

WR-35 Rev (5-01) DATE: 5/7/14

API#: 47-105-01368

State of West Virginia Department of Environmental Protection Office of Oil and Gas

Well Operator's Report of Well Work

| _ | ** | | 2 | *** | , | | |
|---------------|---------------------------|---------------------------------|------------------|------------------|--------------------------|--|--|
| Farm name: | Kennith | and Elika Mcclung_ | Ope | erator Well No.: | HR 495_ | | |
| LOCATION: | Elevation: _ | 1029' | Qua | drangle: | _Burning Springs WV 7.5' | | |
| Dis | trict: | _Spring CreekDet South of 38Det | Coi | unty: | Wirt | | |
| Lat | itude: 2296'_ | _Feet South of 38 Do | eg55N | /lin00Sec | | | |
| Lor | ngitude_10800 | "_Feet West of81_ | Deg20N | /lin00Se | c. | | |
| • | | | | | | | |
| Company: | Hard Rock E | xploration | Casing & | Used in | Left in well | | |
| | | | Tubing & | drilling | Feit in weil | Cement fill | |
| Address: 124 | 4 Mortine Rr | anch Road | 1 using | urming | | up Cu. Ft. | |
| | rleston WV, | | - | | | - | |
| Agent: Marc | | 13314 | 13 3/8" | 39' | 39' | N/A | |
| Inspector: Jo | | | 9 5/8" | 966' | 966' | 456ft3 CTS | |
| Date Permit I | | 3 | 7" | 2319' | 2319' | 539ft3 CTS | |
| Date Well Wo | | · | 4.5" | 7950' | 7950' | 84 ft3 | |
| Date Well We | | | 1 | 1,750 | 7,550 | 10410 | |
| Verbal Plugg | | 4. 1/10/17 | Gamma I og | from (3860' MI | D, 4557'TVD) | KUB 3000, | |
| Date Permiss | -701 | n: | | surveys from (3 | | KO1 - 3900 | |
| Rotary x | | Rig | Single shot | sai voja nom (5) | Burrace) | <u> </u> | |
| | | TMD, 4557'TVD | | 1 | T | | |
| | Depth (ft.): | | | HECEI | ver - | | |
| Tredit White | Depth (m) | 701 | 1 | Office of C | | | |
| Salt Water I | Depth (ft.): 19 | 28' | | | 4 a cas | | |
| | - (1.0). 13 | | - | MAY O # | 0.004 | | |
| Is coal being | mined in area | (N/Y)? N | | MAY 2 1 | K1014 | | |
| | | N/A | | | | | |
| | | | ΄ ν | W Depart | ment of | 1 | |
| OPEN FLO |)W DATA | | Fnvi | nagoe | l Protectio | ~ | |
| | | | | | | | |
| Produc | ing formation | nLower Huron_Sl | halePay zon | e depth (ft) 42 | 77'MD- 8203 | 'MD | |
| | | | | | 252'TVD - 4 | 557' TVD | |
| Gas: Ir | nitial open fl | ow_ Trace MCF/d O | il: Initial open | flowB | bl/d | | |
| Fin | al open flow | >1.5MMCF/d | Final open flo |)w | Bbl/d | | |
| Tin | ne of open flo | ow between initial and | l final tests | 72 H | ours | | |
| Static | rock Pressure | e1350psig | (surface pressu | ure) after 72 | Hours | | |
| | | | • | | | | |
| Second | d producing | formation | Pay zo | one depth (ft) | | | |
| | | ow MCF/d Oi | | | Bbl/d | | |
| | | | - | w F | | | |
| | • | ow between initial and | | | | | |
| | | e psig (surfa | | | | | |
| | | | - F u | *** | - • | | |
| NOTE: ON | BACK OF | THIS FORM PUT THE | FOLLOWING | : 1). DETAILS | OF PERFORAT | TED | |
| INTERVA | L <mark>S, FRACT</mark> U | RING OR STIMULAT | ING, PHYSICA | AL CHANGE, 1 | ETC. 2). THE W | 'ELL | |
| | | STEMATIC DETAILED | | | F ALL FORMA | TIONS, | |
| | | COUNTERED BY THE | WELLBORE. | | | | |
| Si | gned: | James of Fresh | | | | | |
| | , <u> </u> | President / 5/21/2014 | <i>U</i> | | | | |
| | Date: | 3V/Z1/ZU14 | | | | | |

| Formation: | Top: | Bottom: |
|---------------------|------|---------|
| Soil/Sand/Shale | 0 | 1802 |
| Salt Sand | 1802 | 2168 |
| Big Injun | 2168 | 2232 |
| shale | 2232 | 4557 |
| Lower Huron Section | 4380 | 4557 |

All depths shown As TVD

03/11/14. Total pipe ran 7950' KB - 177 jts R-3 N-80 with Peak Completions 14 stage openhole packer system.

