

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

6/24/11

OPERATOR: License # 34269
Name: APACHE CORPORATION
Address 1: 6120 S. YALE
Address 2: SUITE 1500
City: TULSA State: OK Zip: 74136
Contact Person: RHONDA PRILL
Phone: (918) 491.4983
CONTRACTOR: License # 34000
Name: KENAI MID-CONTINENT
Wellsite Geologist: _____
Purchaser: OIL - NCRA GAS - DCP

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Designate Type of Completion:

- New Well
- Re-Entry
- Workover
- Oil
- WSW
- SWD
- SIOW
- Gas
- D&A
- ENHR
- SIGW
- OG
- GSW
- Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic
- Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening
- Re-perf.
- Conv. to ENHR
- Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or 3-22-10 Date Reached TD 3-29-10 Completion Date or 5-4-10
Recompletion Date per oper - KCC-DG Recompletion Date

API No. 15 - 119-21252-00-00
Spot Description: _____
N2_NW_NE Sec. 13 Twp. 34 S. R. 28 East West
330 Feet from North / South Line of Section
1,980 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: MEADE
Lease Name: HAGER Well #: 1-13
Field Name: JOHAN
Producing Formation: CHEROKEE
Elevation: Ground: 2268 Kelly Bushing: 2280
Total Depth: 5850 Plug Back Total Depth: 5762
Amount of Surface Pipe Set and Cemented at: 1247 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: _____ Feet
If Alternate II completion, cement circulated from: N/A
feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 3500 ppm Fluid volume: NW-1 370
NW-2 1000
Dewatering method used: Hauled off

Location of fluid disposal if hauled offsite:

Operator Name: General Inc.
Lease Name: NW-1 NW-2 License #: 23084
Quarter NW-1 SE 2 Sec. 4N Twp. 28E S. R. 26W East West
County: Beaver Permit #: NW-1 355561
NW-2 726287

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: Rhonda Prill
Title: ENGINEERING TECH Date: 6/28/2010

KCC Office Use ONLY

- Letter of Confidentiality Received 6/24/10
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: MS Date: 6-30-10

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Operator Name: APACHE CORPORATION Lease Name: HAGER Well #: 1-13
 Sec. 13 Twp. 34 S. R. 28 East West County: MEADE

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

| | | | | |
|--|---|---|----------------------------------|---------------------------------|
| Drill Stem Tests Taken <i>(Attach Additional Sheets)</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input checked="" type="checkbox"/> Log | Formation (Top), Depth and Datum | <input type="checkbox"/> Sample |
| Samples Sent to Geological Survey | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Name | Top | Datum |
| Cores Taken | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | BASE HEEBNER | 4332 | -2064 |
| Electric Log Run | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | LANSING/KANSAS CITY | 4481 | -2213 |
| Electric Log Submitted Electronically <i>(If no, Submit Copy)</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | MARMATON | 5145 | -2877 |
| | | CHEROKEE | 5574 | -3272 |

List All E. Logs Run:
DENSITY, INDUCTION, MICRO RESISTIVITY

| CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used | | | | | | | |
|---|-------------------|---------------------------|-------------------|---------------|----------------|--------------|--------------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc. | | | | | | | |
| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| SURFACE | 12.25 | 8 5/8 | 24 | 1,247' | STD CL A | 650 | 450 SX 3% CC + 200 2% CC |
| PRODUCTION | 7.875 | 4 1/2 | 11.6 | 5,850' | 50/50 POZ | 410 | 310 SX 6% HALID + 100 10% SALT |

| ADDITIONAL CEMENTING / SQUEEZE RECORD | | | | |
|--|------------------|----------------|--------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone | | | | |

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i> | Depth |
|----------------|---|--|--------|
| 4 | 5,542' - 5,544' | FRAC 5,542' - 5,577 WITH 9,470 GAL 2% | 5,542' |
| 4 | 5,549' - 5,555' | SLICK WTR + 12,768 GAL 20% GELLED | 5,549' |
| 4 | 5,573 - 5,577' | 50Q N2 RETARDED ACID | 5,573' |

| | | | | |
|--|---|-----------------------|-----------------------|--|
| TUBING RECORD: | Size: <u>2 3/8</u> | Set At: <u>5,587'</u> | Packer At: <u>N/A</u> | Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Date of First, Resumed Production, SWD or ENHR. <u>5/2/2010</u> | Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____ | | | |
| Estimated Production Per 24 Hours | Oil Bbls. <u>85</u> | Gas Mcf <u>65</u> | Water Bbls. <u>2</u> | Gas-Oil Ratio <u>767</u> |

| | | |
|--|---|---|
| DISPOSITION OF GAS: <input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ | PRODUCTION INTERVAL: <u>CHEROKEE</u> |
|--|---|---|

HALLIBURTON

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Cementing Job Summary

The Road to Excellence Starts with Safety
KCC WICHITA

| | | | |
|--|---------------------------------|-------------------------------|------------------------|
| Sold To #: 300496 | Ship To #: 2775184 | Quote #: | Sales Order #: 7255948 |
| Customer: APACHE CORP | | Customer Rep: Bone, Mr. Glenn | |
| Well Name: Hager | Well #: 1-13 | API/UWI #: | |
| Field: | City (SAP): PLAINS | County/Parish: Meade | State: Kansas |
| Legal Description: Section 13 Township 34S Range 27W | | | |
| Contractor: Kenai Drilling | Rig/Platform Name/Num: 58 | | |
| Job Purpose: Cement Surface Casing | | | |
| Well Type: Development Well | Job Type: Cement Surface Casing | | |
| Sales Person: MEREDITH, JERRY | Srv Supervisor: LOPEZ, CARLOS | MBU ID Emp #: 321975 | |

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Job Personnel

| HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # |
|----------------------------|---------|--------|---------------|---------|--------|----------------|---------|--------|
| CARRILLO, EDUARDO Carrillo | 5 | 371263 | LOPEZ, CARLOS | 5 | 321975 | MATA, ADOLFO V | 7 | 419999 |
| TORRES, CLEMENTE | 7 | 344233 | | | | | | |

Equipment

| HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way |
|------------|----------------|------------|----------------|------------|----------------|------------|----------------|
| | | | | | | | |

Job Hours

| Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours |
|--------------|-------------------|-----------------|---|-------------------|-----------------|------|-------------------|-----------------|
| 3-23-10 | 5 | 3 | | | | | | |
| TOTAL | | | <i>Total is the sum of each column separately</i> | | | | | |

Job

Job Times

| Formation Name | Formation Depth (MD) | Top | Bottom | Called Out | Date | Time | Time Zone |
|------------------------|----------------------|-----|-------------------|---------------|-----------------|-------|-----------|
| | | | | On Location | 23 - Mar - 2010 | 06:00 | CST |
| Form Type | | | BHST | On Location | 23 - Mar - 2010 | 10:00 | CST |
| Job depth MD | 1583.1 ft | | Job Depth TVD | Job Started | 23 - Mar - 2010 | 11:20 | CST |
| Water Depth | | | Wk Ht Above Floor | Job Completed | 23 - Mar - 2010 | 12:45 | CST |
| Perforation Depth (MD) | From | | To | Departed Loc | 23 - Mar - 2010 | 15:00 | CST |

Well Data

| Description | New / Used | Max pressure psig | Size in | ID in | Weight lbm/ft | Thread | Grade | Top MD ft | Bottom MD ft | Top TVD ft | Bottom TVD ft |
|---------------------------|------------|-------------------|---------|--------|---------------|-------------|-------|-----------|--------------|------------|---------------|
| 12-1/4" Surface Open Hole | | | | 12.25 | | | | 80. | 1600. | | |
| 20" Pre-Set Conductor | New | | 20. | 19.124 | 94. | | | | 80. | | |
| 8-5/8" Surface Casing | New | | 8.625 | 8.097 | 24. | 8 RD (ST&C) | J-55 | | 1600. | | |

Sales/Rental/3rd Party (HES)

| Description | Qty | Qty uom | Depth | Supplier |
|--|-----|---------|-------|----------|
| PLUG,CMTG, TOP, 8 5/8, HWE, 7.20 MIN/8.09 MA | 1 | EA | | |

