

ORIGINAL

FORM MUST BE TYPED

0

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

CONFIDENTIAL

Operator: License # 04680
Name: American Exploration Company
Address 1331 Lamar, Suite 900

City/State/Zip Houston, Texas 77010
Purchaser: KN Gas Marketing
Operator Contact Person: Melinda Mayse
Phone (713) 756-6338
Contractor: Name: Cheyenne Drilling
License: 5382
Wellsite Geologist: N/A
Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD SIGW Temp. Abd.
 Gas EHMR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____
 Deepening Re-perf. (Specify Inj/SWD)
 Plug Back _____ PSTD
 Commingled _____ Docket No. _____
 Dual Completion _____ Docket No. _____
 Other (SWD or Inj?) Docket No. _____
8/23/97 8/25/97 9/17/97
Spud Date Date Reached TD Completion Date

RELEASED

JAN 29 1999

FROM CONFIDENTIAL

API NO. 15- 075-206540000
County Hamilton
SE Sec. 9 Twp. 22 Rge. 40 E
1320 Feet from (S) (circle one) Line of Section
1250 Feet from (E) (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, (S), NW or SW (circle one)
Lease Name HCU Well # 9-20B
Field Name Bradshaw
Producing Formation Chase
Elevation: Ground 3551 KB _____
Total Depth 2981 PSTD 2928
Amount of Surface Pipe Set and Cemented at 281 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from 2972
feet depth to Surface w/ 480 ex cmt.

Drilling Fluid Management Plan ALT 2 9/16 2-10-98
(Data must be collected from the Reserve Pit)

Chloride content 23,000 ppm Fluid volume 800 bbls
Dewatering method used Evaporation
Location of fluid disposal, if hauled offsite: _____
Operator Name OCT 20
Lease Name CONFIDENTIAL License No. _____
Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W
County _____ Docket No. _____

10-22-99

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 Melinda Mayse
Title Regulatory Coordinator Date 10/17/97
Subscribed and sworn to before me this 17th day of October, 19 97.
Notary Public Annette Dziabiak
Date Commission Expires 7-1-98

ANNETTE DZIABIAK
NOTARY PUBLIC, STATE OF KANSAS
MY COMMISSION EXPIRES
JULY 1, 1998

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

Operator Name American Exploration Company Lease Name HCU Well # 9-20B

Sec. 9 Twp. 22 Rge. 40 East County Hamilton
 West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time test 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:
 Gamma
 D/S
 CNS/PDS

Log Formation (Top), Depth and Returns Sample
 Name Top Datum

See Attached

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 | 24# | 2187 | Class C | 150 | 2% CC, 1/4 flake |
| Production | 7 7/8 | 4 1/2 | 9.5# | 2976 | Class C | 330 | 3% D79, 2% CC, 2% D46, 1/4# flake |
| | | | | | Class C | 150 | 2% CC, 1/4# flake |

ADDITIONAL CEMENTING/SQUEEZE RECORD

| Purpose: | Depth Top Bottom | Type of Cement | #Sacks Used | Type and Percent Additives |
|---|------------------|----------------|-------------|----------------------------|
| <input type="checkbox"/> Perforate | | | | |
| <input type="checkbox"/> Protect Casing | | | | |
| <input type="checkbox"/> Plug Back TD | | | | |
| <input type="checkbox"/> 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 |
|----------------|--|--|
| 2 | 2718-2722 | Acidized w/1500 gal. 7.5% HCl |
| 2 | 2726-2738 | Frac w/14,300 Gal 65 Quaility |
| | | N2 Foam and 30,000# 12/20 SD |

TUBING RECORD Size 2 3/8 Set At 2859 Packer At _____ Liner Run Yes No

Date of First, Resumed Production, SVD or Inj. 9/22/97 Producing Method Flowing Pumping Gas Lift Other (Explain)

| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
| | 0 | 73 | 375 | | |

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
2718-2722
2726-2738

RELEASED

ORIGINAL

Cementing Service Report

15-075-20654-0000

JAN 29 1999

Schlumberger
Dowell

Customer: AMERICAN EXPLORATION COMPANY Job Number: 20016117

FROM CONFIDENTIAL

| | | | | | | | | | |
|---|--|--|--|---|--|-------------------------------|--|-----------------------|--|
| Well: HCU 1920B-1920B | | Location (legal): 19, 22S, 40W | | Dowell Location: Ulysses, KS | | Service Date: 8/24/97 | | | |
| Field: Bradshaw | | Formation Name/Type: CHASE | | Deviation: 0 | | Well MD: 2,976 ft | | | |
| County: Hamilton | | State/Province: KS | | BHP: 0 psi | | Well TVD: 2,976 ft | | | |
| Rig Name: CHEYENNE 8 | | Drilled For: Gas | | Service Via: Land | | Casing/Liner | | | |
| Water Depth: | | Well Class: 101 | | Well Type: Development | | Depth, ft: 2976 | | | |
| Drilling Fluid Type: Bentonite | | Max. Density: 9.3 lb/gal | | Plastic Viscosity: 0 cp | | Tubing/Drill Pipe | | | |
| Service Line: Cementing | | Job Type: Cem Prod Casing | | Depth, ft: 0 | | Size, in: 4.5 | | | |
| Max. Allowed Tubing Pressure: 2000 psi | | Max. Allowed Ann. Pressure: 0 psi | | Wellhead Connection: Single cement head | | Weight, lb/ft: 9.5 | | | |
| Service Instructions: SUPPLY EQUIPMENT, MATERIALS AND PERSONNEL TO CEMENT 4 1/2" CASING PER CUSTOMER REQUEST | | Perforations/Open Hole | | Depth, ft: 0 | | Grade: 0 | | | |
| CONFIDENTIAL | | Top, ft: 0 | | Bottom, ft: 0 | | spf: 0 | | | |
| | | No. of Shots: 0 | | Total Interval: 0 ft | | Diameter: 0 in | | | |
| | | Treat Down Casing: 0 ft | | Displacement: 47.5 bbl | | Packer Type: 0 ft | | Packer Depth: 0 ft | |
| | | Tubing Vol.: 0 bbl | | Casing Vol.: 48.2 bbl | | Annular Vol.: 0 bbl | | Open Hole Vol.: 0 bbl | |
| Casing/Tubing Secured: <input type="checkbox"/> | | 1 Hole Volume Circulated prior to Cementing: <input checked="" type="checkbox"/> | | Casing Tools | | Squeeze Job | | | |
| Lift Pressure: 687 psi | | Pipe Rotated: <input type="checkbox"/> | | Pipe Reciprocated: <input type="checkbox"/> | | Shoe Type: Guide | | | |
| No. Centralizers: 6 | | Top Plugs: 1 | | Bottom Plugs: 0 | | Shoe Depth: 2976 ft | | | |
| Cement Head Type: Single | | Job Scheduled For: 8/25/97 3:00 | | Arrived on Location: 8/25/97 2:45 | | Leave Location: 8/25/97 11:30 | | | |
| Stage Tool Type: | | Stage Tool Depth: 0 ft | | Coiler Type: Auto-Fill | | Tool Type: | | | |
| Job Scheduled For: 8/25/97 3:00 | | Arrived on Location: 8/25/97 2:45 | | Leave Location: 8/25/97 11:30 | | Tool Depth: 0 ft | | | |
| Coiler Type: Auto-Fill | | Coiler Depth: 2933 ft | | Tail Pipe Size: 0 in | | Tail Pipe Depth: 0 ft | | | |
| Seqz Total Vol: 0 bbl | | Casing Tools | | Squeeze Job | | Tail Pipe Depth: 0 ft | | | |
| Time | | Cum/Vol | | Density | | Pressure UI | | | |
| 24 hr clock | | bbl | | ppg | | psi | | | |
| Tot Flowrate | | | | | | Message | | | |
| bpm | | | | | | | | | |
| 8:43 | | 0 | | 0 | | 0 | | | |
| 8:43 | | 0 | | 8.356 | | 9.158 | | | |
| 8:43 | | 0 | | 0 | | 0 | | | |
| 8:44 | | .3053 | | 8.359 | | 401.9 | | | |
| 8:44 | | 0 | | 0 | | 0 | | | |
| 8:44 | | .3386 | | 8.361 | | 2616 | | | |
| 8:45 | | .3587 | | 8.364 | | 15.81 | | | |
| 8:46 | | .4805 | | 8.363 | | 12.18 | | | |
| 8:46 | | 0 | | 0 | | 0 | | | |
| 8:47 | | 1.095 | | 8.306 | | 197.5 | | | |
| 8:47 | | 5.114 | | 8.294 | | 261 | | | |
| 8:48 | | 9.225 | | 8.301 | | 261 | | | |
| 8:48 | | 0 | | 0 | | 0 | | | |
| 8:48 | | 0 | | 0 | | 0 | | | |
| 8:48 | | 0 | | 0 | | 0 | | | |
| 8:49 | | 3.091 | | 8.271 | | 258.6 | | | |
| 8:50 | | 7.184 | | 8.299 | | 265.5 | | | |
| 8:50 | | 0 | | 0 | | 0 | | | |
| 8:50 | | 0 | | 0 | | 0 | | | |
| 8:50 | | .7463 | | 10.85 | | 273.4 | | | |
| | | | | | | | | | |

