

O'NEILL PROPERTIES, LTD.

P.O. Box 2840
MIDLAND, TEXAS 79702

TELEPHONE
(915) 683-2771

March 7, 1994

Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

Re: Form C-108
O'Neill Properties, Ltd.
Arco Crump No. 2
Langlie Mattix Field

Dear Sirs:

Enclosed is Form C-108 and required attachments supporting conversion of the Arco Crump No. 2 to injection service.

This well is located in the Langlie-Mattix Field, about 1/2 mile west of the Langlie-Mattix waterflood Unit boundary. Consequently, we respectfully request this application be approved administratively following expiration of the 15 day period, providing no objections are received.

Sincerely,



Robert N. Johnson

RNJ/sc

O'NEILL PROPERTIES, LTD.

P.O. Box 2840
MIDLAND, TEXAS 79702

TELEPHONE
(915) 683-2771

March 7, 1994

Certified Mail
Return Receipt

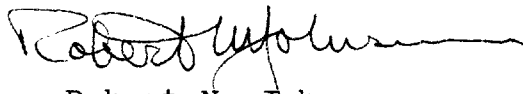
Re: ARCO Crump Well No. 2
1650' FSL & 1650' FEL
1-24S-36E
Langlie Mattix Field
Lea County, New Mexico

To Whom This May Concern:

O'Neill Properties, Ltd. is making application for administrative approval by the State of New Mexico for conversion of the subject well from oil production to water injection. A copy of the Application for Authorization to Inject, Form C-108 is enclosed.

Surface owners or offset operators must file any objections or requests for hearing with the oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87504-2088 within 15 days from the date this application was mailed to them.

Sincerely,


Robert N. Johnson

RNJ/sc

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO.

30-025-24334

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

OIL
WELL ☒

GAS
WELL ☐

OTHER

2. Name of Operator

O'Neill Properties, Ltd.

3. Address of Operator

P. O. Box 2840

4. Well Location

Unit Letter J : 1650 Feet From The South Line and 1650 Feet From The East Line

Section 1

Township 24S

Range 36E

NMPM

County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

3345' DF

11.

Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER: Convert to injection ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐

PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

1. Pull rods & tubing.
2. Run plastic-lined tubing and tension packer.
3. Set packer @ 3400'.
4. Load casing above packer with inhibited fresh water.
5. Pressure-test casing annulus to 300 psi for 15-minute period with chart.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Robert N. Johnson

TITLE Petroleum Engineer

DATE 2-28-94

TYPE OR PRINT NAME Robert N. Johnson

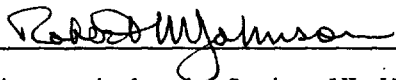
TELEPHONE NO. 915/683-2771

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ Yes ☐ No
- II. OPERATOR: O'Neill Properties, Ltd.
ADDRESS: P. O. Box 2840, Midland, Texas 79702 915
CONTACT PARTY: Robert N. Johnson PHONE: 683-2771
- III. WELL DATA: Complete the data required on the reverse side of this form for each well processed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project: ☐ Yes ☒ No
If yes, give the Division order number authorizing the project _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- * X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted.)
- * XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Robert N. Johnson TITLE: Petroleum Engineer
SIGNATURE:  DATE: 3-1-94
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstance of the earlier submittal. _____

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, PO Box 2088, Santa Fe, NM 87504-2088 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEET

Item III.A.

O'Neill Properties, Ltd. Form C-108
Item III.A. Well Data (Side 1)

OPERATOR O'Neill Properties, Ltd. LEASE Arco Crump

WELL NO. 2 1650' FSL & 1650' FEL, 1 24S 36E

FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Schematic

Well Construction Data

8 5/8", 20# @ 397' / 300 sxs Circ

1-73 Pf 3454', 57', 93', 95', 3519',
24', 30', 32', 66', 80', 3623',
38'.
1 JSPF
A/2000, F/20,000

8-80 CO to 3695', Re-F/10,000
+ CO₂

3454'
3638'
PBD 3695'

4 1/2", 9.5# @ 3730' / 285 sxs

Surface Casing

Size 8 5/8" Cemented with 300 sx.

TOC Circ feet determined by N/A

Hole Size 11"

Intermediate Casing

Size Cemented with sx.

TOC feet determined by

Hole Size

Long String

Size 4 1/2" Cemented with 285 sx.

TOC 2,942' feet determined by Est.

Hole Size 7 7/8"

Total Depth 3,730'

Injection Interval

3,454' feet to 3,638' feet
(perforated ~~or open hole~~; indicate which)

INJECTION WELL DATA SHEET

Tubing Size 2 3/8" lined with plastic-coated set in a
 (type of internal coating)
Elder Model AD-1 tension packer at 3500 feet
 Other type of tubing / casing seal if applicable _____

Other Data

1. Is this a new well drilled for injection? Yes x No _____

If no, for what purpose was the well originally drilled? oil producer

2. Name of the injection formation Seven Rivers/Queen

3. Name of Field or Pool (if applicable) Langlie Mattix

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e., sacks of cement or plug(s) used. No _____

5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area.

Yates @ 2896' overlies the Seven Rivers/Queen zone. There are no
underlying zones in the area of review.

O'Neill Properties, Ltd.
OCD Form C-108, Item VI
Tabulation of well data in
area of review.

