



CEMENTING LOG

STAGE NO.

Date 5-26-2012 District ML Ticket No. 33954
 Company Indian Oil Rig USI #5
 Lease Helen Well No. 1
 County Berhen State Ks
 Location Vic Heratner, Ks Field 10-355-12w

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size 3 1/2 Type _____ Weight 5 1/2 Collar _____

Casing Depths: Top KB Bottom 5107'

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size 7 7/8 T.D. 523 ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbbls/Lin. ft. .0238 Lin. ft./Bbl. 42.01
 Open Holes: Bbbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbbls/Lin. ft. .10309 Lin. ft./Bbl. 32.40
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:
 Spacer Type: 3 bbls water, 500 gals mud clean, 3 bbls water
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG _____

LEAD: Pump Time _____ hrs. Type 60' 40' 4% G91
RC+ mouse hole Excess _____
 Amt. 50 Skys Yield 1.40 ft³/sk Density 14.1 PPG _____

TAIL: Pump Time _____ hrs. Type CLASS D nsc + 5#
Kolseer + .2% FH Lot + .2% G91 Excess _____
 Amt. 125 Skys Yield 1.57 ft³/sk Density 14.5 PPG _____
 WATER: Lead 6.7 gals/sk Tail 723 gals/sk Total 30 Bbbls.

Pump Trucks Used 548-545-Brett + Derrin
 Bulk Equip. 364-Bronson

Float Equip: Manufacturer Weatherford
 Shoe: Type Guide Shoe Depth _____
 Float: Type AFV Insert Depth _____
 Centralizers: Quantity _____ Plugs Top 1 Btm. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type 2% KCL water Amt. 120 Bbbls. Weight 8.34 PPG _____
 Mud Type _____ Weight _____ PPG _____

COMPANY REPRESENTATIVE Anthony Ferrer CEMENTER Derrin Franklin

| TIME AM/PM | PRESSURES PSI | | FLUID PUMPED DATA | | | REMARKS |
|---------------|----------------------|---------|-------------------|---------------------------|--------------------|------------------------------------|
| | DRILL PIPE CASING | ANNULUS | TOTAL FLUID | Pumped Per Time Period | RATE Bbbls Min. | |
| | 400 | | | | | Pipe on bottom + break circulation |
| | 400 | | | | 6 | Pump 3 bbls water |
| | 400 | | | | 6 | 500 gals mud clean |
| | 400 | | | | 6 | 3 bbls water |
| | 100 | | | | 3 | mix 30sr for RC+ hole |
| | 100 | | | | 3 | mix 20sr for mouse hole |
| | 400 | | | | 6 | mix 125sr tail cement |
| | | | | | | Shut down |
| | | | | | | Wash pump & lines |
| | | | | | | Release plug |
| | 100 | | | | 7 | Start displacement |
| | 400 | | | 85 | 7 | Line pressure @ 85 bbls |
| | 600 | | | 110 | 3 | Slow rate to 3 bpm @ 110 bbls |
| | 1200 | | | 120 | 3 | Bump plug @ 120 bbls 600-1200 psi |
| | | | | | | Float did not hold |

FINAL DISP. PRESS: 600 PSI BUMP PLUG TO 1200 PSI BLEEDBACK Shut in BBLs. THANK YOU

ALLIED CEMENTING CO., LLC. 037974

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Medicine Lodge, Ks

| | | | | | | | |
|----------------------------------|----------------|-----------------|-----------------------------------|------------|----------------------|--------------------------|---------------------------|
| DATE <u>5-16-2012</u> | SEC. <u>10</u> | TWP. <u>35s</u> | RANGE <u>12W</u> | CALLED OUT | ON LOCATION | JOB START <u>7:00 AM</u> | JOB FINISH <u>7:30 AM</u> |
| LEASE <u>Helen</u> | | WELL # <u>1</u> | LOCATION <u>Herron KS, 2 east</u> | | COUNTY <u>Berber</u> | STATE <u>Ks</u> | |
| OLD OR <u>(NEW)</u> (Circle one) | | | <u>1/8 south west into</u> | | | | |

CONTRACTOR V91 #5 OWNER Inden Oil
 TYPE OF JOB Socface
 HOLE SIZE 17 1/2 T.D. 220'
 CASING SIZE 13 3/8 DEPTH 203'
 TUBING SIZE 8 5/8 L5 DEPTH 14'
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 20'
 PERFS.
 DISPLACEMENT 29 1/2 bbls of fresh water

CEMENT
 AMOUNT ORDERED 215sx Class A
20lb Gel + 390cc

| | | |
|---------------------------|----------------|-----------------|
| COMMON <u>Class A 215</u> | @ <u>16.25</u> | <u>3,493.75</u> |
| POZMIX | @ | |
| GEL <u>4sx</u> | @ <u>21.25</u> | <u>85.00</u> |
| CHLORIDE <u>8sx</u> | @ <u>58.20</u> | <u>465.60</u> |
| ASC | @ | |
| | @ | |
| | @ | |
| | @ | |
| | @ | |
| | @ | |
| | @ | |
| | @ | |
| HANDLING <u>227sx</u> | @ <u>2.25</u> | <u>510.75</u> |
| MILEAGE <u>227/11125</u> | | <u>624.25</u> |
| TOTAL | | <u>5,179.35</u> |

EQUIPMENT

PUMP TRUCK CEMENTER Darin F.
 # 548-545 HELPER Brett, Darin
 BULK TRUCK
 # 381-250 DRIVER Bronson
 BULK TRUCK
 # DRIVER

REMARKS:
Pipe on bottom & break circulation
pump 3 bbls fresh water ches 2
mix 215sx of cement, Displace
29 1/2 bbls of fresh water, shut in
cemens did circulate

CHARGE TO: Inden Oil
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

| | | |
|--|---------------|-----------------|
| DEPTH OF JOB <u>217'</u> | | |
| PUMP TRUCK CHARGE | | <u>1125.00</u> |
| EXTRA FOOTAGE | @ | |
| MILEAGE <u>25</u> | @ <u>7.00</u> | <u>175.00</u> |
| MANIFOLD <u>8 5/8 Swears & Ure</u> | | |
| Light vehicle <u>25</u> | @ <u>4.00</u> | <u>100.00</u> |
| | @ | |
| TOTAL | | <u>1,400.00</u> |

PLUG & FLOAT EQUIPMENT

| | | |
|-------------|---|--|
| | @ | |
| <u>None</u> | @ | |
| | @ | |
| | @ | |
| | @ | |
| TOTAL | | |

To Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME X Randy Smith
 SIGNATURE X Randy Smith
Thank You!!!

SALES TAX (If Any) _____
 TOTAL CHARGES 6579.35
 DISCOUNT _____ IF PAID IN 30 DAYS



CEMENTING LOG

STAGE NO.

Date 5-19-12 District M.L. Ticket No. 32677
 Company Indian Oil Rig Val #5
 Lease Helen Well No. #1
 County Barber State KS
 Location 2 E Hardtner Ks, 1/2 S, W/into Field 10-355-12w

CEMENT DATA:
 Spacer Type: Fresh H2O
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size 95/8 Type _____ Weight 23# Collar _____

LEAD: Pump Time _____ hrs. Type 65:35:6% gel
+ 3% ac + 1/4 fl seal Excess _____
 Amt. 250 Sks Yield 1.98 ft³/sk Density 12.8 PPG
 TAIL: Pump Time _____ hrs. Type Class "A" + 3%
10 + 2% gel Excess _____
 Amt. 250 Sks Yield 1.34 ft³/sk Density 15.2 PPG
 WATER: Lead 10.9 gals/sk Tail 6.51 gals/sk Total 147.81 Bbls.

Casing Depths: Top KB Bottom 822.02

Pump Trucks Used 471-302
 Bulk Equip. 471-252

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size 12 1/4 T.D. 830.02 ft. P.B. to _____ ft.

Floater Equip: Manufacturer Weatherford
 Shoe: Type _____ Depth _____
 Floater Type AFU Insert Depth _____
 Centralizers: Quantity 2 Plugs Top _____ Btm. Rubber
 Stage Collars _____
 Special Equip. 2 Baskets
 Disp. Fluid Type Fresh H2O Amt. _____ Bbls. Weight 2.34 PPG
 Mud Type _____ Weight _____ PPG

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. 0.0637 Lin. ft./Bbl. 15.70
 Open Holes: Bbls/Lin. ft. 0.0735 Lin. ft./Bbl. 13.61
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

COMPANY REPRESENTATIVE _____

CEMENTER Ron Gilley

| TIME AM/PM | PRESSURES PSI | | FLUID PUMPED DATA | | | REMARKS |
|---------------|----------------------|---------|-------------------|---------------------------|-------------------|---|
| | DRILL PIPE CASING | ANNULUS | TOTAL FLUID | Pumped Per Time Period | RATE Bbls Min. | |
| | | | | | | pipe on Bottom Break Circu. |
| 11:45 | 100 | | 3 | < 1min | 4 | pump Fresh H2O Ahead |
| 11:50 | 150 | | 147.81 | 27min | 5.5 | Mix All Cement |
| | | | | | | Stop Release Plug |
| | | | | | 5 | Start Displacement wash up on top plug |
| | | | 47# | | 3 | Slow at 10 Bbls out |
| | | | | | | Bump Plug @ 500' over |
| | | | | | | Cement Did Not Circulate |
| | | | | | | Top Out With 50sx A+3% ac |

FINAL DISP. PRESS: _____ PSI BUMP PLUG TO _____ PSI BLEEDBACK Hold BBLs. THANK YOU