

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-4
Form must be typed
March 2009

APPLICATION FOR COMMINGLING OF
PRODUCTION (K.A.R. 82-3-123) OR FLUIDS (K.A.R. 82-3-123a)

Commingling ID # CD071109

OPERATOR: License # 32446
Name: Merit Energy Company
Address 1: 13727 Noel Rd.
Address 2: Suite 500
City: Dallas State: TX Zip: 75240 +
Contact Person: CHERYL PATRICK
Phone: (972) 628-1504

API No. 15 - 067-21460 0002
Spot Description: _____
N2 NE NE Sec. 2 Twp. 30 S. R. 35 ☐ East ☒ West
510 Feet from ☐ North / ☒ South Line of Section
660 Feet from ☐ East / ☒ West Line of Section
County: GRANT
Lease Name: WANDER A Well #: 4

- ☒ 1. Name and upper and lower limit of each production interval to be commingled:
- | | |
|-----------------------------------|------------------------------|
| Formation: <u>Kansas City "A"</u> | (Perfs): <u>4546 - 4552'</u> |
| Formation: <u>Morrow Sand</u> | (Perfs): <u>5311 - 5360'</u> |
| Formation: _____ | (Perfs): _____ |
| Formation: _____ | (Perfs): _____ |
| Formation: _____ | (Perfs): _____ |
- ☒ 2. Estimated amount of fluid production to be commingled from each interval:
- | | | | |
|-----------------------------------|-----------------|------------------|------------------|
| Formation: <u>Kansas City "A"</u> | BOPD: <u>20</u> | MCFPD: <u>11</u> | BWPD: <u>100</u> |
| Formation: <u>Morrow Sand</u> | BOPD: <u>10</u> | MCFPD: <u>4</u> | BWPD: <u>100</u> |
| Formation: _____ | BOPD: _____ | MCFPD: _____ | BWPD: _____ |
| Formation: _____ | BOPD: _____ | MCFPD: _____ | BWPD: _____ |
| Formation: _____ | BOPD: _____ | MCFPD: _____ | BWPD: _____ |
- ☒ 3. Plat map showing the location of the subject well, all other wells on the subject lease, and all wells on offsetting leases within a 1/2 mile radius of the subject well, and for each well the names and addresses of the lessee of record or operator.
- ☒ 4. Signed certificate showing service of the application and affidavit of publication as required in K.A.R. 82-3-135a.

For Commingling of PRODUCTION ONLY, include the following:

- ☒ 5. Wireline log of subject well. Previously Filed with ACO-1: ☐ Yes ☐ No
☒ 6. Complete Form ACO-1 (Well Completion form) for the subject well.

For Commingling of FLUIDS ONLY, include the following:

- ☐ 7. Well construction diagram of subject well.
☐ 8. Any available water chemistry data demonstrating the compatibility of the fluids to be commingled.

AFFIDAVIT: I am the affiant and hereby certify that to the best of my current information, knowledge and personal belief, this request for commingling is true and proper and I have no information or knowledge, which is inconsistent with the information supplied in this application.

Signature: M Cheryl Patrick
Printed Name: M Cheryl Patrick
Title: Regulatory Analyst

KCC Office Use Only

☐ Denied ☐ Approved

15-Day Periods Ends: 7/23/2011

Approved By: _____ Date: _____

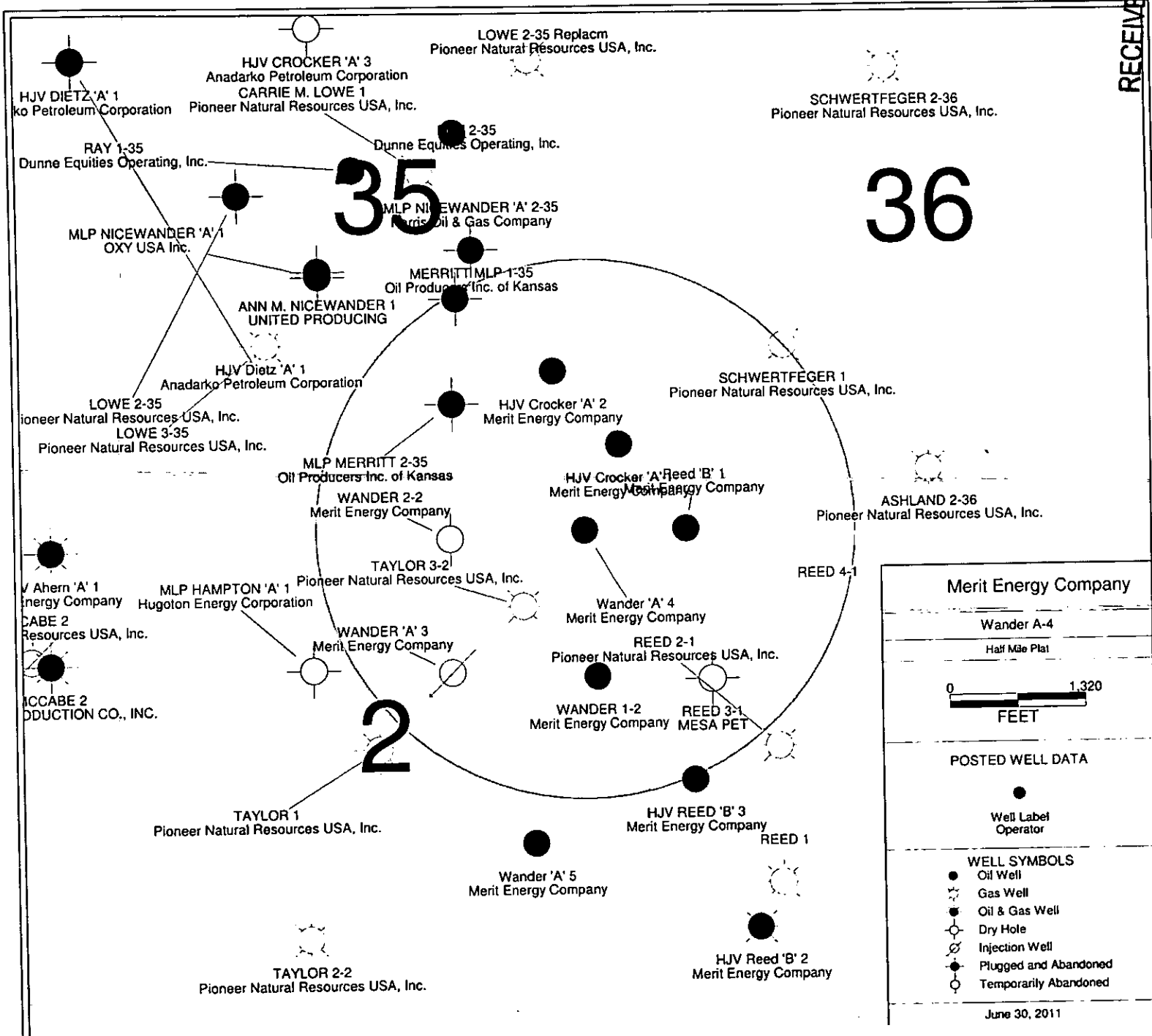
Protests may be filed by any party having a valid interest in the application. Protests must be in writing and comply with K.A.R. 82-3-135b and must be filed within 15 days of publication of the notice of application.

(Pub. Rev'n 7/28/11)
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JUL 06 2011
KCC WICHITA

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KCC WICHITA



MERIT ENERGY COMPANY
13727 NOEL RD. STE. 500
DALLAS, TX 75240
OPERATOR NO. 32446

AFFIDAVIT OF MAILING

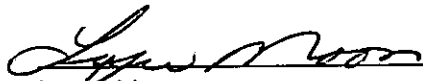
API# 15-067-21460
Sec. 02- 30S-R35W
N2-NE-NE
Grant County, Kansas

This is to certify that MERIT ENERGY COMPANY has notified the following Offset Operator of our application to commingle the Kansas City "A", Morrow Sand and Upper Morrow zones in the Wander A #4 located approximately N2 NE NE Sec.2- 30S 35 W in Grant County, Kansas on July 5th, 2011



M. Cheryl Patrick / South Division Regulatory Analyst

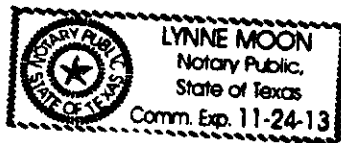
Subscribed and sworn to before me is this on the 5th day of July, 2011.



Lynne Moon
Notary Public

OFFSET OPERATOR

Pioneer Natural Resources
5205 N. O'Connor Blvd. Ste.200
Irving, TX 75039



No Unleased Mineral in ½ Radius

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MERIT ENERGY COMPANY

13727 Noel Road · Suite 500 · Dallas, Texas 75240
Ph 972.701.8377 · Fx 972.960.1252 · www.meritenergy.com

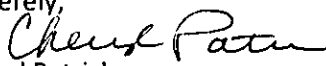
July 26, 2011

Kansas Corporation Commission
Conservation Division
130 S. Market, Rm 2078
Wichita, KS 67202-3802

Re: Application to Commingle
Wander "A" Well No. 4
API # 15-067-21460
Grant County, Kansas

Enclosed please find the Affidavits of Publication from the Grant County Newspaper and the Wichita Eagle. If additional information is required please contact me at 972-628-1504 or email: Cheryl.Patrick@meritenergy.com

Sincerely,


Cheryl Patrick
Regulatory Analyst
Merit Energy Company, LLC

KANSAS CORPORATION COMMISSION

JUL 28 2011
RECEIVED

PUBLIC NOTICE

Published in The Ulysses News on Thursday,
July 7, 2011, 1x

BEFORE THE STATE CORPORATION COMMISSION OF
THE STATE OF KANSAS

NOTICE OF FILING APPLICATION

Re: Merit Energy Company- Application for the permit to authorize the commingling of zones in the Wander "A" Well No. 4 located in Grant County, Kansas.

To: All Oil and Gas Producers, Unleased Mineral Interest Owners, Landowners and all persons whomever concerned.

You, and each of you, are hereby notified that Merit Energy Company has filed an application to commingle the Kansas City "A", Morrow Sand and Upper Morrow zones in the Wander A #4, located approximately N2 NE NE Sec.2- 30S, 35W in Grant County, Kansas.

All persons who object to or protest this application shall be required to file their objections or protests with the Conservation Commission of the State of Kansas within (15) days from the date of this publication. These protests shall be filed pursuant to Commission regulations and must state specific reasons why granting of the application may cause waste, violate correlative rights or pollute the natural resources of the State of Kansas.

All persons interested or concerned shall take notice of the foregoing and shall govern themselves accordingly.

Merit Energy Company
13727 Noel Road
Suite 500
Dallas, TX 75240
972-628-1504

AFFIDAVIT OF PUI

STATE OF KANSAS}
COUNTY OF GRANT} SS.

Kendra Bruce, being first duly sworn, and says:

That she is the Advertising Representative for The Ulysses News, weekly newspaper printed in the State of Kansas, and published in ar of general circulation in Grant County, Kansas, with a general paid ci culation on a weekly basis in Grant County, Kansas, and that said new paper is not a trade, religious or fraternal publication.

Said newspaper is a weekly published at least weekly 50 times a yea has been so published continuously and uninterruptedly in said couni and state for a period of more than five years prior to the first publicatic of said notice; and has been admitted at the post office of Ulysses in sai County as second class matter.

That the attached notice is a true copy thereof and was published in th regular and entire issue of said newspaper for one consecutive week the first publication thereof being made as aforesaid on the 7th day of July, 2011, with subsequent publications being mac on the following dates:

_____, 2011

_____, 2011

_____, 2011

(Sign)

Kendra H Bruce

Subscribed and sworn to before me this 28th day of

July, 2011.
Shayla Hernandez-Jaquez (Notary Public)

My commission expires

12/31/11

(stamp)



Publication fee

\$ 90.85

Notary fee

\$ 0

Additional copies

\$ 0

Total Fee

\$ 90.85

KANSAS CORPORATION COMMISSION

JUL 28 2011
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AFFIDAVIT

STATE OF KANSAS \
- SS.
County of Sedgwick /

Mark Fletchall, of lawful age, being first duly sworn, depose and saith: That he is Record Clerk of The Wichita Eagle, a daily newspaper published in the City of Wichita, County of Sedgwick, State of Kansas, and having a general paid circulation on a daily basis in said County, which said newspaper has been continuously and uninterruptedly published in said County for more than one year prior to the first publication of the notice hereinafter mentioned, and which said newspaper has been entered as second class mail matter at the United States Post Office in Wichita, Kansas, and which said newspaper is not a trade, religious or fraternal publication and that a notice of a true copy is hereto attached was published in the regular and entire Morning issue of said The Wichita Eagle for 1 issues, that the first publication of said notice was

made as aforesaid on the 8th of

July A.D. 2011, with

subsequent publications being made on the following dates:

And affiant further says that he has personal knowledge of the statements above set forth and that they are true.

Mark Fletchall

Subscribed and sworn to before me this

8th day of July, 2011



Penny L Case
Notary Public Sedgwick County, Kansas

Printer's Fee : \$98.80

LEGAL PUBLICATION

Published in The Wichita Eagle
July 8, 2011 (3127769)

BEFORE THE STATE CORPORATION
COMMISSION OF THE
STATE OF KANSAS

NOTICE OF FILING APPLICATION

Re: Merit Energy Company- Application for the permit to authorize the commingling of zones in the Wander "A" Well No. 4 located in Grant County, Kansas.

To: All Oil and Gas Producers, Unleased Mineral Interest Owners, Landowners and all persons whomsoever concerned.

You, and each of you, are hereby notified that Merit Energy Company has filed an application to commingle the Kansas City "A" and Morrow Sand zones in the Wander A #4, located approximately N2 NE NE Sec.2- 30S, 35W in Grant County, Kansas.

All persons who object to or protest this application shall be required to file their objections or protests with the Conservation Commission of the State of Kansas within (15) days from the date of this publication. These protests shall be filed pursuant to Commission regulations and must state specific reasons why granting of the application may cause waste, violate correlative rights or pollute the natural resources of the State of Kansas.

All persons interested or concerned shall take notice of the foregoing and shall govern themselves accordingly.

Merit Energy Company
13727 Noel Road, Suite 500
Dallas, TX 75240
972-628-1504

KANSAS CORPORATION COMMISSION

JUL 28 2011

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MERIT ENERGY COMPANY

13727 Noel Road · Suite 500 · Dallas, Texas 75240
Ph 972.701.8377 · Fx 972.960.1252 · www.meritenergy.com

July 5, 2011

Kansas Corporation Commission
Conservation Division
130 S. Market, Rm 2078
Wichita, KS 67202-3802

Re: Application to Commingle
Wander "A" Well No. 4
Sec.2- T30S R34W
Grant County, Kansas

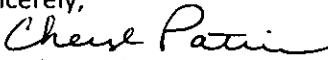
Attached please find Commingle Application for the Wander A #4 for your approval. Included is the original plus two copies of the following:

- 1) Form ACO-4
- 2) ½ Mile Radius Plat
- 3) Affidavit of Notification
- 4) Induction Log of Wander A #4
- 5) Original ACO-1 (Adadarko- Morrow Completion)
- 6) Workover ACO-1 (Merit – Kansas City "A")

Affidavits of publication will be forwarded to KCC as soon as they are received it from the Grant County Newspaper and the Wichita Eagle.

