

SIDE ONE

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

API NO. 15- 175-21,174-0000

County Seward

300' W C-SE 1/4 Sec. 29 Twp. 32S Rge. 33  East  West

1320' Ft. North from Southeast Corner of Section

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

Lease Name Naden Well # 2-29

Field Name Hugoton

Producing Formation None

Elevation: Ground 2790' KB 2801'

Total Depth 2825' PBSD 2784'

Operator: License # 6120

Name: Cabot Oil & Gas Corporation

Address 9400 N. Broadway -Suite 608

City/State/Zip Oklahoma City, OK 73114

Purchaser: None

Operator Contact Person: Jim R. Pendergrass

Phone ( 405 ) 478-6514

Contractor: Name: H-30 Drilling, Inc.

License: 5107

Wellsite Geologist: Earth Tech

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  Temp. Abd.

Gas  Inj  Delayed Comp.

Dry  Other (Core, Water Supply, etc.)

If OMO: old well info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Drilling Method:

Mud Rotary  Air Rotary  Cable

3-25-91 3-28-91 Waiting on Plugging

Spud Date Date Reached TD Completion Date

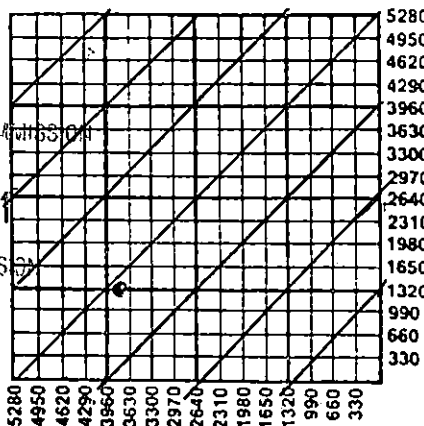
RECEIVED

STATE CORPORATION COMMISSION

JUL 31 1991

CONSERVATION DIVISION  
Wichita, Kansas

7-31-1991



01-2

Amount of Surface Pipe Set and Cemented at 667 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 Jim R. Pendergrass  
Title Jim R. Pendergrass, Drilling Superintendent Date 7-22-91

Subscribed and sworn to before me this 22 day of July, 1991

Notary Public Roberta E. Mitchell Roberta E. Mitchell

Date Commission Expires November 9, 1992

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

01

SIDE TWO

Operator Name Cabot Oil & Gas Corporation Lease Name Naden Well # 2-29  
 Sec. 29 Twp. 32 Rge. 33  East  West County Seward

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<br>(Attach Additional Sheets.) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <b>Formation Description</b><br><input type="checkbox"/> Log <input checked="" type="checkbox"/> Sample<br>Name                      Top                      Bottom<br>Red Bed                      0                      980'<br>Anhydrite and Shale      980'                      2,185'<br>Shale and Lime              2,185'                      2,825'<br>Rotary Total Depth                      2,825' |
| Samples Sent to Geological Survey                     | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |   |
| Cores Taken   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |   |
| Electric Log Run<br>(Submit Copy.)                    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |   |

| 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 1/4"  | 8-5/8"                    | 24#             | 667'   | Lite Wt        | 250          | 2% cc                      |
| Production  | 7 7/8"   | 4-1/2"                    | 10.5#           | 2824'  | Class H        | 120          | 2% cc                      |
|   |  |                           |                 |  | 35-65 Poz      | 400          | 1/4 D-29                   |
|   |  |                           |                 |  | Class H        | 200          | 2% cc                      |
| PERFORATION RECORD  |  |                           |                 | Acid, Fracture, Shot, Cement Squeeze Record<br>(Amount and Kind of Material Used)      Depth           |                |              |                            |
| Shots Per Foot  | Specify Footage of Each Interval Perforated  |                           |                 |  |                |              |                            |
| 1 SPF   | Winfield: 2646-2658  |                           |                 | acidized w/1000gals 15% HCL + 28 BS<br>Fraced w/6,450 gals + 10# ge.                                   |                |              |                            |
| 1 SPF   | Herrington: 2532-2538<br>Krider: 2560-2574; 2597-2609  |                           |                 | acidized w/2500 gal 15% HDL + 70 BS<br>Fraced with 29,150 gals 30# X-Link<br>and 1700 gals slick water |                |              |                            |
| TUBING RECORD   |  |                           |                 | Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                          |                |              |                            |
|   | Size   | Set At                    | Packer At       |  |                |              |                            |
|   | 2 3/8"   | 2683'                     | N/A             |  |                |              |                            |
| Date of First Production<br>N/A   | Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input checked="" type="checkbox"/> Other (Explain) |                           |                 | DRY!!!   |                |              |                            |
| Estimated Production Per 24 Hours   | Oil  | Bbls.                     | Gas             | Mcf  | Water          | Bbls.        | Gas-Oil Ratio              |

