materials			
Mud Type	WBM	Density	9 Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33 Lb/Gal
Spacer type	mud wash BBL.		20 8.40
Spacer type	H2O BBL.		10 8.33
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	
4/8	13.0	4/8	2.0	Intermediate
Total	13.0	Total	2.0	

Pressures	
MAX 5,000 PSI	AVG 300
Average Rates in BPM	
MAX 8 BPM	AVG 5
Cement Left in Pipe	
Feet 46	Reason SHOE JOINT

Stage		Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	305	50/50/2 PREMIUM	2% GEL - .4% CF-12 - .1% C-37 - 2PPS PHENOSEAL - .5% C-41P	6.77	1.44	13.60	
2	576	50/50/2 PREMIUM	2% GEL - .4% CF-12 - .1% C-37 - 2PPS PHENOSEAL - .5% C-41P	6.77	1.44	13.60	
3	0	0		0	0.00	0.00	

Summary			
Preflush 10	Type: Caustic	Preflush: BBI 20.00	Type: CAUSTIC
Breakdown	MAXIMUM 5,000 PSI	Load & Bkdn: Gal - BBI N/A	Pad: Bbl - Gal N/A
	Lost Returns - NO/FULL	Excess /Return BBI N/A	Calc. Disp Bbl 240
	Actual TOC _____	Calc. TOC: 4,200'	Actual Disp. 239.00
Average	Bump Plug PSI: _____	Final Circ. PSI: 800	Disp: Bbl _____
ISIP <u>5 Min.</u>	<u>10 Min.</u>	Cement Slurrv: BBI 78.2	
	<u>15 Min.</u>	Total Volume BBI 337.20	

CUSTOMER REPRESENTATIVE *Jay Lewis* SIGNATURE