Artificial Penetration No. 673

Northwest Oil Company
Lutcher-Moore Lumber Co. #66

ORANGE DIST. 3
API NO. 2 361 30051

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

7

FORM W-1
(Rev. 12-16-69)

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

SPS

Check one: [X] DRILL [ ] DEEPEN [ ] PLUG BACK [ ] OTHER (Specify)

7. RRC District: 3
8. County: Orange
9. Well Number: 66
10. Number of Acres in Lease: 250
11. Distance from Proposed Location to Nearest Property or Lease Line (ft.): 970'

1. Operator: Northwest Oil Company
2. Address (Including City and Zip Code): 3217 Republic Bank Tower, Dallas, Texas 75201
3. Is Form 7 in Exact Operator Name Filed? YES [X] ✓ NO [ ]
4. Lease Name: Lutcher-Moore Lbr. Co.
5. Location (Sec., Blk., Survey): J. Dyson Survey
6. This well is to be located ¼ miles North
Direction from Orangefield, Texas
Nearest Post Office or Town

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 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 (P.T.S.D.)	3600'	03270	P.T.S.D	P.T.S.D	P.T.S.D	No	100'	P.T.S.D	Oil	0	0

PTSD

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.

REMARKS: 970' West of East line and
1,220' South of North line

"Plat Attached"

CERTIFICATE
I declare under penalties prescribed in Article 6036a, 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: [signature]
Title: Petroleum Engineer
Date: August 8, 1972
Telephone: Area Code 713 735-4291

R.R.C. OF TEXAS AUG 10 1972 AUSTIN, TEXAS

R.R.C. OF TEXAS AUG 9 1972 O.G. HOUSTON, TEXAS

361-30051

0000730 1150

– OVER –

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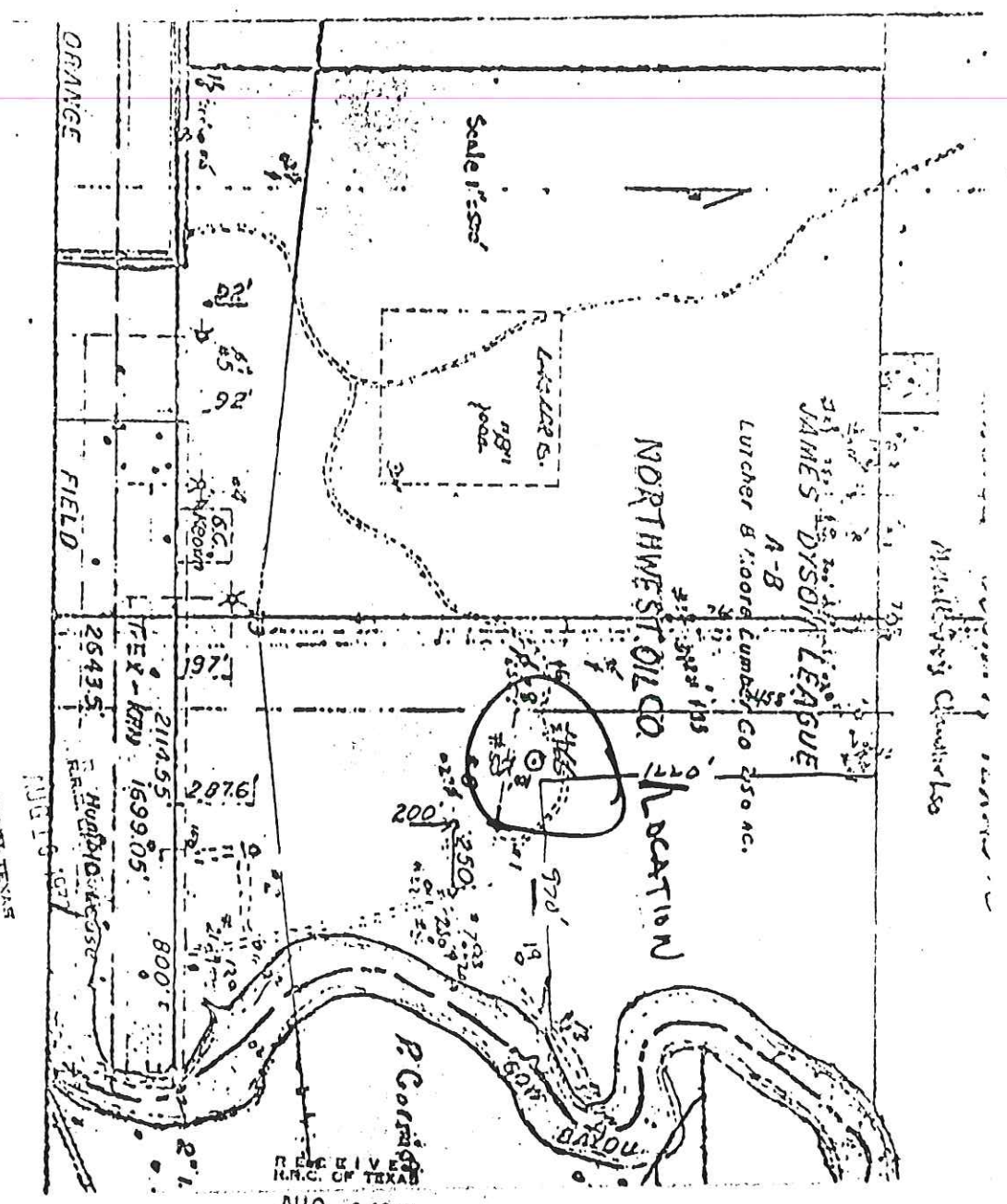

