# CEMENT JOB REPORT

BAKER HUGHES

| | | | |
|---|---|---|---|
| CUSTOMER ANADARKO PETROLEUM COI | DATE 06-MAR-13 | F.R. # 1001970421 | SERV. SUPV. CALEB C KINGSLEY |
| LEASE & WELL NAME DOVE #6N-13HZ - API 05123358990000 | LOCATION 12-2N-66W | | COUNTY-PARISH-BLOCK Weld Colorado |
| DISTRICT Brighton | DRILLING CONTRACTOR RIG # MAJORS 42 | | 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, Ph | Cement Basket, Slip On, 9-5/8 in | NONE | 0 | 0 | NONE | 0 | 0 |
| NONE | Centralizer, with Pins, 9-5/8 in | NONE | 0 | 0 | NONE | 0 | 0 |
| | Float Collar, Dif Fill, 9-5/8 - 8rd | NONE | 0 | 0 | NONE | 0 | 0 |
| | Guide Shoe, Cement Nose, 9-5/8 i | | | | | | |

| MATERIALS FURNISHED BY BJ | LAB REPORT NO. | SACKS OF CEMENT | SLURRY WGT PPG | SLURRY YLD FT3 | WATER GPS | PUMP TIME HR:MIN | Bbl SLURRY | Bbl MIX WATER |
|---|---|---|---|---|---|---|---|---|
| Fresh Water | 0 | 0 | 8.34 | 0 | 0 | 00:00 | 74.7 | |
| TypeIII+2.5%CaCl2+.25lbs/skCF | 0 | 415 | 14.8 | 1.35 | 6.34 | 01:50 | 99.7 | 62.56 |
| Fresh Water + Dye | 0 | 0 | 8.34 | 0 | 0 | 00:00 | 10 | |
| Fresh Water | 0 | 0 | 8.34 | 0 | 0 | 00:00 | 20 | |
| | | | | | | TOTAL | 204.4 | 62.56 |

Available Mix Water 100 Bbl. Available Displ. Fluid 100 Bbl.

| HOLE SIZE | % EXCESS | DEPTH | TBG-CSG-D.P. ID | OD | WGT. | TYPE | MD | TVD | GRADE | COLLAR DEPTHS SHOE | FLOAT | STAGE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13.5 | 0 | 1020 | 8.921 | 9.625 | 36 | CSG | 1004 | 1004 | J-55 | 967 | 930 | 0 |

| LAST CASING ID | OD | WGT | TYPE | MD | TVD | PKR-CMT RET-BR PL-LINER BRAND & TYPE | DEPTH | PERF. DEPTH TOP | BTM | TOP CONN SIZE | THREAD | WELL FLUID TYPE | WGT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | NO PACKER OR CEMENT R | 0 | | | 9.625 | 8RND | WATER BASED | 9.7 |

| DISPL. VOLUME VOLUME | UOM | DISPL. FLUID TYPE | WGT. | CAL. PSI BUMP PLUG | CAL. MAX PSI TO REV. | OP. MAX SQ. PSI | MAX TBG PSI RATED | Operator | MAX CSG PSI RATED | Operator | MIX WATER |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 74.7 | BBLS | Fresh Water | 8.34 | 321 | 0 | 0 | 0 | 0 | 3520 | 2816 | FRAC TANK |

## Circulation Prior to Job

Circulated Well: Rig [X] BJ [ ]
Circulation Time: 1 Circulation Rate: 6 BPM
Mud Density In: 9.7 LBS/GAL Mud Density Out: 9.7 LBS/GAL
PV & YP Mud In: 9 PV & YP Mud Out: 9
Gas Present: NO [X] YES [ ] Units:
Solids Present at End of Circulation: NO [X] YES [ ]

## Displacement And Mud Removal

Displaced By: Rig [ ] BJ [X]
Amount Bled Back After Job: .5 BBLS
Returns During Job: [ ] NONE [ ] PARTIAL [X] FULL
Method Used to Verify Returns: VISUAL
Cement Returns at Surface: [X] YES [ ] NO
Were Returns Planned at Surface: [ ] NO [X] YES
Pipe Movement: [ ] ROTATION [ ] RECIPROCATION [X] NONE [ ] UNABLE DUE TO STUCK PIPE
Centralizers: [ ] NO [X] YES Quantity: 7 Type: [X] BOW [ ] RIGID
Job Pumped Through: [ ] CHOKE MANIFOLD [ ] SQUEEZE MANIFOLD [X] MANIFOLD [ ] NO MANIFOLD