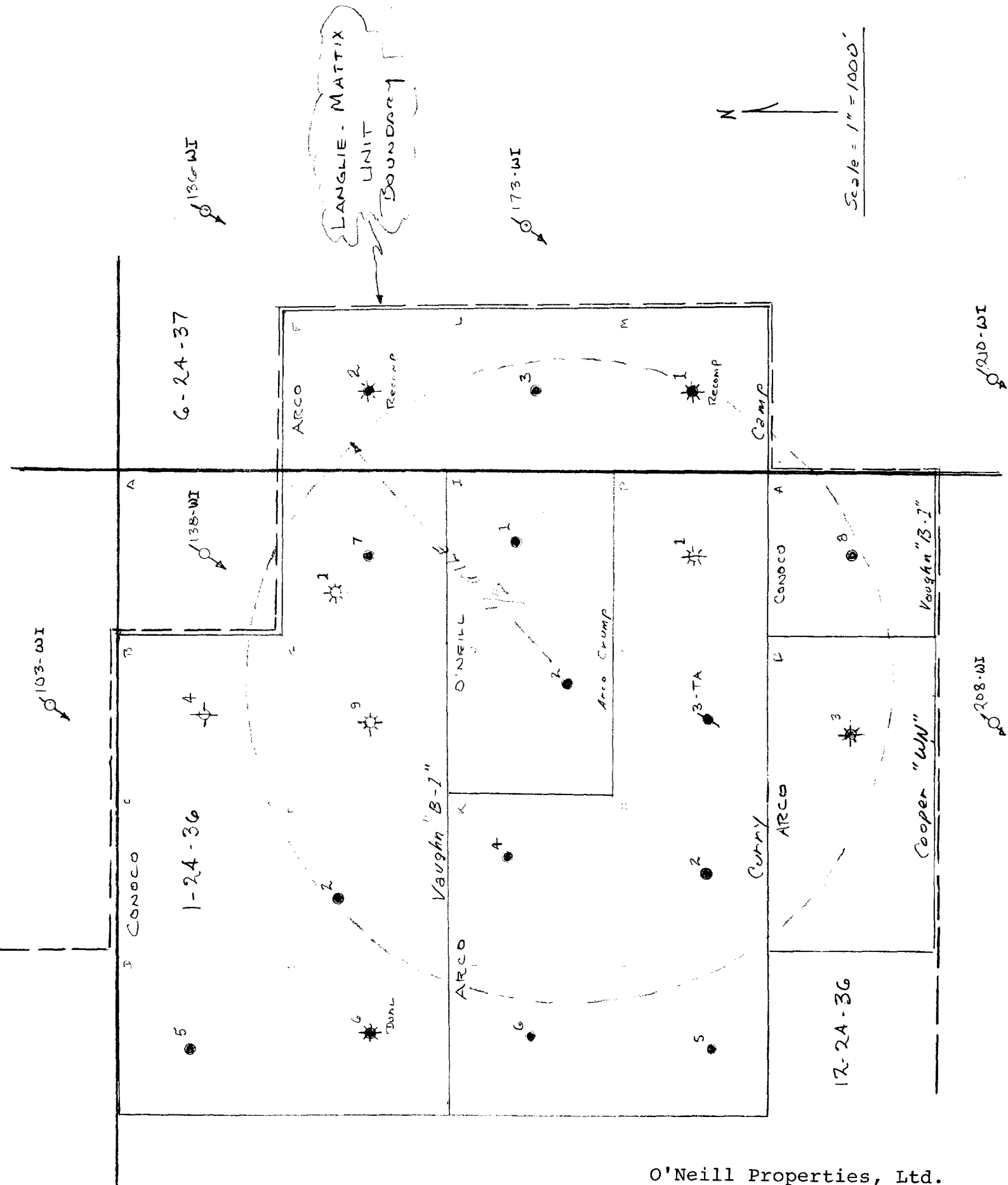
Note: None of these wells have been plugged as of March 1, 1994. Plugging information and a sketch of a plugged well located just outside of the 1/2 mile radius is enclosed with this item.

