

CEMENT JOB REPORT



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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------|-------------------|----------------------------------|------------------------------------|-------------|
| CUSTOMER BAYSWATER EXPLORATION & | | | DATE 29-JUL-15 | | F.R. # 10011167614 | | | SERV. SUPV. Anthony J Staples | | | | | | |
| LEASE & WELL NAME CARLSON #E-15-16HC - API 05123417130000 | | | LOCATION 15-5N-65W | | | COUNTY-PARISH-BLOCK Weld Colorado | | | | | | | | |
| DISTRICT Brighton | | | 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 7 in | | Float Shoe 7 - 8rd | | | | | | | | | | | | |
| | | Float Collar, Auto Fill, 7 - 8rd | | | | | | | | | | | | |
| | | Centralizer, with Pins, 7 in | | | | | | | | | | | | |
| 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 | | |
| FRESH WATER | | | | | | 0 | 8.34 | 0 | 0 | | 20 | | | |
| MUD CLEAN I | | | | | | 0 | 8.5 | 0 | 0 | | 20 | | | |
| FRESH WATER | | | | | | 0 | 8.34 | 0 | 0 | | 20 | | | |
| PLHS + ADDITIVES | | | | C07-067-15 | | 450 | 12 | 2.42 | 13.59 | 04:29 | 193.95 | 145.78 | | |
| 50:50 Class G/Poz + Adds | | | | C07-067-15 | | 235 | 14.4 | 1.22 | 5.36 | 03:05 | 51.06 | 29.94 | | |
| Fresh Water | | | | | | 0 | 8.34 | 0 | 0 | | 272.2 | | | |
| Available Mix Water 300 Bbl. | | | | Available Displ. Fluid 300 Bbl. | | | | TOTAL | | 577.21 | | 175.72 | | |
| HOLE | | | TBG-CSG-D.P. | | | | | | COLLAR DEPTHS | | | | | |
| SIZE | % EXCESS | DEPTH | ID | OD | WGT. | TYPE | MD | TVD | GRADE | SHOE | FLOAT | STAGE | | |
| 8.75 | 25 | 7376 | 6.276 | 7 | 26 | CSG | 7376 | 6963 | | 7376 | 7327 | 1 | | |
| 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 | 9.63 | 36 | CSG | 839 | 839 | No Packer | | 0 | 0 | 0 | 7 | BUTT | WATER BASED | 10.3 |
| 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 | | | |
| 272.2 | BBLS | Fresh Water | | 8.34 | 1499 | 0 | 0 | 0 | 0 | 7968 | 3000 | Frac Tank | | |
| Circulation Prior to Job | | | | | | | | | | | | | | |
| Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/> | | | | Circulation Time: 1.5 | | | | Circulation Rate: 6.8 BPM | | | | | | |
| Mud Density In: 10.3 LBS/G | | | | Mud Density Out: 10.3 LBS/GAL | | | | PV & YP Mud In: 12 | | PV & YP Mud Out: 12 | | | | |
| 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: 2 BBLS | | | | | | | | | | |
| Returns During Job: <input type="checkbox"/> NONE <input type="checkbox"/> PARTIAL <input checked="" type="checkbox"/> FULL | | | | Method Used to Verify Returns: Visual | | | | | | | | | | |
| Cement Returns at Surface: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | | | Were Returns Planned at Surface: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES | | | | | | | | | | |
| Pipe Movement: <input type="checkbox"/> ROTATION <input type="checkbox"/> RECIPROICATION <input checked="" type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE | | | | | | | | | | | | | | |
| Centralizers: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES | | | | Quantity: 77 | | | | Type: <input type="checkbox"/> BOW <input type="checkbox"/> RIGID | | | | | | |
| Job Pumped Through: <input type="checkbox"/> CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input checked="" type="checkbox"/> MANIFOLD <input type="checkbox"/> NO MANIFOLD | | | | | | | | | | | | | | |
| Plugs | | | | | | | | | | | | | | |
| Number of Attempts by BJ: 0 | | | | Competition: 0 | | | | 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: 0 FT | | | | Bottom of Plug: 0 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: 0 | | Fluid Weight: 0 LBS/GAL | | | | |
| Casing Test (Update Original Treatment Report for Primary Job) | | | | | | | | | | | | | | |
| Casing Test Pressure: 0 PSI | | | | With 0 LBS/GAL Mud | | | | Time Held: 00 Hours 00 Minutes | | | | | | |