## Plugs

Number of Attempts by BJ: 0 Competition:
Wiper Balls Used: [X] NO [ ] YES Quantity:
Plug Catcher Used: [X] NO [ ] YES
Parabow Used: [X] NO [ ] YES
Was There a Bottom: [X] NO [ ] YES
Top of Plug: 0 FT Bottom of Plug: 0 FT

## Squeezes (Update Original Treatment Report for Primary Job)

BLOCK SQUEEZE [ ] SHOE SQUEEZE [ ] TOP OF LINER SQUEEZE [ ] PLANNED [ ] UNPLANNED [ ]
Liner Packer: [X] NO [ ] YES Bond Log: [X] NO [ ] 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

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

# Load Sheet

BAKER HUGHES

DISTRICT Brighton
WELL NAME DOVE #6N-13HZ
DISPATCH SHEET NO.
CUSTOMER ANADARKO PETROLEUM CORP - XML
JOB DATE MAR-06-2013
BRANCH BULK PLANT BJS, BRIGHTON
FIELD RECEIPT NO 1001970421
FIELD RECEIPT DATE MAR-06-2013

| PRODUCT DESCRIPTION | ITEM NO. | UOM | QUANTITY ORDERED | QUANTITY LOADED/ BLENDED | QUANTITY RETURNED | NET USAGE | VERIFIED TO FIELD RECEIPT |
|---|---|---|---|---|---|---|---|
| Calcium Chloride | 100112 | lbs | 1,009 | 1,663 | 0 | 1,663 | |
| Cello Flake | 100295 | lbs | 108 | 145 | 0 | 145 | |
| Sodium Chloride | 100404 | lbs | 0 | 100 | 0 | 100 | |
| FP-6L | 488019 | gals | 0 | 4 | 0 | 4 | |
| Granulated Sugar | 499632 | lbs | 0 | 50 | 0 | 50 | |
| Static Free | 499680 | lbs | 35 | 47 | 0 | 47 | |
| Type III Cement | 499703 | sacks | 429 | 580 | 0 | 580 | |

COMMENTS:

ISSUED BY RICKY D SPILLERS DATE MAR-06-2013

RECEIVED TO LOCATION CALEB C KINGSLEY C. Kingsley DATE MAR-06-2013
SERVICE SUPERVISOR

RETURNS VERIFIED BY DATE

APPROVAL SCOTT D SMITH
OPERATIONS SUPERVISOR

CUSTOMER SIGNATURE

FIELD RECEIPT NO. **1001970421**

BAKER HUGHES

| CUSTOMER | CREDIT APPROVAL NO. | PURCHASE ORDER NO. | CUSTOMER NUMBER | INVOICE NUMBER |
|---|---|---|---|---|
| ANADARKO PETROLEUM CORP - XML | | | 20002800 - 00169821 | |

| MAIL INVOICE TO | STREET OR BOX NUMBER | CITY | STATE | ZIP CODE |
|---|---|---|---|---|
| | PO BOX 1330 | Houston | Texas | 77251-1330 |

| DATE WORK COMPLETED | MO. | DAY | YEAR | BHI REPRESENTATIVE | WELL API NO: | WELL TYPE : |
|---|---|---|---|---|---|---|
| | 03 | 06 | 2013 | CALEB C KINGSLEY | 05123358990000 | New Well |

| DISTRICT | JOB DEPTH(ft) | WELL CLASS : |
|---|---|---|
| BJS, BRIGHTON | 1,004 | Gas |

| WELL NAME AND NUMBER | TD WELL DEPTH(ft) | GAS USED ON JOB : |
|---|---|---|
| DOVE #6N-13HZ | 1,020 | No Gas |

| WELL LOCATION : | LEGAL DESCRIPTION | COUNTY/PARISH | STATE | JOB TYPE CODE : |
|---|---|---|---|---|
| | 12-2N-66W | Weld | Colorado | Surface |

| PRODUCT CODE | DESCRIPTION | UNIT OF MEASURE | QUANTITY | LIST PRICE UNIT | GROSS AMOUNT | % DISC. | NET AMOUNT |
|---|---|---|---|---|---|---|---|
| F055A | Cement Pumping, 1001 - 2000 ft | 4hrs | 1 | 4,050.000 | 4,050.00 | 58% | 1,701.00 |
| F090 | Fuel per pump charge - cement | pump/hr | 4 | 61.000 | 244.00 | 0% | 244.00 |
| J050 | Cement Head | job | 1 | 635.000 | 635.00 | 58% | 266.70 |
| J225 | Data Acquisition, Cement, Standard | job | 1 | 1,635.000 | 1,635.00 | 58% | 686.70 |
| J390 | Mileage, Heavy Vehicle | miles | 36 | 9.100 | 327.60 | 58% | 137.59 |
| J391 | Mileage, Auto, Pick-Up or Treating Van | miles | 36 | 5.150 | 185.40 | 58% | 77.87 |
| | SUB-TOTAL FOR Equipment | | | | 7,077.00 | 56.00% | 3,113.86 |
| J401 | Bulk Delivery, Dry Products | ton-mi | 365 | 3.030 | 1,105.95 | 58% | 464.50 |
| | SUB-TOTAL FOR Freight/Delivery Charges | | | | 1,105.95 | 58.00% | 464.50 |
| | FIELD ESTIMATE | | | | 27,684.80 | 60.54% | 10,924.57 |

| ARRIVE LOCATION : | MO. | DAY | YEAR | TIME |
|---|---|---|---|---|
| | 03 | 06 | 2013 | 16:49 |

CUSTOMER REP.
RANDY CASE

**SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS**

**SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH THE TERMS AND CONDITIONS PRINTED ON THE LAST PAGE OF THIS FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER.**

CUSTOMER AUTHORIZED AGENT

**SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER.**

CUSTOMER AUTHORIZED AGENT
X

BHI APPROVED
X

FIELD RECEIPT NO. **1001970421**

BAKER HUGHES

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|---|---|---|---|---|
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|---|---|---|---|---|
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|---|---|---|---|---|---|---|---|
| 100112 | Calcium Chloride | lbs | 1363 | 1.220 | 1,662.86 | 58% | 698.40 |
| 100112 | Calcium Chloride | lbs | 300 | 1.220 | 366.00 | 100% | 0.00 |
| 100295 | Cello Flake | lbs | 145 | 4.850 | 703.25 | 58% | 295.37 |
| 100404 | Sodium Chloride | lbs | 100 | 0.490 | 49.00 | 100% | 0.00 |
| 488019 | FP-6L | gals | 4 | 99.250 | 397.00 | 58% | 166.74 |
| 499632 | Granulated Sugar | lbs | 50 | 3.490 | 174.50 | 58% | 73.29 |
| 499680 | Static Free | lbs | 47 | 38.700 | 1,818.90 | 100% | 0.00 |
| 499703 | Type III Cement | sacks | 415 | 29.600 | 12,284.00 | 58% | 5,159.28 |
| | SUB-TOTAL FOR Product Material | | | | 17,455.51 | 63.38% | 6,393.08 |
| A152 | Personnel Per Diem Chrg - Cement Svc | ea | 1 | 161.500 | 161.50 | 0% | 161.50 |
| M100 | Bulk Materials Blending Charge | cu ft | 452 | 4.170 | 1,884.84 | 58% | 791.63 |
| | SUB-TOTAL FOR Service Charges | | | | 2,046.34 | 53.42% | 953.13 |

| ARRIVE LOCATION : | MO. | DAY | YEAR | TIME |
|---|---|---|---|---|
| | 03 | 06 | 2013 | 16:49 |

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CUSTOMER AUTHORIZED AGENT
X

BHI APPROVED
X

# CEMENT JOB REPORT

BAKER HUGHES

## 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

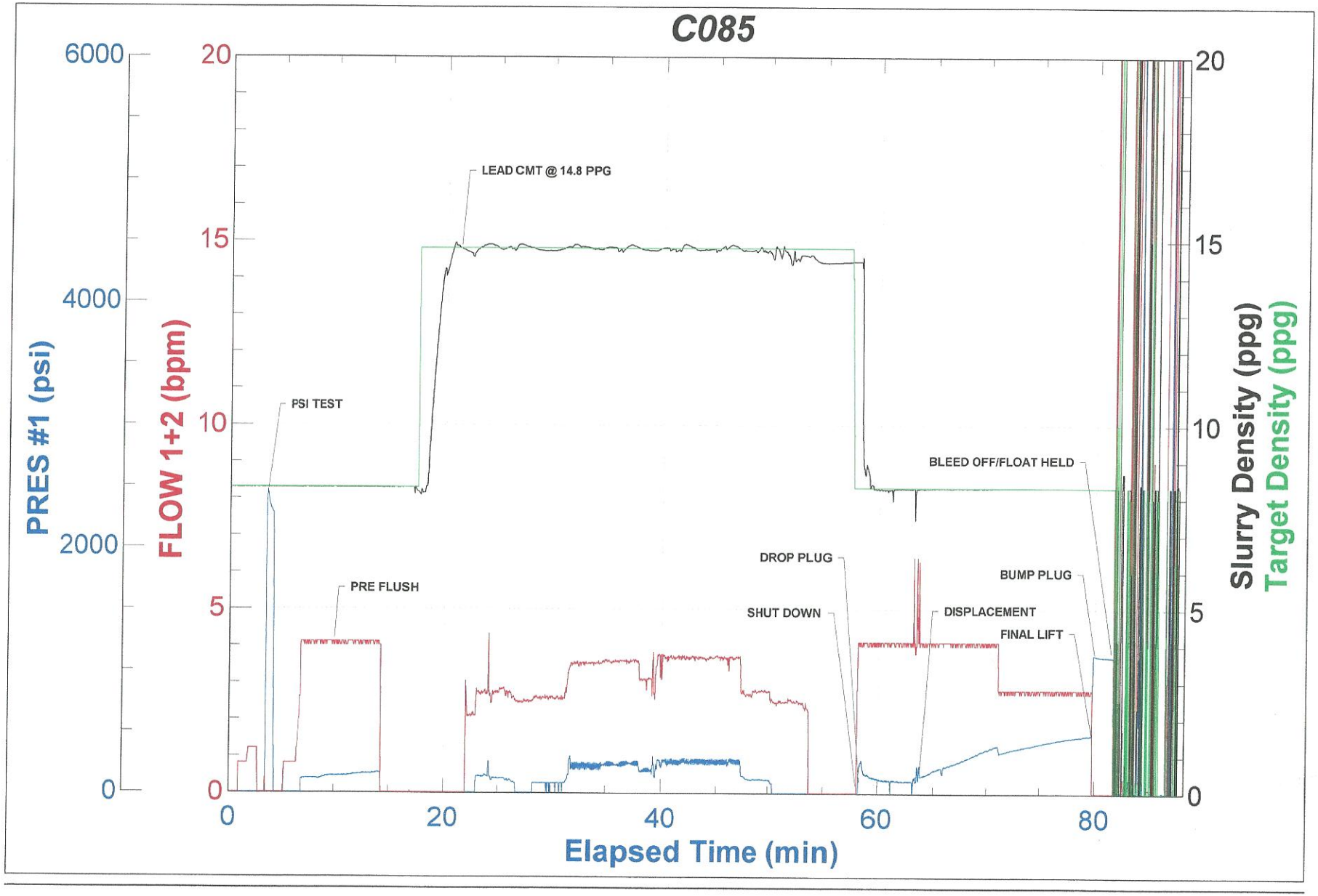
## PRESSURE/RATE DETAIL

| TIME HR:MIN. | PRESSURE - PSI PIPE | PRESSURE - PSI ANNULUS | RATE BPM | Bbl. FLUID PUMPED | FLUID TYPE | EXPLANATION |
|---|---|---|---|---|---|---|
| | | | | | | SAFETY MEETING: BJ CREW [X] CO. REP. [X] |
| | | | | | | TEST LINES 2480 PSI |
| | | | | | | CIRCULATING WELL - RIG [X] BJ [ ] |
| 16:20 | 0 | 0 | 0 | 0 | NA | LEAVE THE DISTRICT |
| 16:50 | 0 | 0 | 0 | 0 | NA | ARRIVE TO LOCATION |
| 17:10 | 0 | 0 | 0 | 0 | NA | SPOT TRUCKS |
| 17:40 | 0 | 0 | 0 | 0 | NA | SAFETY MEETING |
| 18:00 | 2480 | 0 | .4 | .5 | H2O | PRESSURE TEST |
| 18:03 | 142 | 0 | 4 | 20 | H2O | FRESH WATER SPACER |
| 18:08 | 140 | 0 | 4 | 10 | H2O | FRESH WATER SPACER WITH DYE |
| 18:11 | 0 | 0 | 0 | 0 | NA | SHUT DOWN AND PREPARE FOR CMT |
| 18:19 | 243 | 0 | 3.5 | 98 | CMT | BATCH/WEIGH/PUMP LEAD CMT AT 14.8 PPG |
| 18:51 | 0 | 0 | 0 | 0 | NA | SHUT DOWN AND WASH UP |
| 18:53 | 0 | 0 | 0 | 0 | NA | DROP PLUG |
| 18:55 | 107 | 0 | 4 | 50 | H2O | DISPLACEMENT |
| 19:08 | 329 | 0 | 2.8 | 24 | H2O | DROP RATE |
| 19:11 | 384 | 0 | 4 | 0 | H2O | CMT TO SURFACE. A TOTAL OF 18 BBL OF CMT TO SURFACE |
| 19:17 | 501 | 0 | 2.8 | 74 | H2O | FINAL LIFT |
| 19:17 | 1126 | 0 | 2.8 | 0 | H2O | BUMP PLUG |
| 19:20 | 1105 | 0 | 0 | 0 | NA | BLEED OFF PSI AND FLOATS HELD |
| 19:22 | 337 | 0 | 0 | 0 | H2O | SHUT IN WELL WITH 337 PSI |
| 19:23 | 0 | 0 | 0 | 0 | NA | SHUT DOWN |