CONFIDENTIAL

OCT 20

| Well | | Field | | | | Service Date | Customer | Job Number |
|------------------|--------|----------|-------------|-------------|----------|--------------|-----------------------|--------------------------|
| HCU 1920B #1920B | | Bradshaw | | | | 8/24/97 | RICAN EXPLORATION COM | 20016117 |
| Time | CumVol | Density | Pressure U1 | TotFlowrate | ORIGINAL | | | Message |
| 24 hr clock | bbl | ppg | psl | bpm | | | | |
| 8:51 | 4.836 | 10.68 | 274.1 | 5.547 | 0 | 0 | 0 | |
| 8:52 | 8.917 | 10.71 | 251.3 | 5.562 | 0 | 0 | 0 | |
| 8:53 | 13 | 10.83 | 228.8 | 5.57 | 0 | 0 | 0 | |
| 8:53 | 16.54 | 11.23 | 126.9 | 3.812 | 0 | 0 | 0 | |
| 8:54 | 19.41 | 11.15 | 108 | 3.813 | 0 | 0 | 0 | |
| 8:55 | 22.21 | 11.13 | 91.62 | 3.83 | 0 | 0 | 0 | CONFIDENTIAL |
| 8:56 | 25.03 | 11.46 | 81.55 | 3.83 | 0 | 0 | 0 | |
| 8:56 | 27.83 | 11.96 | 85.06 | 3.791 | 0 | 0 | 0 | |
| 8:57 | 31.64 | 10.98 | 147.3 | 5.563 | 0 | 0 | 0 | |
| 8:58 | 35.72 | 11.07 | 149.9 | 5.555 | 0 | 0 | 0 | |
| 8:58 | 39.8 | 11.32 | 154.3 | 5.549 | 0 | 0 | 0 | |
| 8:59 | 43.99 | 10.83 | 146.7 | 5.56 | 0 | 0 | 0 | |
| 9:00 | 48.07 | 11.72 | 160.6 | 5.54 | 0 | 0 | 0 | |
| 9:01 | 52.17 | 11.12 | 145.7 | 5.569 | 0 | 0 | 0 | |
| 9:01 | 56.27 | 10.95 | 143.1 | 5.58 | 0 | 0 | 0 | |
| 9:02 | 60.35 | 11.4 | 155.5 | 5.551 | 0 | 0 | 0 | |
| 9:03 | 64.43 | 11.11 | 151.5 | 5.562 | 0 | 0 | 0 | |
| 9:04 | 68.53 | 11.06 | 149.2 | 5.562 | 0 | 0 | 0 | |
| 9:04 | 72.61 | 11.07 | 151.1 | 5.56 | 0 | 0 | 0 | |
| 9:05 | 76.8 | 11.22 | 152 | 5.558 | 0 | 0 | 0 | |
| 9:06 | 80.89 | 11.27 | 154.9 | 5.564 | 0 | 0 | 0 | |
| 9:07 | 84.98 | 11.28 | 153.8 | 5.547 | 0 | 0 | 0 | RELEASED |
| 9:07 | 89.06 | 10.91 | 151.2 | 5.552 | 0 | 0 | 0 | |
| 9:08 | 93.14 | 10.86 | 151.8 | 5.554 | 0 | 0 | 0 | |
| 9:09 | 97.22 | 10.91 | 148.1 | 5.558 | 0 | 0 | 0 | JAN 29 1999 |
| 9:10 | 101.4 | 10.95 | 152.6 | 5.571 | 0 | 0 | 0 | |
| 9:10 | 105.5 | 10.99 | 155 | 5.567 | 0 | 0 | 0 | FROM CONFIDENTIAL |
| 9:11 | 109.6 | 11.28 | 156.6 | 5.55 | 0 | 0 | 0 | |
| 9:12 | 113.7 | 11.07 | 155.7 | 5.559 | 0 | 0 | 0 | |
| 9:13 | 117.8 | 10.75 | 148.8 | 5.587 | 0 | 0 | 0 | |
| 9:13 | 121.9 | 11.37 | 159.4 | 5.56 | 0 | 0 | 0 | |
| 9:14 | 126 | 11.2 | 153.8 | 5.573 | 0 | 0 | 0 | |
| 9:15 | 130.1 | 11.11 | 156.5 | 5.583 | 0 | 0 | 0 | |
| 9:15 | 134.3 | 11.04 | 155.7 | 5.581 | 0 | 0 | 0 | |
| 9:16 | 138.4 | 11.08 | 156.5 | 5.574 | 0 | 0 | 0 | |
| 9:17 | 142.5 | 11.18 | 159.5 | 5.567 | 0 | 0 | 0 | |
| 9:18 | 146.6 | 11.04 | 157.3 | 5.571 | 0 | 0 | 0 | NULL |
| 9:18 | 150.7 | 10.91 | 155.7 | 5.583 | 0 | 0 | 0 | |
| 9:19 | 154.8 | 10.81 | 158.6 | 5.567 | 0 | 0 | 0 | OCT 20, |
| 9:20 | 158.9 | 11.37 | 161.7 | 5.551 | 0 | 0 | 0 | |
| 9:21 | 163.1 | 10.96 | 156.8 | 5.569 | 0 | 0 | 0 | CONFIDENTIAL |
| 9:21 | 167.2 | 10.85 | 154.9 | 5.57 | 0 | 0 | 0 | |
| 9:22 | 171.3 | 10.95 | 155.8 | 5.557 | 0 | 0 | 0 | |
| 9:23 | 175.4 | 11 | 160.2 | 5.557 | 0 | 0 | 0 | |
| 9:24 | 179.5 | 11.01 | 159.3 | 5.563 | 0 | 0 | 0 | |
| 9:24 | 183.6 | 11.07 | 158.1 | 5.554 | 0 | 0 | 0 | |
| 9:25 | 187.6 | 11.31 | 160.9 | 5.543 | 0 | 0 | 0 | |
| 9:25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | [CumVol]=189.9 bbl |
| 9:25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Reset Volume |
| 9:26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Start Mixing Tail Slurry |
| 9:26 | 1.678 | 11.54 | 157.1 | 5.556 | 0 | 0 | 0 | |
| 9:27 | 5.569 | 15.11 | 126.9 | 3.874 | 0 | 0 | 0 | |
| 9:27 | 8.497 | 15.1 | 216.7 | 5.232 | 0 | 0 | 0 | |

