

KANSAS

WELL COMPLETION REPORT AND
DRILLER'S LOG

S. 23 T. 19S R. 5W W W
Loc. 660' N 2380' W SE c NE/4
County Rice
640 Acres

API No. 15 — 113 — 20,765
County Number

Operator Mid-America Pipeline System, Mapco C-54
a division of MAPCO, Inc.

MCPHERSON COUNTY

Mid-America Pipeline System, a Division of MAPCO Inc., P.O. Box 1336, McPherson, KS, MAPCO
Underground Stg. Co., Sec. 23-19S-5W, (Sterling Drlg.), Rotary, LPG Storage, T.D. 710', S.P. 200'.
Alt. 1, on the following wells:

67460

15-113-20,764, #53, 660' N 1980' W SE c NE $\frac{1}{4}$, 9/80.

15-113-20,765, #54, 660' N 2380' W SE c NE $\frac{1}{4}$, 9/80.

| | | | |
|---|----------------------------------|----------------------------|----------|
| Principal Contractor Sterling Drilling Company | | Geologist | |
| Spud Date 9-14-80 | Date Completed 9-17-80 | Total Depth 740' | P.B.T.D. |
| Directional Deviation $\frac{3}{4}^{\circ}$ at 80'; $\frac{3}{8}^{\circ}$ at 150'; $\frac{1}{4}^{\circ}$ at 210'; $\frac{1}{2}^{\circ}$ at 200'; $\frac{3}{4}^{\circ}$ at 400'; $\frac{5}{8}^{\circ}$ at 450'; $\frac{3}{8}^{\circ}$ at 500'; $\frac{3}{8}^{\circ}$ at 600' | | Oil and/or Gas Purchaser | |
| Elev.: Gr. _____ DF _____ KB _____ | | | |



CASING RECORD

Report of all strings set — surface, intermediate, production, etc.

| Purpose of string | Size hole drilled | Size casing set (in O.D.) | Weight lbs/ft. | Setting depth | Type cement | Sacks | Type and percent additives |
|-------------------|-------------------|---------------------------|----------------|---------------|---------------------------------------|------------|----------------------------|
| Surface | 24" | 18" | | 201' | No. 1 Pozmix | 325 | 3% cc |
| Production | 17 1/4" | 13 3/8" | | 596' | 50/50 Pozmix Common Neat Cement | 250 200 | |
| | | | | | | | |
| | | | | | | | |

LINER RECORD

PERFORATION RECORD

| Top, ft. | Bottom, ft. | Sacks cement | Shots per ft. | Size & type | Depth interval |
|----------|-------------|--------------|---------------|-------------|----------------|
| | | | | | |
| | | | | | |
| | | | | | |

| Size | Setting depth | Packer set at |
|------|---------------|---------------|
| | | |
| | | |
| | | |

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

| Amount and kind of material used | Depth interval treated |
|----------------------------------|------------------------|
| | |
| | |
| | |
| | |

INITIAL PRODUCTION

| | | | | | |
|--|--------------|---|------------------------|-----------------------|--|
| Date of first production | | Producing method (flowing, pumping, gas lift, etc.) | | | |
| RATE OF PRODUCTION PER 24 HOURS | Oil bbls. | Gas MCF | Water bbls. | Gas-oil ratio CFPB | |
| Disposition of gas (vented, used on lease or sold) | | | Producing interval (s) | | |

INSTRUCTIONS: As provided in KCC Rule 82-2-125, within 90 days after completion of a well, one completed copy of this Drillers Log shall be transmitted to the State Geological Survey of Kansas, 4150 Monroe Street, Wichita, Kansas 67209. Copies of this form are available from the Conservation Division, State Corporation Commission, 245 No. Water, Wichita, Kansas 67202. Phone AC 316-522-2206. If confidential custody is desired, please note Rule 82-2-125. Drillers Logs will be on open file in the Oil and Gas Division, State Geological Survey of Kansas, Lawrence, Kansas 66044.

| | | |
|--|------------------------------------|---|
| Operator MID-America Pipeline System, a division of MAPCO, Inc. | | DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.: LP Gas Storage |
| Well No. C-54 | Lease Name MAPCO LP Gas Storage | |
| S <u>23</u> T <u>19SR 5W</u> ^R _W | | |

WELL LOG

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN,
OR OTHER DESCRIPTIVE INFORMATION.

| FORMATION DESCRIPTION, CONTENTS, ETC. | TOP | BOTTOM | NAME | DEPTH |
|--|-----|--------|------|-------|
| <p>USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.</p> | | | | |

| | |
|---------------|--|
| Date Received | MIS-AMERICA PIPELINE SYSTEM <i>Phil Roberts</i> Signature <i>Operations Supervisor</i> Title 10-14-80 Date |
|---------------|--|

STERLING DRILLING COMPANY
P. O. Box 129
Sterling, Kansas 67579

23-19-5W

WELL LOG - - - - - MAPCO LP Gas Storage C-54
Located: 660' N; 2380' W SE c NE/4, Section 23-19S-5W,
McPherson County, Kansas

OWNER: Mid-America Pipeline System, a division of MAPCO Inc.
ROTARY DRILLING CONTRACTOR: Sterling Drilling Company

COMMENCED: September 14, 1980
COMPLETED: September 17, 1980

TOTAL DEPTH: 740'

| <u>LOG</u> | <u>CASING RECORD</u> |
|-----------------|--|
| 0 - 490 Shale | Ran 5 joints 18" D.D. casing, 201.52' set at 201' G.L. Cemented with 325 sacks No. 1 Pozmix with 3% cc. Plug down at 11:15 AM, 9-15-80, by Howco. |
| 490 - 722 Salt | |
| 722 - 740 Shale | Ran 20 joints 13 3/8" casing, 608.96' set at 596' G.L. Cemented with 250 sacks 50/50 Pozmix, followed with 200 sacks Common Neat Cement. Plug down at 2:00 PM, 9-17-80, by Howco. |
| | 8 5/8" Cap String hung at 600'. 5 1/2" Wash String hung at 720'. |

Deviation Surveys: 3/4° at 80'
3/8° at 150'
1/4° at 210'
1/2° at 300'
3/4° at 400'
5/8° at 450'
3/8° at 500'
3/8° at 600'