

SIDE ONE

ORIGINAL

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

API NO. 15- 151-21,953-00-00

Operator: License # 4748

County PRATT

Name: A & A Discovery, Inc.

Approx. SW NE SW Sec. 8 Twp. 27 Rge. 11 East

Address P.O. Box 156

SW NE SW Sec. 8 Twp. 27 Rge. 11 West

City/State/zip Hill City, KS 67642

1660 Ft. North from Southeast Corner of Section

3660 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

Purchaser: N/A

Lease Name Holland Well # A-5

Operator Contact Person: Darrel Anderson

Field Name

Phone (913) 674-2768

Producing Formation

Elevation: Ground 1817 KB 1822

Contractor: Name: Duke Drilling Co., Inc.

Total Depth 4040' PBTD

License: 5929

Wellsite Geologist: Scott Alberg

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd.

Gas Inj Delayed Comp. etc.

Dry Other (Core, Water Supply, etc.)

If **OWNO**: old well info as follows:

Operator:

Well Name:

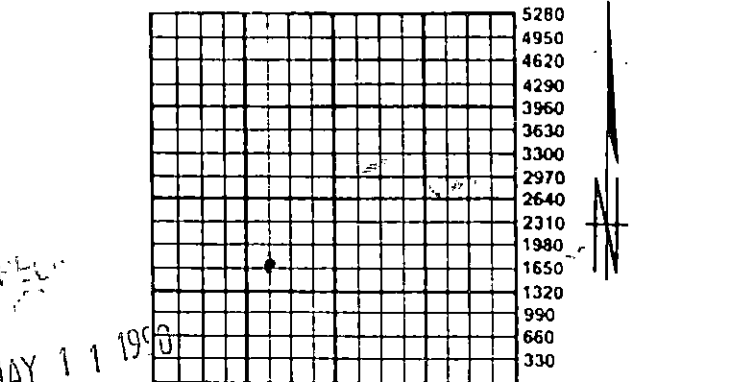
Comp. Date Old Total Depth

Drilling Method:

Mud Rotary Air Rotary Cable

10-23-89 11-02-89 11-2-89

Spud Date Date Reached TD Completion Date



MAY 11 1990
CONS. of At. Law U. of Kansas

Amount of Surface Pipe Set and Cemented at 247 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set Feet

If Alternate II completion, cement circulated from

feet depth to w/ sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 Darrel Anderson

Title President Date 4-4-90

Subscribed and sworn to before me this 10th day of May 1990.

Notary Public Joyce Thille

Date Commission Expires

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

JOYCE THILLE
NOTARY PUBLIC
STATE OF KANSAS
MY APPT. EXPIRES 9-27-93

Form ACO-1 (7-89)

ORIGINAL

X

ORIGINAL

SIDE TWO

Operator Name A & A Discovery, Inc. Lease Name Holland Well # A-5
 Sec. 8 Twp. 27 Rge. 11 East County Pratt
 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 (3) Yes No
 (Attach Additional Sheets.) See attached sheets
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy.)

Formation Description
 Log Sample
 Name Top Bottom
 see Driller's Log (attached)

| CASING RECORD <input checked="" type="checkbox"/> New <input checked="" 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 | 14-3/4" | 10-3/4" | | 247' | 60/40poz | 175 | 2% gel 3% cd. |
| Surface | 9-7/8" | 8-5/8" | 28# | 747' | 60/40poz | 125 | 2% gel 3% cd. |
| | | | | | | | |

| PERFORATION RECORD | | Acid, Fracture, Shot, Cement Squeeze Record | |
|--------------------|---|---|-------|
| Shots Per Foot | Specify Footage of Each Interval Perforated | (Amount and Kind of Material Used) | Depth |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

TUBING RECORD Size Set At Packer At Liner Run Yes No

Date of First Production D and A Producing Method Flowing Pumping Gas Lift Other (Explain)
 Estimated Production Per 24 Hours
 Oil 0 Bbls. Gas 0 Mcf Water 0 Bbls. Gas-Oil Ratio 0 Gravity 0

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)
METHOD OF COMPLETION Open Hole Perforation Dually Completed Commingled
 Other (Specify) _____

ORIGINAL

CHENEY TESTING COMPANY, INC.