If additional information is required please contact me at 972-628-1504 or email:
Cheryl.Patrick@meritenergy.com

Sincerely,


Cheryl Patrick
Regulatory Analyst
Merit Energy Company, LLC

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KCC WICHITA

FORM MUST BE TYPED

SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND

CONFIDENTIALOperator: License # 4549Name: ANADARKO PETROLEUM CORPORATIONAddress P. O. BOX 351City/State/Zip LIBERAL, KANSAS 67905-0351Purchaser: CLEAR CREEKOperator Contact Person: SHAWN YOUNGPhone (316) 624-6253Contractor: Name: DUKE DRILLINGLicense: 5929

Wellsite Geologist: _____

Designate Type of Completion
☒ New Well ☐ Re-Entry ☐ Workover

☒ Oil ☐ SMD ☐ SIOW ☐ Temp. Abd.
☐ Gas ☐ ENHR ☐ SIGW
☐ Dry ☐ Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

☐ Deepening ☐ Re-perf. ☐ Conv. to Inj/SMD
☐ Plug Back ☐ PBDT
☐ Commingled ☐ Docket No. _____
☐ Dual Completion ☐ Docket No. _____
☐ Other (SMD or Inj?) ☐ Docket No. _____

4/7/2000 4/16/2000 4/28/2000
Spud Date Date Reached TD Completion Date

API NO. 15- 067-21460County GRANT

150' N OF _____ E

_____ C - NE - NE Sec. 2 Twp. 30S Rge. 35 X W_____ 510 Feet from NYX (circle one) Line of Section_____ 660 Feet from EX (circle one) Line of SectionFootages Calculated from Nearest Outside Section Corner:
NE SE, NW or SW (circle one)Lease Name WANDER "A" Well # 4Field Name RYUS EProducing Formation MORROWElevation: Ground 3023 KB _____Total Depth 5674 PBDT 5468Annulus of Surface Pipe Set and Cemented at 1796 FeetMultiple Stage Cementing Collar Used? ☒ Yes ☐ NoIf yes, show depth set 3326 Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan See 12.14.04
(Data must be collected from the Reserve Pit)Chloride content 900 ppm Fluid volume 700 bblsDewatering method used DRY, BACKFILL & RESTORE LOCATION

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

_____ Quarter Sec. _____ Twp. _____ S Rng. _____ E/W

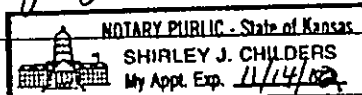
County _____ Docket No. _____

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 on 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 L. Marc Harvey 5-19-2000Title DRILLING TECHNICAL ASSISTANT Date 5/19/00Subscribed and sworn to before me this 19th day of May 192000Notary Public Shirley J. Childers

Date Commission Expires _____



K.C.C. OFFICE USE ONLY
☒ Letter of Confidentiality Attached
☐ Wireline Log Received
☐ Geologist Report Received

Distribution
☐ KCC ☐ SMD/Rep ☐ NGPA
☐ KGS ☐ Plug ☐ Other
(Specify)

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Form ACO-1 (7-91)

JUL 06 2011

KCC WICHITA

SIDE TWO

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name WANDER "A" Well # 4
 Sec. 2 Twp. 30S Rge. 35 ☐ East ☒ West
 County GRANT

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

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-CCL-GR, DIL, CNL-LDT-ML.

☒ Log Formation (Top), Depth and Datums ☐ Sample

| Name | Top | Datum |
|---------------|------|---------------------|
| COUNCIL GROVE | 2830 | CHESTER 5540 |
| NEVA | 3024 | STE. GENEVIEVE 5630 |
| ADMIRE | 3108 | |
| WABAUNSEE | 3246 | |
| TOPEKA | 3553 | |
| HEEBNER | 4000 | |
| TORONTO | 4022 | |
| LANSING | 4066 | |
| KANSAS CITY | 4546 | |
| MARMATON | 4708 | |
| PAWNEE | 4865 | |
| CHEROKEE | 4920 | |
| ATOKA | 5034 | |
| MORROW | 5290 | |

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" | 23.0 | 1796 | CLASS C/ CLASS C. | 475/100 | 3XD79, 1/2#/SK D29/ 2XS1, 1/2#/SK D29. |
| PRODUCTION | 7-7/8" | 5-1/2" | 15.5 | 5531 | CLASS H/ LITECRETE. | 25/210 | 3XD79/ LITECRETE BLEND. |
| | | | PORT COLLAR @ | 3326 | CLASS C | 100 | 3XD79, .2XD46, 1/2#/SK D29. |

ADDITIONAL CEMENTING/SQUEEZE RECORD

| Purpose: | Depth Top Bottom | Type of Cement | #Sacks Used | Type and Percent Additives |
|--------------------|------------------|----------------|-------------|----------------------------|
| ___ Perforate | | | | |
| ___ Protect Casing | | | | |
| ___ Plug Back TD | | | | |
| ___ 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 |
|--|---|--|---|
| 4 | 5356-60. | NONE. | |
| | | | |
| | | | |
| | | | |
| TUBING RECORD | Size 2 3/8" Set At 5392 Packer At | Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| Date of First, Resumed Production, SMD or Inj. 5/9/2000 | | Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) | |
| Estimated Production Per 24 Hours | Oil 950 Bbls. | Gas TSTM Mcf | Water Bbls. Gas-Oil Ratio TSTM Gravity 35 |

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

☐ Vented ☒ Sold ☐ Used on Lease
 (If vented, submit ACO-18.)

☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled

☐ Other (Specify) _____

5356-60

CONFIDENTIAL

ORIGINAL

SURFACE

Schlumberger
Dowell

Service Order

*DUKE 6
Surface
Wander A-4*

| | | | | | | | | | | | | | | | |
|---|--|---|-------------------------------------|---------------------------------------|---------------------------------------|--|---------------------------------------|-------------------------------|-----------------------------|---------------------------------|--|--------------|--|---------------|--|
| Customer ANADARKO PETROLEUM CORPORATION | | Person Taking Call Stephen Cole | | Dowell Location Ulysses, KS | | Order Date 04/05/2000 | | Job Number 20152515 | | | | | | | |
| Well Name and Number WANDER A-4 | | | Legal Location 02-30S-35W | | Field RYUS EAST | | County GRANT | | State/Province KS | | | | | | |
| Rig Name DUKE 6 | | | Well Age New | | Sales Engineer Stephen Cole | | Job Type Cem Surface Casing | | | | | | | | |
| Time Well Ready: | | Deviation 0 | | Bit Size 12.3 in | | Well BHD 1,800 ft | | Well TVD 1,800 ft | | BHP psi | | | | | |
| | | | | | | | | BHST 80 °F | | BHDT 80 °F | | | | | |
| Trust Down Casing | | Packer Type None | | Packer Depth ft | | Wellhead Construction 8 5/8 HS&M | | KDP on Location 0 | | Max Allowed Pressure | | | | | |
| | | | | | | | | | | Max Allowed Ann Pressure | | | | | |
| Casing: | | | | | | Services Instructions: 8 5/8 surface set @ approximately 1800' 475 sk C + 3% D79 + 1/2 pps D29 @ 11.4 ppg 100 sk C + 2% S1 + 1/4 pps D29 @ 14.8 ppg KCC MAY 9 2000 CONFIDENTIAL | | | | | | | | | |
| Depth, ft | | Size, in | | Weight, lbf/ft | | | | | | | | Grade | | Thread | |
| 1800 | | 8.63 | | 23 | | | | | | | | WC-50 | | 8RD | |
| Tubing: | | | | | | Extra Equipment: 8 5/8 FLOAT EQUIPMENT Office fill insert, TX pattern guide shoe, 4 centralizers (first 3 joints and one 80' from surface) Cement basket (80' from surface) 1 top plastic plug, 1 threadlock kit | | | | | | | | | |
| Depth, ft | | Size, in | | Weight, lbf/ft | | | | | | | | Grade | | Thread | |
| 0 | | 0 | | 0 | | | | | | | | | | | |
| Perforated Intervals: | | | | | | | | | | | | | | | |
| Top, R | | Bottom, R | | SP | | No. of Shots | | Total Interval | | Diameter | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

| Contact | Voice | Mobile | FAX | Notes |
|---------------------|------------------|--------------|--------------|----------------|
| Jim Barlow | 316-629-4350 | 281-543-2343 | 316-624-8396 | |
| Rick Schollenbarger | RIG 316-621-2698 | 580-651-4576 | Tool Pusher | |
| Stephen Cole | 316-624-8432 | 405-880-3398 | 316-624-7341 | 353-0515 pager |

Notes:

Well: 63023 7327

RECEIVED
STATE CORPORATION COMMISSION

Directions:
RYUS - 1 S - W and S into.