03/12/14 Universal well services Pressure test to 5000 psi. Bleed off and pump 5 bbl water down casing and drop ball for pump out shoe. Follow ball with N2 at 7000 scf/min. Land ball and pressure casing up to 3000 psi with approx. 150k scf N2 (packers shut off flow at 2100 psi). Hold 3000 psi for 20 min. Bleed pressure back down to 850 psi. RU to dump squeeze cmt on to top packer. Pump total of 15 bbls Type 1 2% CaCl cmt mixed at 15ppg.

NOTE: THERE ARE NO PERFORATED INTERVALS IN THIS STYLE OF COMPLETION. THE PACKERS WILL SERVE AS STAGE ISOLATION AND THE BALL ACTIVATED MECHANICAL SLEEVES SERVE AS THE MEANS OF COMMUNICATION FROM WELLBORE TO FORMATION. ALL DEPTHS ARE INDICATED BELOW.

| Stage | Sleeve | Sleeve Size | Ball Size | Packer |
|--------|---------|-------------|-----------|---------|
| 1 | 7950.15 | P/O Shoe | P/O Shoe | 7770.25 |
| 2 | 7637.00 | 1.156 | 1.250 | 7497.15 |
| 3 | 7361.30 | 1.281 | 1.375 | 7221.45 |
| 4 | 7085.50 | 1.406 | 1.500 | 6990.00 |
| 5 | 6854.00 | 1.531 | 1.625 | 5714.10 |
| 6 | 6578.30 | 1.656 | 1.750 | 6438.45 |
| 7 | 6302.50 | 1.781 | 2.000 | 6162.85 |
| 8 | 6026.80 | 2.031 | 2.250 | 5887.30 |
| 9 | 5751.40 | 2.281 | 2.500 | 5611.80 |
| 10 | 5475.95 | 2.531 | 2.750 | 5336.25 |
| 11 | 5200.20 | 2.781 | 3.000 | 5104.75 |
| 12 | 4968.85 | 3.031 | 3.250 | 4829.20 |
| 13 | 4693.05 | 3.281 | 3.500 | 4553.25 |
| 14 | 4417.25 | 3.531 | 3.750 | 4277.65 |
| Anchor | | | | 2504.75 |

04/09/14 - 4/10/14 MIRU Universal well services. Pressure test lines at 7:00pm. Start pumping on Stg 1 at 46k scf/min. Pressure up to 4738 psi and open shoe. Continue pumping and increase rate as pressure allows. Couldn't get much more than 52k scf/min rate. Pump total of 1MM scf N2 - drop 1.25" ball for Stg 2 and pump ball to sleeve with N2 at approx. 20k scf/min, and land ball with 160k scf N2. Didn't see clear operation of sleeve. Increase rate as pressure allows; couldn't reach max rate. Pump total of 1MM scf N2. Drop 1.375" ball for Stg 3. Shut down and let ball drop. Wait 10 mins pressure fell to 2430 psi. Start pumping ball to sleeve, and open sleeve at 4755 psi. Continue to increase rate as pressure allows. Pump total of 1MM scf N2. Repeat Process for Stgs 4 - 14.