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R.R.C. OF TEXAS
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HOUSTON, TEXAS

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RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-2
Rev. 7/5/66

OIL WELL POTENTIAL TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

1. RRC District: 3
2. RRC Lease Number: 03270
3. Well Number: 66

1. FIELD NAME (as per RRC Records or Wildcat): ORANGE (P.T.S.D.)
2. LEASE NAME: Lutcher-Moore Lbr. Co.
3. OPERATOR: NORTHWEST Oil Company
4. ADDRESS: 3217 Republic Bank Tower, Dallas, Texas 75201
5. If Operator has changed within last 60 Days — Give former Operator: NO
6. LOCATION (Section, Block, and Survey): J. Dyson Survey
10. County: ORANGE
11. Purpose of Test: Initial Potential [X] Retest [ ] Reclass [ ]
12. If Workover — Give former Field (with Reservoir): — — —
13. Type of Electric or other Logs run: INDUCTION & RADIATION
14. Completion Date: 7-18-70

Section I

POTENTIAL TEST DATA

15. Date of Test: 10-12-72	16. No. of Hours Tested: 24	17. Production Method (Flowing, Gas Lift, Jetting, Pumping – Size & Type of Pump): Flowing			18. Choke Size: 14/64"
19. Production for Test Period	Oil – BBLS: 25.52	Gas – MCF: 11	Water – BBLS: 206	Gas – Oil Ratio: 431	Flowing Tubing Pressure: 200 PSI
20. Calculated 24 Hour Rate	Oil – BBLS: 25.52	Gas – MCF: 11	Water – BBLS: 206	Oil Gravity – API – 60°: 22.4	Casing Pressure: 500 PSI
21. Was Swab or Artificial Flowing Device Used During this Test? Yes [ ] No [X]	22. Oil Produced Prior to Test (New & Reworked Wells): 58				23. Injection Gas-Oil Ratio: —

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

Eff 10-6 #
+26

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:
P. Cormier — 10-11-72
Kilmarnock Oil Co — 10-11-72

Signature: REPRESENTATIVE OF RAILROAD COMMISSION

Date of Notification:

RECEIVED RRC OF TEXAS OCT 13 1972 HOUSTON, TEXAS

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: Supt. — DATE: 10-13-72

REMARKS

361 30051

SECTION II

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

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

25. Date Permit Issued: 8-9-72

26. Notice of Intention to Drill this Well was filed in Name of: NORTHWEST OIL COMPANY

27. If Special Permit, Give Permit Number: RT-S.D.

28. Number of Producing Wells on this Lease in This Field (Reservoir) including this Well: 21

29. Total Number of Acres in this Lease: 250

30. Date ~~Plug Back, Deepening, Reservoir~~ Drilling Operations: Commenced 9-11-72 Completed 9-18-72

31. Distance to Nearest Well, Same Lease & Reservoir: 100'

32. Location of Well, Relative to Lease Boundaries of Lease on which this Well is Located: 970 Feet From EAST Line And 1,220 Feet From NORTH Line of The LUTCHER-MOORE LBR. Co. Lease

33. Elevation (DF, RKB, RT, GR, ETC): GR.-6'

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

35. Top of Pay: 3453½

36. Total Depth: 3559

37. P.B. Depth: ---

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 0-3559 Cable Tools ——

42. Name of Drilling Contractor: Paul Cormier Well Servicing Co.

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
11¾"	60	82'	15"	100 SX Cement 2% CaCl2	0
5½"	3,541.96	7⅞"		200 SX Light Blend + 260 SX Pozmix w/ 4.79# SALT/SX.	0

45. LINER RECORD

Size	Top	Bottom	Sacks Cement	Screen
—	—	—	—	—

46. TUBING RECORD

Size	Depth Set	Packer Set
2⅞ EVE	3,289.73	3,291.99

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

From	3453½	To	3459
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
MIOCENE	0-3559		

REMARKS

0 0 0 0 7 3 0 1 1 4 7

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-12
(1-1-71)

INCLINATION REPORT

(One Copy Must Be Filed With Each Completion Report.)

1. FIELD NAME (as per RRC Records or Wildcat): ORANGE (PTSD)
2. LEASE NAME: Lutcher-Moore Lbr. Co.
3. OPERATOR: Northwest Oil Company
4. ADDRESS: 3217 Republic Bank Tower, Dallas, Texas 75201
5. LOCATION (Section, Block, and Survey): J. Dyson Survey
6. RRC District: 3
7. RRC Lease Number (Oil completions only): 03270
8. Well Number: 66
9. RRC Identification Number (Gas completions only):
10. County: Orange

RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
500	500	½	~~0.436~~ 44	~~2.180~~ 2.20	
1,000	500	1	~~1.745~~ 175	~~8.725~~ 8.75	10.905
1,500	500	0	0	0	10.905
2,000	500	½	~~0.873~~ 87	~~4.365~~ 4.35	15.270
2,500	500	3/4	~~1.309~~ 131	~~6.545~~ 6.55	21.815
3,000	500	3/4	~~1.309~~ 131	~~6.545~~ 6.55	28.360
3,500	500	1	~~1.745~~ 175	~~8.725~~ 8.75	37.085

If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? ☐ yes ☒ no
18. Accumulative total displacement of well bore at total depth of 3,500 feet = 37.085 feet. 37.15 RRC
*19. Inclination measurements were made in – ☐ Tubing ☐ Casing ☐ Open hole ☒ Drill Pipe
20. Distance from surface location of well to the nearest lease line 970 feet.
21. Minimum distance to lease line as prescribed by field rules P.T.S.D. feet.
22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? NO

(If the answer to the above question is "yes", attach written explanation of the circumstances.)

INCLINATION DATA CERTIFICATION

I declare under penalties prescribed in Article 6036c, R.C.S., that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.

[signature] 9-20-72
Signature of Authorized Representative

Robert Cormier, Supt.
Name of Person and Title (type or print)

Paul Cormier ~~XXXXXXX~~ Well Servicing Co.
Name of Company

Telephone: 713 735-3571
Area Code

OPERATOR CERTIFICATION

I declare under penalties prescribed in Article 6036c, R.C.S., that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.

[signature] 9-20-72
Signature of Authorized Representative

Ralph Cohen, Supt.
Name of Person and Title (type or print)

Northwest Oil Company
Operator

Telephone: 713 735-4291
Area Code

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Railroad Commission Use Only:
Checked By: [signature] Title: [signature] Date: 10-16-72

* Designates items certified by company that conducted the inclination surveys.

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Form W-15
(Rev. 11-1-69)

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat) ORANGE (PT3D)	*3. RRC District 3
*3. Operator Northwest Oil Company, 3217 Republic Bk. Tower, Dallas, Tx. 75201	*4. County Orange
*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s) XXXXXXXXXXXXXXXX Butcher-Moore Lbr. Co. #03270	*6. Well Number 66
*7. Location (Section, Block, and Survey) J. Dyson Survey	

CASING CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING: Single String	PRODUCTION CASING: Multiple Parallel Strings	MULTI-STAGE CEMENTING PROCESS: Tool	MULTI-STAGE CEMENTING PROCESS: Shoe
8. Cementing Date	9-11-72					
*9. (a) Size of Drill Bit (inches)	15					
(b) Estimated % Wash or Hole Enlargement Used in Calculations.	100 %					
*10. Size of Casing (inches O.D.)	11 3/4					
*11. Top of Liner (if liner used) (ft.)	—					
*12. Setting Depth of Casing (ft.)	[redacted] 82'					
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.)	Cem. H 2% CaCl					
(b) In Second Slurry	—					
(c) In Third Slurry	—					
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry	100					
(b) In Second Slurry	—					
(c) In Third Slurry	—					
(d) Total Sacks of Cement Used	100					
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry	1.18					
(b) In Second Slurry	—					
(c) In Third Slurry	—					
16. Volume of Slurry Pumped: (cu. ft.) (Item 14 x Item 15) (a) In First (Lead) or Only Slurry	118					
(b) In Second Slurry	—					
(c) In Third Slurry	—					
(d) Total Slurry Volume Pumped (cu.ft.)	118					
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)	249'					
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.)						

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

– OVER –

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

0 0 0 0 2 3 0 1 1 4 9

Form W-15
(Rev. 11-1-60)

RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

CEMENTING REPORT

*1. Field Name (as per RRC Records or Wildcat): Orange (PTSD)

*2. RRC District: 3

*3. Operator: Northwest Oil Company, 3217 Republic Bank Tower, Dallas, Tex. 75201

*4. County: Orange

*5. Lease Name(s) and RRC Lease Number(s) or I. D. Number(s): Lutcher-Moore Lbr. Co. #03270

*6. Well Number: 66

*7. Location (Section, Block, and Survey): J. Dyson Survey

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING: Single String	PRODUCTION CASING: Multiple Parallel Strings	MULTI-STAGE CEMENTING PROCESS: Tool	MULTI-STAGE CEMENTING PROCESS: Shoe
8. Cementing Date			9-20-72			
*9. (a) Size of Drill Bit (inches)			7 7/8"			
(b) Estimated % Wash or Hole Enlargement Used in Calculations.			30%			
*10. Size of Casing (inches O.D.)			5½"			
*11. Top of Liner (if liner used) (ft.)						
*12. Setting Depth of Casing (ft.)			3500.96			
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 Lite Blend			
(b) In Second Slurry			See 26			
(c) In Third Slurry						
14. Sacks of Cement Used: (a) In First (Lead) or Only Slurry			200			
(b) In Second Slurry			260			
(c) In Third Slurry						
(d) Total Sacks of Cement Used			460			
15. Slurry Volume per Sack of Cement (cu.ft./sack): (a) In First (Lead) or Only Slurry			3.2			
(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			335			
(b) In Second Slurry			640			
(c) In Third Slurry						
(d) Total Slurry Volume Pumped (cu.ft.)			975			
17. Calculated Annular Height of Cement Slurry behind Pipe (ft.)			5630			
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.)						

RECEIVED OCT 16 1972 RRC OF TEXAS

(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.