CEMENT JOB REPORT



Shoe Test (Update Original Treatment Report for Primary Job)

| | | |
|------------------------------------|-----------------------------------------------|-----------------------|
| Depth Drilled out of Shoe: 0 FT | Target EMW: 0 LBS/GAL | Actual EMW: 0 LBS/GAL |
| Number of Times Tests Conducted: 0 | Mud Weight When Test was Conducted: 0 LBS/GAL | |

Problems Before Job (I.E. Running Casing, Circulating Well, ETC)
None

Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)
None

Problems After Job (I.E. Gas at Surface, Float Equipment Failed, ETC)
None

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: None

| 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 5495 PSI | |
| | | | | | | CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/> | |
| 19:05 | 0 | 0 | 0 | 0 | N/A | Leave Yard | |
| 19:53 | 0 | 0 | 0 | 0 | N/A | Arrive On Location...33 Miles Rig Running Casing | |
| 00:30 | 0 | 0 | 0 | 0 | N/A | Spot Equipment | |
| 00:40 | 0 | 0 | 0 | 0 | N/A | Pre-Rig Up Safety Meeting | |
| 05:11 | 0 | 0 | 0 | 0 | N/A | Pre-Job Safety Meeting | |
| 05:34 | 235 | 0 | 1.5 | 2 | H2O | Load Lines | |
| 05:39 | 5495 | 0 | 0 | 0 | H2O | Pressure Test | |
| 05:45 | 458 | 0 | 5.1 | 20 | SPC | Fresh Water | |
| 05:50 | 505 | 0 | 5.1 | 20 | SPC | Mud Clean I | |
| 05:55 | 512 | 0 | 5.1 | 20 | SPC | Fresh Water | |
| 06:03 | 480 | 0 | 5.1 | 182 | CMT | Batch, Weigh, and Pump 450sk, 12# PLC + .05% R-3 + .2% FL-63 + .25 lbs/sk Cello Flake + .7% FL-52 + .2% ASA-301 + .15% SMS | |
| 06:55 | 240 | 0 | 5.1 | 51 | CMT | Batch, and Pump 235sk 14.4# 50:50:Poz (Fly Ash): Class G + .2% FL-63 + .3% CD-32 + .6% FL-52 + .3% SMS + 2% Bentonite II | |
| 07:13 | 0 | 0 | 0 | 0 | H2O | Shut Down/ Wash Up Mixing Tub | |
| 07:19 | 0 | 0 | 0 | 0 | H2O | Release Plug | |
| 07:19 | 1837 | 0 | 6.3 | 230 | H2O | Displace | |
| 08:01 | 1850 | 0 | 2.5 | 37 | H2O | Rate Change | |
| 08:16 | 2292 | 0 | 0 | 0 | H2O | Bump Plug @ 267 Bbls away, 19 Bbls of CMT to Surface | |
| 08:18 | 0 | 0 | 0 | 0 | H2O | Checked Floats, 2 Bbls Back | |
| 08:23 | 0 | 0 | 0 | 0 | N/A | Pre-Rig Down Safety Meeting | |

| | | | | | | | |
|------------------------------------------------------------------|------------------------|------------------------------------------------------------------|---------------------------------|-------------------------|-----------------------|------------------------------|-------------------------------|
| 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 type="checkbox"/> Y <input checked="" type="checkbox"/> N | 2292 | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N | 19 | 562 | 0 | Y <input type="checkbox"/> N | |

