

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 LEASE

Operator: License # 4549

Name: ANADARKO PETROLEUM CORPORATION

Address P. O. BOX 351

City/State/Zip LIBERAL, KANSAS 67905-0351

Purchaser: ANADARKO ENERGY SERVICES

Operator Contact Person: SHAWN D. YOUNG

Phone (316) 624-6253

Contractor: Name: NA

License: NA

Wellsite Geologist: NA 12-28-1998

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:

Operator: ANADARKO PETROLEUM CORPORATION

Well Name: BROWN 1-13

Comp. Date 12-24-97 Old Total Depth 3281

Deepening Re-perf. Conv. to Inj/SwD
 Plug Back 3240 PBDT
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

8-10-98 -- 9-7-98
Spud Date Date Reached TD Completion Date

API NO. 15- NA (SPUD 12-10-97) 15-129-1D468-0001

County MORTON

--- --- C --- NW Sec. 13 Twp. 34 Rge. 42 X E

1320 Feet from X (N) (circle one) Line of Section

1320 Feet from X (W) (circle one) Line of Section

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

Lease Name BROWN Well # 1-13

Field Name GREENWOOD

Producing Formation WABAUNSEE, TOPEKA, GREENWOOD, LANSING

Elevation: Ground 3451 KB _____

Total Depth 3281 PBDT 3240

Amount of Surface Pipe Set and Cemented at 603 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.

Drilling Fluid Management Plan DWLD - 12-31-98 UIC.
(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

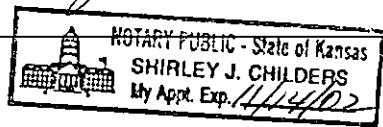
County _____ Docket No. _____

STATE CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
Wichita, Kansas
RECEIVED
DEC 28 1998
STATE CORPORATION COMMISSION

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 Shawn D. Young
Title DIVISION PRODUCTION ENGINEER Date 12/23/98
Subscribed and sworn to before me this 23rd day of December
19 98.
Notary Public Shirley J. Childers
Date Commission Expires _____



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)

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name BROWN Well # 1-13

Sec. 13 Twp. 34 Rge. 42 East West
 County MORTON

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:

Log Formation (Top), Depth and Datums Sample
 Name Top Datum
 SEE ATTACHED WELL LOG

| ** Original Completion 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 | | 7" | | 603 | | | |
| ** PRODUCTION | | 4-1/2" | | 3274 | | | |
| | | | | | | | |

| ADDITIONAL CEMENTING/SQUEEZE RECORD | | | | |
|---|------------------|-----------------------|-------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | #Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone | 2785-2870 | CLASS "H" "H" NEAT | 125 | 2% cc |

| 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 | 2750-2764 (WABAUNSEE) | | ACID: (WABAUNSEE) W/ 1200 GAL 15% FeHCl |
| | | | | |
| | | | | |
| | | | | |
| TUBING RECORD | Size | Set At | Packer At | Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| | 2-1/16" | 3224 | | |
| Date of First, Resumed Production, SWD or Inj. RESUMED: 9-2-98 | | 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. | Gas Mcf | Water Bbls. | Gas-Oil Ratio Gravity |
| | 0 | 221 | 15 | |

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.) METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled 2750-3220 OA
 Other (Specify) _____

WELL LOG

ORIGINAL

COMPANY Panhandle Eastern Pipe Line Company

SEC. 13 T. 34S R. 42W
LOG. C/NW $\frac{1}{4}$

FARM Brown

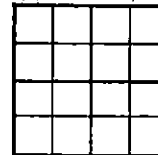
NO. 1-13

TOTAL DEPTH 3281'
COMM. 12-10-57

COMP. 12-24-57

COUNTY Morton
KANSAS

SHOT OR TREATED
CONTRACTOR Lewis Drilling Company
ISSUED



CASING

20 10
15 7" - 610'
12 6
13 4 $\frac{1}{2}$ " - 3274'

ELEVATION

PRODUCTION

FIGURES INDICATE BOTTOM OF FORMATIONS

| | |
|-----------|-----------------|
| 0-220 | Sand & Shale |
| 220-610 | Shale & Red bed |
| 610-800 | Red bed & sand |
| 800-820 | Anhydrite |
| 820-875 | Shale & shells |
| 875-915 | Anhydrite |
| 915-1094 | Shale & sand |
| 1094-1255 | Sand |
| 1255-1355 | Red bed & shale |
| 1355-1370 | Anhydrite |
| 1370-2110 | Shale |
| 2110-2245 | Shale & lime |
| 2245-2440 | Shale |
| 2440-2754 | Shale & lime |
| 2754-2875 | Shale |
| 2875-3281 | Shale & lime |
| 3281 | Total depth |

CONSERVATION DIVISION
Wichita, Kansas

DEC 28 1958

RECEIVED
STATE COMMISSION

State of Kansas)
County of Sedgwick) ss:

I, William J. Duckett of the Lewis Drilling Company
upon oath state that the above and foregoing is a true and correct copy of the log of the Brown #1-13 well.

William J. Duckett

Subscribed and sworn to before me this 27th day of December 19 57

My Commission Expires: 8-20-60

A. R. Derrington
(A. R. Derrington) PUBLIC