Operator	Lease	Well	Type	Construction	Location	Depth	Completion
Conoco	Vaughn B-1	1 (N)	Gas	7 5/8" @ 1195'/550 xns 5 1/2" @ 2879'/550 xns	1650' FNL & 990' FEL 1-245, 36E	3171'	ON 2879' - 3171' (292') No treatment reported. IPF 33,300 MCFD, 10-20-47, Jalnat Field
Conoco	Vaughn B-1	2 (F)	Oil	4 1/2" @ 2879'/550 xns 180 xns	1650' FNL & 1650' FEL 1-245, 36E	3625'	PF 3406' - 3602' (96') N/100, F/40,000 IPF 40 BO + 1 BWPD, 8-25-68, Langlie-Mattix Field
Conoco	Vaughn B-1	7 (N)	Oil	8 5/8" @ 1186'/625 xns 5 1/2" @ 3695'/1550 xns	1980' FNL & 660' FEL 1-245, 36E	3695'	PF 3470' - 3606' (136') N/2000, F/16,000 IPF 22 BO + 31 BWPD, 10-25-77, Langlie-Mattix Field
Conoco	Vaughn B-1	8 (N)	Oil	8 5/8" @ 1255'/600 xns 5 1/2" @ 3652'/1300 xns	660' FNL & 660' FEL 1-245, 36E	3652'	PF 3442' - 3573' (131') N/2000, F/8000 IPF 13 BO + 4 BWPD, 11-20-77, Langlie-Mattix Field
Conoco	Vaughn B-1	9 (G)	Gas	8 5/8" @ 1304'/585 xns 5 1/2" @ 3704'/930 xns	1980' FNL & 1980' FEL 1-245, 36E	3704'	PF 3410' - 3568' (158') N/1500, F/44,016 CROF 1615 MCFD, 2-26-82, Langlie-Mattix Field
O'Neill	Arco Crump	1 (I)	Oil	8 5/8" @ 378'/300 xns 4 1/2" @ 3700'/285 xns	660' FEL & 1980' FEL 1-245, 36E	3700'	PF 3454' - 3625' (171') N/2000, F/20,000 IPF 44 BO + 7 BWPD, 10-11-72, Langlie-Mattix Field
Arco	Curry	1 (P)	Gas	13" @ 210'/250 xns 8 5/8" @ 2767'/650 xns 5 1/2" @ 3310'/100 xns	660' FSL & 660' FEL 1-245, 36E	3697'	PF 2866' - 3192' (326') N/1500, F/10,000 CROF 7200 MCFD, 2-18-68, Jalnat Field
Arco	Curry	2 (N)	Oil	9 5/8" @ 1200'/800 xns 7" @ 3750'/575 xns	660' FSL & 1980' FEL 1-245, 36E	3750'	PF 3463' - 3700' (237') N/2500, F/30,000 IPF 20 BO + 11 BWPD, 4-30-80, Langlie-Mattix Field
Arco	Curry	3 (O)	Oil	8 5/8" @ 1161'/650 xns 5 1/2" @ 3750'/1100 xns	660' FSL & 1980' FEL 1-245, 36E	3750'	PF 3396' - 3690' (294') N/3800 IPF 19 BO + 110 BWPD, 1-6-81, Langlie-Mattix Field
Arco	Curry	4 (N)	Oil	8 5/8" @ 1160'/650 xns 5 1/2" @ 3750'/1100 xns	1980' FSL & 1980' FEL 1-245, 36E	3750'	PF 3451' - 3697' (246') N/3000, F/20,000 IPF 50 BO + 5 BWPD, 8-27-80, Langlie-Mattix Field
Arco	Camp	1 (M)	Oil	10" @ 272'/200 xns 9 5/8" @ 2760'/700 xns 7" @ 3220'/100 xns	660' FSL & 660' FEL 6-245, 37E	3656'	ON 3220' - 3656' (436') No treatment reported. IPF 10,000 MCFD, 6-13-37, Langlie-Mattix Field
Arco	Camp	3 (L)	Oil	8 5/8" @ 1183'/400 xns 5 1/2" @ 3451'/300 xns	1980' FSL & 660' FEL 6-245, 37E	3578'	ON 3451' - 3578' (127') F/5000 IPF 45 BO + 0 BWPD, 1-31-55, Langlie-Mattix Field
Arco	Cooper	3 (B)	Gas	9 5/8" @ 429'/250 xns 7" @ 3630'/500 xns	660' FNL & 1980' FEL 1-245, 36E	3630'	PF 2931' - 3400' (469') F/13,750 IPF 720 MCFD, 4-20-73, Jalnat Field

* Well was TA B-7-92 by CIBP @ 3367'. Form C-103 is enclosed with this item.

O'Neill Properties, Ltd.
Form C-108, Item III.B.
Well Data, Arco Crump No. 2

- (1) Name of injection formation: 7 Rivers/Queen, Langlie-Mattix Field.
- (2) Injection interval: 3454' - 3638', perforated.
- (3) Well was initially drilled for oil production.
- (4) No other intervals are perforated or are under bridge plugs.



O'Neill Properties, Ltd.
 OCD Form C-108, Item V
 Map showing 1/2 mile radius
 area of review.

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO. 30-025-26881	
5. Indicate Type of Lease STATE ☐ FEE ☒	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name FREDERICK H. CURRY WN	
8. Well No. 3	
9. Pool name or Wildcat LANGLIE MATTIX SRQ GB	

10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3344.6' GL	
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SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: OIL WELL ☒ GAS WELL ☐ OTHER	2. Name of Operator ARCO OIL AND GAS COMPANY
3. Address of Operator BOX 1710, HOBBS, NEW MEXICO 88240	4. Well Location Unit Letter <u>O</u> : <u>660</u> Feet From The <u>SOUTH</u> Line and <u>1980</u> Feet From The <u>EAST</u> Line Section <u>1</u> Township <u>24S</u> Range <u>36E</u> NMPM LEA County

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐		CASING TEST AND CEMENT JOB ☐	
OTHER: ☐		OTHER: TEMPORARILY ABANDON ☒	

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

TD 3750'; PBD 3740'; PERFS: 3396-3636'

TA & HOLD WELL BORE FOR FUTURE USE

5/6/92 MIRU. LAY DOWN RODS & PUMP. NU BOP. POOH w/TBG. RU WIRELINE. RUN GAUGE RING & JUNK BASKET TO 3405'. RIH & SET CIBP ON WIRELINE @ 3367'. RD WIRELINE. RIH w/TBG TO CIBP. SDON.

5/7/92 RU KILL TRUCK. CIRCULATE HOLE w/TREATED PACKER FLUID. PRESSURE TEST CIBP TO 320# FOR 30 MIN., OK. POOH & LAY DOWN TBG. ND BOP, NU WELL HEAD w/1 JT 2-7/8" TBG IN WELL HEAD. WELL TEMPORARILY ABANDONED 5/7/92.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE James D. Cogburn TITLE Operations Coordinator DATE 5/12/92

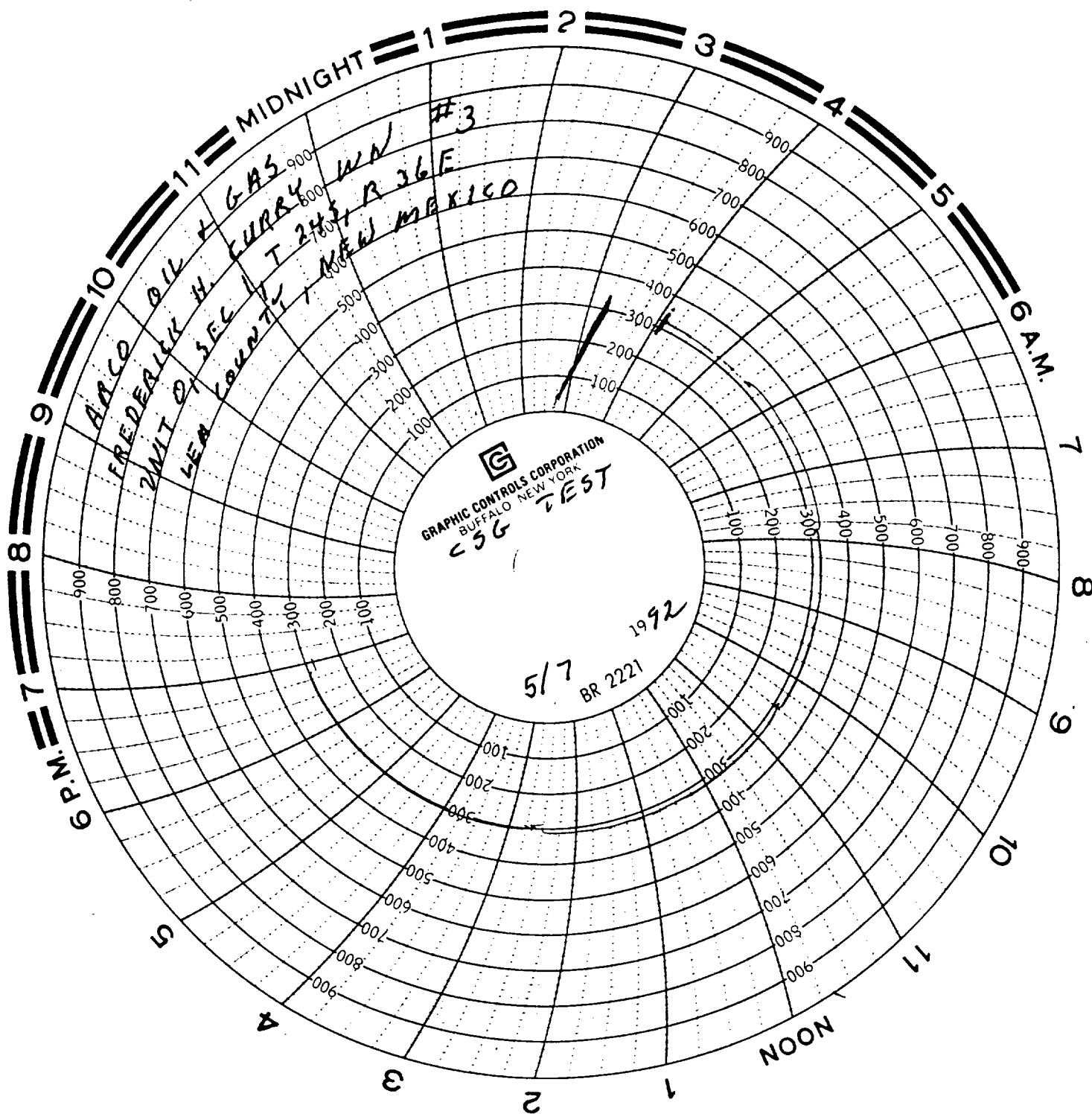
TYPE OR PRINT NAME James D. Cogburn TELEPHONE NO. 391-1600

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT I SUPERVISOR

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: This Approval of Temporary Abandonment Expires 5-13-97



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.O.S.	
LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease	
State ☐	Fee ☒
5. State Oil & Gas Lease No.	

10. TYPE OF WELL		7. Unit Agreement Name	
OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐		8. Farm or Lease Name	
b. TYPE OF COMPLETION		Frederick H. Curry WN	
NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐		9. Well No.	
2. Name of Operator		3	
ARCO Oil & Gas Company		10. Field and Pool, or Wildcat	
Division of Atlantic Richfield Company		Langlie Mattix 7R Qn	
3. Address of Operator			
P. O. Box 1710, Hobbs, New Mexico 88240			
4. Location of Well		12. County	
UNIT LETTER <u>0</u> LOCATED <u>660</u> FEET FROM THE <u>South</u> LINE AND <u>1980</u> FEET FROM		Lea	
THE <u>East</u> LINE OF SEC. <u>1</u> TWP. <u>24S</u> RGE. <u>36E</u> NMPM			
15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)
7/9/80	7/17/80	8/1/80	3344.6' GL
20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By
3750'	3740'		Rotary Tools
24. Producing Interval(s), of this completion - Top, Bottom, Name			25. Was Directional Sur Made
3396-3724' Langlie Mattix 7R Qn			No
26. Type Electric and Other Logs Run			27. Was Well Cored
GR-CNL-FDC Caliper & GR-DLL-RXO			No
28. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE
8-5/8" OD	32# K-55	1161'	12 1/4"
5 1/2" OD	15.5# K-55	3750'	7-7/8"
CEMENTING RECORD			
650 SX			
1100 SX			
29. LINER RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT
30. TUBING RECORD			
SIZE	DEPTH SET	PACKER SET	
2-7/8" OD	3707'		
31. Perforation Record (Interval, size and number)			
3396, 3410, 38, 42, 46, 60, 64, 68, 76, 80, 94, 98, 3502, 06, 10, 16, 30, 40, 44, 50, 54, 58, 63, 87, 3609, 16, 24, 27, 32, 36, 46, 50, 3654, 58, 67, 73, 90, 3720, 3724 = 39 -.32" holes			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED	
3396-3724'		Acidized w/3800 gals 15% NE	
		HCL acid, 24 bbls 2% KCL wtr	
33. PRODUCTION			
Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)		Well Status (Prod. or Shut-in)
7/30/80	Pumping - 2 1/2"x2"x26"		Prod.
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period
1/06/81	24	-	
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.
-	-		45
		Gas - MCF	Water - Bbl.
		89	406
		Oil Gravity - API (Corr.)	
		36.0°	
34. Disposition of Gas (Sold, used for fuel, vented, etc.)			Test Witnessed By
Sold			Jerry Guy
35. List of Attachments			
Logs as listed in Item 26 above & Inclination Report.			
36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.			
SIGNED <u>Jerry W. Schmidt</u>		TITLE <u>Dist. Drlg. Supt.</u>	
		DATE <u>1/7/81</u>	