| | Stage 1 | Stage 2 | Stage 3 | Stage 4 | Stage 5 | Stage 6 | Stage 7 |
|---------|---------|---------|-----------|----------|----------|----------|-----------|
| Max P | 5929 | 5905 | 5834 | 5859 | 5846 | 5920 | 5887 |
| Avg P | 5495 | 5576 | 5529 | 5582 | 5760 | 5795 | 5749 |
| Max R | 52.9 | 53.0 | 52.4 | 61.7 | 62.9 | 68.6 | 71.5 |
| Avg R | 46.3 | 45.8 | 49.6 | 53.4 | 61.5 | 64.4 | 67.1 |
| Shut In | N/A | N/A | 2903-5min | N/A | N/A | N/A | 2951-5min |
| | | | | | | | |
| | Stage 8 | Stage 9 | Stage 10 | Stage 11 | Stage 12 | Stage 13 | Stage 14 |
| Max P | 5975 | 5964 | 5838 | 5909 | 5929 | 5822 | 5159 |
| Avg P | 5890 | 5840 | 5627 | 5518 | 5402 | 5793 | 4269 |
| Max R | 53.2 | 59.5 | 71.9 | 50.0 | 32.8 | 40.2 | 105.5 |
| Avg R | 49.3 | 46.1 | 67.8 | 40.0 | 29.6 | 37.2 | 102.1 |
| Shut In | N/A | N/A | N/A | N/A | N/A | N/A | 1811-5min |

Customer: HARDROCK

Lease and Well Name: HR 495

A.F.E #:



Job Type: 9 5/8 SURFACE JOB

Cement Operator: ERIC B FIELDS

Date Comented: 3/1/2014

Drilling Contractor: GASCO

| | | | | Cen | nent Slur | ry Inform | ation | | | | | |
|-----------------|-------------------|---------------|----------------|------------------|----------------|-----------|------------------------|-----------------------|---------------------|--------------------|---------------------------------|--------------------|
| No. of Sacks | | Ce | ment Blend Com | position | | | Yield (ft³/sk) | Mix Water (gal/sk) | Density (lb/gal) | (bbl) Mix Water | (ft ⁵) of Slurry | (bbl) of Slurry |
| 380 | | TYP | 1 3% CACL .: | % CACL .25 FLAKE | | | | 5.20 | 15.6 | 47.0 | 448.4 | 79.9 |
| | | | | | | | | | | | | |
| | | | | | | | | | Totals | 47.0 | 448.4 | 79.9 |
| 17 | | | | ν | Vellbore I | nformati | on | | | | | |
| | New/Us | ed Diamet | weight (lb/ft) | Top (ft) | Bottom (ft) | Colla | pse/Burst Pre (psi) | ssures | | Requeste | ed TOC (ft) | SURFACI |
| Casing | NEV | 9.62 | 26.0 | 0 | 972 | | | | | TVI | D (ft) | 1,017 |
| Previous Cas | sing NEV | 13.37 | 5 37.0 | 0 | 40 | | | | | | | 1,017 |
| Tubing or Drill | pipe | | | | | | | | | Displaceme | ent Depth (ft) | 930 |
| Open Hole | e | 12.37 | 5 | 40 | 1,017 | | | | | 707 | Or or Vir vie | 2,000 |
| Open Hole | e | | | | | | | | 1 | Displace | ment (bbl) | 75.2 |
| | Pumping F | eturns | | Ceme | nt Slurry | Tempera | ture Rec | ord (°F) | | Fluid Inf | ormation | 1 |
| Spacer or Go | Sweep Return S | en at Surface | yes | Cement | Reading 1 | Reading 2 | Reading 3 | Average | M | x Water Temp | (°F) | 36 |
| | Returns Seen at | | yes | Blend 1 | | | | | Disp | placement Flui | d Type | WATER |
| | t of Cement Retur | | 10 | Blend 2 | | | | | Displa | cement Fluid 1 | remp (°F) | 36 |
| | | | | Blend 3 | | | | | Displace | ment Fluid Der | sity (lb/gal) | 8.3 |

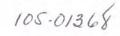
| Time | Rate (bpm) | Volume (bbl) | Pressure (psi) | Event or Stage Description |
|-------|------------|--------------|----------------|-----------------------------------|
| 5:30 | | | | ARRIVE ON LOCATION |
| 5:45 | | | | SPOT TRUCKS/SAFETY MEETING |
| 5:50 | | | | RIG UP/WAIT ON RIG TO RUN PIPE |
| 8:30 | | | | PRE JOB MEETING |
| 8:35 | 3.5 | 70 | 65 | H20 AHEAD |
| 8:55 | 4 | 10 | 167 | GEL SPACER |
| 8:57 | 3.5 | 5 | 161 | H20 SPACER |
| 8:59 | 3,5 | 81 | 155 | PUMP CEMENT |
| 9:30 | 0.0 | | | S/D D/P |
| 9:31 | 4 | 70 | 55 | DISPLACE H20 |
| 10:01 | 4/2 | | 378 | S/D |
| 10:25 | | | | WASH TRUCK/RIG OUT |
| 11:00 | 1 | | | LEAVE LOCATION |
| | | | | |
| | | | | |