MAY 23 2000

CONSERVATION DIVISION
Wichita, Kansas

Other Notes:

Circ 30 861 cmf to pit

RECEIVED
JUL 06 2011
KCC-WICHITA

CONFIDENTIAL

Comments:

Fluid Systems:

| HEAD | | | |
|---------------------------------|--------------|---------------------|------------------------|
| 475 sk C + 3% D79 + 1/2 pps D29 | | | |
| Density: | 11.4 | lb/gal | Thickening Time: |
| Yield: | 2.87 | ft ³ /sk | Viscosity: cp |
| H2O Mbc: | 17.7 | gal/sk | Break Time: |
| H2O: | 8407.5 | gal | Eq. Sack Weight: 94 lb |
| Dowell Code | Conc. Amount | | Total Quantity |
| D029 | 0.5 | lbs/sk | 237.5 |
| D079 | 3 | % BWOB | 1339.5 |
| D903 'C' | 94 | lbs/sk | 44650 |

| TAIL | | | |
|--------------------------------|--------------|---------------------|------------------------|
| 100 sk C + 2% S1 + 1/4 pps D29 | | | |
| Density: | 14.8 | lb/gal | Thickening Time: 2:00 |
| Yield: | 1.32 | ft ³ /sk | Viscosity: cp |
| H2O Mbc: | 6.35 | gal/sk | Break Time: |
| H2O: | 635 | gal | Eq. Sack Weight: 94 lb |
| Dowell Code | Conc. Amount | | Total Quantity |
| D029 | 0.25 | lbs/sk | 25 |
| S001 | 2 | % BWOB | 188 |
| D903 'C' | 94 | lbs/sk | 8400 |

CONFIDENTIAL

ORIGINAL



Service Order

16-Apr-00

| Customer ANADARKO PETROLEUM CORPORATION | | Person Taking Call Dave Brawley | | Dowell Location Ulysses, KS | | Order Date 4/16/00 | | Job Number 20154069 | | | | | | | | | | | | | | | | |
|--|------------|---|--------------|---------------------------------------|-----------|--|---------------|--------------------------------------|----------------|------|-----|------|---|------|---|---|---|---|-------------|--|---|---|---|------|
| Well Name and Number WANDER 'A' 4 | | Legal Location 2, 30S, 35W | | Field RYUS E | | County Grant | | State/Province KS | | | | | | | | | | | | | | | | |
| Rig Name Duke Drilling #5 | | Well Age New | | Sales Engineer Stephen Cole | | Job Type Cem Prod Casing | | | | | | | | | | | | | | | | | | |
| Time Well Ready: | | Deviation 0 | | Bit Size 7.88 in | | Well MD 5,600 ft | | Well TVD 5,600 ft | | | | | | | | | | | | | | | | |
| | | | | | | BHP 0 psi | | BHCT 130 °F | | | | | | | | | | | | | | | | |
| | | | | | | | | BHCT 115 °F | | | | | | | | | | | | | | | | |
| Treat Down Casing | | Packer Type None | | Packer Depth 0 ft | | Wellhead Connection Single cement head | | NRP on Location 0 | | | | | | | | | | | | | | | | |
| | | | | | | Max Allowed Pressure 2000 | | Max Allowed Ann Pressure 0 | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Depth, ft</th> <th>Size, in</th> <th>Weight, lb/ft</th> <th>Grade</th> <th>Thread</th> </tr> </thead> <tbody> <tr> <td>5600</td> <td>5.5</td> <td>15.5</td> <td></td> <td></td> </tr> <tr> <td>0</td> <td>0</td> <td>0</td> <td></td> <td></td> </tr> </tbody> </table> | | | | | Depth, ft | Size, in | Weight, lb/ft | Grade | Thread | 5600 | 5.5 | 15.5 | | | 0 | 0 | 0 | | | Services Instructions: KCC 4/19/00 Top 1/2 Plug | | | | |
| Depth, ft | Size, in | Weight, lb/ft | Grade | Thread | | | | | | | | | | | | | | | | | | | | |
| 5600 | 5.5 | 15.5 | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Depth, ft</th> <th>Size, in</th> <th>Weight, lb/ft</th> <th>Grade</th> <th>Thread</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>0</td> <td></td> <td></td> </tr> <tr> <td>0</td> <td>0</td> <td>0</td> <td></td> <td></td> </tr> </tbody> </table> | | | | | Depth, ft | Size, in | Weight, lb/ft | Grade | Thread | 0 | 0 | 0 | | | 0 | 0 | 0 | | | | | | | |
| Depth, ft | Size, in | Weight, lb/ft | Grade | Thread | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Top, ft</th> <th>Bottom, ft</th> <th>sq ft</th> <th>No. of Shots</th> <th>Total Interval</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0 ft</td> </tr> <tr> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>Distributor</td> </tr> <tr> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0 in</td> </tr> </tbody> </table> | | | | | Top, ft | Bottom, ft | sq ft | No. of Shots | Total Interval | 0 | 0 | 0 | 0 | 0 ft | 0 | 0 | 0 | 0 | Distributor | 0 | 0 | 0 | 0 | 0 in |
| Top, ft | Bottom, ft | sq ft | No. of Shots | Total Interval | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 ft | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | Distributor | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 in | | | | | | | | | | | | | | | | | | | | |
| Extra Equipment: 5 1/2 Head, Manifold & Sauge 5 1/2 Top Plug | | | | | | | | | | | | | | | | | | | | | | | | |

| Customer | Phone | Address | City | State | Zip |
|------------------|--------------|---------|------|-------|-----|
| Chris Sutherland | 316-624-4325 | | | | |

Notes:

- 1- 5 1/2 Guide Shoe
 26- 5 1/2 Centralizers
 2- 5 1/2 Port Collars
 1- 5 1/2 Office Fill Insert
 2- 5 1/2 Cement Baskets
 3- Thread Lock Kits

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Directions:

UKS 14 east, south to Ryus, 1 west, south & west into.

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 CONSERVATION DIVISION
 WICHITA, KANSAS

Other Notes:

50 sbs Class H in trailer behind combo. Use 25 sbs to pump before LITECRETE and 25 sbs for rat and mouse hole.

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Comments:

Fluid Systems:

| Class H | | | |
|----------|-------------------------|------------------|-------|
| Density: | 11.1 lb/gal | Thickening Time: | |
| Yield: | 3.2 ft ³ /sk | Viscosity: | cp |
| H2O Mix: | 20.3 gal/sk | Break Time: | |
| H2O: | 1015 gal | Eq. Sack Weight: | 94 lb |
| D079 | 3 | % BWOB | 141 |
| D909 | 94 | lb/sk | 4700 |

| 210 (units) / TCRETE | | | |
|----------------------|--------------------------|------------------|----------|
| Density: | 11.08 lb/gal | Thickening Time: | 3.07 hrs |
| Yield: | 1.83 ft ³ /sk | Viscosity: | cp |
| H2O Mix: | 6.14 gal/sk | Break Time: | |
| H2O: | 1289.4 gal | Eq. Sack Weight: | 100 lb |
| D048 | 0.1 | % BWOB | 21 |
| D167 | 0.15 | % BWOB | 31.5 |
| D065 | 0.5 | % BWOB | 105 |
| D135 | 0.02 | gal/sk | 4.2 |
| D124 | 29.22 | % BWOB | 6138.2 |
| D164 | 11.41 | % BWOB | 2396.1 |
| D903 | 59.38 | % BWOB | 12469.8 |

ADD TOGETHER COMPLIES BLEND

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ORIGINAL

DRAFT

Service Order Receipt

SO# 424273

CONFIDENTIAL

Dowell

Dowell, A Division of Schlumberger Technology Corp.

702 E. Brillhart St.

Perryton, TX

Job Number: 2015-2271

Invoice Mailing Address:
ANADARKO PETROLEUM CORPHCO1, BOX 48C
HUGOTON, KS 67851
US

| ARRIVE LOCATION | Date | Time |
|-----------------|------|------|
| JOB START | Date | Time |
| JOB COMPLETION | Date | Time |
| LEAVE LOCATION | Date | Time |

Service Instructions
Cmt port collar as requested by customer.

Service Description

Cementing - Cam Tie Back Casing

Port Collar

| | | | |
|-------------|---------------------------------------|------------------|----------------|
| Customer PO | Contract | AFE | Fig |
| 0 | 0 | 0 | |
| Well | County/Province | Country/Province | Legal Location |
| WANDER A-4 | KANSAS | GRANT | |
| Field | Customer or Authorized Representative | | |
| HUGOTON | anadarko | | |

| Item | Description | Quantity | Unit | Unit Price | Amount |
|--------------------|--|----------|------|------------|----------|
| Services | | | | | |
| 102871040 | Casing Cmt 3501-4000 1st 4hr | 1 | EA | 1,950.00 | 1,950.00 |
| 49100000 | Service Chg Cement Mtd Land All DW Fur | 105 | TOL | CF | 1.80 |
| 49102000 | Transportation Cement Ton Mile | 148 | MI | 1.40 | 207.20 |
| 59200002 | Mileage, All Other Equipment | 30 | MI | 3.75 | 112.50 |
| 59697004 | PRISM | 1 | JOB | 735.00 | 735.00 |
| Services Subtotal: | | | | | 3,202.20 |

| | | | | | |
|--------------------|---------------------------------|-----|-----|------|----------|
| Products | | | | | |
| D029 | Cellaphane Flake D29 | 25 | LB | 2.14 | 53.50 |
| D046 | Antifoam Agent, All Purpose D46 | 18 | LB | 4.13 | 74.34 |
| D079 | Extender, Chemical D79 | 300 | LB | 1.75 | 525.00 |
| D909 | Cement, Class H D909 | 101 | TOL | CF | 11.71 |
| Products Subtotal: | | | | | 1,223.84 |

Subtotal (Before Discount): 5,826.14

Discount: 1,288.54

Special Discount: 0.00

Estimated Total (USD): 3,789.61

The estimated charges above are subject to correction by Dowell.

Service Receipt: I certify that the materials and services listed were received and all services performed in a workable manner.

Signature of Customer or Authorized Representative

Brett Bunn

anadarko

Signature of Dowell Representative

Erik Halpain

Thank you for Calling Dowell!

38 7/31

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MAY 23 2000

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JUL 06 2011CONSERVATION DIVISION
Wichita, Kansas

KCC-WICHITA

KCS 97 v2.1-SOR

5-19-2001

ANADARKO PETROLEUM CORPORATION

PHONE 318 - 824 - 6253 • 1701 NORTH KANSAS AVE. • P.O. BOX 351 • LIBERAL, KANSAS 67905 - 0351



May 19, 2000

CONFIDENTIAL

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

Attn: Jeff Klock

Re: Wander "A" No. 4
Section 2-30S-35W
Grant County, Kansas

Dear Mr. Klock:

Attached in triplicate is the Affidavit of Completion (ACO-1 Well History), a set of well logs and the cementing tickets on 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
Drilling Technical Assistant
LMH/sjc

Enclosures

cc: Well File
TRC - HGO
Manager Land Administration - HGO
WI Owners

Wander A-4.doc

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CONSERVATION DIVISION
Wichita, Kansas

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JUL 06 2011

KCC WICHITA



COMPANY ANDARKO PETROLEUM CORP.
WELL WANDER #A-4
FIELD RYUS EAST
COUNTY GRANT STATE KS

| | | | |
|----------|---------------------|-----------------------------------|-----|
| COMPANY | | ANDARKO PETROLEUM CORP. | |
| WELL | | WANDER #A-4 | |
| FIELD | | RYUS EAST | |
| COUNTY | GRANT | STATE | KS |
| API No. | 15-067--2146 | Other Services SD/DSN MICRO | |
| Location | 510' FNL & 660' FEL | | |
| Sect 2 | Twp 30S | Rge | 35W |

| | | | |
|------------------------|----|------|-----------------------|
| Permanent Datum | GL | Elev | 3023.9 |
| Log measured from | GL | | ft. above perm. datum |
| Drilling measured from | GL | | |

| | | |
|---------|------|---------------|
| Elev. : | K.B. | <u>3035.9</u> |
| | D.F. | <u>3034.9</u> |
| | GL | <u>3023.9</u> |

| | | | | |
|--------------------------|---------------|---------------|------------|---|
| Date | 4-15-00 | | | |
| Run No. | ONE | | | |
| Depth - Driller | 5679' | | | |
| Depth - Logger | 5674' | | | |
| Bottom - Logged Interval | 5660' | | | |
| Top - Logged Interval | 1800' | | | |
| Casing - Driller | 8.625 @ 1800' | @ | @ | @ |
| Casing - Logger | 1800' | | | |
| Bit Size | 7.875" | | | |
| Type Fluid in Hole | CHEM | | | |
| Dens. Visc. | 9.2 48 | | | |
| Ph Fluid Loss | 9.3 8.4 | | | |
| Source of Sample | FLOWLINE | | | |
| Rm @ Meas. Temp. | 3.5 @ 61 F | @ | @ | @ |
| Rm1 @ Meas. Temp. | 2.9 @ 62 | @ | @ | @ |
| Rmc @ Meas. Temp. | 3.9 @ 62 | @ | @ | @ |
| Source Rm1 Rmc | MEASQ MEAS | | | |
| Rm @ BHT | 1.814 @ 124 F | @ | @ | @ |
| Time Since Circ. | N/A | | | |
| Time on Bottom | 1930 4-15 | | | |
| Max. Rec. Temp. | 124 @ T.D. | @ | @ | @ |
| Equip. Location | 51781 UB. | | | |
| Recorded By | J. BORELL | | | |
| Witnessed By | M. DODGE | C. SUTHERLAND | B. BANNING | |

EXCELLENCE

Plot Time: 04-15-2000 23:58:08
Log Time: 04-15-2000 21:50:05

Top Depth: -59.42
Bottom Depth: 5680.00

DETAIL SECTION 5"=100'

RECEIVED



```

Version No: 4.0 | hc:3.0
Data File: andark_hrl_maf1.4.cis
Format File: plot_01_1.spc
Plot Time: 04-15-2000 23:54:54
Log Time: 04-15-2000 21:50:05

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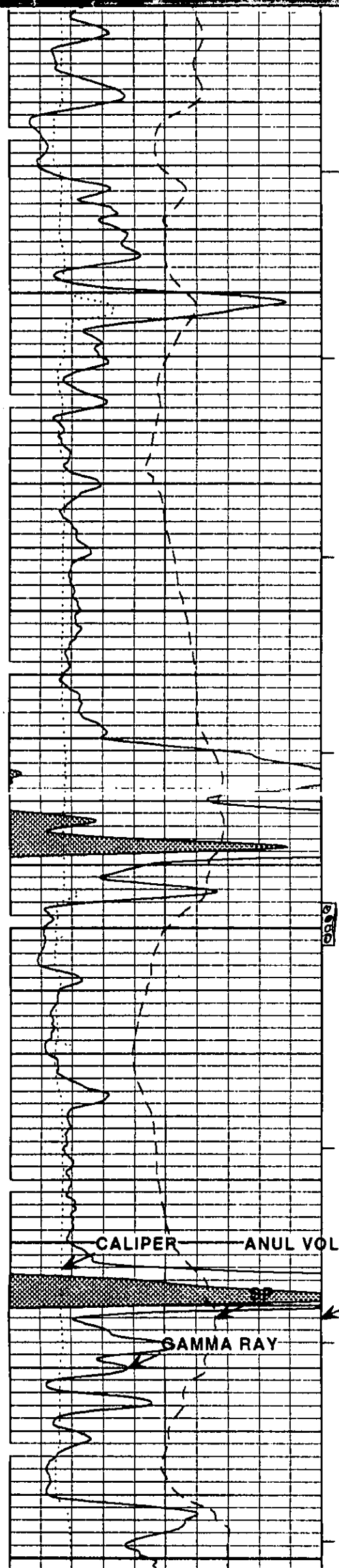
JUL 06 2011

KCC WICHITA

Top Depth: -59.25
Bottom Depth: 5680.00

| | | | | | |
|-----------|------------|--------------|----------|--------------|-------------|
| GAMMA RAY | | ANUL VOL MK | | DEEP RES | |
| 0 | API COUNTS | 150 | 50 FT3 0 | .2 | OHM-MD 2000 |
| SP | | BH VOLUME MK | | MED RES | |
| -]20[+ | | 0 | FT3 50 | .2 | OHM-M 2000 |
| CALIPER | | 1:240 | | DFL | |
| 6 | INCHES | 16 | FT. | .2 | OHM-M 2000 |
| | | | | .2 | MSFL |
| | | | | | OHMM 2000 |
| | | | | RXO/RT | |
| | | | | 2 | - .6 |
| | | | | SURF TENSION | |
| | | | | 10000 | POUNDS 0 |





4500

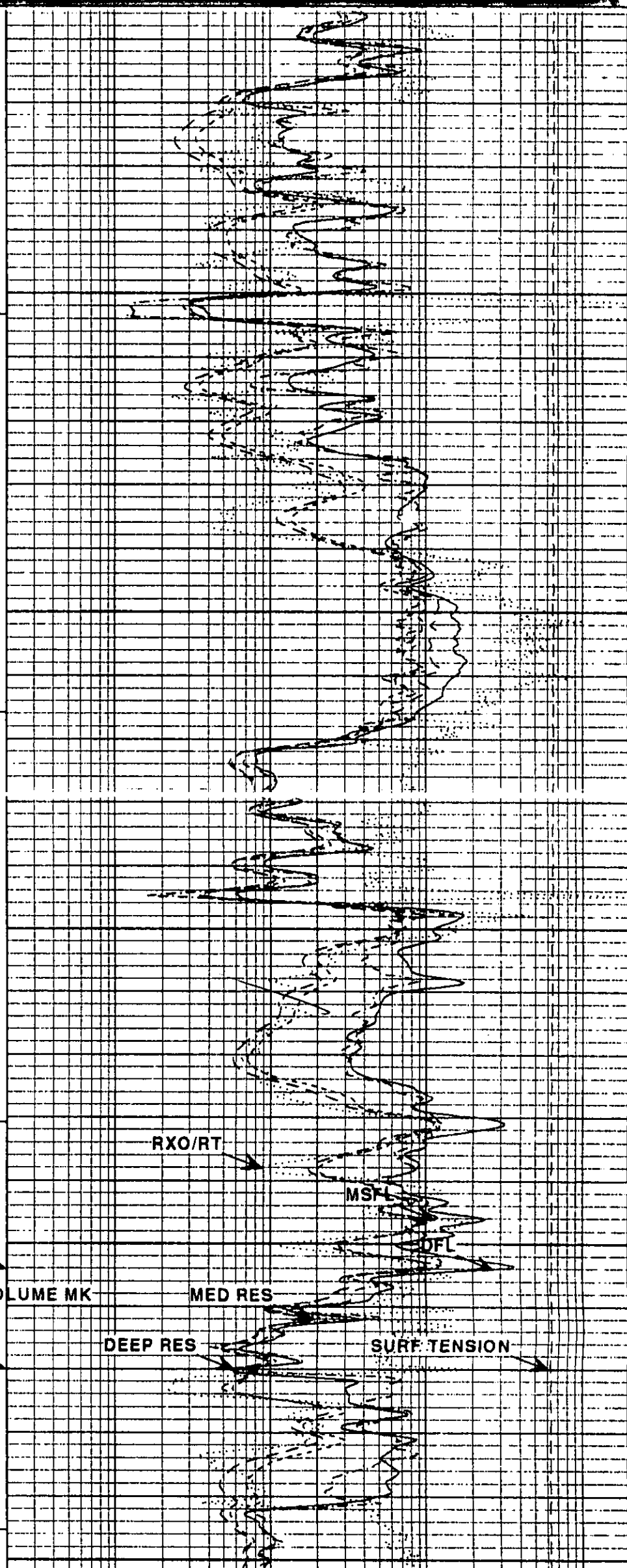
CALIPER

ANUL VOL MK

BP

BH VOLUME MK

GAMMA RAY



RXO/RT

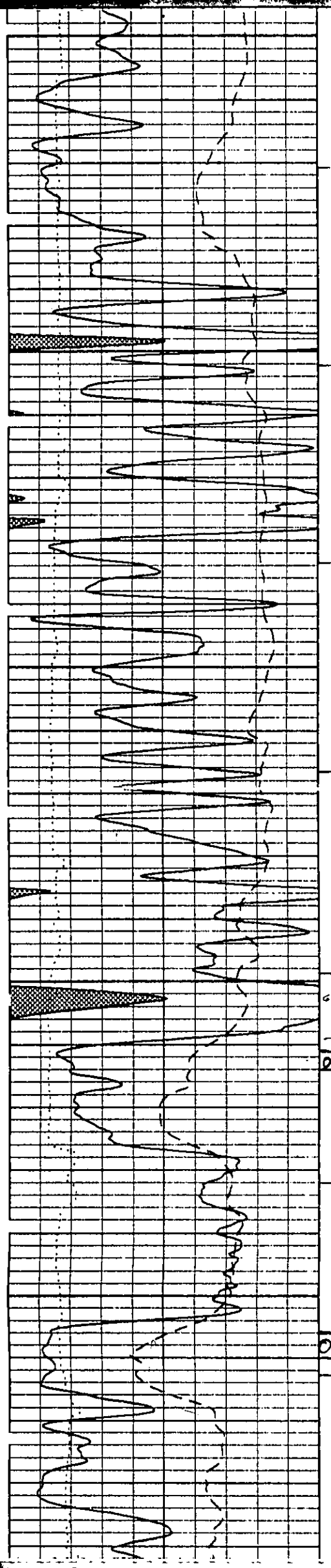
MSF

OFL

MED RES

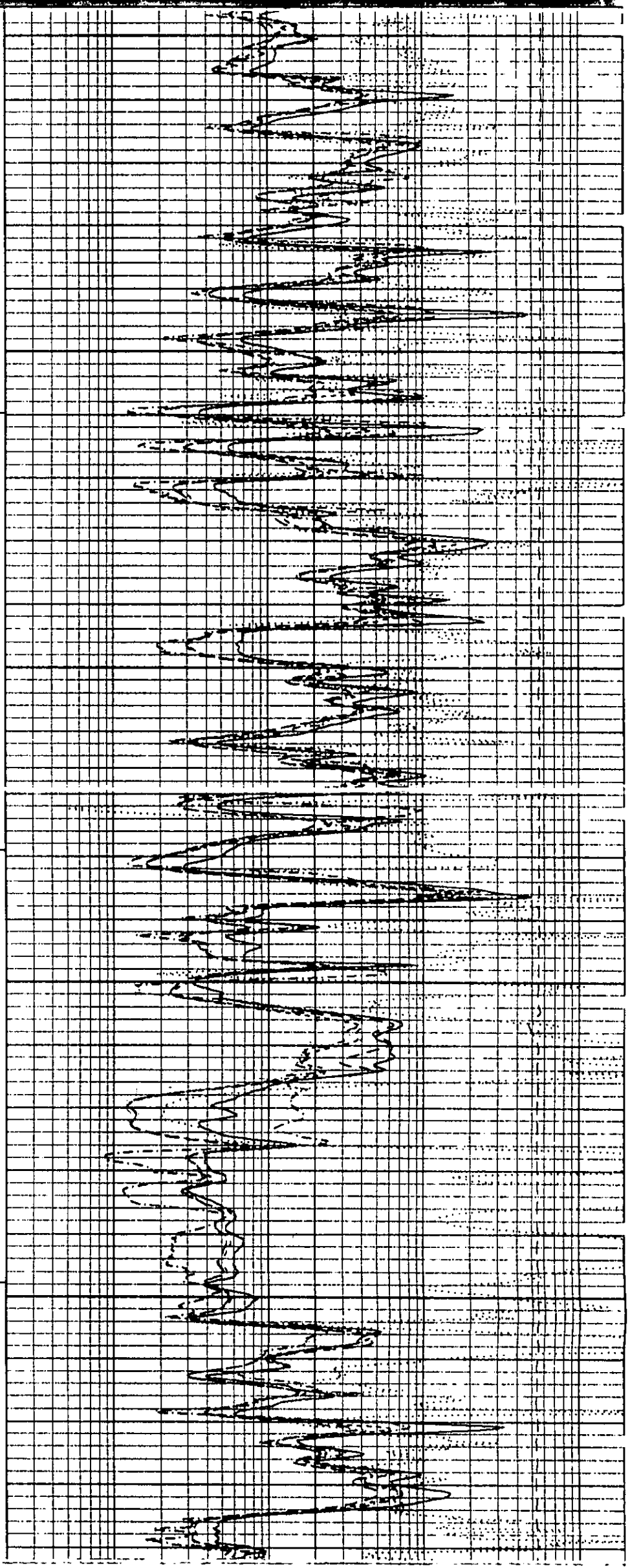
DEEP RES

SURF TENSION



5200

5300
6' Net
-2286.1
Subarea
0





SPECTRAL DENSITY
DUAL SPACED NEUTRON
LOG W/MICROLOG

| | | | |
|----------|-------------------------|----------------|----|
| COMPANY | ANDARKO PETROLEUM CORP. | | |
| WELL | WANDER #A-4 | | |
| FIELD | RYUS EAST | | |
| COUNTY | GRANT | STATE | KS |
| COMPANY | ANDARKO PETROLEUM CORP. | | |
| WELL | WANDER #A-4 | | |
| FIELD | RYUS EAST | | |
| COUNTY | GRANT | STATE | KS |
| API No. | 15-067-2146 | Other Services | |
| Location | 510 FNL & 660 FEL | HRI MSFL | |
| Sec 2 | Twp 30S | Rge 35W | |

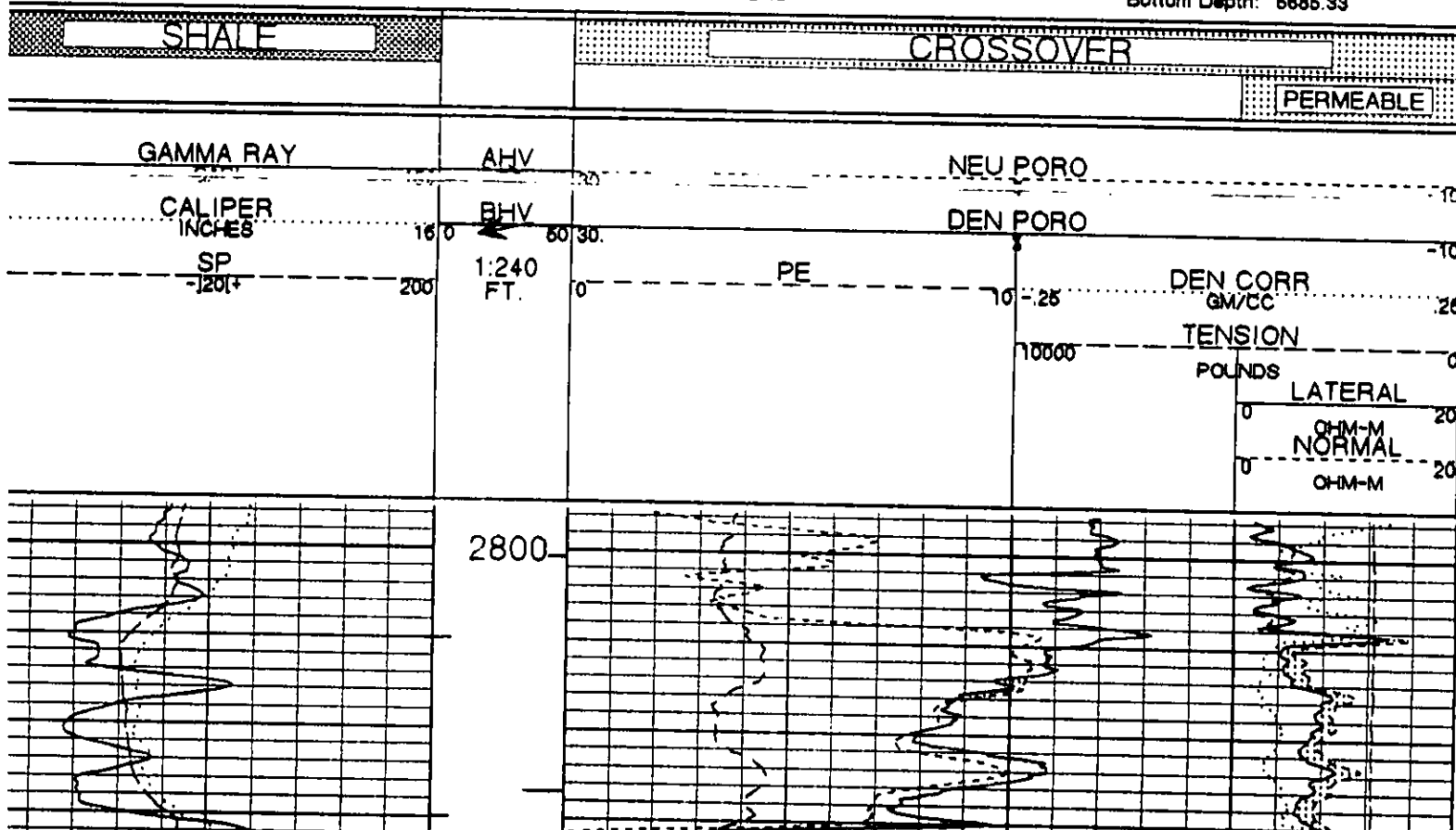
| | | | | | | |
|--------------------------|---------------|---------------|-----------------------|------|--------|--------|
| Permanent Datum | GL | Elev | 3023.9 | Elev | K B | 3035.3 |