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

METHOD OF COMPLETION:  Open Hole  Perforation  Dually Completed  Commingled  Other (Specify) DRY HOLE

Production Interval Gravity

CEMENTING SERVICE REPORT



TREATMENT NUMBER 03-12-2679 DATE 3/1/91  
 STAGE DS DISTRICT UIVSSKS, Ks 03-12

DS-496 PRINTED IN U.S.A.

DOWELL SCHLUMBERGER INCORPORATED

|   |  |   |  |   |  |   |  |
|---|--|---|--|---|--|---|--|
| WELL NAME AND NO.<br><b>NAOEN # 2-29</b>  |  | LOCATION (LEGAL)<br><b>SEC-29-32s-33w</b> |  | RIG NAME:<br><b>H 30 # 1</b>                                      |  | <b>ORIGINAL</b>                                   |  |
| FIELD/POOL<br><b>HUGOTOW</b>  |  | FORMATION                                 |  | WELL DATA: BOTTOM TOP   |  |   |  |
| COUNTRY/PARISH<br><b>SEWARD</b>   |  | STATE<br><b>Ks</b>                        |  | API. NO.  |  | BIT SIZE <b>7 7/8</b> CSG/Liner Size <b>4 1/2</b> |  |
| NAME <b>CABOT PETROLEUM CORP.</b>   |  |   |  | MUD TYPE  |  | TOTAL DEPTH <b>10.5</b>                           |  |
| ADDRESS   |  |   |  | GRADE   |  | WEIGHT <b>2824.97</b>                             |  |
| ZIP CODE  |  |   |  | MUD DENSITY   |  | FOOTAGE <b>2824.97</b>                            |  |
| SPECIAL INSTRUCTIONS <b>EQUIPMENT &amp; MATERIALS</b>   |  |   |  | MUD VISC.   |  | DISP. CAPACITY <b>44.46</b>                       |  |
| To Do <b>4 1/2 4s</b>   |  |   |  | NOTE: Include Footage From Ground Level To Head In Disp. Capacity |  | TOTAL   |  |
| 300 # KCL FOR 2% OW DISPLACEMENT  |  |   |  | SHOE Float  |  | TYPE <b>Collar</b>                                |  |
| 20 BBLs CW-100 WASH AHEAD   |  |   |  | DEPTH   |  | DEPTH <b>2796.42</b>                              |  |
| IS CASING/TUBING SECURED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |  |   |  | TYPE  |  | TYPE <b>CMT Guide</b>                             |  |
| LIFT PRESSURE <b>1586</b> PSI CASING WEIGHT - SURFACE AREA (3.14 x R <sup>2</sup> )           |  |   |  | DEPTH   |  | DEPTH <b>2824.97</b>                              |  |
| PRESSURE LIMIT <b>500 OVER</b> PSI  |  |   |  | SQUEEZE JOB   |  | TYPE  |  |
| ROTATE RPM RECIPROCATATE FT No. of Centralizers   |  |   |  | TOOL  |  | DEPTH   |  |

| TIME         | PRESSURE LINES | VOLUME PUMPED BBL                  | JOB SCHEDULED FOR TIME | ARRIVE ON LOCATION TIME               | LEFT LOCATION TIME | SERVICE LOG DETAIL |
|--------------|----------------|------------------------------------|------------------------|---------------------------------------|--------------------|--------------------|
| 0001 to 2400 | INJECT RATE    | FLUID TYPE                         | FLUID DENSITY          |                                       |                    |                    |
| 20:33        | 2030           | H2O                                | 8.34                   | PRE-JOB SAFETY MEETING PSI TEST LINES |                    |                    |
| 20:35        | 10             | H2O                                | 8.34                   | START CW-100                          |                    |                    |
| 20:39        | 260            | CMT                                | 12.4                   | START LEAD CMT                        |                    |                    |
| 20:40        | 120            | CMT                                | 15.6                   | START TAIL CMT                        |                    |                    |
| 20:49        | 100            | SHUT DOWN & DROP PLUG & WASH LINES |                        |                                       |                    |                    |
| 20:15        | 80             | H2O                                | 8.34                   | START DISPLACEMENT - W/2% KCL         |                    |                    |
| 20:20        | 530            | H2O                                | 8.34                   | LOWER RATE                            |                    |                    |
| 20:24        | 740            | H2O                                | 8.34                   | LOWER RATE                            |                    |                    |
| 20:25        | 1160           | H2O                                | 8.34                   | BUMP PLUG                             |                    |                    |
| 20:25        | 0              | CHECK FLOAT - FLOAT HOLDING        |                        |                                       |                    |                    |
| 20:25        |                | END JOB                            |                        |                                       |                    |                    |