Tools and Accessories

| Type | Size | Qty | Make | Depth | Type | Size | Qty | Make | Depth | Type | Size | Qty | Make |
|--------------|------|-----|------|-------|-------------|------|-----|------|-------|----------------|------|-----|------|
| Guide Shoe | | | | | Packer | | | | | Top Plug | | | |
| Float Shoe | | | | | Bridge Plug | | | | | Bottom Plug | | | |
| Float Collar | | | | | Retainer | | | | | SSR plug set | | | |
| Insert Float | | | | | | | | | | Plug Container | | | |
| Stage Tool | | | | | | | | | | Centralizers | | | |

Miscellaneous Materials

| Gelling Agt | Conc | Surfactant | Conc | Acid Type | Qty | Conc | % |
|---------------|------|------------|------|-----------|------|------|---|
| Treatment Fld | Conc | Inhibitor | Conc | Sand Type | Size | Qty | |

85/8

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| Fluid Data | | | | | | | | | |
|--|--------------------|--|--------|---|------------------------|---------------------------|------------------|--------------|------------------------|
| Stage/Plug #: 1 | | | | | | | | | |
| Fluid # | Stage Type | Fluid Name | Qty | Qty uom | Mixing Density lbm/gal | Yield ft ³ /sk | Mix Fluid Gal/sk | Rate bbl/min | Total Mix Fluid Gal/sk |
| 1 | MID-CON 2 STANDARD | MIDCON-2 CEMENT STANDARD - SBM (15078) | 450.0 | sacks | 11.4 | 2.95 | 18.09 | 8.0 | 18.09 |
| | 3 % | CALCIUM CHLORIDE - HI TEST PELLET (100005053) | | | | | | | |
| | 0.5 lbm | POLY-E-FLAKE (101216940) | | | | | | | |
| | 0.1 % | WG-17, 50 LB SK (100003623) | | | | | | | |
| | 18.09 Gal | FRESH WATER | | | | | | | |
| 2 | Standard | CMT - STANDARD CEMENT (100003684) | 200.0 | sacks | 15.6 | 1.2 | 5.18 | 6.0 | 5.18 |
| | 94 lbm | CMT - STANDARD - CLASS A REG OR TYPE I, BULK (100003684) | | | | | | | |
| | 2 % | CALCIUM CHLORIDE - HI TEST PELLET (100005053) | | | | | | | |
| | 0.5 lbm | POLY-E-FLAKE (101216940) | | | | | | | |
| | 5.177 Gal | FRESH WATER | | | | | | | |
| 3 | Mud Displacement | | 98.00 | bbl | 9. | .0 | .0 | 8.0 | |
| Calculated Values | | Pressures | | | Volumes | | | | |
| Displacement | 98 | Shut In: Instant | | Lost Returns | | Cement Slurry | 279.13 | Pad | |
| Top Of Cement | SURFACE | 5 Min | | Cement Returns | 50 | Actual Displacement | 98 | Treatment | |
| Frac Gradient | | 15 Min | | Spacers | | Load and Breakdown | | Total Job | 377.13 |
| Rates | | | | | | | | | |
| Circulating | | Mixing | | Displacement | | Avg. Job | | | |
| Cement Left In Pipe | Amount | 40 ft | Reason | Shoe Joint | | | | | |
| Frac Ring # 1 @ | ID | Frac ring # 2 @ | ID | Frac Ring # 3 @ | ID | Frac Ring # 4 @ | ID | | |
| The Information Stated Herein Is Correct | | | | Customer Representative Signature <i>William Jay</i> | | | | | |

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Summit Version: 7.20.130

Tuesday, March 23, 2010 13:08:00

The Road to Excellence Starts with Safety

| | | | |
|--|---------------------------------|----------------------|------------------------|
| Sold To #: 300496 | Ship To #: 2775184 | Quote #: | Sales Order #: 7255948 |
| Customer: APACHE CORP | Customer Rep: Bone, Mr. Glenn | | |
| Well Name: Hager | Well #: 1-13 | API/UWI #: | |
| Field: | City (SAP): PLAINS | County/Parish: Meade | State: Kansas |
| Legal Description: Section 13 Township 34S Range 27W | | | |
| Lat: | Long: | | |
| Contractor: Kenai Drilling | Rig/Platform Name/Num: 58 | | |
| Job Purpose: Cement Surface Casing | Ticket Amount: | | |
| Well Type: Development Well | Job Type: Cement Surface Casing | | |
| Sales Person: MEREDITH, JERRY | Srv Supervisor: LOPEZ, CARLOS | MBU ID Emp #: 321975 | |

| Activity Description | Date/Time | Cht # | Rate bbl/min | Volume bbl | | Pressure psig | | Comments |
|--|------------------|-------|--------------|------------|-------|---------------|--------|--|
| | | | | Stage | Total | Tubing | Casing | |
| Safety Huddle | 03/23/2010 11:39 | | | | | | | PRE TRIP JOURNEY MANAGEMENT |
| Depart Location for Service Center or Other Site | 03/23/2010 11:39 | | | | | | | FROM WILLBURTON, KS TO S.E MEADE, KS FOR THE NEXT JOB |
| Arrive At Loc | 03/23/2010 11:39 | | | | | | | GOOD LOCATION WITH PLENTY OF ROOM FOR ALL TRUCKS |
| Assessment Of Location Safety Meeting | 03/23/2010 11:39 | | | | | | | SPOTTED IN TRUCKS |
| Rig-Up Completed | 03/23/2010 11:39 | | | | | | | RIGGED UP ALL IRON AND WATER HOSES |
| Start Job | 03/23/2010 11:39 | | | | | | | HAD A SAFETY MEETING WITH CO. MAN AND RIG CREW BEFORE WE STARTED THE JOB |
| Test Lines | 03/23/2010 11:39 | | | | | | 2500.0 | CHECKING FOR LEAKS ON TRUCK AND IRON |
| Pump Lead Cement | 03/23/2010 11:39 | | | 236.4 | 3 | | 189.0 | 450 SKS OF MIDCON -2 CEMENT MIXED @ 11.4 # |
| Pump Tail Cement | 03/23/2010 11:39 | | | 42.7 | | | 150.0 | 200 SKS OF STANDARD CLASS A CEMENT MIXED @ 15.6 # |
| Clean Lines | 03/23/2010 11:39 | | | | | | | WASHED UP ON TOP OF PLUG WITH FIRST 10 BBLS OF DISPLACEMENT |
| Drop Top Plug | 03/23/2010 11:39 | | | | | | | HWE PLUG UP IN THE AIR 15' |
| Pump Displacement | 03/23/2010 11:39 | | | 97.9 | | | | FRESH WATER |

Sold To #: 300496

Ship To #: 2775184

Quote #:

Sales Order #: 7255948

SUMMIT Version: 7.20.130

Tuesday, March 23, 2010 01:08:00

HALLIBURTON

Cementing Job Log

The Road to Excellence Starts with Safety

| | | | |
|--|-------------------------------|---------------------------------|--------------------------|
| Sold To #: 300496 | Ship To #: 2775184 | Quote #: | Sales Order #: 7255948 |
| Customer: APACHE CORP | | Customer Rep: Bone, Mr. Glenn | |
| Well Name: Hager | Well #: 1-13 | API/UWI #: | |
| Field: | City (SAP): PLAINS | County/Parish: Meade | State: Kansas KCC |
| Legal Description: Section 13 Township 34S Range 27W | | | |
| Lat: | Long: | | JUN 24 2010 |
| Contractor: Kenai Drilling | Rig/Platform Name/Num: 58 | | |
| Job Purpose: Cement Surface Casing | | Ticket Amount: | |
| Well Type: Development Well | | Job Type: Cement Surface Casing | |
| Sales Person: MEREDITH, JERRY | Srv Supervisor: LOPEZ, CARLOS | MBU ID Emp #: 321975 | |

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| Activity Description | Date/Time | Cht # | Rate bbl/min | Volume bbl | | Pressure psig | | Comments |
|---|---------------------|-------|--------------|------------|-------|---------------|------------|---|
| | | | | Stage | Total | Tubing | Casing | |
| Safety Huddle | 03/23/2010 11:39 | | | | | | | PRE TRIP JOURNEY MANEGEMENT |
| Depart Location for Service Center or Other Site | 03/23/2010 11:39 | | | | | | | FROM WILLBURTON, KS TO S.E MEADE, KS FOR THE NEXT JOB |
| Arrive At Loc | 03/23/2010 11:39 | | | | | | | GOOD LOCATION WITH PLENTY OF ROOM FOR ALL TRUCKS |
| Assessment Of Location Safety Meeting | 03/23/2010 11:39 | | | | | | | RECEIVED SPOTTED IN TRUCKS |
| Rig-Up Completed | 03/23/2010 11:39 | | | | | | | JUN 28 2010 RIGGED UP ALL IRON AND WATER HOSES |
| Start Job | 03/23/2010 11:39 | | | | | | | KCC WICHITA HAD A SAFETY MEETING WITH CO. MAN AND RIG CREW BEFORE WE STARTED THE JOB |
| Test Lines | 03/23/2010 11:39 | | | | | | 2500. 0 | CHECKING FOR LEAKS ON TRUCK AND IRON |
| Pump Lead Cement | 03/23/2010 11:39 | | | 236.4 3 | | | 189.0 | 450 SKS OF MIDCON -2 CEMENT MIXED @ 11.4 # |
| Pump Tail Cement | 03/23/2010 11:39 | | | 42.7 | | | 150.0 | 200 SKS OF STANDARD CLASS A CEMENT MIXED @ 15.6 # |
| Clean Lines | 03/23/2010 11:39 | | | | | | | WASHED UP ON TOP OF PLUG WITH FIRST 10 BBLS OF DISPLACEMENT |
| Drop Top Plug | 03/23/2010 11:39 | | | | | | | HWE PLUG UP IN THE AIR 15' |
| Pump Displacement | 03/23/2010 11:39 | | | 97.9 | | | | FRESH WATER |

Sold To #: 300496

Ship To #: 2775184

Quote #:

Sales Order #: 7255948

SUMMIT Version: 7.20.130

Tuesday, March 23, 2010 01:08:00

HALLIBURTON

Cementing Job Log

| Activity Description | Date/Time | Cht # | Rate bbl/min | Volume bbl | | Pressure psig | | Comments |
|--|---------------------|-------|--------------|------------|-------|---------------|--------|---|
| | | | | Stage | Total | Tubing | Casing | |
| Other | 03/23/2010 11:39 | | | | | | | SLOWED DOWN BEFORE BUMPING THE PLUG TO 2 BPM LAST 20 BBLS |
| Bump Plug | 03/23/2010 11:39 | | 2 | | | | | TOOK PRESSURE 500 PSI OVER TO LAND THE PLUG |
| Release Casing Pressure | 03/23/2010 11:39 | | | | | | | GOT 1.5 BBL BACK TO TRUCK |
| End Job | 03/23/2010 11:39 | | | | | | | THANK YOU FOR CALLING HALLIBURTON |
| Depart Location for Service Center or Other Site | 03/23/2010 11:39 | | | | | | | SORRY FOR THE WAIT , WE APRECIATE YOUR BUISNESS |
| Comment | 03/23/2010 11:43 | | | | | | | RIG WAS READY WAITING ON US TO ARRIVE FROM ANOTHER JOBDUE TO NOT ENOUGH TRUCKS AND PERSONELL. |

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KCC WICHITA

Sold To #: 300496

Ship To #: 2775184

Quote #:

Sales Order #:

7255948

SUMMIT Version: 7.20.130

Tuesday, March 23, 2010 01:08:00

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JUN 28 2010

HALLIBURTON

KCC WICHITA *Cementing Job Summary*

The Road to Excellence Starts with Safety

| | | | |
|--|------------------------------------|-------------------------------|------------------------|
| Sold To #: 300496 | Ship To #: 2775184 | Quote #: | Sales Order #: 7268300 |
| Customer: APACHE CORP | | Customer Rep: Bone, Mr. Glenn | |
| Well Name: Hager | Well #: 1-13 | API/UWI #: | |
| Field: | City (SAP): PLAINS | County/Parish: Meade | State: Kansas |
| Legal Description: Section 13 Township 34S Range 27W | | | KCC |
| Contractor: Kenai | Rig/Platform Name/Num: 58 | | |
| Job Purpose: Cement Production Casing | | | JUN 24 2010 |
| Well Type: Development Well | Job Type: Cement Production Casing | | |
| Sales Person: MEREDITH, JERRY | Srvc Supervisor: DEETZ, DONALD | MBU ID Emp #: 389855 | |

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Job Personnel

| HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # |
|----------------------|---------|--------|-----------------|---------|--------|-------------------|---------|--------|
| ARNETT, JAMES Ray | 5.0 | 226567 | DEETZ, DONALD E | 5.0 | 389855 | PORTILLO, CESAR S | 5.0 | 457847 |
| TORRES, CLEMENTE | 5.0 | 344233 | | | | | | |

Equipment

| HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way |
|------------|----------------|------------|----------------|------------|----------------|------------|----------------|
| 10244148 | 45 mile | 10286731 | 45 mile | 10714253C | 45 mile | 10866807 | 45 mile |
| 10994449 | 45 mile | 10998524 | 45 mile | 11133699 | 45 mile | | |

Job Hours

| Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours |
|--------------|-------------------|-----------------|--|-------------------|-----------------|------|-------------------|-----------------|
| 3-28-10 | 5 | 4 | | | | | | |
| TOTAL | | | Total is the sum of each column separately | | | | | |

Job

Job Times

| Formation Name | Formation Depth (MD) Top | Bottom | Called Out | Date | Time | Time Zone |
|-----------------------------|--------------------------|-------------------|---------------|-----------------|-------|-----------|
| | | | | 28 - Mar - 2010 | 16:00 | CST |
| Form Type | | BHST | On Location | 28 - Mar - 2010 | 18:00 | CST |
| Job depth MD | 5850. ft | Job Depth TVD | Job Started | 28 - Mar - 2010 | 00:00 | CST |
| Water Depth | | Wk Ht Above Floor | Job Completed | 28 - Mar - 2010 | 00:00 | CST |
| Perforation Depth (MD) From | | To | Departed Loc | 28 - Mar - 2010 | 00:00 | CST |

Well Data

| Description | New / Used | Max pressure psig | Size in | ID in | Weight lbm/ft | Thread | Grade | Top MD ft | Bottom MD ft | Top TVD ft | Bottom TVD ft |
|-----------------------------|------------|-------------------|---------|-------|---------------|-------------|-------|-----------|--------------|------------|---------------|
| 7-7/8" Production Open Hole | | | | 7.875 | | | | 1600. | 5850. | | |
| 4-1/2" Production Casing | New | | 4.5 | 4. | 11.6 | BUTTRESS | N-80 | | 5850. | | |
| 8-5/8" Surface Casing | New | | 8.625 | 8.097 | 24. | 8 RD (ST&C) | J-55 | | 1600. | | |

Sales/Rental/3rd Party (HES)

| Description | Qty | Qty uom | Depth | Supplier |
|---|-----|---------|-------|----------|
| PLUG,CMTG, TOP, 4 1/2, HW, 3.65 MIN/4.14 MA | 1 | EA | | |

Tools and Accessories

| Type | Size | Qty | Make | Depth | Type | Size | Qty | Make | Depth | Type | Size | Qty | Make |
|--------------|-------|-----|------|-------|-------------|------|-----|------|-------|----------------|-------|-----|------|
| Guide Shoe | 4 1/2 | 1 | | 5850 | Packer | | | | | Top Plug | 4 1/2 | 1 | h |
| Float Shoe | | | | | Bridge Plug | | | | | Bottom Plug | | | |
| Float Collar | | | | | Retainer | | | | | SSR plug set | | | |
| Insert Float | | | | | | | | | | Plug Container | 4 1/2 | 1 | h |
| Stage Tool | | | | | | | | | | Centralizers | | | |

Miscellaneous Materials

| Gelling Agt | Conc | Surfactant | Conc | Acid Type | Qty | Conc | % |
|---------------|------|------------|------|-----------|------|------|-----|
| Treatment Fld | Conc | Inhibitor | Conc | Sand Type | Size | Conc | Qty |

4 1/2

| Fluid Data | | | | | | | | | |
|--|---------------------|---------------------------------|---|-----------------------------------|------------------------|---------------------------|------------------|--------------|------------------------|
| Stage/Plug #: 1 | | | | | | | | | |
| Fluid # | Stage Type | Fluid Name | Qty | Qty uom | Mixing Density lbm/gal | Yield ft ³ /sk | Mix Fluid Gal/sk | Rate bbl/min | Total Mix Fluid Gal/sk |
| 1 | Fresh Water | | 10.00 | bbl | 8.33 | .0 | .0 | 8.0 | |
| 2 | Superflush | | 10.00 | bbl | 9.5 | .0 | .0 | 8.0 | |
| | | 68 lbm/bbl | HALLIBURTON SUPER FLUSH (100003639) | | | | | | |
| 3 | Fresh Water | | 5.00 | bbl | 8.33 | .0 | .0 | 8.0 | |
| 4 | Scavenger Cement | POZ PREMIUM 50/50 - SBM (12302) | 310.0 | sacks | 10. | 6.47 | 41.96 | 8.0 | 41.96 |
| | | 10 % | SALT, 100 LB BAG (100003652) | | | | | | |
| | | 5 % | CAL-SEAL 60, BULK (100064022) | | | | | | |
| | | 3 lbm | KOL-SEAL, BULK (100064233) | | | | | | |
| | | 0.6 % | HALAD(R)-322, 50 LB (100003646) | | | | | | |
| | | 41.962 Gal | FRESH WATER | | | | | | |
| 5 | Tail Cement | POZ PREMIUM 50/50 - SBM (12302) | 100.0 | sacks | 14.2 | 1.43 | 5.79 | 7.0 | 5.79 |
| | | 5.792 Gal | FRESH WATER | | | | | | |
| | | 0.6 % | HALAD(R)-322, 50 LB (100003646) | | | | | | |
| | | 3 lbm | KOL-SEAL, BULK (100064233) | | | | | | |
| | | 5 % | CAL-SEAL 60, BULK (100064022) | | | | | | |
| | | 10 % | SALT, 100 LB BAG (100003652) | | | | | | |
| 6 | 2% KCL Displacement | | 90.00 | bbl | 8.45 | .0 | .0 | 8.0 | |
| | | 167 lbm/Mgal | POTASSIUM CHLORIDE - KCL, 50 LB BAG (100001585) | | | | | | |
| | | 1 gal/Mgal | CLA-STA(R) XP (100003733) | | | | | | |
| | | 1 gal/Mgal | LOSURF-300M, TOTETANK (101439823) | | | | | | |
| Calculated Values | | Pressures | | | Volumes | | | | |
| Displacement | 90 | Shut In: Instant | | Lost Returns | 0 | Cement Slurry | 131 | Pad | |
| Top Of Cement | 2627 | 5 Min | | Cement Returns | 0 | Actual Displacement | 90 | Treatment | |
| Frac Gradient | | 15 Min | | Spacers | 25 | Load and Breakdown | | Total Job | 221 |
| Rates | | | | | | | | | |
| Circulating | 6 | Mixing | 6 | Displacement | 6 | Avg. Job | 6 | | |
| Cement Left In Pipe | Amount | 40 ft | Reason | Shoe Joint | | | | | |
| Frac Ring # 1 @ | ID | Frac ring # 2 @ | ID | Frac Ring # 3 @ | ID | Frac Ring # 4 @ | ID | | |
| The Information Stated Herein Is Correct | | | | Customer Representative Signature | | | | | |

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| | | | |
|--|--------------------|------------------------------------|------------------------|
| Sold To #: 300496 | Ship To #: 2775184 | Quote #: | Sales Order #: 7268300 |
| Customer: APACHE CORP | | Customer Rep: Bone, Mr. Glenn | |
| Well Name: Hager | Well #: 1-13 | API/UWI #: | |
| Field: | City (SAP): PLAINS | County/Parish: Meade | State: Kansas |
| Legal Description: Section 13 Township 34S Range 27W | | | |
| Lat: | | Long: | |
| Contractor: Kenai | | Rig/Platform Name/Num: 58 | |
| Job Purpose: Cement Production Casing | | | Ticket Amount: |
| Well Type: Development Well | | Job Type: Cement Production Casing | |
| Sales Person: MEREDITH, JERRY | | Srvc Supervisor: DEETZ, DONALD | MBU ID Emp #: 389855 |

| Activity Description | Date/Time | Cht # | Rate bbl/min | Volume bbl | | Pressure psig | | Comments |
|---------------------------------------|---------------------|-------|--------------|------------|-------|---------------|--------|---|
| | | | | Stage | Total | Tubing | Casing | |
| Call Out | 03/28/2010 16:00 | | | | | | | |
| Depart Yard Safety Meeting | 03/28/2010 16:50 | | | | | | | discuse routs and stops |
| Arrive At Loc | 03/28/2010 18:00 | | | | | | | rig was running casing |
| Assessment Of Location Safety Meeting | 03/28/2010 18:05 | | | | | | | walk around location point out any hazards |
| Pre-Rig Up Safety Meeting | 03/28/2010 18:10 | | | | | | | watch for pinch points,hammering and walking hazards |
| Rig-Up Completed | 03/28/2010 19:10 | | | | | | | |
| Casing on Bottom | 03/28/2010 19:30 | | | | | | | pipe was 15 ft off floor put on harness staded head circulated with rig |
| Pre-Job Safety Meeting | 03/28/2010 20:04 | | | | | | | with all personal on location |
| Start Job | 03/28/2010 20:34 | | | | | | | |
| Pressure Test | 03/28/2010 20:35 | | | | | | | 4000 psi |
| Pump Spacer 1 | 03/28/2010 20:37 | | 6 | 10 | | | 250.0 | water |
| Pump Spacer 1 | 03/28/2010 20:39 | | 6 | 10 | 20 | | 250.0 | super flush |
| Pump Spacer 1 | 03/28/2010 20:40 | | 6 | 5 | 25 | | 250.0 | water |
| Pump Lead Cement | 03/28/2010 20:42 | | 6 | 106 | 131 | | 250.0 | 310 sks @ 12.7 |
| Pump Tail Cement | 03/28/2010 20:59 | | 6 | 25 | 156 | | 100.0 | 100 sks @ 14.2 |
| Clean Lines | 03/28/2010 21:10 | | | | | | | to pit |
| Drop Plug | 03/28/2010 21:13 | | | | | | | top plug only |

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Cementing Job Log

| Activity Description | Date/Time | Cht # | Rate bbl/min | Volume bbl | | Pressure psig | | Comments |
|--|---------------------|-------|--------------|------------|-------|---------------|--------|---------------------------|
| | | | | Stage | Total | Tubing | Casing | |
| Pump Displacement | 03/28/2010 21:15 | | 6 | 90 | 246 | | 500.0 | kcl water |
| Bump Plug | 03/28/2010 21:33 | | | | | | | |
| Check Floats | 03/28/2010 21:35 | | | | | | | ok |
| End Job | 03/28/2010 21:36 | | | | | | | |
| Pre-Rig Down Safety Meeting | 03/28/2010 21:40 | | | | | | | all hes employees present |
| Rig-Down Equipment | 03/28/2010 21:50 | | | | | | | |
| Depart Location Safety Meeting | 03/28/2010 23:15 | | | | | | | all hse employees present |
| Depart Location for Service Center or Other Site | 03/28/2010 23:30 | | | | | | | |

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Sold To # : 300496

Ship To # : 2775184

Quote # :

Sales Order # :

7268300

SUMMIT Version: 7.20.130

Sunday, March 28, 2010 10:06:00