| Log measured from | GL | 0 | ft. above perm. datum | D F | 3034.3 | |
| Drilling measured from | GL | | | GL | 3023.9 | |
| Date | 4-15-00 | | | | | |
| Run No. | ONE | | | | | |
| Depth - Driller | 5679' | | | | | |
| Depth - Logger | 5674' | | | | | |
| Bottom - Logged Interval | 5667' | | | | | |
| Top - Logged Interval | 2800' | | | | | |
| Casing - Driller | 9.625 @ 1800' | | | | | |
| Casing - Logger | 1800' | | | | | |
| Bit Size | 7.875" | | | | | |
| Type Fluid in Hole | CHEM | | | | | |
| Dens. Visc. | 9.2 48 | | | | | |
| Ph Fluid Loss | 9.3 8.4 | | | | | |
| Source of Sample | FLOWLINE | | | | | |
| Rm @ Meas. Temp. | 3.5 @ 61 F | | | | | |
| Rmt @ Meas. Temp. | 2.9 @ 62 | | | | | |
| Rmc @ Meas. Temp. | 3.9 @ 62 | | | | | |
| Source Rmt Rmc | MEASO MEAS | | | | | |
| Rm @ BHT | 1.814 @ 124 F | | | | | |
| Time Since Circ. | N/A | | | | | |
| Time on Bottom | 1930 4-15 | | | | | |
| Max. Rec. Temp. | 124 @ T.D | | | | | |
| Equip. Location | 51781 UB | | | | | |
| Recorded By | J. BORELL | | | | | |
| Witnessed By | M. DODGE | C. SUTHERLAND | B. BANNING | | | |

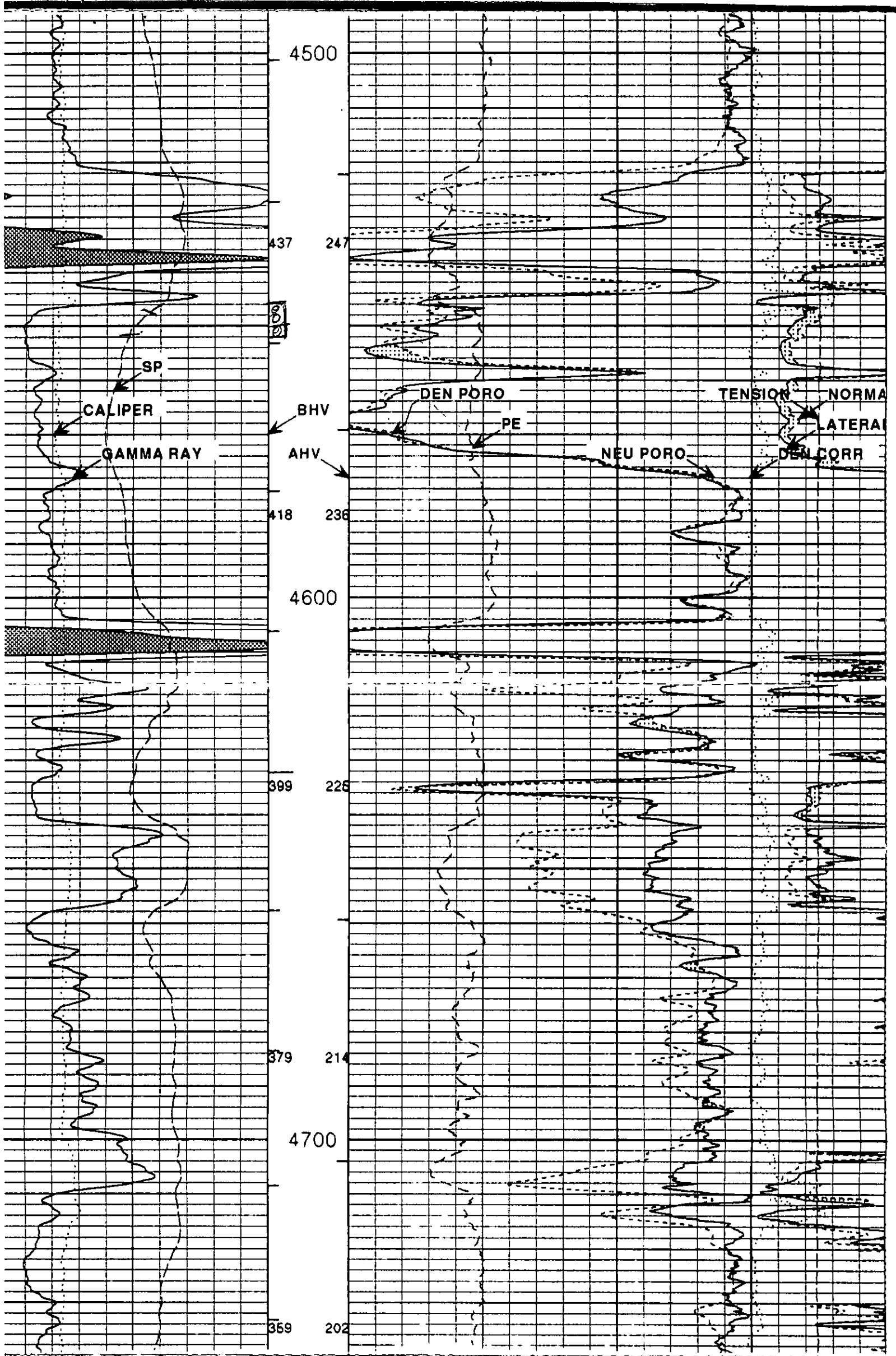
| | | | | | |
|--|--------|----------------|-------------|----------------------------|-----------------|
| Service Ticket No. | 564301 | API Serial No. | 15-067-2146 | PGM Version: | XL v4.0 |
| CHANGE IN MUD TYPE OR ADDITIONAL SAMPLES | | | | | |
| Date Sample No. | | Type Log | Depth | Scale Up Hole | Scale Down Hole |
| Depth - Driller | | | | | |
| Type Fluid | | | | RESISTIVITY SCALE CHANGES | |
| In Hole | | | | | |
| Dens. Visc. | | | | | |
| Ph Fluid Loss | | | | | |
| Source of Sample | | | | RESISTIVITY EQUIPMENT DATA | |
| Rm @ Meas. Temp. | @ | @ | Run No | Tool Type & No. | Pad Type |
| | | | | Tool Pos. | Other |

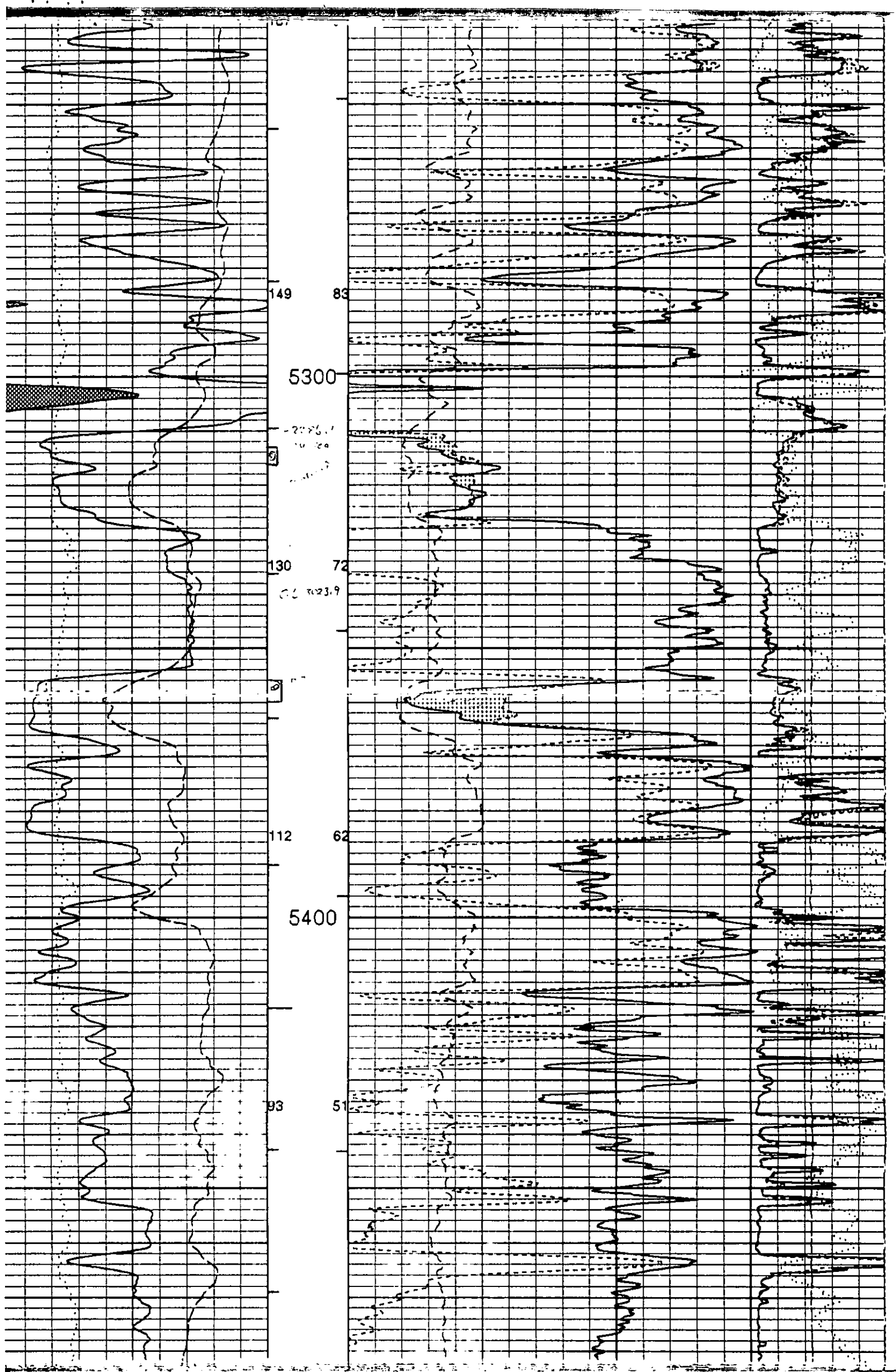


