

CEMENT JOB REPORT



| | | | |
|--|---------------------------|-------------------|--------------------------------------|
| CUSTOMER SHELL WESTERN E & P INC | DATE 10-NOV-12 | F.R. # 1001945243 | SERV. SUPV. Chad Mathis |
| LEASE & WELL NAME CHAIN LAND 3509 #2-1 - API 15077218730000 | LOCATION 2-35S-9W | | COUNTY-PARISH-BLOCK Harper Kansas |
| DISTRICT McAlester | DRILLING CONTRACTOR RIG # | | TYPE OF JOB Intermediate |

| SIZE & TYPE OF PLUGS | LIST-CSG-HARDWARE | MECHANICAL BARRIERS | MD | TVD | HANGER TYPES | MD | TVD |
|-----------------------------------|---------------------------|---------------------|----|-----|--------------|----|-----|
| Cement Plug, Rubber, Top 4-1/2 in | Shoe 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 |
| SealBond Spacer 25(w/45lb bag) | | | 8.45 | | | | 80 |
| H50:50 Poz (Fly Ash)+ 0.01%Static Free + 3% Salt + | | 385 | 14.3 | 1.26 | 5.3 | 02:30 | 86.64 48.72 |
| Water | | | 8.34 | | | | 84 |
| Available Mix Water 1000 Bbl. | | Available Displ. Fluid 1000 Bbl. | | TOTAL | | | 250.64 48.72 |

| HOLE | | | TBG-CSG-D.P. | | | | | | | COLLAR DEPTHS | | |
|-------|----------|-------|--------------|-----|------|------|------|------|-------|---------------|-------|-------|
| SIZE | % EXCESS | DEPTH | ID | OD | WGT. | TYPE | MD | TVD | GRADE | SHOE | FLOAT | STAGE |
| 7.875 | | 5446 | | 4.5 | 11.6 | CSG | 5444 | 5436 | N-80 | 44.44 | 4.44 | |

| 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. |
| 8.9 | 9.625 | 36 | | 500 | 500 | | | 4600 | 4600 | 4.5 | 8 RD | OIL BASED MUD | 9.5 |

| 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 | WATER |
| 83.9 | BBLs | Water | 8.34 | 700 | | | | | 6000 | | Frac Tank |

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:

| 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 | 4500 PSI |
| | | | | | | CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/> | |
| 18:30 | | | | | | Arrive on Location, wait on casing | |
| 20:00 | | | | | | Safety Meeting | |
| 20:39 | 4700 | | | | | Test Lines to 4500 PSI | |
| 20:43 | 360 | | 3 | | CMT SLUF | Start Slurry @ 14.3 | |
| 21:23 | 119 | | 3 | 86 | CMT SLUF | Finish Slurry, Cmt at shoe | |
| 21:24 | 0 | | | | | Drop Plug, Start Displ. | |
| 21:42 | 77 | | 3 | 56 | WATER | Caught Cement | |
| 21:53 | 760 | | 3 | 28 | WATER | Finish Displacement, Did Not Bump Plug | |
| 21:58 | | | | | | Check Floats, Floats Held, 1/4 Bbl Back | |

| 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: |
|--|------------------|--|---------------------------|-------------------|-----------------|--|-------------------------------|
| Y <input type="checkbox"/> N <input checked="" type="checkbox"/> | | Y <input type="checkbox"/> N <input checked="" type="checkbox"/> | | 250.26 | 0 | Y <input type="checkbox"/> N <input checked="" type="checkbox"/> | |

HOC - 2110.83' TOC 3325.17'