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates <u>2890'</u>	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers <u>3096'</u>	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen <u>3492'</u>	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzte _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinbry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from 3396 to 3724' No. 4, from _____ to _____

No. 2, from _____ to _____ No. 5, from _____ to _____

No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____ feet. None Encountered

No. 2, from _____ to _____ feet. _____

No. 3, from _____ to _____ feet. _____

No. 4, from _____ to _____ feet. _____

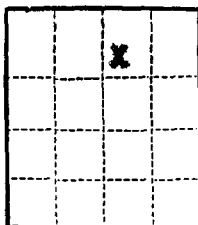
FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	788	788	Surface, Red Bed, Sd				
788	1142	354	Red Bed, Anhydrite				
1142	1380	238	Anhy				
1380	2720	1340	Anhy & Salt				
2720	3750	1030	Anhy, Lime				

RECEIVED.

JAN 13 1981

OIL CONSERVATION DIV.



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Las Cruces

Lease No. 030467 (b)

Unit 3

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	XX
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

November 8, 1961, 19__

Vaughan 3-1
Well No. 4 is located 660 ft. from N line and 1980 ft. from E line of sec. 1

NE/4 Sec 1 24S 36E WMPM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Langlie Mattix Lee New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 3351 ft. 48

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

This well was plugged in the following manner: Cut and pulled 2121' of 5 1/2" casing. Set cement plugs in the following manner; 20 sz at 3540-93', 15 sz at 3388-3488', 15 sz at 2100-2200', 38 sz at 1140-1300', 32 sz at 0-100'. Intervals between plugs filled with 12# mud. Set a 4" steel marker extending 4' above surface with the well name and location inscribed thereon. Restored location to original condition. Plugged started 10-9-51, Comp 10-14-51.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Continental Oil Company

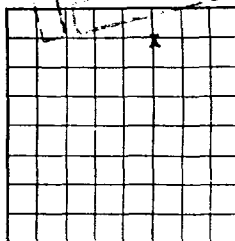
Address Box 68

Elmice, New Mexico

By J. K. Lusk

0/2 USGS NMOC-2 WAA file

Title District Superintendent

U. S. LAND OFFICE **LES CRUCC**
SERIAL NUMBER **03067 (b)**
LEASE OR PERMIT TO PROSPECT **Lease**

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Continental Oil Company Address Box 62, Hobbs, New Mexico
 Lessor or Tract D. L. Vaughan B-1 Field Langlia-Mattix State New Mexico
 Well No. 4 Sec. 1 T. 24 S. R. 36 E. Meridian N.M.P.M. County Lea
 Location 660 ft. [N] of [S] Line and 1960 ft. [E] of [W] Line of Section 1 Elevation 3351
(Check box relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon
 so far as can be determined from all available records.

Signed E. L. ShapiroDate February 1, 1951 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling March 5, 1950 Finished drilling April 6, 1950

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3437 to 3593 (G) No. 4, from _____ to _____
 No. 2, from _____ to _____ No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
 No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
13 5/8"	42	8		279'	Guide shoe and float collar				
8 5/8"	32	8		1199'	Guide shoe and float collar				
5 1/2"	15.5	8		3551'	Guide shoe and float collar				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13 5/8"	290	300	Pump & plug		
8 5/8"	1201	300	Pump & plug		
5 1/2"	3438	649	Pump and plug		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
 Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
3 1/2"	Tin	Nitro-glycerine	206 qts.	4-5-50	3437 to 3593	3593

TOOLS USED

Rotary tools were used from _____ feet to 3593 feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

Temporarily abandoned

April 10,

1950

DATES

Put to producing _____, 19____

The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ %
 emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Bottom pressure, lbs. per sq. in. _____