Version No: 1 hc:3.0
Data File: MAIN.cis
Format File: /field_data/data2/andarko_poro/PORO_ANADARKO.spc
Plot Time: 04-16-2000 04:07:44
Database Time: 04-16-2000 01:12:12

Top Depth: 2795.00
Bottom Depth: 5685.33







Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

July 29, 2011

Cheryl Patrick
Merit Energy Company
13727 Noel Rd., Suite 500
Dallas, TX 75240

RE: Approved Commingling CO071109
Wander A #4, Sec. 2-T30S-R35W, Grant County
API No. 15-067-21460-00-02

Dear Ms. Patrick:

Your Application for Commingling (ACO-4) for the above described well has been reviewed and approved by the Kansas Corporation Commission (KCC) per K.A.R. 82-3-123. Notice was examined and found to be proper per K.A.R. 82-3-135a. No protest had been filed within the 15-day protest period. This application, which was received by the KCC on July 28, 2011 concerns approval to simultaneously produce from the following sources of supply through the same tubing string in the same wellbore:

| Source of Supply | Estimated Current Production | | | Perf Depth |
|------------------------------------|------------------------------|-------|------|------------|
| | BOPD | MCFPD | BWPD | |
| Kansas City A | 20 | 11 | 100 | 4546-4552 |
| Morrow Sand | 10 | 4 | 100 | 5311-5360 |
| Total Estimated Current Production | 30 | 15 | 200 | |

Based upon the depth of the Morrow formation perforations, total oil production shall not exceed 200 BOPD and total gas production shall not exceed 50% of the absolute open flow (AOF).

File form ACO-1 upon completion of the well to commingle.

Commingling ID number CO071109 has been assigned to this approved application. Use this number for well completion reports (ACO-1) and other correspondence that may concern this approved commingling.

Sincerely,

Rick Hestermann
Production Department