| Well | | Field | | | Service Date | Customer | Job Number |
|------------------|--------|----------|-------------|-------------|--------------|-----------------------|------------|
| HCU 1920B #1920B | | Bradshaw | | | 8/24/97 | RICAN EXPLORATION CON | 20016117 |
| Time | CumVol | Density | Pressure U1 | TotFlowrate | Message | | |
| 24 hr clock | bbl | ppg | psi | bpm | | | |
| 9:28 | 11.98 | 14.6 | 123.7 | 3.807 | 0 | 0 | 0 |
| 9:29 | 14.76 | 15.79 | 145 | 3.772 | 0 | 0 | 0 |
| 9:29 | 17.55 | 14.86 | 128.2 | 3.795 | 0 | 0 | 0 |
| 9:30 | 20.34 | 14.93 | 125.8 | 3.795 | 0 | 0 | 0 |
| 9:31 | 24.25 | 14.69 | 220 | 5.514 | 0 | 0 | 0 |
| 9:32 | 27.36 | 14.61 | 123.9 | 3.811 | 0 | 0 | 0 |
| 9:32 | 30.15 | 14.92 | 126.8 | 3.784 | 0 | 0 | 0 |
| 9:33 | 32.94 | 14.93 | 127.4 | 3.785 | 0 | 0 | 0 |
| 9:34 | 35.72 | 14.44 | 127 | 3.806 | 0 | 0 | 0 |
| 9:34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:39 | 36.16 | 8.874 | 18.32 | .1919 | 0 | 0 | 0 |
| 9:39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:40 | .2004 | 8.74 | 26.96 | 1.436 | 0 | 0 | 0 |
| 9:40 | 3.678 | 8.838 | 123.6 | 5.68 | 0 | 0 | 0 |
| 9:41 | 7.865 | 8.88 | 114.5 | 5.705 | 0 | 0 | 0 |
| 9:42 | 12.06 | 8.771 | 114.5 | 5.707 | 0 | 0 | 0 |
| 9:43 | 16.25 | 8.695 | 114.9 | 5.708 | 0 | 0 | 0 |
| 9:43 | 20.45 | 8.639 | 166.8 | 5.675 | 0 | 0 | 0 |
| 9:44 | 24.59 | 8.639 | 252.1 | 5.621 | 0 | 0 | 0 |
| 9:44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:45 | 28.71 | 8.489 | 349.8 | 5.568 | 0 | 0 | 0 |
| 9:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:46 | 32.79 | 8.608 | 440.5 | 5.516 | 0 | 0 | 0 |
| 9:46 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:46 | 36.21 | 8.518 | 397.9 | 2.319 | 0 | 0 | 0 |
| 9:47 | 37.74 | 8.607 | 432 | 2.029 | 0 | 0 | 0 |
| 9:48 | 39.19 | 8.603 | 465.1 | 1.929 | 0 | 0 | 0 |
| 9:49 | 40.6 | 8.536 | 496.3 | 1.827 | 0 | 0 | 0 |
| 9:49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:49 | 41.92 | 8.519 | 527.6 | 1.766 | 0 | 0 | 0 |
| 9:50 | 43.19 | 8.548 | 559.9 | 1.709 | 0 | 0 | 0 |
| 9:51 | 44.69 | 8.535 | 606.5 | 2.3 | 0 | 0 | 0 |
| 9:51 | 46.28 | 8.599 | 634.2 | 2.076 | 0 | 0 | 0 |
| 9:52 | 47.78 | 8.608 | 663.6 | 2 | 0 | 0 | 0 |
| 9:53 | 48.94 | 8.484 | 1441 | .1048 | 0 | 0 | 0 |
| 9:53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:54 | 48.94 | 8.615 | 915 | 71E-8 | 0 | 0 | 0 |
| 9:54 | 48.95 | 8.609 | 27.18 | 2498E-7 | 0 | 0 | 0 |
| 9:55 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:55 | 48.95 | 5.06 | 27.47 | 1993E-10 | 0 | 0 | 0 |