P. O. Box 367

HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

| | |
|--|----------------------------|
| Company <u>A & A Discovery Inc.</u> | Test No. <u>1</u> |
| Well Name & Number <u>Holland #A-5</u> | Zone Tested <u>K.C.</u> |
| Company Address <u>P.O. Box 156, Hill City, Kan. 67642</u> | Date <u>10-30-89</u> |
| Company Rep. <u>Scott Alberg</u> | Tester <u>Huck Smith</u> |
| Contractor <u>Duke Drlg. Co. #1</u> | Elevation <u>1822 K.B.</u> |
| Location: Sec. <u>8</u> Twp. <u>27S</u> Rge. <u>11W</u> Co. <u>Pratt</u> State <u>Kan.</u> | Est. Feet of Pay _____ |

| | |
|---|--|
| Recorder No. <u>13770</u> Type <u>AK-1</u> Range <u>4200</u> PSI | Recorder No. <u>13364</u> Type <u>AK-1</u> Range <u>3825</u> PSI |
| Recorder Depth <u>3683</u> Clock # <u>25825</u> | Recorder Depth <u>3686</u> Clock # <u>22345</u> |
| (A) Initial Hydrostatic Mud <u>1635</u> PSI | Tool Open Before I.S.I. <u>30</u> Mins. |
| (B) First Initial Flow Pressure <u>63</u> PSI | Initial Shut-in <u>60</u> Mins. |
| (C) First Final Flow Pressure <u>74</u> PSI | Flow Period <u>30</u> Mins. |
| (D) Initial Shut-in Pressure <u>1194</u> PSI | Final Shut-in <u>60</u> Mins. |
| (E) Second Initial Flow Pressure <u>84</u> PSI | Top Choke Size <u>1"</u> Hole Size <u>7 7/8"</u> |
| (F) Second Final Flow Pressure <u>105</u> PSI | Bottom Choke Size <u>3/4"</u> Rubber Size <u>6 3/4"</u> |
| (G) Final Shut-in Pressure <u>1184</u> PSI | Tool Open @ <u>4:40 A.M.</u> |
| (H) Final Hydrostatic Mud <u>1625</u> PSI | Blow Remarks <u>Strong blow throughout test.</u> |
| Temperature <u>118</u> | _____ |
| Mud Weight <u>9.3</u> Viscosity <u>45</u> | _____ |
| Fluid Loss <u>8.8 c.c.</u> | _____ |
| Interval Tested <u>3658-3691</u> | _____ |
| Anchor Length <u>33'</u> | _____ |
| Top Packer Depth <u>3653</u> | _____ |
| Bottom Packer Depth <u>3658</u> | _____ |
| Total Depth <u>3691</u> | _____ |
| Drill Pipe Size <u>4 1/2 F.H.</u> | _____ |
| Wt. Pipe I. D. <u>2.7</u> Ft. Run <u>941</u> | _____ |
| Recovery-Total Feet <u>200'</u> | _____ |
| Recovered <u>780</u> Feet Of <u>G.I.P.</u> | _____ |
| Recovered <u>140</u> Feet Of <u>15% Oil 85% Mud</u> | _____ |
| Recovered <u>60</u> Feet Of <u>10% Gas 15% Oil 25% Wtr. 50% Mud</u> | _____ |
| Recovered _____ Feet Of <u>RW .2 @ 49° = 65,000 P.P.M.</u> | _____ |
| Recovered _____ Feet Of _____ | _____ |
| Recovered _____ Feet Of _____ | _____ |
| Extra Equipment _____ Price of Job _____ | _____ |

MAY 11 1990
 CONSERVATION DIVISION
 Wichita, Kansas

CHENEY TESTING COMPANY, INC.

