

CEMENT JOB REPORT



| | | | |
|--|---------------------------|----------------------|--------------------------------------|
| CUSTOMER SHELL WESTERN E & P INC | DATE 01-OCT-12 | F.R. # 1001938174 | SERV. SUPV. JONATHAN M SCHULZ III |
| LEASE & WELL NAME SCHUPBACH RANCH 3510 #3-1H - API 1500723929 | LOCATION 3-35S-10W | | COUNTY-PARISH-BLOCK Barber 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, Phe | 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 | | | | 22 | |
| Class C + 2% CaCl2 + .25pps Celloflake | | 500 | 14.8 | 1.35 | 6.34 | 03:08 | 117 | 73.46 |
| Water | | | 8.34 | | | | 58.2 | |
| Available Mix Water <u>1000</u> Bbl. | | Available Displ. Fluid <u>900</u> Bbl. | | TOTAL | | | 197.2 | 73.46 |

| HOLE | | | TBG-CSG-D.P. | | | | | | | COLLAR DEPTHS | | |
|-------|----------|-------|--------------|-------|------|------|-----|-----|-------|---------------|-------|-------|
| SIZE | % EXCESS | DEPTH | ID | OD | WGT. | TYPE | MD | TVD | GRADE | SHOE | FLOAT | STAGE |
| 12.25 | | 809 | 8.921 | 9.625 | 36 | CSG | 799 | 799 | 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 | WATER BASED MU | 8.5 |

| 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 | MIX WATER |
| 0 | BBLS | Water | 8.34 | 262 | | | | | 2816 | 2000 | Frac Tanks |

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: Arrive on location @ 2330, 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 3261 PSI | | | | | |
| | | | | | | CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/> | | | | | |
| 23:30 | | | | | | Arrive on location | | | | | |
| 06:28 | 3261 | | | | WATER | test pumps & lines | | | | | |
| 06:30 | 196 | | 4 | | WATER | open well/start water ahead | | | | | |
| 06:35 | 151 | | 4 | 22 | WATER | end water spacer/start slurry @ 14.8ppg | | | | | |
| 07:15 | 80 | | 2 | 116 | SLURRY | bbls pumped when cement to surface | | | | | |
| 07:16 | 72 | | 2 | 117 | SLURRY | end slurry/ shutdown | | | | | |
| 07:19 | 209 | | 4 | | WATER | drop TRP/start displacement | | | | | |
| 07:31 | 291 | | 3 | 50 | WATER | bbls pumped slow rate to bump | | | | | |
| 07:33 | 974 | | 3 | 58.2 | WATER | bump plug/ shutdown/ begin casing test | | | | | |
| 07:45 | 0 | | | -.25 | | end casing test/check float/ holding/ .25bbls back | | | | | |
| | | | | | | 58 bbls cement return to surface | | | | | |
| | | | | | | Thanks for using BHI Pressure Pumping | | | | | |
| | | | | | | Jonathan Schulz & Crew | | | | | |

| BUMPED PLUG | PSI TO BUMP PLUG | TEST FLOAT EQUIP. | BBL.CMT RETURNS/ REVERSED | TOTAL BBL. PUMPED | PSI LEFT ON CSG | SPOT TOP OUT CEMENT | SERVICE SUPERVISOR SIGNATURE: |
|--|------------------|--|---------------------------|-------------------|-----------------|--|-------------------------------|
| <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | 974 | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | 58 | 197.2 | 0 | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | |