

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

CONFIDENTIAL

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Operator: License # 4549
Name: ANADARKO PETR. CORP.
Address: 701 S. TAYLOR STREET, SUITE 400
City/State/Zip: AMARILLO, TEXAS 79101
Purchaser: NCRA
Operator Contact Person: JOHN VIGIL
Phone: (806) 457-4600
Contractor: Name: MURFIN DRILLING CO., INC.
License: 30606
Wellsite Geologist: MIKE DODGE

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, 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./SWD
 Plug Back _____ Plug Back Total Depth _____
 Commingled _____ Docket No. _____
 Dual Completion _____ Docket No. _____
 Other (SWD or Enhr.?) _____ Docket No. _____

| | | |
|-----------------------------------|------------------|---|
| <u>4-17-2003</u> | <u>4-25-2003</u> | <u>5-7-2003</u> |
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |

API No. 15 - 189-22437
County: STEVENS
AP NE SW NW Sec. 12 Twp. 32 S. R. 38 East West
2000 feet from S / (circle one) Line of Section
350 feet from E / (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
Lease Name: METTS "A" Well #: 5
Field Name: METTS
Producing Formation: ST. LOUIS
Elevation: Ground: 3152 Kelly Bushing: _____
Total Depth: 6350 Plug Back Total Depth: 6297
Amount of Surface Pipe Set and Cemented at 1770 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from _____
_____ feet depth to _____ wl. _____ sx cmt.

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Drilling Fluid Management Plan Acc 1000 7-22-03
(Data must be collected from the Reserve Pit)
Chloride content 1000 ppm Fluid volume 700 bbls
Dewatering method used _____
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

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.

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: Lori Pearson
Title: Engr. Tech III Date: 6-18-03
Subscribed and sworn to before me this 18 day of June, 2003
Notary Public: Lori Pearson
Date Commission Expires: 2/20/05

KCC Office Use ONLY

Letter of Confidentiality Attached
If Denied, Yes Date: _____

Wireline Log Received
LORI PEARSON
Geologist, Registered Professional Engineer
My Commission Expires
FEBRUARY 20, 2005

X

Operator Name: ANADARKO PETR. CORP. Lease Name: METTS "A" Well #: 5

Sec. 12 Twp. 32 S. R. 38 East West County: STEVENS

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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken Yes No
(Attach Additional Sheets)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
(Submit Copy)

List All E. Logs Run:

CBL, DIL, CNL-LDT, ML, SONIC.

Log Formation (Top), Depth and Datum Sample

| Name | Top | Datum |
|----------------|------|-------|
| CHASE | 2513 | 639 |
| COUNCIL GROVE | 2815 | 337 |
| B/HHEEBNER | 4038 | -886 |
| MARMATON | 5826 | -1674 |
| MORROW | 5529 | -2377 |
| STE. GENEVIEVE | 6060 | -2908 |
| ST. LOUIS | 6167 | -3015 |

CASING RECORD New 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 | 12-1/4" | 8-5/8" | 21.8 | 1770 | P+MC/P+ | 425/125 | 3%CC, .1%FWCA, 1/2 PPS FC/2%CC, 1/4PPS FC. |
| PRODUCTION | 7-7/8" | 5-1/2" | 15.5 | 6350 | 50/50 POZ | 25/180 | 10% SALT, 6% HALAD 322, 1/4PPS FC/SAME. |

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 (Amount and Kind of Material Used) | Depth |
|----------------|---|---|----------------|
| 6 | 6187-91, 6218-28. | ACID: 5500 GAL 15% HCL. | 6187-6228 (OA) |

| | | | | |
|----------------------|--------------------|--------------------|-----------|---|
| TUBING RECORD | Size <u>2 7/8"</u> | Set At <u>6160</u> | Packer At | Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
|----------------------|--------------------|--------------------|-----------|---|

| | |
|---|--|
| Date of First, Resumed Production, SWD or Enhr. <u>5-7-2003</u> | Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) |
|---|--|

| | | | | | |
|-----------------------------------|----------------------|-------------------|-------------|--------------------------|---------|
| Estimated Production Per 24 Hours | Oil Bbls. <u>512</u> | Gas Mcf <u>78</u> | Water Bbls. | Gas-Oil Ratio <u>152</u> | Gravity |
|-----------------------------------|----------------------|-------------------|-------------|--------------------------|---------|

Disposition of Gas Vented Sold Used on Lease (If vented, Sumit ACO-18.)

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify)

Production Interval 6187-6228 (OA)

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| | | | |
|---|-------------------------------------|---|---|
| HALLIBURTON JOB LOG CONFIDENTIAL | | TICKET # 2399794 | TICKET DATE 04/19/03 |
| REGION Central Operations | NWA / COUNTRY Mid Continent/USA | BDA / STATE MC/Ks | COUNTY STEVENS |
| MBU ID / EMPL # MCL / IO104 | H.E.S EMPLOYEE NAME JOHN WOODROW | PSL DEPARTMENT Cement | |
| LOCATION LIBERAL | COMPANY ANADARKO PETROLEUM CORPO | CUSTOMER REP / PHONE KENNY PARKS | 806-679-3792 |
| TICKET AMOUNT \$9,833.10 | WELL TYPE 01 Oil | AP/WMI # | |
| WELL LOCATION HUGOTON,KS. | DEPARTMENT CEMENT | JOB PURPOSE CODE Cement Surface Casing | |
| LEASE NAME METTS | Well No. A-5 | SEC / TWP / RNG 12 - 32S - 38W | HES FACILITY (CLOSEST TO WELL S) LIBERAL,KS. |

| HES EMP NAME/EMP # (EXPOSURE HOURS) | HRS | HES EMP NAME/EMP # (EXPOSURE HOURS) | HRS | HES EMP NAME/EMP # (EXPOSURE HOURS) | HRS | HES EMP NAME/EMP # (EXPOSURE HOURS) | HRS |
|-------------------------------------|-----|-------------------------------------|-----|-------------------------------------|-----|-------------------------------------|-----|
| Woodrow, J 105848 | 8 | Kelly, C 259395 | 8 | | | | |
| Arnett, J 226567 | 8 | Martinez, A 258816 | 8 | | | | |
| King, K 105942 | 8 | | | | | | |

| Chart No. | Time | Rate (BPM) | volume (BBL)(GAL) | Rate | | Press.(PSI) | | Job Description / Remarks |
|-----------|------|------------|-------------------|------|------|-------------|-----|--|
| | | | | N2 | CSG. | Tbg | Tbg | |
| | 0100 | | | | | | | JOB READY |
| | 2130 | | | | | | | CALLED OUT FOR JOB |
| | 2400 | | | | | | | PUMP TRUCK & BULK CMT. ON LOCATION |
| | 0005 | | | | | | | PRE JOB SITE ASSESMENT / SPOT EQUIP |
| | 0100 | | | | | | | TRIP OUT DRILL PIPE |
| | 0155 | | | | | | | HOLD PRE JOB SAFETY MEETING |
| | 0200 | | | | | | | START RUNNING 8 5/8 CASING & FLOAT EQUIP. |
| | 0330 | | | | | | | CASING ON BOTTOM (1780 FT.) |
| | 0340 | | | | | | | HOOK UP 8 5/8 P/C & CIRCULATING IRON |
| | 0345 | | | | | | | START CIRCULATING WITH RIG PUMP |
| | 0355 | | | | | | | THROUGH CIRCULATING / HOOK UP TO PUMP TRUCK (JOB PROCEDURE) |
| | 0356 | | | | | 1000 | | TEST PUMP & LINES |
| | 0358 | 6.0 | 220.0 | | | 130 | | START MIXING 425 SKS LEAD CMT. @ 11.4#/GAL |
| | 0433 | 5.0 | 29.0 | | | 120-180 | | START MIXING 125 SKS TAIL CMT. @ 14.8#/GAL |
| | 0439 | | | | | | | THROUGH MIXING CMT. / SHUT DOWN |
| | 0440 | 6.0 | | | | 100 | | RELEASE PLUG / START DISPLACING |
| | 0455 | | 70.0 | | | | | HAVE 70 BBLs. OUT / HAVE CMT RETURNS TO SURFACE |
| | 0500 | 2.0 | 100.0 | | | 450-380 | | HAVE 100 BBLs. OUT / SLOW RATE TO 2 BPM |
| | | | | | | 425 | | MAX LIFT PRESSURE BEFORE LANDING PLUG |
| | 0505 | | 111.0 | | | 800 | | PLUG DOWN / RELEASE FLOAT |
| | | | | | | | | FLOAT HELD |
| | | | | | | | | CIRCULATED 40 BBLs. TO SURFACE ✓ |
| | | | | | | | | THANK YOU FOR CALLING HALLIBURTON !!!!! (WOODY & CREW) |



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HALLIBURTON JOB SUMMARY

SALES ORDER NUMBER: 2415958
 CONTACT DATE: 04/26/03
 BDA / STATE: MC/Ks
 COUNTY: STEVENS
 PSL DEPARTMENT: Cement
 CUSTOMER REP / PHONE: STEVE BARTEL 806-679-3792
 SAP BOMB NUMBER: 7523
 HES FACILITY (CLOSEST TO WELL SITE): Liberal Ks

REGION: Central Operations
 NW / TRY: Mil. Continent/USA
 H.E.S. EMPLOYEE NAME: Danny McLane
 COMPANY: ANADARKO PETROLEUM CORPORATION
 WELL TYPE: 01 Oil
 DEPARTMENT: Cement
 SEC / TWP / RING: 12 - 32S - 38W
 WELL LOCATION: Hugoton, Ks
 LEASE NAME: METTS
 Well No.: A-5

ORIGINAL
 806-679-3792

| HES EMP NAME / EMP # / (EXPOSURE HOURS) | HRS | HES UNIT #S / (R / T MILES) | R / T MILES | R / T MILES | R / T MILES |
|---|-----|-----------------------------|-------------|-------------|-------------|
| McLane, D 106322 | 7.5 | 422831 | 80 | | |
| Tate, N 105953 | 7.5 | 10251401 | 80 | | |
| Lemieux, M 266675 | 7.5 | 52920 10240245 | 20 | | |
| Burrows, R 273921 | 8.0 | | | | |

Form. Name _____ Type: _____
 Form. Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Retainer Depth _____ Total Depth _____

| Date | Called Out | On Location | Job Started | Job Completed |
|------|------------|-------------|-------------|---------------|
| | 4/26/2003 | 4/26/2003 | 4/27/2003 | 4/27/2003 |
| Time | 1630 | 1930 | 0100 | 0200 |

Tools and Accessories

| Type and Size | Qty | Make |
|--------------------------|-----|------|
| Float Collar SS II 5 1/2 | 1 | H |
| Float Shoe SS II 5 1/2 | 1 | |
| Centralizers 5 1/2 | 16 | O |
| Top Plug 5 1/2 | 1 | |
| HEAD 5 1/2 | 1 | W |
| Limit clamp 5 1/2 | 1 | |
| Weld-A | 1 | C |
| Guide Shoe | | |
| BTM PLUG | | O |

Well Data

| New/Used | Weight | Size | Grade | From | To | Max. Allow |
|--------------|--------|--------|-------|------|-------|------------|
| Casing New | 15.5# | 5 1/2" | | 0 | 6,365 | |
| Liner | | | | | | |
| Liner | | | | | | |
| Tubing | | | | | | |
| Drill Pipe | | | | | | |
| Open Hole | | 7 7/8" | | | | Shots/Ft. |
| Perforations | | | | | | |
| Perforations | | | | | | |
| Perforations | | | | | | |

Materials

| Mud Type | Density | Lb/Gal |
|----------------|---------|--------|
| Disp. Fluid | Density | Lb/Gal |
| Prop. Type | Size | Lb |
| Prop. Type | Size | Lb |
| Acid Type | Gal. | % |
| Acid Type | Gal. | % |
| Surfactant | Gal. | In |
| NE Agent | Gal. | In |
| Fluid Loss | Gal/Lb | In |
| Gelling Agent | Gal/Lb | In |
| Fric. Red. | Gal/Lb | In |
| Breaker | Gal/Lb | In |
| Blocking Agent | Gal/Lb | |
| Perfpac Balls | Qty. | |
| Other | | |
| Other | | |
| Other | | |
| Other | | |
| Other | | |

Hours On Location

| Date | Hours |
|-------|-------|
| 4/26 | 4.5 |
| 4/27 | 3.0 |
| Total | 7.5 |

Operating Hours

| Date | Hours |
|-------|-------|
| 4/27 | 1.5 |
| Total | 1.5 |

Description of Job
 Cement Production Casing
 Release
 JUL 13 2004
 #VALUET

Hydraulic Horsepower

| Ordered | Avail. | Used |
|---------|--------|------|
| | | |

Average Rates in BPM

| Treating | Disp. | Overall |
|----------|-------|---------|
| | | |

Cement Left in Pipe
 Feet 45 Reason SHOE JOINT

Cement Data

| Stage | Sacks | Cement | Bulk/Sks | Additives | W/Rq. | Yield | Lbs/Gal |
|-------|-------|-------------|----------|---|-------|-------|---------|
| 1 | 25 | 50/50 POZ H | Bulk | 10% SALT - .6% HALAD-322 - 1/4# FLOCELE | 40.45 | 6.07 | 10.00 |
| 2 | 180 | 50/50 POZ H | Bulk | 10% SALT - .6% HALAD-322 - 1/4# FLOCELE | 5.58 | 1.26 | 14.40 |
| 3 | 25 | 50/50 POZ H | Bulk | 10% SALT - .6% HALAD-322 - 1/4# FLOCELE | 5.58 | 1.26 | 14.40 |
| 4 | | | | | | | |

Summary

| | | | | | |
|-----------------------|----------------|---------|------------------------|---------|-------------------|
| Circulating Breakdown | Displacement | MAXIMUM | Preflush: BBI | 5.00 | Type: fresh water |
| Lost Returns | Lost Returns | | Load & Bkdn: Gal - BBI | | Pad:Bbl -Gal |
| Cmt Rtrn#Bbl | Actual TOC | | Excess /Return BBI | | Calc. Disp Bbl |
| Average | Frac. Gradient | | Calc. TOC: | | Actual Disp. |
| Shut In: Instant | 5 Min. | 15 Min. | Treatment: Gal - BBI | | Disp:Bbl |
| | | | Cement Slurry BBI | 27,40.3 | Rat & Mouse |
| | | | Total Volume BBI | #VALUET | 5.5 |

Frac Ring #1 | Frac Ring #2 | Frac Ring #3 | Frac Ring #4

THE INFORMATION STATED HEREIN IS CORRECT
 CUSTOMER REPRESENTATIVE _____
 SIGNATURE _____

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ORIGINAL

| | | | | | | | |
|------------------------------------|--|-------------------------------------|--|--|---------|---|----------|
| HALLIBURTON JOB LOG | | CONFIDENTIAL | | TICKET # | 2415958 | TICKET DATE | 04/26/03 |
| REGION Central Operations | | NWA / COUNTRY Mid Continent/USA | | BDA / STATE MC/Ks | | COUNTY STEVENS | |
| MBU ID / EMPL # MCL10101 106322 | | H.E.S EMPLOYEE NAME Danny McLane | | PSL DEPARTMENT Cement | | CUSTOMER REP / PHONE STEVE BARTEL 806-679-3792 | |
| LOCATION LIBERAL | | COMPANY ANADARKO PETROLEUM CORPO | | WELL TYPE 01 Oil | | API/WI # | |
| TICKET AMOUNT \$7,528.81 | | DEPARTMENT Cement | | JOB PURPOSE CODE Cement Production Casing | | RES FACILITY (CLOSEST TO WELL S) Liberal Ks | |
| WELL LOCATION Hugoton, Ks | | Well No. A-5 | | SEC / TWP / RNG 12 - 32S - 38W | | RES FACILITY (CLOSEST TO WELL S) Liberal Ks | |
| LEASE NAME METTS | | HES EMP NAME/EMP # (EXPOSURE HOURS) | | HRS | | HES EMP NAME/EMP # (EXPOSURE HOURS) | |

| | | | | | |
|-------------------|-----|--|--|--|--|
| Mclane, D 106322 | 7.5 | | | | |
| Tate, N 105953 | 7.5 | | | | |
| Lemieux, M 266575 | 7.5 | | | | |
| Burrows, R 273921 | 8 | | | | |

| Chart No. | Time | Rate (BPM) | Volume (BBL)(GAL) | Rate | | Press.(PSI) | | Job Description / Remarks |
|-----------|------|------------|-------------------|------|------|-------------|--|---|
| | | | | N2 | CSG. | Tbg | | |
| | 1430 | | | | | | | Called for job. Move over from another location |
| | 1930 | | | | | | | On location and do job site assessment. Bring pump truck on location. Hold safety meeting with drivers. |
| | 2045 | | | | | | | Drill pipe out of hole. Rig down B.O.P and kelly |
| | 2100 | | | | | | | Hold safety meeting and rig up casing crew |
| | 2132 | | | | | | | Start running 5 1/2 casing and float equipment. |
| | 0004 | | | | | | | Casing on bottom |
| | 0008 | | | | | | | Hook up plug container and circulating hose |
| | 0010 | | | | | | | Kick in rig pump |
| | 0015 | | | | | | | Got mud returns and rig down casing crew |
| | 0050 | | | | | | | Plug rat and mouse holes with 14.4 #/gal cement |
| | 0103 | | | | | | | Through circulating with rig pump |
| | 0104 | | | | | | | Hook up to pump truck |
| | | | | | | | | Job procedure for 5 1/2 long string |
| | 0105 | | | | | 0/2650 | | Pressure test lines |
| | 0106 | 5.0 | 5.0 | | | 0/150 | | Start fresh water spacer |
| | 0109 | 6.0 | 27.0 | | | 150 | | Start scavenger cement @ 10 #/gal |
| | 0113 | 6.0 | 40.3 | | | 200 | | Start cement @ 14.4 #/gal |
| | 0120 | | | | | | | Through mixing cement |
| | 0122 | | | | | | | Shut down and wash up pumps and lines |
| | 0125 | | | | | | | Release top plug |
| | 0126 | 7.0 | 150.5 | | | 0/115 | | Start displacement with 4% Clafix II and Clasta-XP |
| | 0144 | | | | | 115/250 | | Displacement caught cement |
| | 0147 | 2.0 | | | | 550/500 | | Slow down rate |
| | 0153 | | | | | 600/2000 | | Plug landed and pressure up casing |
| | 0155 | | | | | 2000/0 | | Release pressure and floats held |
| | 0156 | | | | | 0/2000 | | Pressure up to test casing |
| | 0200 | | | | | 2000/0 | | Release pressure |
| | | | | | | | | Thank you for calling Halliburton |
| | | | | | | | | Danny and Crew |

Release
 JUL 13 2004
 From
 Confidential

PRPA 030305

6-18-04

ANADARKO PETROLEUM CORPORATION

PHONE 806-457-4600 • 701 S. TAYLOR ST. • SUITE 400 • AMARILLO, TEXAS 79101



June 18, 2003

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JUN 20 2003

KCC WICHITA

Kansas Corporation Commission
Conservation Division
Wichita State Office Building
130 South Market, RM 2078
Wichita, Kansas 67202

Attn: Sharon Ahtone

KCC

JUN 16 2003

CONFIDENTIAL

Release

JUL 13 2004

From

Confidential

Re: Metts "A" No. 5
Section 12-32S-38W
Stevens County, Kansas

Dear Ms. Ahtone:

Attached in triplicate is the Affidavit of Completion (ACO-1 Well History), a set of well logs and cementing tickets for the above referenced well.

It is requested that this information remain confidential for a period of one year.

If you have any questions, please advise.

Very truly yours,

L. Marc Harvey
Engineering Technician III
LMH

Enclosures

cc: AWF
WI Owners
JTC