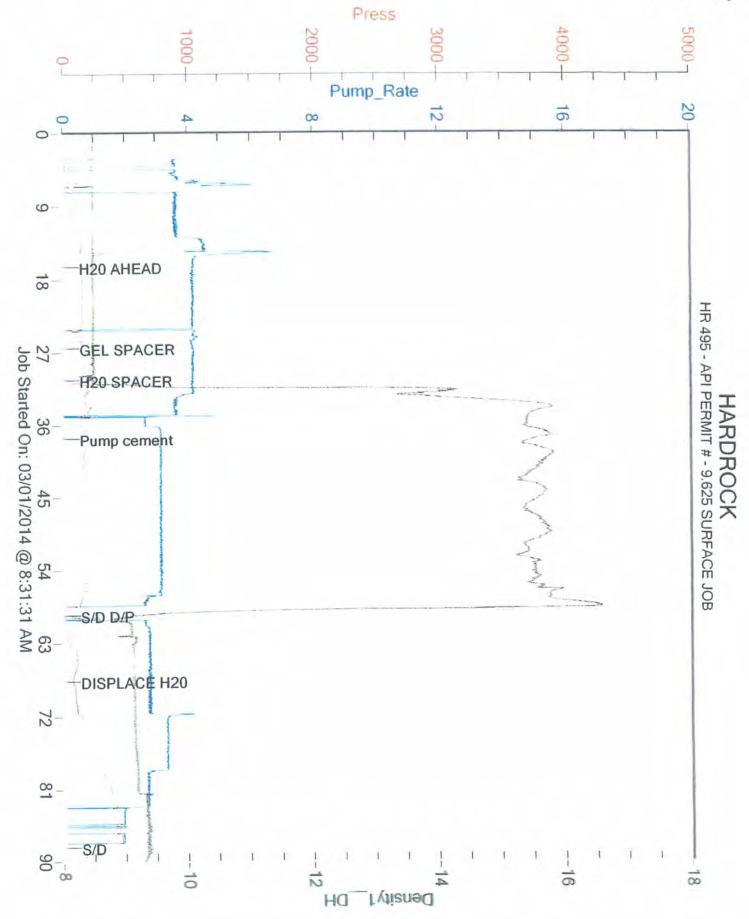
Eni B. Feld.

Thank you for your business.

UWS Cement Operator Signature:

Customer Representative Signature:





API Ponnit #:

