

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

API NO. 15- 175-20,301-0001

County SEWARD

- SW - SW Sec. 35 Twp. 32S Rge. 31 X W

960 Feet from S(N) (circle one) Line of Section

660 Feet from E(W) (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name GANO "A" Well # 5

Field Name MASSONI

Producing Formation MARMATON

Elevation: Ground 2776' KB --

Total Depth 6020' PBTD 5540'

Amount of Surface Pipe Set and Cemented at 1596 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set -- Feet

If Alternate II completion, cement circulated from

feet depth to w/ sx cmt.

Drilling Fluid Management Plan *Remark 5-8-96*
(Data must be collected from the Reserve Pit)
NOT APPLICABLE

Chloride content ppm Fluid volume bbls

Dewatering method used

Location of fluid disposal if hauled offsite:

Operator Name

Lease Name License No.

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

County Docket No.

Operator: License # 4549

Name: ANADARKO PETROLEUM CORPORATION

Address P.O. BOX 351

City/State/Zip LIBERAL, KANSAS 67905-0351

Purchaser: OIL: NAT'L CO-OP REFINERY (NCRA)

Operator Contact Person: J. L. ASHTON

Phone (316) 624-6253

Contractor: Name: NA

License: NA

Wellsite Geologist: NA

Designate Type of Completion
New Well Re-Entry X Workover

X Oil SWD SLOW Temp. Abd.
Gas ENHR SIGW
Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: ANADARKO PETROLEUM CORPORATION

Well Name: GANO "A" NO. 5

Comp. Date 10/25/76 Old Total Depth 6020'

Deepening X Re-perf. Conv. to Inj/SWD
X Plug Back 5540' PBTD
Commingled Docket No.
Dual Completion Docket No.
Other (SWD or Inj?) Docket No.

9/07/95 NA 12/26/95
Spud Date Date Reached TD Completion Date

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 *John M. Dolan*
JOHN M. DOLAN

Title SENIOR TECHNICAL ASSISTANT Date 3/12/96

Subscribed and sworn to before me this 12th day of March 19 96.

Notary Public *Freda L. Hinz*

Date Commission Expires

FREDA L. HINZ
Notary Public - State of Kansas
My Appt. Expires 5-15-99

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
KCC SWD/Rep NGPA
KGS Plug Other
(Specify)

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ORIGINAL

SIDE TWO

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name GANO "A" Well # 5-
 Sec. 35 Twp. 32S Rge. 31 East County SEWARD
 West

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 (Attach Additional Sheets.) | <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 | (SEE ORIGINAL DRILLERS LOG - ATTACHED) | | |
| Electric Log Run (Submit Copy.) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | |
| List All E.Logs Run: | | | | |

| CASING RECORD | | ** ORIGINAL COMPLETION | | | | | |
|---|-------------------|------------------------------|-------------------------------|---------------|----------------|--------------|------------------------------|
| | | <input 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 | 12-1/4 " | 8-5/8" | 24.0 | 1596' | POZMIX/COMMON | 500/200 | 4%GEL2%CC/2%CC |
| ** PRODUCTION | 7-7/8 " | 5-1/2" | 15.5 & 14.0 | 6019' | SS POZMIX | 275 | 12.5 GILS/SK + .05% CFR-2 |
| PRODUCTION LINER | NA | 4-1/2" LINER | 7.4 used | 4581' | MIDCON 2 | 55 | 2% CC |

| ADDITIONAL CEMENTING/SQUEEZE RECORD | | | | |
|--|------------------|----------------|-------------|--|
| Purpose: | Depth Top Bottom | Type of Cement | #Sacks Used | Type and Percent Additives |
| <input checked="" type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone | SURF 4581' | MIDCON | 55 | (4-1/2" LINE PIPE LINER INSTALLED) 2% CC |

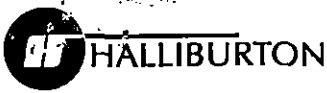
| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type | Acid, Fracture, Shot, Cement Squeeze Record |
|----------------|---|---|
| | Specify Footage of Each Interval Perforated | (Amount and Kind of Material Used) Depth |
| | SET CIBP @ 5550' & SPOT 1 SK CMT ON TOP | |
| | NEW PBDT TAGGED @ 5540' | |
| 4 | PERF 5068-5078 (MARMATON) | ACIDIZE W/1000 GAL 15% FEHCL 5068-5078 |

| | | | | |
|---|--|---------------------|------------------------|--|
| TUBING RECORD | Size <u>2-3/8"</u> | Set At <u>5094'</u> | Packer At <u>--</u> | Liner Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (CASING LINER) |
| Date of First, Resumed Production, SWD or Inj. <u>12/15/95</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 <u>8</u> Bbls. | Gas <u>0</u> Mcf | Water <u>152</u> Bbls. | Gas-Oil Ratio <u>0</u> Gravity <u>--</u> |

Disposition of Gas: Vented Sold Used on Lease (if vented, submit ACO-18.)