P. O. Box 367 HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

| | |
|--|----------------------------|
| Company <u>A & A Discovery Inc.</u> | Test No. <u>2</u> |
| Well Name & Number <u>Holland #A-5</u> | Zone Tested <u>K.C.</u> |
| Company Address <u>P.O. Box 156, Hill City, Kan. 67642</u> | Date <u>10-30-89</u> |
| Company Rep. <u>Scott Alberg</u> | Tester <u>Huck Smith</u> |
| Contractor <u>Duke Drlg. Co. #1</u> | Elevation <u>1822 K.B.</u> |
| Location: Sec. <u>8</u> Twp. <u>27S</u> Rge. <u>11W</u> Co. <u>Pratt</u> State <u>Kan.</u> | Est. Feet of Pay _____ |

| | |
|--|--|
| Recorder No. <u>13770</u> Type <u>AK-1</u> Range <u>4200</u> PSI | Recorder No. <u>13364</u> Type <u>AK-1</u> Range <u>3825</u> PSI |
| Recorder Depth <u>3765</u> Clock # <u>25825</u> | Recorder Depth <u>3768</u> Clock # <u>22345</u> |
| A) Initial Hydrostatic Mud <u>1826</u> PSI | Tool Open Before I.S.I. <u>30</u> Mins. |
| B) First Initial Flow Pressure <u>42</u> PSI | Initial Shut-in <u>30</u> Mins. |
| C) First Final Flow Pressure <u>42</u> PSI | Flow Period <u>30</u> Mins. |
| D) Initial Shut-in Pressure <u>1257</u> PSI | Final Shut-in <u>30</u> Mins. |
| E) Second Initial Flow Pressure <u>52</u> PSI | Top Choke Size <u>1"</u> Hole Size <u>7 7/8"</u> |
| F) Second Final Flow Pressure <u>52</u> PSI | Bottom Choke Size <u>3/4"</u> Rubber Size <u>6 3/4"</u> |
| G) Final Shut-in Pressure <u>1236</u> PSI | Tool Open @ <u>8:15 P.M.</u> |
| H) Final Hydrostatic Mud <u>1794</u> PSI | Blow Remarks <u>Weak blow</u> |
| Temperature <u>118</u> | _____ |
| Mud Weight <u>9.0</u> Viscosity <u>47</u> | _____ |
| Fluid Loss <u>8.8</u> c.c. | _____ |
| Interval Tested <u>3755-3773</u> | _____ |
| Anchor Length <u>18'</u> | _____ |
| Top Packer Depth <u>3750</u> | _____ |
| Bottom Packer Depth <u>3755</u> | _____ |
| Total Depth <u>3773</u> | _____ |
| Drill Pipe Size <u>4 1/2 F.H.</u> | _____ |
| Drill Pipe I. D. <u>2.7</u> Ft. Run. <u>941</u> | _____ |
| Recovery-Total Feet <u>80</u> | _____ |
| Recovered <u>80</u> Feet Of <u>M.W.</u> | _____ |
| Recovered _____ Feet Of <u>RW .2 @ 37° = 55,000 P.P.M.</u> | _____ |
| Recovered _____ Feet Of _____ | _____ |
| Recovered _____ Feet Of _____ | _____ |
| Recovered _____ Feet Of _____ | _____ |
| Recovered _____ Feet Of _____ | _____ |
| Extra Equipment _____ | Price of Job _____ |

ST. J. ...
MAY 11 1990
 COI...

CHENEY TESTING COMPANY, INC.