Customer: HARD ROCK

Loase and Well Name: HR 495



Job Type: 7" INTERMEDAITE

Cement Operator: MICHAEL BROWNING

Date Cemented: 3/2/2014

| | | | | | Cem | ent Siur | ry Inform | ation | | | | | |
|-----------------|-------------------------|--|----------------|--------------|--------------------|----------------------|-----------|--------------------------------|-----------------------|---------------------|----------------------------------|--------------------|-------------------|
| to. of Sacks | | | Cemen | t Blend Comp | oosition | | | Yield (ft³/sk) | Mix Water (galfsk) | Density (lb/gal) | (bbl) Mix Water | (ft²) of Sturry | (bbl) of Slurr |
| 390 | | | TYPE 1 | 2% C.C. 1/4 | 4 FLAKE | | | 1.18 | 5.20 | 15.6 | 48.3 | 460.2 | 82.0 |
| | | | | | | | | | | | | | |
| | <u> </u> | | | | | | | | _ | | | | |
| | _ | | | | | elibore l | nformatic | Dea | | Totals | 48.3 | 460.2 | 82.0 |
| | | New/Used | Diameter | Weight | Тор | Bottom | Colla | pse/Burst Pre | ssures | | Requeste | ed TOC (ft) | SURFAC |
| | sing | New NEW | 7.000 9.625 | (lb/ft) | (ft) 0 | (ft) 2,319 966 | | (psi) 1450/2310 860/1280 | | | TVI | O (ft) | 2,370 |
| ubing o | r Drill pipe | INEAA | 8.875 | | 966 | 2,370 | | 000/1280 | | | Displaceme | nt Depth (ft) | 2,319 |
| | n Hole n Hole | | 8.875 | | 500 | 2,570 | | | | | Displace | ment (bbi) | 95.0 |
| , | Pum | ping Ret | urns | | Cemer | t Slurry | Tempera | ture Rec | ord (°F) | | Fluid Inf | ormation | |
| | | Return Seen a | | | Cement | Reading 1 | Reading 2 | Reading 3 | Average | | x Water Temp | | 31 |
| | | Seen at Surf | | | Blend 1 Blend 2 | | | _ | | | lacement Fluid cement Fluid T | | Water |
| An | mount of Cem | ent Returns (t | | | Blend 3 | | <u> </u> | | | | nent Fluid Den | | 31 8.3 |
| | | D | (A) | Make | - (hbi) | | no (nell) | | Even | A on Sto | | | |
| | me | Kate | (bpm) | Volum | re (bbi) | Pressu | re (psi) | | EAGU | | ge Descri | | |
| | 1:00 1:02 | ļ | | | | | | | | | G ON RIG | | |
| | 3:30 | | | - | | | | | | | READY | | |
| | 3:35 | | | | | | | | SPO | | SAFTY MEE | TING | |
| | :10 | | | | | | | ļ | | | 3 UP | | |
| | 2:15 | | | | | 45 | 500 | | | | Y MEETING JRE TEST | | |
| |):20):24 | ļ | 4 | 1 | 35 | | 14 | | | | WATER | | |
| | :44 | | 4 | | 10 | | 50 | START GEL & FLAKE | | | | | _ |
| 19 | :48 | | 4 | | 5 | | 98 | | | | SPACER | | |
| | 7:50 | | 4 | | 70 | | 94 | | | | CEMENT | | |
| | 1:05 | <u> </u> | 4 | | 28 | - 1, | 28 | | | | CEMENT PLACEMENT | | |
| |):12):38 | 4 | /2 | | 35 | 13 | 342 | | | | PLUG | | |
| | :30 | <u> </u> | | | | | | | | WA | SH UP | | |
| 22 | 2:00 | | | | | | | | | | X UP | | |
| 22 | 2:10 | | | | | | | | | LEAVING | LOCATION | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | ments: 1500 / LIFT I | PSI= 1147 / [| OIFF PSI= 87 | 5 | | | | | | | | | |
| | | PS⊨ 1147 / [| OIFF PSI= 87 | 5 | | | | | | Ti | nank you for | Marte Brief | oope |

MICHAEL BROWNING

Customer: HARD ROCK Lease and Well Name: HR 495

A.F.E #:

Job Type: 7" INTERMEDAITE Cement Operator: MICHAEL BROWNING

Date Cemented: 3/2/2014 **Drilling Contractor: GASCO**



PUMP SCHEDULE

Universal Well Services Proposed

Company Representative Proposed
Pump Schedule

| Pump Schedule | | | Pump Schedule | | | | |
|---------------------------------------|-------|----------|---------------------------------------|-------|---|--|--|
| Pick up Pump | | | Pick up Pump | | | | |
| Pressure Test | 1,500 | psi | Pressure Test | 1,500 | psi | | |
| Release Pressure | | | Release Pressure | | | | |
| GEL | 10.0 | bbl | WATER | 85.0 | bbl | | |
| WATER | 90.0 | bbl | GEL | 10.0 | bbl | | |
| | | bbl | WATER | 5.0 | 5.0 bbl 0.0 bbl 5.0 bbl 6.0 bbl bbl bbl bbl bbl | | |
| CEMENT 15.6 | 82.0 | | 70.0 | bbl | | | |
| SD/DP | | bbl | CEMENT 15.6 | 28.0 | bbl | | |
| | | bbl | SD/DP | 28.0 | bbl | | |
| | | bbl | | | bbl | | |
| | | bbl | | | bbl | | |
| | | bbl | | | bbl | | |
| | | bbl | | | bbl | | |
| | | bbl | | | bbl | | |
| Pump Displacement | 95.0 | bbl | Pump Displacement | 95.0 | bbl | | |
| Land plug at | 2.0 | bbl/min | Land plug at | 2.0 | bbl/min | | |
| Land plug at | 200 | | | 200 | | | |
| Bump plug Release Pressure/Check F | | psi over | Bump plug Release Pressure/Check I | | psi ove | | |
| Release Pressure/Check P | ioais | | Release Fressure/Crieck i | IUdio | | | |