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

Production Interval: 5068-5078



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

MID CONTINENT AREA
LIBERAL KS

BILLED ON TICKET NO. 380669

WELL DATA

FIELD _____ SEC _____ TWP _____ RNG _____ COUNTY **SEWARD** STATE **KS**

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____

PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH _____

| LINE PIPE | NEW USED | WEIGHT | SIZE | FROM | TO | MAXIMUM PSI ALLOWABLE |
|--------------|----------|---------|-------|------|------|-----------------------|
| CASING | U | 7.4 | 4 1/2 | KB | 4581 | LINER |
| LINER TUBING | U | 15.5-14 | 5 1/2 | KB | 4581 | |

OPEN HOLE _____ SHOTS/FT. _____

PERFORATIONS _____

PERFORATIONS _____ ORIGINAL

PERFORATIONS _____

JOB DATA

TOOLS AND ACCESSORIES

| TYPE AND SIZE | QTY. | MAKE |
|-------------------|------|------|
| 4 1/2 | | |
| FLOAT COLLAR | | A |
| FLOAT SHOE INSERT | 1 | |
| GUIDE SHOE | | O |
| CENTRALIZERS | | |
| BOTTOM PLUG | | W |
| TOP PLUG 5W | 1 | |
| HEAD | | C |
| PACKER | | |
| OTHER | | O |

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API _____

DISPL. FLUID _____ DENSITY _____ LB/GAL. API _____

PROP. TYPE _____ SIZE _____ LB. _____

PROP. TYPE _____ SIZE _____ LB. _____

ACID TYPE _____ GAL. _____ % _____

ACID TYPE _____ GAL. _____ % _____

ACID TYPE _____ GAL. _____ % _____

SURFACTANT TYPE _____ GAL. _____ IN _____

NE AGENT TYPE _____ GAL. _____ IN _____

FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN _____

GELLING AGENT TYPE _____ GAL.-LB. _____ IN _____

FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN _____

BREAKER TYPE _____ GAL.-LB. _____ IN _____

BLOCKING AGENT TYPE _____ GAL.-LB. _____

PERFFAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

| CALLLED OUT | ON LOCATION | JOB STARTED | JOB COMPLETED |
|---------------------------|---------------------------|---------------------------|---------------------------|
| DATE 12-1-95 TIME 0500 | DATE 12-1-95 TIME 0800 | DATE 12-1-95 TIME 0900 | DATE 12-1-95 TIME 1100 |

PERSONNEL AND SERVICE UNITS

| NAME | UNIT NO. & TYPE | LOCATION |
|--------------|-----------------|------------|
| T. BRODIE | 420045 | LIBERAL KS |
| C. CORNELSON | 52947 75496 | " " |
| S. PORTER | 4461 75505 | HUGOTAN KS |

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DEPARTMENT **CEMENT**

DESCRIPTION OF JOB **CEMENT 4 1/2" CSG LINER**

JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.

CUSTOMER REPRESENTATIVE **X Fred S. Cross**

HALLIBURTON OPERATOR **O Brody** COPIES REQUESTED _____

CEMENT DATA

| STAGE | NUMBER OF SACKS | CEMENT | BRAND | BULK SACKED | ADDITIVES | YIELD CU.FT./SK. | MIXED LBS./GAL. |
|-------|-----------------|----------|-------|-------------|---------------------|------------------|-----------------|
| 1 | 55 | MAMCON 2 | | B | 2 ³ c.c. | 323 | 11.1 |

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____

BREAKDOWN _____ MAXIMUM _____

AVERAGE _____ FRACTURE GRADIENT _____

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____

HYDRAULIC HORSEPOWER _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET **2** REASON **SWL C ONLY**

SUMMARY

PRESLUSH BBL.-GAL. **20** TYPE **2 3/4 KCL**

LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____

TREATMENT: BBL.-GAL. _____ DISPL. BBL.-GAL. **75.6**

CEMENT SLURRY BBL.-GAL. **27** TYPE **2 3/4 KCL**

TOTAL VOLUME: BBL.-GAL. _____

REMARKS

MSAS LEFT ON LOC.

4 1/2" LINE PIPE 500' 400L-75K OBT

NO WELL DONE - NO ACCIDENTS

CUSTOMER: MINDAKKO
 PERMIT/LEASE: GRAND
 WELL NO.: A-2
 JOB TYPE: 4 1/2" CSG LINER
 DATE: 12-1-95

Mess



HALLIBURTON

DATE 12-1-95 PAGE NO.

JOB LOG HAL-2013-C

CUSTOMER ANADARKO PETROLEUM WELL NO. A-5 LEASE GANO JOB TYPE 4 1/2 CSG LINER TICKET NO. 880669

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS | | PRESSURE (PSI) | | DESCRIPTION OF OPERATION AND MATERIALS |
|-----------|------|------------|--------------------|-------|---|----------------|--------|--|
| | | | | T | C | TUBING | CASING | |
| | 0800 | | | | | | | called out READY 0830 |
| | 0800 | | | | | | | en Loc. - READY to hook up |
| | 0905 | 1.6 | 20 | | | | | START 2% KCL SPACER |
| | 0918 | 1.6 | 27 | | | | | START CMT 11.1" KAL |
| | 0934 | 0 | 0 | | | | | SHUT OFF DROP PLUG |
| | 0937 | 2 | 56 | | | | | START DISPLACEMENT 2% KCL |
| | 0910 | 1 | 11 | | | | | START DISPLACEMENT 2% KCL - SHOW RATE 7.5 T |
| | 0921 | - | - | | | | | PLUG LANDED - SHUT IN AT 700 PSI |
| | | | | | | | | SHUT IN AT 700 PSI |
| | | | | | | | | Job OVER |

ORIGINAL

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THANKS FOR CALLING HALLIBURTON ENERGY SERVICES LIBERAL KS.

"HAVE A GOOD DAY"

BROADFOOT - CORNELSON - DIETER

MASAS LEFT ON Loc.

4BBL CMT TO SURFACE - 7 SKS

Job Time -

Loc Time - 2HR 21min