ORIGINAL

CONFIDENTIAL

RELEASED
JAN 29 1999

FROM CONFIDENTIAL

HCU

OCT 20

CONFIDENTIAL

| | | | | | | | |
|--|------------------------|-------------------|-----------------------------------|-------------------------------|--|---|------------------------|
| Well HCU 1920B #1920B | | Field Bradshaw | | | Service Date 8/24/97 | Customer RICAN EXPLORATION CON | Job Number 20016117 |
| Time 24 hr clock | CumVol bbl | Density ppg | Pressure U1 psi | TotFlowrate bpm | ORIGINAL Message | | |
| Post Job Summary | | | | | | | |
| Average Pump Rates, bpm | | | | Volume of Fluid Injected, bbl | | | |
| Slurry | N2 | Mud | Maximum Rate | Total Slurry | Mud | Spacer | N2 |
| 3.7 | 0 | 0 | 5.6 | 226 | 0 | 20 | 0 |
| Treating Pressure Summary, psi | | | | Breakdown Fluid | | | |
| Maximum | Final | Average | Bump Plug to | Breakdown | Type | Volume | Density |
| 687 | 687 | 300 | 0 | 0 | | 0 bbl | 0 lb/gal |
| Avg. N2 Percent | Designed Slurry Volume | | Displacement | | <input checked="" type="checkbox"/> Cement Circulated to Surface? Volume 40 SKS bbl 23 <input type="checkbox"/> Washed Thru Perfs To 0 ft | | |
| 0 % | 0 bbl | | 48 bbl | | | | |
| Customer or Authorized Representative Hawk Demoss | | | Dowell Supervisor Charley King | | | Circulation Lost <input type="checkbox"/> Job Completed <input checked="" type="checkbox"/> | |

CONFIDENTIAL

RELEASED

JAN 29 1999

FROM CONFIDENTIAL

HCU
OCT 20
CONFIDENTIAL

CEMENTING SERVICE REPORT

Schlumberger
Dowell

15-075-20654-0000

TREATMENT NUMBER: 20016013
DATE: 8-23-87
STAGE: DS DISTRICT

DS-498-A PRINTED IN U.S.A.