RECEIVED  
STATE CORPORATION COMMISSION

JUL 31 1991

CONSERVATION DIVISION  
Wichita, Kansas

REMARKS

| SYSTEM CODE | NO. OF SACKS | YIELD CU. FT/SK | COMPOSITION OF CEMENTING SYSTEMS |                                     | SLURRY MIXED |         |
|-------------|--------------|-----------------|----------------------------------|-------------------------------------|--------------|---------|
|             |              |                 | BBLs                             | DENSITY                             | BBLs         | DENSITY |
| 1.          | 400          | 1.98            | SKS 35%CS                        | POZ/4 + 6% D90 + 3% SI + 1/4 #4 D29 | 141          | 12.4    |
| 2.          | 200          | 1.18            | SKS CLASS H                      | + 0.8% D100 + 3% SI                 | 42           | 15.6    |
| 3.          |              |                 |                                  |                                     |              |         |
| 4.          |              |                 |                                  |                                     |              |         |
| 5.          |              |                 |                                  |                                     |              |         |
| 6.          |              |                 |                                  |                                     |              |         |

|  |  |                                      |  |                  |  |   |  |   |  |
|--|--|--------------------------------------|--|------------------|--|---|--|---|--|
| BREAKDOWN FLUID TYPE   |  | VOLUME                               |  | DENSITY          |  | PRESSURE  |  | MAX. MIN:   |  |
| <input type="checkbox"/> HESITATION SQ.                                    |  | <input type="checkbox"/> RUNNING SQ. |  | CIRCULATION LOST |  | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |  | Cement Circulated To Surf. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO  |  |
| BREAKDOWN  |  | PSI FINAL                            |  | PSI              |  | DISPLACEMENT VOL.   |  | 44.46 Bbls  |  |
| Washed Thru Perls <input type="checkbox"/> YES <input type="checkbox"/> NO |  | TO                                   |  | FT.              |  | MEASURED DISPLACEMENT <input checked="" type="checkbox"/>           |  | TYPE OF WELL <input checked="" type="checkbox"/> OIL <input type="checkbox"/> GAS <input type="checkbox"/> STORAGE <input type="checkbox"/> INJECTION <input type="checkbox"/> BRINE WATER <input type="checkbox"/> WILDCAT |  |
| PERFORATIONS   |  | TO                                   |  | TO               |  | CUSTOMER REPRESENTATIVE   |  | DS SUPERVISOR   |  |
|  |  |                                      |  |                  |  | <i>[Signature]</i>  |  | <i>[Signature]</i>  |  |

CEMENTING SERVICE REPORT



DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 03-12-3666 DATE 3/25/91  
 STAGE DS DISTRICT 23-12

DS-496 PRINTED IN U.S.A.

WELL NAME AND NO. **NADEN #2-29** LOCATION (LEGAL) **SEC-29-32s-33w** RIG NAME: **H30 #1** **ORIGINAL**

FIELD-POOL **HUBOTON** FORMATION **SURFACE** WELL DATA: BIT SIZE **12 1/4** CSG/Liner Size **8 5/8** BOTTOM

COUNTY/PARISH **SEWARD** STATE **KS** API. NO. TOTAL

NAME **CABOT** MUD TYPE GRADE **669.85** WEIGHT **24.0**

AND  BHST  BHCT THREAD **820** FOOTAGE **669.85**

ADDRESS \_\_\_\_\_ MUD DENSITY LESS FOOTAGE SHOE JOINT(S) **625.65**

ZIP CODE \_\_\_\_\_ MUD VISC. Disp. Capacity **39.8**

SPECIAL INSTRUCTIONS **EQUIPMENT = MATERIALS** **To Do 8 5/8 SURFACE CASING**

NOTE: Include Footage From Ground Level To Head In Disp. Capacity

IS CASING/TUBING SECURED?  YES  NO

LIFT PRESSURE **241** PSI CASING WEIGHT + SURFACE AREA (3.14 x R<sup>2</sup>)

PRESSURE LIMIT \_\_\_\_\_ PSI BUMP PLUG TO **500 OVER** PSI

ROTATE \_\_\_\_\_ RPM RECIPROCATATE \_\_\_\_\_ FT No. of Centralizers **3**

Head & Plugs  TBG  D.P. SQUEEZE JOB

Double  WEIGHT  GRADE  THREAD

Single  GRADE  WEIGHT  D.P.

