

# Cement Callsheet



Company **WPX Energy, Inc.** Service Point **PRATT, KS.**  
 Contact Person **KEVIN GORDLEY 620-672-1201**

Well Type **NEW** CONTRACTOR **DKE 20** COUNTY **PRATT** STATE **KS**  
 LEASE **DODSON A** WELL # **1-16H** SEC **16** TWP **26** RANGE **13**

DIRECTIONS:  
**HWY 281 & BYERS BLTP- 1/2 WEST- NORTH INTO. STOP AT GUARD HOUSE TO SIGN IN.**

Job Type **8609' 4 1/2 Liner** Casing Size **4 1/2** Thread **8RND** Weight  
 Equipment **Caliper log shows 638 cft to 4708' 7" shoe. Liner hanger at 4450'. TOC 100' above liner hanger.** Tubing/Drill Pipe Size Thread Weight  
 Hole Size **6 1/8** Packer Bridge Plug  
 Remarks: **7" SET AT 4708'** Plug Container Casing Swivel Squeeze Manifold

## 8609' 4 1/2 liner

### CEMENT DATA

| LEAD 1           | Weight PPG        | Type                      | Additives   |  |
|------------------|-------------------|---------------------------|---|--|
| Sacks            | Excess            | Yield Ft <sup>3</sup> /sk | Water Gal/sk  |  |
| <b>TAIL 1</b>    | <b>Weight PPG</b> | <b>Type</b>               | <b>Additives</b>  |  |
| <b>CP100P</b>    | <b>15.60</b>      | <b>Premium Cement</b>     | <b>Class H CEMENT with .25% DEFOAMER, 10% SALT, .75% CFR, .1% WCA-1</b> |  |
| Sacks            | Excess            | Yield Ft <sup>3</sup> /sk | Water Gal/sk  |  |
| <b>650</b>       | <b>100%</b>       | <b>1.24</b>               | <b>5.43</b>   |  |
| <b>LEAD 2</b>    | <b>Weight PPG</b> | <b>Type</b>               | <b>Additives</b>  |  |
| Sacks            | Excess            | Yield Ft <sup>3</sup> /sk | Water Gal/sk  |  |
| <b>TAIL 2</b>    | <b>Weight PPG</b> | <b>Type</b>               | <b>Additives</b>  |  |
| Sacks            | Excess            | Yield Ft <sup>3</sup> /sk | Water Gal/sk  |  |
| <b>Mouse/Rat</b> | <b>Weight PPG</b> | <b>Type</b>               | <b>Additives</b>  |  |
| Sacks            | Excess            | Yield Ft <sup>3</sup> /sk | Water Gal/sk  |  |

### Float Equipment

| Part # | Quantity | Description | # Used | # Returned |
|--------|----------|-------------|--------|------------|
|        |          |             |        |            |
|        |          |             |        |            |
|        |          |             |        |            |
|        |          |             |        |            |
|        |          |             |        |            |
|        |          |             |        |            |
|        |          |             |        |            |
|        |          |             |        |            |

### Misc. Chemicals

|              |            |                               |  |  |
|--------------|------------|-------------------------------|--|--|
| <b>C704</b>  | <b>5</b>   | <b>Claymax KCl Substitute</b> |  |  |
| <b>CC131</b> | <b>50</b>  | <b>Sugar</b>                  |  |  |
| <b>CC151</b> | <b>500</b> | <b>Mud Flush</b>              |  |  |

Ordered By **SEAN BERZAS** Phone **539-573-5119** Fax Date of Job **07/16/13**  
 Call Taken By **KEVIN GORDLEY** Phone **620-770-2191** Email Time Ready **WC**  
 Operator or Driver Called **JIMMY - 713-206-3559** Call Out Time

WPX Energy, Inc.  
 DODSON A #1-16H  
 PRATT County, KS  
 Sec. 16-26-13  
 8609' 4 1/2 liner  
 16-Jul-13



**Well Data and Calculations**

|                            | Lead 1<br>Cement  | Tail 1 Cement     | Lead 2<br>Cement  | Tail 2 Cement     | Top Out Cement |
|----------------------------|-------------------|-------------------|-------------------|-------------------|----------------|
| Well Type:                 | NEW               | NEW               | NEW               | NEW               |                |
| Job Type:                  | 8609' 4 1/2 Liner | 8609' 4 1/2 Liner | 8609' 4 1/2 Liner | 8609' 4 1/2 Liner |                |
| Cement Weight PPG :        |                   | 15.60             |                   |                   |                |
| Hole Size:                 | 6.125             | 6.125             | 6.125             | 6.125             |                |
| Casing Size:               | 4.500             | 4.500             | 4.500             | 4.500             |                |
| Bottom of Cement:          | 4350              | 8609              |                   |                   |                |
| Top of Cement:             | 4350              | 4350              |                   |                   |                |
| Percent Excess:            |                   | 100%              |                   |                   |                |
| Annulus Cal: (bbl/ft)      | 0.0168            | 0.0168            | 0.0168            | 0.0168            |                |
| Annulus Cal: (cft/ft)      | 0.0942            | 0.0942            | 0.0942            | 0.0942            |                |
| Annulus Vol: (ft/cft)      | 10.6194           | 10.6194           | 10.6194           | 10.6194           |                |
| Annulus Vol: cft           |                   | 802.06            |                   |                   |                |
| Annulus Vol: ft            |                   | 8517.40           |                   |                   |                |
| Fluid Yield: cft/sk        | 1.62              | 1.24              | 1.18              | 1.38              | 1.26           |
| Annular Vol.bbls           | 72.96             | 144.39            |                   |                   |                |
| Slurry Volume: bbls        |                   | 142.85            |                   |                   |                |
| Fluid Water Ratio: gal/sk  | 8.23              | 5.43              | 5.20              | 5.63              | 5.73           |
| Shoe Length: Ft.           |                   | 1                 |                   |                   |                |
| Shoe Calculation: bbl/ft   |                   | 0.0155            |                   | 0.0010            |                |
| Pipe ID:Inches             |                   | 4.0000            |                   |                   |                |
| Shoe Volume: bbls          |                   | 0.02              |                   |                   |                |
| Shoe Volume: cft           |                   | 0.09              |                   |                   |                |
| Cement Plus shoe: cft      |                   | 802.15            |                   |                   |                |
| Cement Plus shoe: bbls     |                   | 142.86            |                   |                   |                |
| Total mixing Water: bbls   |                   | 83.63             |                   |                   |                |
| Displacement: bbls         |                   | 133.80            |                   |                   |                |
| Calculated cement: Sk      |                   | 646.89            |                   |                   |                |
| Total water required: bbls |                   | 217.44            |                   |                   |                |

**Cement Recommendations**

|                         |     |                |                |
|-------------------------|-----|----------------|----------------|
| Lead 1 Cement           |     |                |                |
| Tail 1 Cement           | 650 | Premium Cement | 650 sks        |
| Lead 2 Cement           |     |                |                |
| Tail 2 Cement           |     |                |                |
| Mouse & Rat Hole Cement |     |                |                |
|                         |     |                | Total: 650 sks |

**Float Equipment**

**Misc. Chemicals**

Claymax KCI Substitute  
 Sugar  
 Mud Flush

**WPX Energy, Inc.**  
 DODSON A #1-16H  
 PRATT County, KS  
 Sec. 16-26-13  
 8609' 4 1/2 liner

**Fluid Specifications**

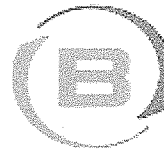
Tail 1 Cement: Premium Cement

| <b><u>CHEMICAL</u></b> |                          | <b><u>U/M</u></b> | <b><u>LOADING PER CWT</u></b> |  |  |
|------------------------|--------------------------|-------------------|-------------------------------|--|--|
| Chem Code              |                          |                   | Premium Cement                |  |  |
|                        |                          |                   | 1st Stage Tail                |  |  |
|                        |                          |                   | 611 cwt.                      |  |  |
| CC105                  | C-41P Defoamer           | lb                | 0.250                         |  |  |
| CC111                  | Salt                     | lb                | 4.808                         |  |  |
| CC112                  | Cement Friction Reducer  | lb.               | 0.750                         |  |  |
| CC130                  | C-51 Water Control Agent | lb.               | 0.100                         |  |  |
|                        |                          |                   |                               |  |  |
|                        |                          |                   |                               |  |  |
|                        |                          |                   |                               |  |  |
|                        |                          |                   |                               |  |  |
|                        |                          |                   |                               |  |  |
|                        |                          |                   |                               |  |  |
|                        |                          |                   |                               |  |  |
|                        |                          |                   |                               |  |  |
|                        |                          |                   |                               |  |  |
|                        |                          |                   |                               |  |  |
|                        |                          |                   |                               |  |  |
|                        |                          |                   |                               |  |  |
|                        |                          |                   |                               |  |  |
|                        |                          |                   |                               |  |  |
|                        |                          |                   |                               |  |  |
|                        |                          |                   |                               |  |  |
|                        |                          |                   |                               |  |  |
|                        |                          |                   |                               |  |  |

**Special Instructions**

Psi test pump & line to 5000 psi.  
 Pump 500 gallon mudflush, 20 bbl H<sub>2</sub>O spacer.  
 Pump 650 sacks 'H' cement with .25% defoamer, 10% salt, .75% cement friction reducer,  
 .1% water control agent at 15.6ppg, 1.24 cft/sk, 5.4 gallon H<sub>2</sub>O/ sack.  
 Wash pump & line clean with sugar H<sub>2</sub>O.  
 Drop plug  
 Displace plug down with 2% KCL H<sub>2</sub>O and sugar in 1st 10 bbl displacement.  
 Land plug 500 psi over differential psi.  
 Release psi and check float.  
 Release drill pipe from liner and circulate well clean with h<sub>2</sub>o.  
 Watch for cement circulated to pit.  
  
 Need 400 bbl fresh H<sub>2</sub>O for job.

638 cft + 38 cft= 676 cft/ 1.24 cft/sk= 545 sacks cement with no excess over caliper log.  
 Jimmy decided to run 650 sacks cement, 105 sacks excess over caliper log.



**BASIC**  
ENERGY SERVICES

## Tail Stage 1

| ENTER % CEMENT AND/OR<br>% POZ IN COLUMN B     |               | BULK PLANT SLURRY CALCULATOR |      |      |        |
|--|---------------|------------------------------|------|------|--------|
|  |               | ADDITIVES                    |      |      | LBS    |
| %  | LBS           |                              |      | %    |        |
| Class A  |               | Bentonite Gel                |      | %    |        |
| Class C  |               | Calcium Chloride             |      | %    |        |
| Class H  | 100           | C-15 Fluid Loss              |      | %    |        |
| Pozmix A                                       |               | C-20 Retarder                |      | %    |        |
| Micro Matrix                                   |               | C-37 Frict /Dispersant       | 0.75 | %    | 458.3  |
| Total Lbs of Cement                            | 61100         | C-41P Defoamer/Powder        | 0.25 | %    | 152.8  |
|  |               | C-43 Thix-O-Tropic           |      | %    |        |
|  |               | C-44 Gasblock/Expander       |      | %    |        |
|  |               | C-45 Sodium Metasilicate     |      | %    |        |
| Number of sacks                                | 650           | C-51 Free Water Control      | 0.1  | %    | 61.1   |
| Calculated with standard<br>water requirements | User<br>Input | Gypsum                       |      | %    |        |
| Slurry Wt. => 15.60                            | 15.60         | KCl (bww)                    |      | %    |        |
| Water Req. => 5.43                             |               | Salt (bww)                   | 10   | %    | 2938.0 |
| Slurry Yield => 1.24                           |               |                              |      |      |        |
|  |               | Celloflake                   |      | #/sk |        |
|  |               | Gilsonite                    |      | #/sk |        |
|  |               | Pheno Seal                   |      | #/sk |        |
|  |               | 20/40 Sand                   |      | #/sk |        |
| Pozmix factor (lbs/cu ft)                      | 74            |                              |      |      |        |
| Pozmix factor (gal/lb)                         | 0.0487        |                              |      |      |        |
| Pozmix water requirement (gal/sk)              | 3.55          |                              |      |      |        |

4.80845 lbs Salt per CWT  
lbs KCLper CWT

Celloflake Per CWT  
Pheno Seal Per CWT  
Gilsonite Per CWT  
20/40 Sand Per CWT



Date: 7/16/2013 Customer: WPX Energy, Inc. Prepared for: SEAN BERZAS  
 County: PRATTKS Lease: DODSON A1-16H 539-573-5119  
 Location:  
 Directions HWY 281 & BYERS BLTP- 1/2 WEST- NORTH INTO. STOP AT GUARD HOUSE TO SIGN IN.

Special Information:

Sacks with  
 Weight Yield Mix water  
 Sacks 650 Premium Cement with Class H CEMENT with .25% DEFOAMER, 10% SALT, .75% CFR, .1% WCA-1  
 Weight 15.60 Yield 1.24 Mix water 5.43  
 Sacks with  
 Weight Yield Mix water  
 Sacks with  
 Weight Yield Mix water

| CODE          |     |     |                | PRICE ESTIMATE |
|---------------|-----|-----|----------------|----------------|
| <u>Cement</u> |     |     |                |                |
| CP100P        | 650 | sk. | Premium Cement | \$11,700.00    |

|                  |      |     |                          |            |
|------------------|------|-----|--------------------------|------------|
| <u>Chemicals</u> |      |     |                          |            |
| CC105            | 153  | lb  | C-41P Defoamer           | \$612.00   |
| CC111            | 2938 | lb  | Salt                     | \$1,469.00 |
| CC112            | 459  | lb. | Cement Friction Reducer  | \$2,754.00 |
| CC130            | 62   | lb. | C-51 Water Control Agent | \$1,550.00 |

|                        |  |  |  |  |
|------------------------|--|--|--|--|
| <u>Float Equipment</u> |  |  |  |  |
|                        |  |  |  |  |
|                        |  |  |  |  |
|                        |  |  |  |  |
|                        |  |  |  |  |
|                        |  |  |  |  |
|                        |  |  |  |  |
|                        |  |  |  |  |

|                        |     |      |                        |          |
|------------------------|-----|------|------------------------|----------|
| <u>Misc. Chemicals</u> |     |      |                        |          |
| C704                   | 5   | gal  | Claymax KCl Substitute | \$175.00 |
| CC131                  | 50  | lb   | Sugar                  | \$100.00 |
| CC151                  | 500 | gal. | Mud Flush              | \$430.00 |

|                  |     |      |  |                    |
|------------------|-----|------|--|--------------------|
| <u>Equipment</u> |     |      |  |                    |
| E100             | 10  | mi   | Unit Mileage Charge-Pickups, Small Vans & Cars (one way) | \$42.50            |
| E101             | 30  | mi   | Heavy Equipment Mileage                                  | \$210.00           |
| E113             | 306 | tm   | Proppant and Bulk Delivery Charges, per ton mile         | 30.6 tons \$488.80 |
| CE209            | 1   | 4hrs | Depth Charge; 8001'-9000'                                | \$3,960.00         |
| CE240            | 650 | sk   | Blending & Mixing Service Charge                         | \$910.00           |

|      |   |    |   |          |
|------|---|----|---|----------|
| S003 | 1 | ea | Service Supervisor, first 8 hrs on loc. | \$175.00 |
|------|---|----|---|----------|

No guarantee, written, expressed or implied Sales tax not included

Thank You  
 KEVIN GORDLEY  
 PRATT, KS.  
 Cell 620-770-2191  
 Office 620-672-1201

Discounted Total \$17,203.41  
 Sales Tax not included  
 Terms: 30 days from invoice date