EMPLOYEES

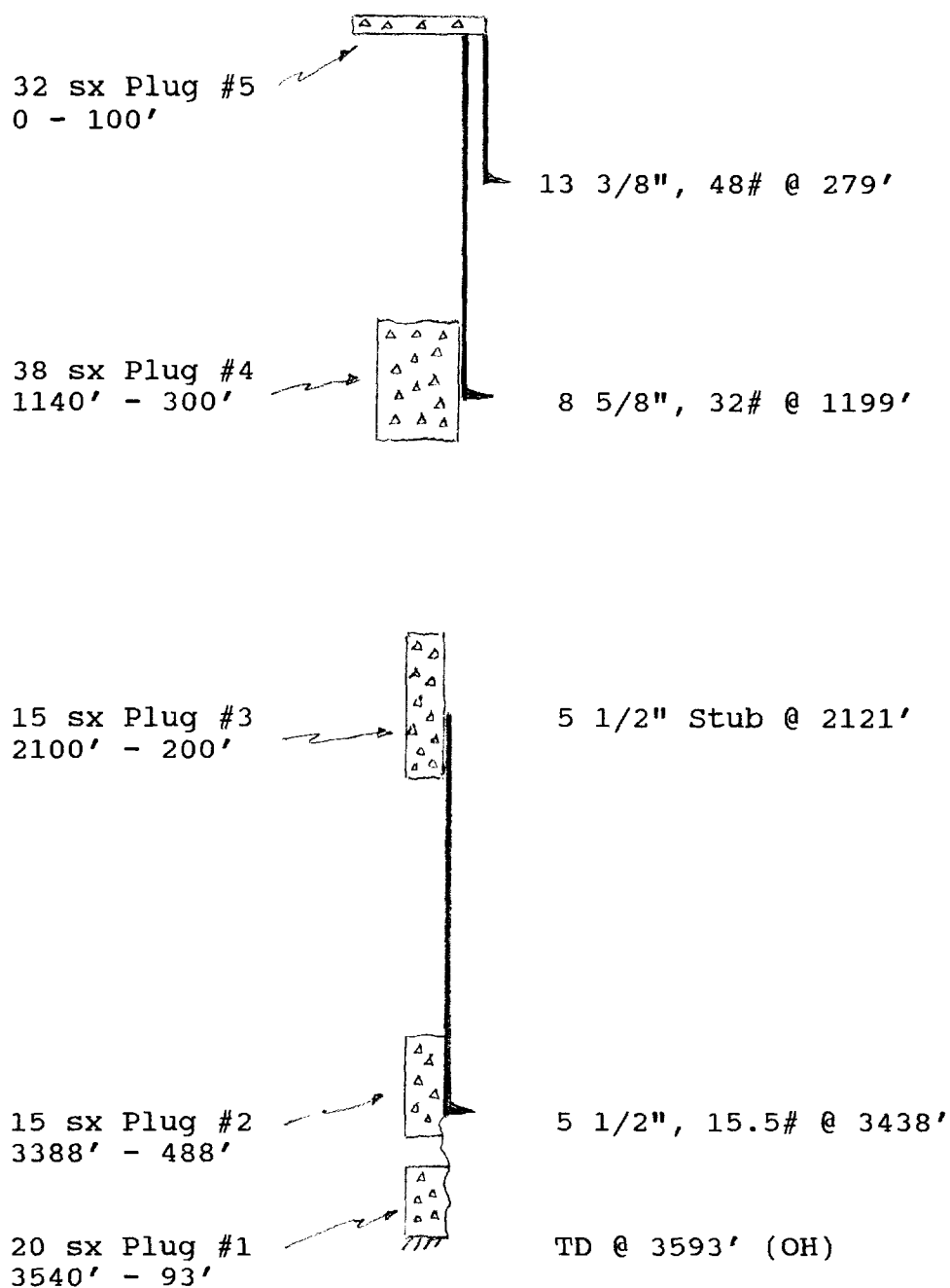
E. F. Leatherwood, Driller E. J. Locke, Driller
L. C. Arnold, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1050	1050	Surface sand and redbed.
1050	1170	120	Shale and sand.
1170	1200	30	Anhydrite and shale.
1200	2700	1500	No samples.
2700	2740	40	Salt.
2740	2830	90	Dolomite and anhydrite.
2830	3475	645	Dolomite.
3475	3535	60	Dolomite and sand.
3535	3560	25	Dolomite.
3560	3580	20	Dolomite and sand.

O'Neill Properties, Ltd.
Form C-108, Item VI
Plugged well Outside 1/2 mi Radius.

Conoco Vaughn B-1
Well No. 4
Completed drilling 4-6-50
Temporarily abandoned 4-10-50
Permanently abandoned 10-14-51
Location 660' FNL & 1980' FEL, 1-24S-36E, Lea County, New Mexico



O'Neill Properties, Ltd.
Form C-108, Item VII
Data on the Proposed Operation

1. Proposed average and maximum daily rate and volume of fluids to be injected are 100 barrels per day and 200 barrels per day, respectively.
2. The system will be closed.
3. Proposed average and maximum injection pressure is 1000 psig and 2000 psig, respectively.
4. Sources and an appropriate analysis of injection fluid is attached to this page. All fluid to be injected will be reinjected produced water.
5. Not applicable.

HALLIBURTON DIVISION LABORATORY
HALLIBURTON SERVICES
MIDLAND DIVISION
HOBBS, NEW MEXICO 88240

Well File

LABORATORY WATER ANALYSIS

No. W79-427

To John Yuronka
102 Petroleum Building
Midland, Texas 79702

Date 5-8-79

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

RECEIVED MAY 11 1979

Submitted by _____ Date Rec. 5-7-79Well No. Arco Crump #1 Depth _____ Formation _____

County _____ Field _____ Source _____

Resistivity	<u>0.092 @ 74° F.</u>	
Specific Gravity	<u>1.069</u>	
pH	<u>3.8</u>	
Calcium (Ca)	<u>11,000</u>	*MPL
Magnesium (Mg)	<u>2,250</u>	
Chlorides (Cl)	<u>58,000</u>	
Sulfates (SO ₄)	<u>600</u>	
Bicarbonates (HCO ₃)	<u>Nil</u>	
Soluble Iron (Fe)	<u>120</u>	

API Gr. of Oil @ 60° F. - 33.6Remarks: There was no emulsion present in the sample.

*Milligrams per liter

Respectfully submitted,

Analyst: Brewer
cc:

HALLIBURTON COMPANY

By W. L. Brewer

CHEMIST

NOTICE

THIS REPORT IS LIMITED TO THE DESCRIBED SAMPLE TESTED. ANY USER OF THIS REPORT AGREES THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER IT BE TO ACT OR OMISSION, RESULTING FROM SUCH REPORT OR ITS USE.

O'Neill Properties, Ltd.
Form C-108, Item VIII.
Geologic Data

The Seven Rivers and Queen formations appear to be approximately 600 feet thick in this area. However, the injection zone will be the lower 100 feet of the Seven Rivers and the Queen formations. This interval falls within the vertical limits of the Langlie-Mattix Seven Rivers/Queen/Grayburg Pool. The Seven Rivers and Queen formations are primarily dolomite and sand.

The fresh water in this area is produced from the Ogalala formation at approximately 100 to 300 feet.

O'Neill Properties, Ltd.
Form C-108, Item IX.
Proposed Stimulation Program

None.

O'Neill Properties, Ltd.
Form C-108, Item X

Appropriate logging and test data are attached to this page.

THE URDOVKIAN ASSOC.

O'Neill Properties, Ltd.
Form C-108, Item X.
Appropriate Logging and
Test Data

Welex		COMPENSATED DENSITY LOG																																																	
COMPANY JOHN YURONKA																																																			
WELL ARCO CRUMP # 2																																																			
FIELD LANGLEY - MATTIX																																																			
COUNTY LEA STATE NEW MEXICO																																																			
Location 1650' FSL & 1650' FEL		Other Services																																																	
Sec. 1 Twp. 24-S Rge. 36-E		Guard																																																	
		Forno																																																	
Ground Level 3333'		Elev. K.R. 3346'																																																	
Log Measured from K. B. - 13 Ft. Above Forno. Datum		D.P. 3345'																																																	
Drilling Measured from Kelly Bushing		G.I. 3332'																																																	
Date	1/17/73																																																		
Run No.	- One -																																																		
Type Log	Density																																																		
Depth-Driller	3730																																																		
Depth-Well	3719																																																		
Bottom Logged Interval	3718																																																		
Top Logged Interval	Surface																																																		
Type Fluid in Hole	Mud																																																		
Solubility, PPM Cl.																																																			
Density																																																			
Level	Full																																																		
Max. rec. temp., deg. F.	99° F.																																																		
Operating Rig Time																																																			
Recorded By	G. Harrison																																																		
Witnessed by	Mr. J. Yuronka																																																		
<table border="1"> <thead> <tr> <th colspan="4">BORE-HOLE RECORD</th> <th colspan="4">CASING RECORD</th> </tr> <tr> <th>Run</th> <th>Bit</th> <th>From</th> <th>To</th> <th>Size</th> <th>Wgt.</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>-1-</td> <td>7-7/8"</td> <td>397'</td> <td>3730'</td> <td>8-5/8"</td> <td></td> <td>0</td> <td>397'</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				BORE-HOLE RECORD				CASING RECORD				Run	Bit	From	To	Size	Wgt.	From	To	-1-	7-7/8"	397'	3730'	8-5/8"		0	397'																								
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Run	Bit	From	To	Size	Wgt.	From	To																																												
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Reproduced By
Electrical Log Services
McLennan, Texas 76701

REFERENCE W 7495R

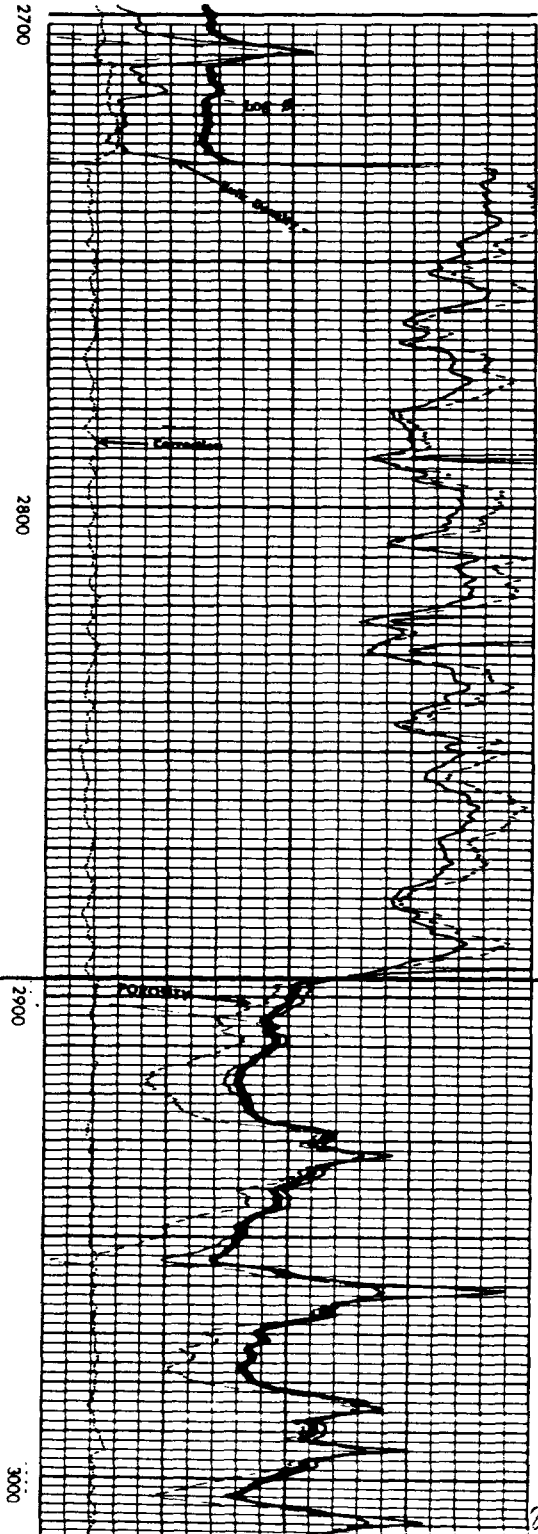
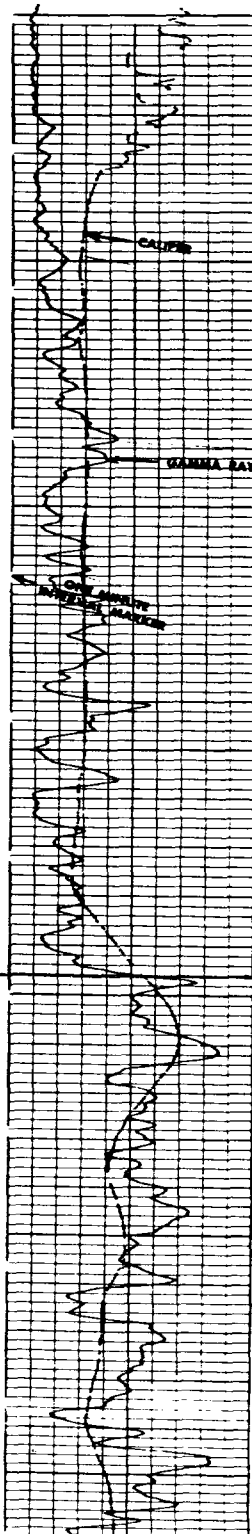


