

CEMENT JOB REPORT



| | | | |
|--|---------------------------|-------------------|---|
| CUSTOMER SHELL WESTERN E & P INC | DATE 23-MAR-12 | F.R. # 1001897133 | SERV. SUPV. GREGORY SWRIGHT Jonathan Schulz |
| LEASE & WELL NAME DAVIS 3407 27-1H - API 15077218230100 | LOCATION | | COUNTY-PARISH-BLOCK Harper Kansas |
| DISTRICT McAlester | DRILLING CONTRACTOR RIG # | | TYPE OF JOB Surface |

| SIZE & TYPE OF PLUGS | LIST-CSG-HARDWARE | MECHANICAL BARRIERS | MD | TVD | HANGER TYPES | MD | TVD |
|---------------------------------------|----------------------|---------------------|----|-----|--------------|----|-----|
| 9-5/8" Top Cem Plug, Nitrile cvr, Phc | Provided by Customer | | | | | | |

| MATERIALS FURNISHED BY BJ | LAB REPORT NO. | PHYSICAL SLURRY PROPERTIES | | | | | | |
|--|----------------|--|----------------|---------------|-----------|------------------|--------------|---------------|
| | | SACKS OF CEMENT | SLURRY WGT PPG | SLURRY YLD FT | WATER GPS | PUMP TIME HR:MIN | Bbl SLURRY | Bbl MIX WATER |
| Fresh Water | | | 8.34 | | | | 20 | |
| Class C + 2% CaCl + .25pps Celloflake + 0.01% stat | | 500 | 14.8 | 1.35 | 6.34 | 02:45 | 120.2 | 75.47 |
| Fresh Water | | | 8.34 | | | | 59 | |
| Available Mix Water <u>400</u> Bbl. | | Available Displ. Fluid <u>305</u> Bbl. | | TOTAL | | | <u>199.2</u> | <u>75.47</u> |

| HOLE | | | TBG-CSG-D.P. | | | | | | COLLAR DEPTHS | | | |
|-------|----------|-------|--------------|-------|------|------|-----|-----|---------------|------|-------|-------|
| SIZE | % EXCESS | DEPTH | ID | OD | WGT. | TYPE | MD | TVD | GRADE | SHOE | FLOAT | STAGE |
| 12.25 | | 820 | 8.921 | 9.625 | 36 | CSG | 801 | 801 | J-55 | | | |

| LAST CASING | | | | PKR-CMT RET-BR PL-LINER | | | | PERF. DEPTH | | TOP CONN | | WELL FLUID | | |
|-------------|----|-----|------|-------------------------|-----|--------------|--|-------------|-----|----------|-------|------------|-------------|------|
| ID | OD | WGT | TYPE | MD | TVD | BRAND & TYPE | | DEPTH | TOP | BTM | SIZE | THREAD | TYPE | WGT. |
| 17. | 18 | 84 | | 60 | 60 | | | | | | 9.625 | 8RD | FRESH WATER | 8.34 |

| DISPL. VOLUME | | DISPL. FLUID | | CAL. PSI | CAL. MAX PSI | OP. MAX | MAX TBG PSI | | MAX CSG PSI | | MIX WATER |
|---------------|------|--------------|------|-----------|--------------|---------|-------------|----------|-------------|----------|-----------|
| VOLUME | UOM | TYPE | WGT. | BUMP PLUG | TO REV. | SQ. PSI | RATED | Operator | RATED | Operator | WATER |
| 58.3 | BBLS | Fresh Water | 8.34 | 255 | | | | | 3568 | 2000 | Frac tank |

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: Arrive on location @ 1730, Still making hole, Pulling drill pipe, Running casing

| PRESSURE/RATE DETAIL | | | | | | EXPLANATION | |
|----------------------|----------------|---------|----------|-------------------|------------|--|--|
| TIME HR:MIN. | PRESSURE - PSI | | RATE BPM | Bbl. FLUID PUMPED | FLUID TYPE | SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/> | |
| | PIPE | ANNULUS | | | | TEST LINES 3850 PSI | |
| | | | | | | CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/> | |
| 17:30 | | | | | | Arrive on Location on 3/23/2012 | |
| 14:18 | 109 | | 3.8 | 5 | WATER | load pumps & lines | |
| 14:21 | 3850 | | | | WATER | pressure test lines | |
| 14:26 | 177 | | 2.8 | | WATER | open well/start water ahead | |
| 14:33 | 56 | | 2.8 | 20 | WATER | end water ahead start slurry @ 14.8ppg | |
| 14:50 | 123 | | 3.8 | 62 | SLURRY | bbls pumped when slurry @ shoe | |
| 15:07 | 50 | | 3.4 | 120 | SLURRY | end slurry/ shutdown | |
| 15:09 | 29 | | 2.8 | | WATER | drop TRP/ start displacement | |
| 15:12 | 102 | | 2.8 | 5 | WATER | bbls of displacement pumped when cement to surface | |
| 15:26 | 145 | | 2.8 | 59 | WATER | bbls pumped/ shutdown/ no bump | |
| 11:30 | 130 | | | | | Check float/ holding | |
| | | | | | | 50bbls cement return to surface | |
| | | | | | | Thanks for using BHI Pressure Pumping | |
| | | | | | | Jonathan Schulz & Crew | |

| | | | | | | | |
|---|-------------------------|---|---------------------------------|--------------------------|----------------------|---|-----------------------------------|
| BUMPED PLUG Y <input type="checkbox"/> N <input checked="" type="checkbox"/> | PSI TO BUMP PLUG 207 | TEST FLOAT EQUIP. Y <input type="checkbox"/> N <input checked="" type="checkbox"/> | BBL.CMT RETURNS/ REVERSED 50 | TOTAL BBL. PUMPED 205 | PSI LEFT ON CSG 0 | SPOT TOP OUT CEMENT Y <input type="checkbox"/> N <input checked="" type="checkbox"/> | SERVICE SUPERVISOR SIGNATURE: |
|---|-------------------------|---|---------------------------------|--------------------------|----------------------|---|-----------------------------------|