| Parameter | | | Water Test | ing Results | |
|--------------------------|----|----|------------|-------------|-------------------------|
| Sample Location | | | | | |
| pH | 7 | 7 | 7 | 7 | [5-9 Recommended] |
| Temperature (°F) | 31 | 31 | 31 | 31 | [<80 °F Recommended] |
| Specific Gravity | | | | | [<1.005 Recommended] |
| Tannin and Lignin (mg/l) | | | | | [<25 mg/l Recommended] |
| Hardness (mg/l) | | | | | [<500 mg/l Recommended] |
| Iron (mg/l) | | | | | [<20 mg/l Recommended] |
| Sulfates (mg/l) | | | | | [<200 mg/l Recommended] |

| | | Universal Well Services Water Requirements |
|------------------------|-------------|--|
| This job will require | 288 | bbls to properly complete the job |
| There is a minimum of | 540 | bbls of useable water that meets UWS testing recommendations for mixing the cement slurry(s) and (or) any spacers or flushes that were designed to be used for the job |
| There is a minimum of | 540 | bbls of fluid that can be used for the displacement of the top plug to the casing shoe |
| UWS Cement Operato | or Signatur | e: Michael Brasning Date: 3-2-14 |
| Customer Representativ | e Signatur | e: Date: |

Customer: HARDROCK

Lease and Well Name: HR 495



Job Type: N2 PACKER SET

Cement Operator: ERIC B FIELDS

Date Cemented: 3/11/2014 **Drilling Contractor: GASCO**

| A.F.E#: | | |
|---------|--|--|

| | | | | | Cen | nent Slum | ry Inform | ation | | | | | |
|-----------------|-------------|----------------|------------------|-------------------|------------------------------|------------|-----------|----------------|-----------------------|---------------------|--------------------|---------------------------------|--------------------|
| No. of Sacks | | | Cemen | Blend Comp | osition | | | Yield (ft³/sk) | Mix Water (gal/sk) | Density (Ib/gal) | (bbl) Mix Water | (ft ³) of Slurry | (bbl) of Slurry |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | Totals | | | |
| | | | | | W | lellbore i | nformatio | on | | | | | |
| | | New/Used | Diameter (in) | Weight (lb/ft) | Top Bottom Collapse/Burst Pr | | | | ssures | Requested TOC (ft) | | | |
| Casin | g | NEW | 4.500 | 11.6 | 0 | 7,998 | | | | | TVI |) (ft) | 4,550 |
| Previous C | Casing | NEW | 7.000 | 20.0 | 0 | 2,327 | | | | | | (11) | |
| Tubing or D | | | 6.250 | | 2,327 | 8,203 | | | | | Displaceme | nt Depth (ft) | 7,998 |
| Open H | | | 0.250 | | 2,321 | 8,203 | | | | | Displace | ment (bbl) | 123.0 |
| | Pum | ping Retu | arns | | Cemer | nt Slurry | Tempera | ture Rec | ord (°F) | | Fluid Inf | ormation | |
| Spacer or C | Sel Sweep | Return Seen a | t Surface | | Cement | Reading 1 | Reading 2 | Reading 3 | Average | Mi | x Water Temp | (°F) | 40 |
| Ceme | ent Returns | Seen at Surfa | ice | | Blend 1 | | | | | Disp | lacement Fluid | Туре | WATER |
| Amoi | unt of Cem | ent Returns (b | bl) | | Blend 2 | | | | | | cement Fluid T | | 40 |
| | | | | | Blend 3 | | | | | Displace | nent Fluid Den | sity (lb/gal) | 8.3 |

