

CEMENT JOB REPORT



| | | | | | | | | | | | | | | |
|--|-----------------|--------------------------|--|--|----------------------------|---|-----------------------|---|----------------------|---|-------------------|----------------------|-------------|-------------|
| CUSTOMER SHELL WESTERN E & P INC | | | DATE 21-OCT-12 | | F.R. # 1001937658 | | | SERV. SUPV. MICHAEL A SILVA | | | | | | |
| LEASE & WELL NAME HARRIS FARMS 3407 #8-1H - API 15077218460000 | | | LOCATION 8-34S-7W | | | COUNTY-PARISH-BLOCK Harper Kansas | | | | | | | | |
| DISTRICT McAlester | | | DRILLING CONTRACTOR RIG # | | | TYPE OF JOB Liner | | | | | | | | |
| SIZE & TYPE OF PLUGS | | LIST-CSG-HARDWARE | | | MECHANICAL BARRIERS | | MD | TVD | HANGER TYPES | | MD | TVD | | |
| | | Float Shoe 4-1/2 - 8rd | | | | | | | | | | | | |
| MATERIALS FURNISHED BY BJ | | | LAB REPORT NO. | | | PHYSICAL SLURRY PROPERTIES | | | | | | | | |
| | | | | | | SACKS OF CEMENT | SLURRY WGT PPG | SLURRY YLD FT³ | WATER GPS | PUMP TIME HR:MIN | Bbl SLURRY | Bbl MIX WATER | | |
| SealBond Spacer | | | | | | | 8.45 | | | | 40 | | | |
| 50)50 POZ(H)+.01% STATIC FREE+3%SODIUM CHL | | | | | | 375 | 14.3 | 1.24 | 5.54 | 03:30 | 83 | 49.39 | | |
| .1% R-3+.5% FL-62+.6%SODIUM METASILICATE+.5% | | | | | | 0 | 14.3 | 0 | 0 | 00:00 | 0 | | | |
| WATER | | | | | | | 8.34 | | | | 116 | | | |
| WATER(REVERSE OUT) | | | | | | | 8.34 | | | | 200 | | | |
| Available Mix Water 500 Bbl. | | | Available Displ. Fluid 500 Bbl. | | | TOTAL | | | | | 439 | 49.39 | | |
| HOLE | | | TBG-CSG-D.P. | | | | | | COLLAR DEPTHS | | | | | |
| SIZE | % EXCESS | DEPTH | ID | OD | WGT. | TYPE | MD | TVD | GRADE | SHOE | FLOAT | STAGE | | |
| 6.125 | 0 | 9152 | 3.24 | 4 | 14.69 | DP | 4459 | 4459 | P-110 | 9139 | 9050 | | | |
| | | | 1 | 4.5 | 11.6 | LNR | 4459 | 9050 | P-110 | | | | | |
| 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. |
| 6.4 | 7 | 23 | | 5387 | 4700 | | | | | | 4.5 | IF | WATER BASED | 9 |
| 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 | | | | |
| 116 | BBLS | WATER | 8.34 | 800 | | | | | | 6000 | RIG | | | |
| | | WATER(REVERSE O | 8.34 | | | | | | | | | | | |
| Circulation Prior to Job | | | | | | | | | | | | | | |
| Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/> | | | | Circulation Time: | | | | Circulation Rate: 8 BPM | | | | | | |
| Mud Density In: 9 LBS/GAL | | | | Mud Density Out: 9 LBS/GAL | | | | PV & YP Mud In: | | PV & YP Mud Out: | | | | |
| Gas Present: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> | | | | Units: | | | | Solids Present at End of Circulation: | | NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> | | | | |
| Displacement And Mud Removal | | | | | | | | | | | | | | |
| Displaced By: Rig <input type="checkbox"/> BJ <input checked="" type="checkbox"/> | | | | Amount Bled Back After Job: 1.5 BBLS | | | | | | | | | | |
| Returns During Job: <input type="checkbox"/> NONE <input type="checkbox"/> PARTIAL <input checked="" type="checkbox"/> FULL | | | | Method Used to Verify Returns: SIGHT | | | | | | | | | | |
| Cement Returns at Surface: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | | | | Were Returns Planned at Surface: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES | | | | | | | | | | |
| Pipe Movement: <input type="checkbox"/> ROTATION <input type="checkbox"/> RECIPROICATION <input type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE | | | | | | | | | | | | | | |
| Centralizers: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES | | | | Quantity: | | | | Type: <input type="checkbox"/> BOW <input type="checkbox"/> RIGID | | | | | | |
| Job Pumped Through: <input type="checkbox"/> CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input type="checkbox"/> MANIFOLD <input type="checkbox"/> NO MANIFOLD | | | | | | | | | | | | | | |
| Plugs | | | | | | | | | | | | | | |
| Number of Attempts by BJ: | | | | Competition: | | | | Wiper Balls Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES | | | | | Quantity: | |
| Plug Catcher Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES | | | | Parabow Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES | | | | | | | | | | |
| Was There a Bottom: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES | | | | Top of Plug: FT | | | | Bottom of Plug: FT | | | | | | |
| Squeezes (Update Original Treatment Report for Primary Job) | | | | | | | | | | | | | | |
| BLOCK SQUEEZE <input type="checkbox"/> SHOE SQUEEZE <input type="checkbox"/> TOP OF LINER SQUEEZE <input type="checkbox"/> PLANNED <input type="checkbox"/> UNPLANNED <input type="checkbox"/> | | | | | | | | | | | | | | |
| Liner Packer: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES | | | | Bond Log: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES | | | | PSI Applied: Fluid Weight: LBS/GAL | | | | | | |
| Casing Test (Update Original Treatment Report for Primary Job) | | | | | | | | | | | | | | |
| Casing Test Pressure: PSI | | | | With LBS/GAL Mud | | | | Time Held: Hours Minutes | | | | | | |
| EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: | | | | | | | | | | | | | | |

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Shoe Test (Update Original Treatment Report for Primary Job)

| | | |
|----------------------------------|---|---------------------|
| Depth Drilled out of Shoe: FT | Target EMW: LBS/GAL | Actual EMW: LBS/GAL |
| Number of Times Tests Conducted: | Mud Weight When Test was Conducted: LBS/GAL | |

Problems Before Job (I.E. Running Casing, Circulating Well, ETC)

Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)

Problems After Job (I.E. Gas at Surface, Float Equipment Failed, ETC)

| 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 | 700 PSI |
| | | | | | | CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/> | |
| 15:30 | | | | | | ARRIVE ON LOCATION SSC FLANAGAN | |
| 02:30 | | | | | | SAFTY MEETING 10/21/12 | |
| 03:00 | 7000 | | | | H2O | TEST LINES | |
| 03:06 | 300 | | 2 | 0 | H2O | START SPACER | |
| 03:30 | 680 | | 4 | 40 | CEMENT | START CEMENT | |
| 03:49 | 340 | | 4 | 76 | CEMENT | SPACER @ SHOE | |
| 03:55 | 300 | | 4 | 7 | CEMENT | FINISH CEMENT | |
| 03:55 | | | 3 | | H2O | WASH PUMPS AND LINES | |
| 04:00 | 138 | | 5.5 | 0 | H2O | DROP PLUG/DISPLACE | |
| 04:08 | 66 | | 2.8 | 33 | H2O | CEMENT AT SHOE/SLOW RATE | |
| 04:11 | 550 | | 2.8 | 8 | H2O | PLUG SHEER | |
| 04:36 | 800 | | 2.8 | 10 | H2O | BUMP PLUG | |
| 04:41 | 3800 | | 2.8 | | H2O | PRESSURE UP TO 3000/CHECK FLOATS | |
| 04:53 | 4500 | | 2.8 | | H2O | PRESURE UP THE BACK SIDE TO 4500 FOR 30 MIN. | |
| 06:20 | 300 | | 3 | 200 | H2O | REVERSE OUT | |

| | | | | | | | |
|--|------------------|--|---------------------------|-------------------|-----------------|--|-------------------------------|
| 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 | 1500 | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | 0 | 439 | 0 | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | |