**Artificial Penetration No. 766**

Kilmarnock Oil Company
Lutcher Moore #8

3-03246

FORM W-1
(3-1-70)

# RAILROAD COMMISSION OF TEXAS
## OIL AND GAS DIVISION

API Well No. 42- 361 30113

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Check one: ☒ DRILL ☐ DEEPEN ☐ PLUG BACK ☐ OTHER (Specify) _____

| | |
|---|---|
| 1. Operator: Kilmarnock Oil Company | 4. Lease Name: Lutcher Moore |
| 2. Address (Including City and Zip Code): P.O. Box 1001, Corsicana, Texas 75110 | 5. Location (Sec., Blk., Survey): James Dyson Survey |
| 3. Is Form P-5 (Organization Report) in Exact Operator Name Filed? YES ☒ ✓ NO ☐ | 6. This well is to be located 1/2 miles East Direction from Orangefield. Nearest Post Office or Town. |
| 7. RRC District: 3 | 8. County: Orange |
| 9. Well Number: 8 | 10. Number of Acres in Lease: 10.66 |
| 11. Distance from Proposed Location to Nearest Property or Lease Line (ft.): 95 | |

10

### EACH PROPOSED COMPLETION

| 12. Field Name (Exactly as shown on R. R. C. Proration Schedule including Reservoir if applicable.) If Wildcat, so state below. | 13. Completion Depth | 14. RRC Lease or ID Number (If applicable) | 15. Field Rule Spacing Pattern (Distance to lease line & distance between wells. If no special rules, indicate statewide Rule 37.) | 16. Field Rule Proration Unit Pattern. (Acres. If no special rules, indicate statewide Rule 38) | 17. Number of Acres in Drilling Unit for this Well | 18. Is this acreage presently assigned to another well in same field? (Yes or No. If yes, explain in remarks.) | 19. Distance from proposed location to nearest drilling completed or applied for well in same reservoir on same lease (ft.) | 20. Is this a Regular Location? (Yes or No) | 21. Oil, Gas, or other Type Well (Specify) | 22. Number of Wells or Permitted locations on this Lease in same Reservoir for which this Permit is Requested. OIL | GAS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Orange | 5700 | 03246 | PTSD | PTSD | PTSD | No | 120 | yes | oil | 5 | 0 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

P-15D

RECEIVED RRC OF TEXAS JAN 19 1976

361 30113

**NOTICE**

NO ALLOWABLE WILL BE ASSIGNED to any well which does not have sufficient surface casing to protect all fresh water sands. Where Commission rules do not specify surface casing requirements, it will be necessary to contact Texas Water Development Board, Austin, Texas, to ascertain the depth to which fresh water sands must be protected.

**CERTIFICATE**

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Signature: C.L. Brown

Title: MANAGING PARTNER

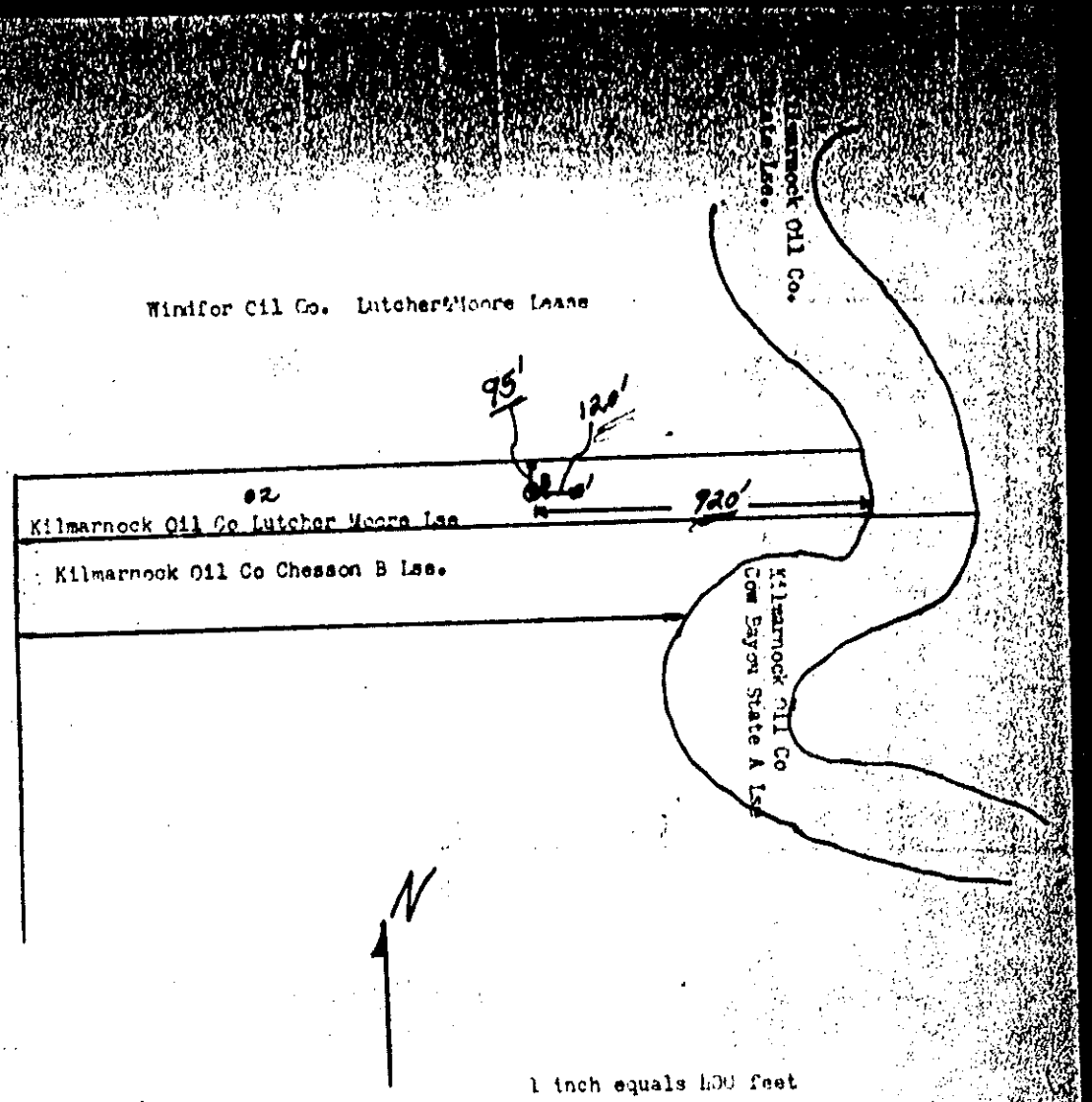
Date: 1-15-76

Telephone: Area Code 214 714-4725

REMARKS:

300 Feet of Surface Casing will be set and the oil string casing will be circulated to the surface with cement.

— OVER —


Windfor Oil Co. Lutcher Moore Lease
95'
120'
920'
#2
Kilmarnock Oil Co Lutcher Moore Lse
Kilmarnock Oil Co Chesson B Lse.
Kilmarnock Oil Co.
Kilmarnock Oil Co
Cow Bayou State A Lse
N
1 inch equals 400 feet

JAN 19 1976

0.0 1 4 8 - 2 5 5

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-2
Rev. 7/3/66

361 30113

# OIL WELL POTENTIAL TEST
# COMPLETION OR RECOMPLETION REPORT AND LOG

| | |
|---|---|
| 1. FIELD NAME (as per RRC Records or Wildcat) Orange | 2. LEASE NAME Lutcher Moore |
| 3. OPERATOR Kilmarnock Oil Company | 7. RRC District three |
| 4. ADDRESS P. O. Box 1001 Corsicana, Texas 75110 | 8. RRC Lease Number 03246 |
| 5. If Operator has changed within last 60 Days — Give former Operator | 9. Well Number 8 |
| 6. LOCATION (Section, Block, and Survey) James Dyson Survey | 10. County Orange |
| 12. If Workover — Give former Field (with Reservoir) | 11. Purpose of Test: Initial Potential [X]; Retest [ ]; Reclass [ ] |
| 13. Type of Electric or other Log run Dresser-Induction Electrolog | 14. Completion Date 3-8-76 |

Section I

POTENTIAL TEST DATA

| | | | | | |
|---|---|---|---|---|---|
| 15. Date of Test 3-9-76 | 16. No. of Hours Tested 24 | 17. Production Method (Flowing, Gas Lift, Jetting, Pumping — Size & Type of Pump) pumping | | | 18. Choke Size 10/64 |
| 19. Production for Test Period | Oil – BBLS 10 | Gas – MCF (1 | Water – BBLS 80 | Gas – Oil Ratio nil | Flowing Tubing Pressure 70 PSI |
| 20. Calculated 24 Hour Rate | Oil – BBLS 10 | Gas – MCF (1 | Water – BBLS 80 | Oil Gravity – API – 60° 23.4 | Casing Pressure 50 PSI |
| 21. Was Swab or Artificial Flowing Device Used During this Test? Yes [ ] No [x] | | 22. Oil Produced Prior to Test (New & Reworked Wells) 8 | | | 23. Injection Gas-Oil Ratio |

NOTE: TEST SHOULD BE FOR 24 HOURS UNLESS OTHERWISE SPECIFIED IN FIELD RULES

INSTRUCTIONS: All potential test Forms, with all information requested thereon filled in, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable Form within the ten (10) days as specified, then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test Form in the District Office. This Ten-Day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the District Office or any prior month. Fill in only the front of this Form when reporting only a potential test; if well is newly completed or recompleted, fill in reverse side also.

EACH WITNESS MUST PERSONALLY SIGN.

We, the undersigned, witnessed this test, by observation of meter readings, or the top and bottom gauges of each tank, whichever is applicable, into which production was run during duration of this test.

Signature: REPRESENTATIVE OF COMPANY MAKING TEST

List of Offset Operators Notified:

Paul Cormier

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

Date of Notification:

3-8-76

RECEIVED MAR 12 1976

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

| | | |
|---|---|---|
| REPRESENTATIVE OF COMPANY | TITLE agent | DATE 3-10-76 |

REMARKS

361 30113

SECTION II

## DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

14. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

25. Date Permit Issued: Jan. 22, 1976

26. Name of Intention to Drill this Well was filed in Name of: Kilmarnock Oil Company

27. If Special Permit, Give Permit Number:

28. Number of Producing Wells on this Lease in This Field (Reservoir) Including this Well: 6

29. Total Number of Acres in this Lease: 10.66

30. Date Plug Back, Deepening, Work over or Drilling Operations: Commenced 1-31-76; Completed 2-9-76

31. Distance to Nearest Well, Same Lease & Reservoir: 120

32. Location of Well, Relative to Lease Boundaries of Lease on which this Well is Located: 95 east Feet From Line of The north Line And Lutcher Moore 920 Feet From Lease

33. Elevation (DF, RKB, RT, GR, ETC): 10

34. Was Directional Survey Made: Yes [X] No [ ]

35. Top of Pay: 4590

36. Total Depth: 5648

37. P.B. Depth: 4640

38. Surface Casing Determined By: Recommendation of Texas Water Development Board [ ] Field Rules [ ] Railroad Commission (Special) [X]

39. Is Well Multiple Completion? Yes [ ] No [X]

40. If Multiple Completion List All Reservoir Names (Completions in this Well):

41. Intervals Drilled By: Rotary Tools: all; Cable Tools:

42. Name of Drilling Contractor: Cormier Well Service

43. Is Cementing Affidavit Attached? Yes [X] No [ ]

44. CASING RECORD (Report All Strings Set in Well)

| Casing Size | Weight LB FT | Depth Set | Hole Size | Cementing Record | Amount Pulled |
|---|---|---|---|---|---|
| 8-5/8 | 32 | 297 | 12¼ | 190 sx.-circ. | none |
| 5-1/2 | 15.5 | 4640 | 7-7/8 | 1250 sx.-circ. | none |

45. LINER RECORD

| Size | Top | Bottom | Sacks Cement | Screen |
|---|---|---|---|---|
| | | | | |

46. TUBING RECORD

| Size | Depth Set | Packer Set |
|---|---|---|
| 2-7/8 | 4563 | |

47. Producing Interval (this completion) Indicate Depth of Perforations or Open Hole

From 4590 To 4592
From To
From To
From To

48. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

| Depth Interval | Amount and Kind of Material Used |
|---|---|
| | |

49. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

| Formations | Depth | Formations | Depth |
|---|---|---|---|
| fresh water sands | 0-900 | Base of Miocene | 5250 |
| sand w/ shale streaks | 900-2600 | Shale | 5250-5600 |
| shale w/sand streaks | 2600-3150 | sand(hot) | 5600-5615 |
| sand | 3150-3300 | shale | 5615-5648 |
| shale w/sand streaks | 3300-3550 | | |
| sand w/shale streaks | 3550-5250 | | |

REMARKS

Form W-3

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

Form W-15

(Rev. 1-1-60)

# CEMENTING REPORT

| | |
|---|---|
| *1. Field Name (as per RRC Records or Wildcat) Orange | *2. RRC District three |
| *3. Operator Kilmarnock Oil Company | *4. County Orange |
| *5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) Lutcher Moore 03246 | *6. Well Number 8 |
| *7. Location (Section, Block, and Survey) James Dyson Survey | |

| CASING CEMENTING DATA: | SURFACE CASING | INTER-MEDIATE CASING | PRODUCTION CASING | | MULTI-STAGE CEMENTING PROCESS | |
|---|---|---|---|---|---|---|
| | | | Single String | Multiple Parallel Strings | Tool | Shoe |
| 8. Cementing Date | 1-31-76 | | | | | |
| *9. (a) Size of Drill Bit (inches) | | | | | | |
| (b) Estimated % Wash or Hole Enlargement Used in Calculations. | | | | | | |
| *10. Size of Casing (inches O.D.) | 8 5/8 | | | | | |
| *11. Top of Liner (if liner used) (ft.) | | | | | | |
| *12. Setting Depth of Casing (ft.) | 297 | | | | | |
| 13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.) | Sec 26 | | | | | |
| (b) In Second Slurry | Com. H 2% CaCl. | | | | | |
| (c) In Third Slurry | | | | | | |
| 14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry | 90 | | | | | |
| (b) In Second Slurry | 100 | | | | | |
| (c) In Third Slurry | | | | | | |
| (d) Total Sacks of Cement Used | 190 | | | | | |
| 15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry | 1.26 | | | | | |
| (b) In Second Slurry | 1.18 | | | | | |
| (c) In Third Slurry | | | | | | |
| 16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry | 113.4 | | | | | |
| (b) In Second Slurry | 118.0 | | | | | |
| (c) In Third Slurry | | | | | | |
| (d) Total Slurry Volume Pumped (cu.ft.) | 231.4 | | | | | |
| 17. Calculated Annular Height of Cement Slurry behind Pipe (ft.) | 560 | | | | | |
| 18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No) | Yes | | | | | |

| CEMENTING TO PLUG AND ABANDON DATA: | PLUG NO. 1 | PLUG NO. 2 | PLUG NO. 3 | PLUG NO. 4 | PLUG NO. 5 | PLUG NO. 6 |
|---|---|---|---|---|---|---|
| 19. Cementing Date | | | | | | |
| *20. Size of Hole or Pipe in which Plug Placed (inches) | | | | | | |
| *21. Depth to Bottom of Tubing or Drill Pipe (ft.) | | | | | | |
| 22. Sacks of Cement Used (each plug) | | | | | | |
| 23. Slurry Volume Pumped (cu. ft.) | | | | | | |
| 24. Calculated Top of Plug (ft.) | | | | | | |
| *25. Measured Top of Plug (if tagged) (ft.) | | | | | | |

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

— OVER —

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

3-03246

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

Form W-15

# CEMENTING REPORT

| | |
|---|---|
| *1. Field Name (as per RRC Records or Wildcat) Orange | *2. RRC District three |
| *3. Operator Kilmarnock Oil Company | *4. County Orange |
| *5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) Lutcher Moore 03246 | *6. Well Number 8 |
| *7. Location (Section, Block, and Survey) James Dyson Survey | |

| CASING CEMENTING DATA: | SURFACE CASING | LONG STRING | PRODUCTION CASING Single String | PRODUCTION CASING Multiple Parallel Strings | MULTI-STAGE CEMENTING PROCESS Tool | MULTI-STAGE CEMENTING PROCESS Shoe |
|---|---|---|---|---|---|---|
| 8. Cementing Date | | 2-9-76 | | | | |
| *9. (a) Size of Drill Bit (inches) | | | | | | |
| (b) Estimated % Wash or Hole Enlargement Used in Calculations. | | | | | | |
| *10. Size of Casing (inches O.D.) | | 5½ | | | | |
| *11. Top of Liner (if liner used) (ft.) | | | | | | |
| *12. Setting Depth of Casing (ft.) | | 1640 | | | | |
| 13. Type API Class Cement & Amount of Additives Used: (a) In First (Lead) or Only Slurry (If additional space is needed, use "REMARKS" on reverse side.) | | Halco Light | | | | |
| (b) In Second Slurry | | Pozmix | | | | |
| (c) In Third Slurry | | | | | | |
| 14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry | | 500 | | | | |
| (b) In Second Slurry | | 750 | | | | |
| (c) In Third Slurry | | | | | | |
| (d) Total Sacks of Cement Used | | 1250 | | | | |
| 15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry | | 1.97 | | | | |
| (b) In Second Slurry | | 1.29 | | | | |
| (c) In Third Slurry | | | | | | |
| 16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry | | 985 | OK | | | |
| (b) In Second Slurry | | 945 | | | | |
| (c) In Third Slurry | | | | | | |
| (d) Total Slurry Volume Pumped (cu.ft.) | | 1930 | | | | |
| 17. Calculated Annular Height of Cement Slurry behind Pipe (ft.) | | 11,136 | | | | |
| 18. Was cement circulated to ground surface (or bottom of cellar) outside casing? (Yes or No) | | Yes | | | | |

