

PIONEER
NATURAL RESOURCES

| | |
|------------------|-----------|
| TREATMENT NUMBER | DATE |
| FG2014019 | 6/11/2014 |
| STAGE | JOB TYPE |
| 1 | Summary |

| | | | | | | | | | |
|---------------------------|-------------------|-------------------------------|--|----------------|------|----------------|-----|---------------|-------|
| WELL NAME AND NO. | | LOCATION (LEGAL) | | BIRG NAME | | CEMENT PUMPER: | | Square | |
| San Pablo # 1-4 | | NW/NW 3-13-67W | | ECWS # 33 | | | | 23004 / 23001 | |
| FIELD | FORMATION | WELL DATA | | BOTTOM | | FT | | TOP | FT |
| Raton | RATON | BIT SIZE | | CSG/Liner Size | 7" | | | | |
| COUNTY | STATE | TOTAL DEPTH | | WEIGHT | 23 | | | | |
| LAS ANIMAS | COLORADO | MUD TYPE | | FOOTAGE | 7187 | | | | |
| RIGGYMAN Dave Martinez | | <input type="checkbox"/> B-ST | | GRADE | 1.55 | | 50% | | |
| | | <input type="checkbox"/> B-CT | | THREAD | ST&C | | | | |
| | | MUD DENSITY | | SHOE JOINT(S) | | | | | TOTAL |
| CLIENT SUPER | Frank L. Gonzales | MUD VISC | | Disp. Capacity | | | | | 0 |

| | | | | | |
|----------------------|------------|---|------------|-------|--|
| | | Include Fretage From Ground Level To Head In Disp. Capacity | | | |
| SPECIAL INSTRUCTIONS | SHORE P.O. | TYPE | Range Tool | TYPE | |
| | | DEPTH | | DEPTH | |
| | | TYPE | | TYPE | |
| | | DEPTH | | DEPTH | |

| | | | | | | | | |
|--|--------------------------|-------------|--------|---------------|-------------------------------|-------------|------|----------|
| | | Head & Plug | | IN TUB | <input type="checkbox"/> D.P. | SQUEEZE JOB | | |
| Brian Ault, Steve Schrek | <input type="checkbox"/> | Size | 2 7/8" | | | TOOL | TYPE | Retainer |
| Personel: | <input type="checkbox"/> | Weight | | | | DEPTH | SBOT | |
| Ronald Trujillo, Bruce Green, Cacey Rogers | <input type="checkbox"/> | Grade | J 55 | TAIL PIPE: | SIZE | DEPTH | | |
| Engineer: | <input type="checkbox"/> | Threads | | TUBING VOLUME | | BBLs | | |
| Richard Adams | <input type="checkbox"/> | | | CASE VOLUME | | BBLs | | |

| | | | | | | | | | | | |
|----------------|--|-------------|--|---------------|--|---|--|----------------------|--|----------------------|--|
| LIFT PRESSURE | | N/A | | psi | | <input type="checkbox"/> MUDLOG <input type="checkbox"/> Neph <input type="checkbox"/> LEAK | | CSG VOL BELOW TAIL | | BBLs | |
| PRESSURE LIMIT | | 3000 | | psi | | BUMP PLUG TO | | N/A | | DEPTH | |
| | | | | | | CEMENT TEMPERATURE: | | | | TOTAL | |
| | | | | | | NO. of Centralizer | | N/A | | ANNULAR VOLUME | |
| | | | | | | | | | | BBLs | |
| TIME | | PRESSURE | | VOLUME PUMPED | | JOB SCHEDULED FOR | | WATER QUALITY: | | pH | |
| (HH:MM) | | (TWO:THREE) | | (GAL) | | (TIME: DATE) | | (PPH) | | 73 | |
| TIME | | PRESSURE | | VOLUME PUMPED | | JOB SCHEDULED FOR | | ARRIVE ON LOCATION | | LEFT LOCATION | |
| (HH:MM) | | (TWO:THREE) | | (GAL) | | (TIME: DATE) | | (TIME: DATE) | | (TIME: DATE) | |
| 00:00 (24:00) | | TWO:THREE | | GAL | | TIME: DATE: 6/1/2014 | | TIME: DATE: 6/1/2014 | | TIME: DATE: 6/1/2014 | |
| 00:00 (24:00) | | TWO:THREE | | GAL | | TIME: DATE: 6/1/2014 | | TIME: DATE: 6/1/2014 | | TIME: DATE: 6/1/2014 | |

| Time | Pressure (PSI) | Flow (GPM) | Temperature (°F) | Water Level (ft) | Notes | Remarks |
|-------|----------------|------------|------------------|------------------|-------|----------------|
| 11:00 | | | | | | Safety meeting |
| 11:30 | | 2 | 2 | 1 | H2O | 8.3 |
| 11:35 | | | | | H2O | 8.3 |
| 11:45 | | | | | H2O | 8.3 |
| | | | | | H2O | 8.3 |
| 11:56 | 3500 | 1 | 3 | 1 | H2O | 8.3 |
| 12:00 | 1200 | 4 | | 1 | H2O | 8.3 |
| 12:01 | 1350 | | | 0.7 | H2O | 8.3 |
| 12:04 | 1350 | | 7 | 0.7 | H2O | 8.3 |
| 12:04 | 1080 | | | | H2O | 8.3 |
| 12:15 | 1434 | 4.5 | | 0.8 | H2O | 8.3 |
| 12:18 | 1600 | | 11.5 | 2.1 | H2O | 8.3 |
| 12:19 | | | | | | |
| 12:32 | 160 | 15 | 26.5 | 2 | Cmt. | 13.7 |
| 12:42 | 55 | 29 | 43.5 | 2 | H2O | 8.3 |
| 12:47 | | | | | H2O | 8.3 |
| 12:48 | 47 | | | 1.7 | H2O | 8.3 |
| 12:49 | 1485 | | 45.5 | 1.7 | H2O | 8.3 |
| 12:51 | 1600 | | 50.5 | 2.1 | H2O | 8.3 |
| 12:55 | 1336 | | 54.5 | 1.4 | H2O | 8.3 |

| System Used | No. of Sticks | Yield lb/stk | STURRY MIXED | |
|-------------|------------------|-----------------|--|---------|
| | | | BBLS | DENSITY |
| STV50 | 59 | 1.43 | Class G, Pozz., P900, P167, POKS, P046, P154 | 13.7 |
| | | | | |
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|---|-----------------------------|------------------------------|-----------------------------|---|-----------------------------|------------------|-------|------|-------|
| CIRCULATION | | WASHED CASING DOWN | | BREAKDOWN | | 54 PSI | FINAL | 1150 | PSI |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | BEFORE PLUG BUMP | | | |
| DISPLACEMENT VOL. 29 | | BBL/S | | BT REQUIRED TO SL REFL. | | N/A | PSI | RATE | 2 BPM |