WELL NAME AND NO. HCU # 9-20B Sec. 9-225-40W
FIELD POOL FORMATION

COUNTY/PARISH HAMILTON STATE La. API. NO.

NAME American Exploration

RIG NAME: Cheyenne # 8

WELL DATA: BIT SIZE 2 7/8, CSG/Liner Size 2 7/8, TOP OF DEPTH 24, WEIGHT 218, MUD TYPE 355, GRADE 355, MUD DENSITY 8.24, LESS FOOTAGE SHOE JOINT(S) 44, MUD VISC. 11, DISP. CAPACITY 11

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

ORIGINAL

CONFIDENTIAL

ADDRESS ZIP CODE

SPECIAL INSTRUCTIONS

IS CASING/TUBING SECURED? YES NO

LIFT PRESSURE 90 PSI CASING WEIGHT ÷ SURFACE AREA (3.14 x R²)

PRESSURE LIMIT PSI BUMP PLUG TO 524 PSI

ROTATE RPM RECIPROCATATE FT No. of Centralizers 2

Head & Plugs: Double, Single, Swage, Knockoff, TBG, D.P., D.P., SQUEEZE JOB

TOOL TYPE: DEPTH

TAIL PIPE: SIZE DEPTH

TUBING VOLUME Bbls

CASING VOL. BELOW TOOL Bbls

TOTAL Bbls

ANNUAL VOLUME Bbls

| TIME | PRESSURE | | VOLUME PUMPED bbl | | JOB SCHEDULED FOR | | | ARRIVE ON LOCATION | | LEFT LOCATION | |
|--------------|-------------|--------|-------------------|-----|-------------------|------|------|--------------------|------|---------------|--|
| | TBG OR D.P. | CASING | INCREMENT | CUM | TIME | DATE | TIME | DATE | TIME | DATE | |
| 0001 to 2400 | | | | | | | | | | | |
| 1448 | | | | | | | | | | | |
| 1449 | | 0 | 3 | | 5.5 | H2O | | | | | |
| 1449 | | 130 | 37 | | 5.3 | cmf | 14.8 | | | | |
| 1453 | | 195 | | 20 | 5.5 | cmf | 14.8 | | | | |
| 1456 | | 0 | | | | | | | | | |
| 1459 | | 0 | 11 | | 5.4 | H2O | | | | | |
| 1500 | | 105 | | 5 | 5.4 | H2O | | | | | |
| 1501 | | 110 | | 8 | 2 | | | | | | |
| 1501 | | 50 | | 9 | 2 | | | | | | |
| 1503 | | 524 | | 11 | 2 | | | | | | |
| 1504 | | | | | RELEASED | | | | | | |
| 1505 | | | | | JAN 2 @ 1990 | | | | | | |
| 1505 | | 657 | | | | | | | | | |
| 1507 | | | | | | | | | | | |
| 1508 | | | | | | | | | | | |
| 1508 | | 481 | | | | | | | | | |
| 1509 | | | | | | | | | | | |

REMARKS: Flat did not hold

| SYSTEM CODE | NO. OF SACKS | YIELD CU. FT/SK | COMPOSITION OF CEMENTING SYSTEMS | | SLURRY MIXED | |
|-------------|--------------|-----------------|----------------------------------|--|--------------|---------|
| | | | | | BBLs | DENSITY |
| 1. | 155 | 1.34 | class C + 2% caliz + 4 1/2 2.9 | | 36.9 | 14.8 |
| 2. | | | | | | |
| 3. | | | | | | |
| 4. | | | | | | |
| 5. | | | | | | |
| 6. | | | | | | |

OCT 20

CONFIDENTIAL

BREAKDOWN FLUID TYPE: HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO

BREAKDOWN: PSI FINAL PSI DISPLACEMENT VOL. 11 Bbls

Washed Thru Perfs: YES NO TO FT. MEASURED DISPLACEMENT 11 Bbls

PERFORATIONS: TO TO TO TO

CUSTOMER REPRESENTATIVE: H. H. H.

DS SUPERVISOR: T. M. F.