| CEMENTING TO PLUG AND ABANDON DATA: | PLUG NO. 1 | PLUG NO. 2 | PLUG NO. 3 | PLUG NO. 4 | PLUG NO. 5 | PLUG NO. 6 |
|---|---|---|---|---|---|---|
| 19. Cementing Date | | | | | | |
| *20. Size of Hole or Pipe in which Plug Placed (inches) | | | | | | |
| *21. Depth to Bottom of Tubing or Drill Pipe (ft.) | | | | | | |
| 22. Sacks of Cement Used (each plug) | | | | | | |
| 23. Slurry Volume Pumped (cu. ft.) | | | | | | |
| 24. Calculated Top of Plug (ft.) | | | | | | |
| *25. Measured Top of Plug (if tagged) (ft.) | | | | | | |

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

– OVER –

* Designates items to be completed by Operator. Items not so designated shall be completed by Cementing Company.

3-03244

0 1 4 8 2 5 6

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-2
Rev. 6/30/75

# OIL WELL POTENTIAL TEST
# COMPLETION OR RECOMPLETION REPORT AND LOG

7. RRC District: 3
8. RRC Lease Number: 03246
9. Well Number: 8
10. County: Orange
11. Purpose of Test: Initial Potential [X] Retest [X] Recless [ ]
14. Completion Date: 1-25-77

1. FIELD NAME (as per RRC Records or Wildcat): Orange
2. LEASE NAME: Lutcher Moore
3. OPERATOR: Kilmarnock Oil Company
4. ADDRESS: P. O. Box 1001 Corsicana, Texas 75110
5. If Operator has changed within last 60 Days -- Give former Operator
6a. LOCATION (Section, Block, and Survey): James Dyson Survey
6b. Distance and Direction to nearest town in this county: 1/2 mi. e/Orangefield
12. If Workover -- Give former Field (with Reservoir)
13. Type of Electric or other Log run

## POTENTIAL TEST DATA

Section I

| 15. Date of Test | 16. No. of Hours Tested | 17. Production Method (Flowing, Gas Lift, Jetting, Pumping - Size & Type of Pump) | 18. Choke Size |
|---|---|---|---|
| 1-26-77 | 24 | flowing | 7/64 |

| | Oil - BBLS | Gas - MCF | Water - BBLS | Gas - Oil Ratio | Flowing Tubing Pressure |
|---|---|---|---|---|---|
| 19. Production During Test Period ///// | 40 | (1 | 5 | nil | 310 PSI |
| 20. Calculated 24 Hour Rate ////// | 40 | (1 | 5 | Oil Gravity - API - 60° 23.4 | Casing Pressure 400 PSI |

21. Was Swab or Artificial Flowing Device Used During this Test? Yes [ ] No [X]
22. Oil Produced Prior to Test (New & Reworked Wells): 30
23. Injection Gas-Oil Ratio

NOTE: TEST SHOULD BE FOR 24 HOURS UNLESS OTHERWISE SPECIFIED IN FIELD RULES

INSTRUCTIONS: All potential test Forms, with all information requested thereon filled in, shall be filed in the District Office of the Railroad Commission not later than ten (10) days after the test is completed and, should the operator fail to file potential test in an acceptable Form within the ten (10) days as specified, then the effective date of the allowable resulting from such test shall not extend back more than ten (10) days prior to receipt and acceptance of the potential test Form in the District Office. This Ten-Day provision shall govern regardless of whether the potential test is taken during the month in which it is received in the District Office or any prior month. Fill in only the front of this Form when reporting only a potential test; if well is newly completed or recompleted, fill in reverse side also.

EACH WITNESS MUST PERSONALLY SIGN.

We, the undersigned, witnessed this test, by observation of meter readings, or the top and bottom gauges of each tank, whichever is applicable, into which production was run during duration of this test.

G M Boyd
Signature: REPRESENTATIVE OF COMPANY MAKING TEST

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

List of Offset Operators Notified and Date Notified:
Paul Cormier

List of Offset Operators Notified and Date Notified:
1-25-77

An inclination survey has been run in accordance with Statewide Rule 11 and the results are available upon request. Maximum horizontal displacement was _____ feet at a measured depth of _____ feet.

Signature of Authorized Representative

Name of Company Conducting Survey

All casing was cemented in accordance with Statewide Rule 13 or a written exception thereto. Cementing tickets and / or other data are available upon request.

Signature of Cementer or Authorized Representative

Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Article 6038c, R.C.S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

RECEIVED
R.R.C. OF TEXAS
JAN 28 1977
O. G.
HOUSTON, TEXAS

G M Boyd
REPRESENTATIVE OF COMPANY

agent
TITLE

Jan. 27, 1977
DATE

Rpt well #8 @ 40# BBLS. 1/25/77

SECTION II — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

24 Type of Completion: New Well [ ] Deepening [ ] Plug Back [X] Other [ ]

25 Date Permit Issued: Jan. 24, 1977

26 Notice of Intention to Drill this Well was filed in Name of: Kilmarnock Oil Company

27 If Special Permit, Give Permit Number:

28 Number of Producing Wells on this Lease in This Field (Reservoir) including this Well: 5

29 Total Number of Acres in this Lease: 10.66

30 Date Plug Back, Deepening, Work Over or Drilling Operations: Commenced Jan. 24, 1977; Completed Jan. 25, 1977

31 Distance to Nearest Well, Same Lease & Reservoir: 120

32 Location of Well, Relative to Nearest Lease Boundaries of Lease on which this Well is Located: 95 Feet From north Line of the Lutcher Moore Line and 920 Feet From east Lease

33 Elevation (DF, RKB, RT, GR, ETC): 10

34 Was Directional Survey Made: Yes [ ] No [X]

35 Top of Pay: 4042 | 36 Total Depth: 5648 | 37 P.B. Depth: 4045 | 38 Surface Casing Determined By: Recommendation of Texas Water Development Board [ ] Field Rules [XX] Railroad Commission (Special) [ ]

39 Is Well Multiple Completion? Yes [ ] No [XX]

40 If Multiple Completion List All Reservoir Names (Completions in this Well):

41 Intervals Drilled By: Rotary Tools: all; Cable Tools:

42 Name of Drilling Contractor: Ourselves

43 Is Cementing Affidavit Attached? Yes [ ] No [X]

44 CASING RECORD (Report All Strings Set in Well)

| CASING SIZE | WT. & FT. | DEPTH SET | MULTI STAGE TOOL DEPTH | TYPE & AMOUNT CEMENT (Sacks) | HOLE SIZE | TOP OF CEMENT | SLURRY VOL. cu. ft. |
|---|---|---|---|---|---|---|---|
| 8-5/8 | 32 | 297 | | 190 | 12¼ | | |
| 5-1/2 | 15.5 | 4640 | | 1250 | 7-7/8 | | |
| | | | | | | | |
| | | | | | | | |

45 LINER RECORD

| Size | Top | Bottom | Sacks Cement | Screen |
|---|---|---|---|---|
| | | | | |

46 TUBING RECORD

| Size | Depth Set | Packer Set |
|---|---|---|
| 2-7/8 | 3900 | |

47 Producing Interval (this completion) indicate Depth of Perforations or Open Hole

From 4040 To 4042
From To
From To
From To

48 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

| Depth Interval | Amount and Kind of Material Used |
|---|---|
| 4590-92 perforations cemented across with 5 sacks | |

49 FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

| Formations | Depth | Formations | Depth |
|---|---|---|---|
| fresh water sands | 0-900 | Base of Miocene | 5250 |
| sand w/shale streaks | 900-2600 | shale | 5250-5600 |
| shale w/sand streaks | 2600-3150 | sand(hat) | 5600-5615 |
| sand | 3150-3300 | shale | 5615-5648 |
| shale w/sand streaks | 3300-3550 | | |
| sand w/shale streaks | 3550-5250 | | |

REMARKS

[illegible]