| Time | Rate (bpm) | Volume (bbi) | Pressure (psi) | Event or Stage Description |
|-------|-------------|--------------|----------------|------------------------------|
| 15:30 | | | | ARRIVE ON LOCATION/ |
| 15:45 | | | | SPOT TRUCKS/SAFETY MEETING |
| 16:00 | | | | RIG UP/WAIT ON RIG |
| 9:40 | | | | PRE JOB MEETING |
| 9:48 | | | 5029 | PRESSURE TEST TO 5000 PSI |
| 9:53 | 3 | 5 | 44 | H20 AHEAD |
| 9:55 | | | | S/D D/B |
| 9:56 | 5,844 | | 454 | PUMP N2 |
| 10:22 | 5,844-4,224 | | 2995/2950 | PSI UP TO 3000 FOR 30 MIN |
| 10:45 | | | | BLEED OFF TO PSI TO 1000 PSI |
| 10:55 | | | | SHUT IN/RIG OUT |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Comments:

Thank you for your business.

UWS Cement Operator Signature:

En B. Tid Customer Representative Signature:

Customer: HARDROCK

Lease and Well Name: HR 495



Job Type: BACKSIDE DUMP

Cement Operator: ERIC B FIELDS

Date Cemented: 3/11/2014

A.F.E #:

| | | | | | | | | | | | | | _ |
|----------------------|--------------|-----------------|-----------|--------------|----------|-----------|-----------|----------------|-----------------------|---------------------|-------------------------|---------------------------------|-------------------|
| | | | | | Cen | nent Slur | ry Inform | ation | | | | | |
| No. of Sacks | | | Cemen | t Blend Comp | position | | | Yield (ft³/sk) | Mix Water (gal/sk) | Density (lb/gal) | (bbl) Mix Water | (ft ³) of Slurry | (bbl) of Slurr |
| 100 | | | TY | PE 1 2% CA | ACL | | | 1.18 | 5.20 | 15.6 | 12.4 | 118.0 | 21.0 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | Totals | 12.4 | 118.0 | 21.0 |
| | | New/Used | Diameter | Weight | Тор | Bottom | | pse/Burst Pres | ssures | | Requeste | d TOC (ft) | |
| | | | (in) | (lb/ft) | (ft) | (ft) | | (psi) | | | | | |
| Casing | | NEW | 4.500 | 11.6 | 0 | 7,998 | | | | | TVD (ft) | | 4,550 |
| Previous Casing | | NEW | 7.000 | 20.0 | 0 | 2,327 | | | | | | | ., |
| Tubing or Drill pipe | | | | | | | - | | | | Displacement Depth (ft) | | 7,998 |
| Open Hole | | | 6.250 | | 2,327 | 8,203 | | | | | | | 7,75 |
| Open | Hole | | | | | | 1 | | | | Displace | ment (bbl) | 123.0 |
| | Pun | ping Ret | urns | | Ceme | nt Slurry | Tempera | ture Rec | ord (°F) | | Fluid Infe | ormation | |
| Spacer or | Gel Sweep | Return Seen a | t Surface | | Cement | Reading 1 | Reading 2 | Reading 3 | Average | Mi | x Water Temp | (°F) | 40 |
| Cen | nent Returns | s Seen at Surfa | ace | | Blend 1 | | | | | Disp | lacement Fluid | Туре | WATE |
| Am | ount of Cem | ent Returns (b | bl) | | Blend 2 | | | | | Displa | cement Fluid T | emp (°F) | 40 |
| | | | | | Blend 3 | | | | | Displacer | nent Fluid Den | sity (lb/gal) | 8.3 |

| Time | Rate (bpm) | Volume (bbi) | Pressure (psi) | Event or Stage Description |
|-------|------------|--------------|----------------|-------------------------------------|
| 15:30 | | | | ARRIVE ON LOCATION |
| 15:45 | | | | SPOT TRUCKS/SAFETY MEETING |
| 16:00 | | | | RIG UP/WAIT ON RIG |
| 9:40 | | | | PRE JOB MEETING |
| 11:05 | 3 | 15 | 60 | BATCH UP AN PUMP CEMENT ON BACKSIDE |
| 11:10 | 3 | 2 | 44 | PUMP H20 BEHIND |
| 11:15 | | | | S/D WASH TRUCK |
| 11:35 | | | | RIG OUT |
| 13:00 | | | | LEAVE LOCATION |
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Comments.

Thank you for your business.

UWS Cement Operator Signature:

Customer Representative Signature: