

Date 2.20.15 District Russell Ticket No. 055639  
 Company Fron Horse Resources Rig Skytop  
 Lease Hippelmann Well No. 1  
 County Decatur Co. State KS  
 Location Norton Field \_\_\_\_\_  
Wabo rd 16 3 S 4th W n into

CASING DATA: Conductor  PTA  Squeeze  Misc   
 Surface  Intermediate  Production  Liner   
 Size 8 5/8 Type CSG Weight #23 Collar \_\_\_\_\_

8 5/8 CSG in 12 1/4 Hole @ 217'  
 Casing Depths: Top 0' Bottom 217'  
SJ-15'

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

CAPACITY FACTORS:

Casing: Bbbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. 10637  
 Open Holes: Bbbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. 136037  
 Drill Pipe: Bbbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Annulus: Bbbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

CEMENT DATA:

Spacer Type: \_\_\_\_\_  
 Amt. 150 Skys Yield 1.27 ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

+ 31.00 + 2.1 gel  
 LEAD: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Excess \_\_\_\_\_

Amt. \_\_\_\_\_ Skys Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG  
 TAIL: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Excess \_\_\_\_\_

Amt. \_\_\_\_\_ Skys Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG  
 WATER: Lead \_\_\_\_\_ gals/sk Tail \_\_\_\_\_ gals/sk Total \_\_\_\_\_ Bbbls

Pump Trucks Used + 417 - Danny's  
 Bulk Equip. + 985 - Tracy J.

Float Equip: Manufacturer \_\_\_\_\_  
 Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_

Float: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Centralizers: Quantity \_\_\_\_\_ Plugs Top \_\_\_\_\_ Btm. \_\_\_\_\_

Stage Collars \_\_\_\_\_  
 Special Equip. \_\_\_\_\_

Disp. Fluid Type \_\_\_\_\_ Amt. \_\_\_\_\_ Bbbls. Weight \_\_\_\_\_ PPG  
 Mud Type \_\_\_\_\_ Weight \_\_\_\_\_ PPG

COMPANY REPRESENTATIVE \_\_\_\_\_

CEMENTER Andy Hennestad

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbbls Min.	
<u>530 pm</u>						<u>On location - Safety meeting. Set up truck.</u>
						<u>Run 8 5/8 CSG in 12 1/4 Hole in @ 217'.</u>
			<u>25' Helly</u>	<u>6</u>		<u>Broke circulation with Rig @ 2 HR.</u>
			<u>25' mix</u>	<u>3</u>		<u>Mixed 150sk con + 31.00 + 2.1 gel</u>
						<u>Displaced cement @ 12.80' @ 120 Cement to Surface.</u>
			<u>#300psi</u>			<u>Shut 8 5/8 in @ #300psi. Job Complete.</u>
<u>9:00</u>			<u>8 1/2 @ 120</u>	<u>3</u>		<u>Washed truck.</u>

Plugging #99996

Date 3.3.15 District Russell Ticket No. 055842  
 Company Iron Horse Resources Rig Skytop  
 Lease Kippelmann Well No. 1  
 County DeCATUR State KS  
 Location Norton Field \_\_\_\_\_  
15 W 35 1/2 W n into

CASING DATA: Conductor  PTA  Squeeze  Misc   
 Surface  Intermediate  Production  Liner   
 Size 4 1/2 Type Drill pipe Weight \_\_\_\_\_ Collar \_\_\_\_\_

4 1/2 Drill pipe in 7 7/8 Hole in @ 2150'

Casing Depths: Top 0' Bottom 2150'  
P1= 50sk @ 2150 P2= 100sk @ 1375  
P3= 50sk @ 275' P4= 10sk @ 40'  
P5= 30sk RTTI 1x 8 5/8 wooden Plug.

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

CAPACITY FACTORS:  
 Casing: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Open Holes: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. .05482  
 Drill Pipe: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. .01422  
 Annulus: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

CEMENT DATA:  
 Spacer Type: \_\_\_\_\_  
 Amt. 240 Skys Yield 142 ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

60/40 + 4% gel + #1/4 cell

LEAD: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Excess \_\_\_\_\_

Amt. \_\_\_\_\_ Skys Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

TAIL: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Excess \_\_\_\_\_

Amt. \_\_\_\_\_ Skys Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

WATER: Lead \_\_\_\_\_ gals/sk Tail \_\_\_\_\_ gals/sk Total \_\_\_\_\_ Bbls.

Pump Trucks Used #409 - Tracy J.  
 Bulk Equip. #473 - Ben G.

Float Equip: Manufacturer \_\_\_\_\_  
 Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_

Float: Type \_\_\_\_\_ Depth \_\_\_\_\_

Centralizers: Quantity \_\_\_\_\_ Plugs Top \_\_\_\_\_ Btm. \_\_\_\_\_

Stage Collars \_\_\_\_\_  
 Special Equip. \_\_\_\_\_  
 Disp. Fluid Type \_\_\_\_\_ Amt. \_\_\_\_\_ Bbls. Weight \_\_\_\_\_ PPG  
 Mud Type \_\_\_\_\_ Weight \_\_\_\_\_ PPG

COMPANY REPRESENTATIVE \_\_\_\_\_

CEMENTER Andy Plummer

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
5:30am						On location - Safety meeting. Set up Truck - Ben 4 1/2 Drill pipe in @ 2150' in 7 7/8 Hole.
			8.20	3	3	P1= 50sk @ 2150. mixed 50sk 60/40 60/40 - Displaced cement @ 1.45 bbl/min
			16.40	3	3	P2= 100sk @ 1375. mixed 100sk 60/40 Displaced cement @ 8 1/2 bbl/min.
			8.20	3	3	P3= 50sk @ 275' - mixed 50sk 60/40 Displaced cement @ 1 1/2 bbl/min.
			2.50	3	3	P4= 10sk @ 40. 1x 8 5/8 wooden Plug mixed 10sk 60/40 cement to surface.
			4.60	3	3	P5= 30sk RTTI - mixed 30sk 60/40 cement to surface.
						Job Complete
						Washed Truck