P. O. Box 367 HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

| | |
|--|----------------------------|
| Company <u>A & A Discovery Inc.</u> | Test No. <u>3</u> |
| Well Name & Number <u>Holland #A-5</u> | Zone Tested <u>K.C.</u> |
| Company Address <u>P.O. Box 156, Hill City, Kan. 67642</u> | Date <u>10-31-89</u> |
| Company Rep. <u>Scott Alberg</u> | Tester <u>Huck Smith</u> |
| Contractor <u>Duke Drlg. Co. #1</u> | Elevation <u>1822 K.B.</u> |
| Location: Sec. <u>8</u> Twp. <u>27S</u> Rge. <u>11W</u> Co. <u>Pratt</u> State <u>Kan.</u> | Est. Feet of Pay _____ |

Recorder No. 13770 Type AK-1 Range 4200 PSI

Recorder No. 13364 Type AK-1 Range 3825 PSI

Recorder Depth 3907 Clock # 25825

Recorder Depth 3910 Clock # 22345

(A) Initial Hydrostatic Mud 2059 PSI

Tool Open Before I.S.I. 30 Mins.

(B) First Initial Flow Pressure 42 PSI

Initial Shut-in 60 Mins.

(C) First Final Flow Pressure 42 PSI

Flow Period 30 Mins.

(D) Initial Shut-in Pressure 391 PSI

Final Shut-in 60 Mins.

(E) Second Initial Flow Pressure 42 PSI

Top Choke Size 1" Hole Size 7 7/8"

(F) Second Final Flow Pressure 42 PSI

Bottom Choke Size 3/4" Rubber Size 6 3/4"

(G) Final Shut-in Pressure 391 PSI

Tool Open @ 2:00 P.M.

(H) Final Hydrostatic Mud 1889 PSI

Blow Remarks 1st open; Strong blow, 20 min.

Temperature 119°

to bottom of bucket.

Mud Weight 9.0 Viscosity 48

2nd open; Strong blow to bottom of bucket

Fluid Loss 12.0 c.c.

in 1 min.

Interval Tested 3895-3915

Anchor Length 20'

Top Packer Depth 3890

Bottom Packer Depth 3895

Total Depth 3915

Drill Pipe Size 4 1/2 F.H.

Wt. Pipe I. D. 2.7 Ft. Run 941

Recovery-Total Feet 45

Recovered 840 Feet Of G.I.P.

Recovered 45 Feet Of O.C.M. (5% Oil 95% Mud)

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Extra Equipment DEC Price of Job _____

MAY 11 1990
 HILL CITY, KANSAS

DRILLER'S WELL LOG

DATE COMMENCED: October 23, 1989
DATE COMPLETED: November 02, 1989

A & A Discovery, Inc.
HOLLAND A-5
Approx. SW NE SW
Sec. 8, T27S, R11W
Pratt County, Ks.

ELEVATION: 1822 K.B.

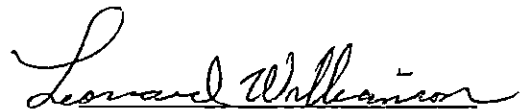
0 - 576' Surface soil, Red Bed
576 - 601' Anhydrite
601 - 1505' Shale & Lime Streaks
1505 - 1868' Shale
1868 - 2215' Lime & Shale
2215 - 3305' Shale & Lime
3305 - 3691' Lime & Shale
3691 - 4040' Lime
4040' RTD

Surface Pipe: Set new
& used 10-3/4" 32# pipe
@247' w/175 sacks 60/40
pozmix 2% gel 3% cc.
Set 8-5/8", 28# @747' w/125
sacks 60/40 pozmix 2% gel
3%cc.

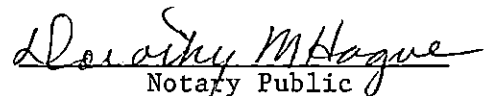
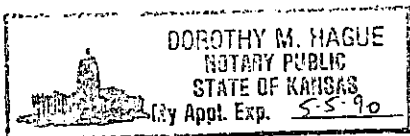
A F F I D A V I T

STATE OF KANSAS
COUNTY OF BARTON) ss

Leonard Williamson of lawful age does swear and state that the facts and statements herein are true and correct to the best of his knowledge.



Subscribed and sworn to before me this 7th day of November 1989.



Notary Public

MAY 11 1990