| 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] N | 501 | [Y] N | 18 | 202.5 | 337 | Y [N] | C Ulrich |

**Baker Hughes JobMaster Program Version 3.60**

*Job Number: 1001970421*
*Customer: KMG*
*Well Name: DOVE 6N-13HZ*



Dove 610-13HZ 03/06/2013

JSA

JOB TASK: CEMENTING SURFACE CASING

OBJECTIVE: RIG UP CEMENTERS CEMENT HEAD, HOOK UP CEMENT HOSES, PRESSURE TEST LINES, CEMENT CASING, SHUT DOWN, DROP PLUG, DISPLACE CEMENT AND LAND PLUG, SHUT CASING IN, BREAK CEMENTER EQUIP. DOWN AND WOC.

HAZZARDS: LIFTING HAZZARDS, STRUCK BY, CHEMICAL HAZZARDS, HIGH PRESSURE LINES, PINCH PIONTS, SLIPS AND TRIPS, OVERHEAD HAZZARDS, POTENTIAL GAS HAZZARDS.

PERVENTIONS: SAFETY MEETING PRIOR TO STARTING JOB, HAND AND FOOT PLACEMENT, USING 5 PIONT HARNESS OVER 4' HIGH, TEAM LIFTING OR USE WINCH LINE TO LIFT HEAVY OBJECTS, MSDS SHEETS, WEARING PROPER PPE, DUE NOT HAMMER ON ANYTHING WITH PRESSURE, GOOD COMMUNCATION BETWEEN ALL PARTIES ON LOCATION, IF YOU GET CEMENT ON YOU WASH IT OFF IMEADETLY AND CONTACT CONSULTANT OF ANY INCEDENTS THAT OCCERED. WHIP CHECKS ON AND SECURED, PROPER TOOL FOR THE JOB, GAS MONITER, IF ANY THING SHOULD HAPPEN MEET AT ENTRENCE OF LOCATION, IF GAS MONITOR GOES OFF GO UP WIND AND UPHILL OF LOCATION. WHEN PRESSURE TESTING LINES AND CEMENTING WELL STAY OFF OF FLOOR AND AWAY FROM MANIFOLD. FOR ANY REASON YOU NEED TO CROSS OVER CEMENT LINES STEP ON THE LINE NOT OVER LINES. IN CASE OF EMERGENCY # ARE POSTED ON DOG HOUSE WALL AND IN COMPANY HAND SHACK AND GPS CORDINATES ARE AVALIBILY ON DESK IN COMPANY HAND SHACK FOR FLIGHT FOR LIFE.

HAVE A SAFE JOB

Randy Case TONY CANALES

Tony Romero

Joel Ramirez

Dave Poff

C Unwin

BHI

Nick Nardello

Keith W Grissom

Gilbert Rojas

TIMBERLINE
OIL TOOLS LLC
Loveland, CO

Dove 6N-13HZ

45 x .4341 cf/ft x 0% excess = 19.5cf/ft
1004.17 x .4887 x 1.10% excess = 539.8cf
= 559.30
415 sks
559.3 ÷ 1.35
415 x 1.35 x .1781 = 99.8bbls

$H^2O$ for Cement Job

Preflush 30bbls
mix 415sks x 6.34 ÷ 42 = 62.6bbls
disp. 967.31' x 3.24 ÷ 42 = 74.6bbls
Cleanup = 30 bbls
Total $H^2O$ = 197.2bbls

DRLG 1014' + 6KB = 1020'
Csg 1004.17 + 6KB = 1010.17
FC 959.31' + 6KB = 965.31'/959.31' + 8' = 967.31

Slurry wt 14.8PPG
Slurry yield 1.35cf³/ft
mix $H^2O$ 6.34gal/sk


Russell 970-215-1200
Vince 720-218-4995
Frank 720-333-7414