Swage  GRADE  WEIGHT  D.P.

Knockoff  THREAD

TOP  OR  W  NEW  USED

BOT  OR  W DEPTH

| TIME         | PRESSURE    |        | VOLUME PUMPED BBL |     | JOB SCHEDULED FOR |         |            | ARRIVE ON LOCATION |      | LEFT LOCATION |      |         |
|--------------|-------------|--------|-------------------|-----|-------------------|---------|------------|--------------------|------|---------------|------|---------|
|              | 788 OB D.P. | CASING | INCREMENT         | CUM | TIME              | DATE    | FLUID TYPE | FLUID DENSITY      | TIME | DATE          | TIME | DATE    |
| 0001 to 2400 |             |        |                   |     |                   |         |            |                    |      |               |      |         |
| 22:06        | 1860        |        |                   |     |                   | 3/25/91 | H2O        | 8.34               | 1900 | 3/25/91       | 2400 | 3/25/91 |
| 22:08        | 70          | 5      | 5                 |     |                   |         | H2O        | 8.34               |      |               |      |         |
| 22:09        | 160         | 78     | 6                 |     |                   |         | CMT        | 12.4               |      |               |      |         |
| 22:23        | 150         | 28     | 5                 |     |                   |         | CMT        | 16.4               |      |               |      |         |
| 22:29        | 20          |        |                   |     |                   |         |            |                    |      |               |      |         |
| 22:32        | 100         | 39.8   | 5                 |     |                   |         | H2O        | 8.34               |      |               |      |         |
| 22:38        | 170         |        | 2                 |     |                   |         | H2O        | 8.34               |      |               |      |         |
| 22:40        | 190         |        | 1                 |     |                   |         | H2O        | 8.34               |      |               |      |         |
| 22:41        | 190         |        | 1                 |     |                   |         | CMT        | 12.4               |      |               |      |         |
| 22:45        | 730         |        | 1                 |     |                   |         | H2O        | 8.34               |      |               |      |         |
| 22:46        | 0           |        |                   |     |                   |         |            |                    |      |               |      |         |
| 22:46        |             |        |                   |     |                   |         |            |                    |      |               |      |         |
| 22:46        |             |        |                   |     |                   |         |            |                    |      |               |      |         |

RECEIVED  
 STATE CORPORATE COMMISSION  
 JUL 31 1991  
 CONSERVATION DIVISION  
 Wichita, Kansas

REMARKS

| SYSTEM CODE | NO. OF SACKS | YIELD CU. FT/SK | COMPOSITION OF CEMENTING SYSTEMS            |         | SLURRY MIXED |         |  |
|-------------|--------------|-----------------|---|---------|--------------|---------|--|
|             |              |                 | BLS   | DENSITY | BLS          | DENSITY |  |
| 1.          | 220          | 1.98            | 35/65 P02/H + 6% D90 + 2% SI + 1/4 #1SK D09 | 78      | 12.4         |         |  |
| 2.          | 150          | 1.05            | CLASS H + 2% SI                             | 28      | 16.4         |         |  |
| 3.          |              |                 |   |         |              |         |  |
| 4.          |              |                 |   |         |              |         |  |
| 5.          |              |                 |   |         |              |         |  |
| 6.          |              |                 |   |         |              |         |  |

BREAKDOWN FLUID TYPE VOLUME DENSITY PRESSURE . MAX. MIN.

HESITATION SQ.  RUNNING SQ. CIRCULATION LOST  YES  NO Cement Circulated To Surf.  YES  NO **3** Bbls

BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. **39.8** Bbls TYPE  OIL  STORAGE  BRINE WATER

Washed Thru Perfs  YES  NO TO FT MEASURED DISPLACEMENT  WIRELINE  GAS  INJECTION  WILDCAT

PERFORATIONS TO TO CUSTOMER REPRESENTATIVE DS SUPERVISOR