COMPLETION RECORD

SPUD DATE	
COMP DATE	
DST RECORD	
API NO.	30-025-24334
CASING RECORD	
PERFORATING RECORD	
ACID. FRAC SHOT	
I P	
GOR	GR
T P	C P
REMARKS:	

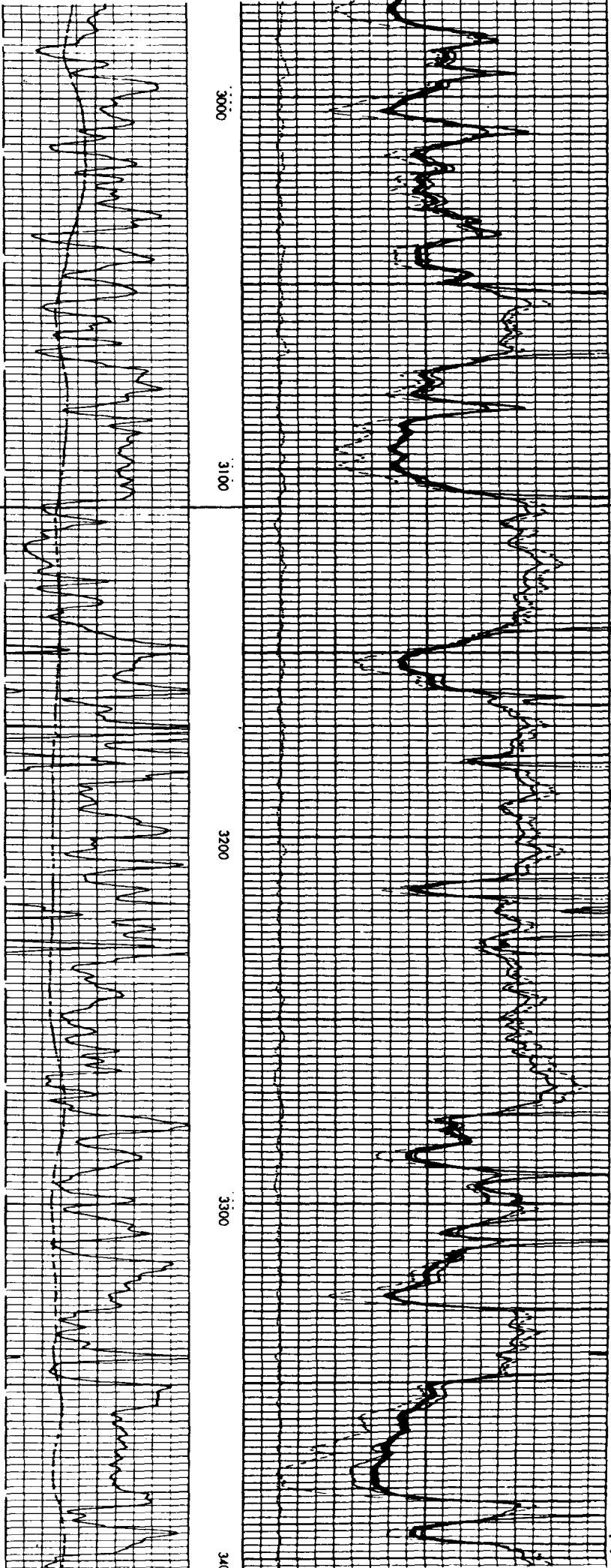
5" = 100'

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">GAMMA</th> </tr> <tr> <td colspan="2" style="text-align: center;">API Gamma Ray Units</td> </tr> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">100</td> </tr> <tr> <td style="text-align: center;">100</td> <td style="text-align: center;">200</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">CALIPER</th> </tr> <tr> <td colspan="2" style="text-align: center;">Average Diameter in.</td> </tr> <tr> <td style="text-align: center;">6"</td> <td style="text-align: center;">16"</td> </tr> </table>	GAMMA		API Gamma Ray Units		0	100	100	200	CALIPER		Average Diameter in.		6"	16"	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3" style="text-align: center;">BULK DENSITY</th> </tr> <tr> <td colspan="3" style="text-align: center;">Grams/cc (when $\frac{Z}{A} = 0.5$)</td> </tr> <tr> <td style="text-align: center;">2.0</td> <td style="text-align: center;">2.5</td> <td style="text-align: center;">3.0</td> </tr> <tr> <td colspan="2" style="text-align: center;">1.5</td> <td style="text-align: center;">2.0</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="5" style="text-align: center;">POROSITY (%) $\rho_0 = 2.71$</th> </tr> <tr> <td style="text-align: center;">30%</td> <td style="text-align: center;">20%</td> <td style="text-align: center;">10%</td> <td style="text-align: center;">0%</td> <td style="text-align: center;">-10%</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3" style="text-align: center;">CORRECTION (gram/cc)</th> </tr> <tr> <td style="text-align: center;">-0.4</td> <td style="text-align: center;">0.2</td> <td style="text-align: center;">0.4</td> </tr> </table>	BULK DENSITY			Grams/cc (when $\frac{Z}{A} = 0.5$)			2.0	2.5	3.0	1.5		2.0	POROSITY (%) $\rho_0 = 2.71$					30%	20%	10%	0%	-10%	CORRECTION (gram/cc)			-0.4	0.2	0.4	
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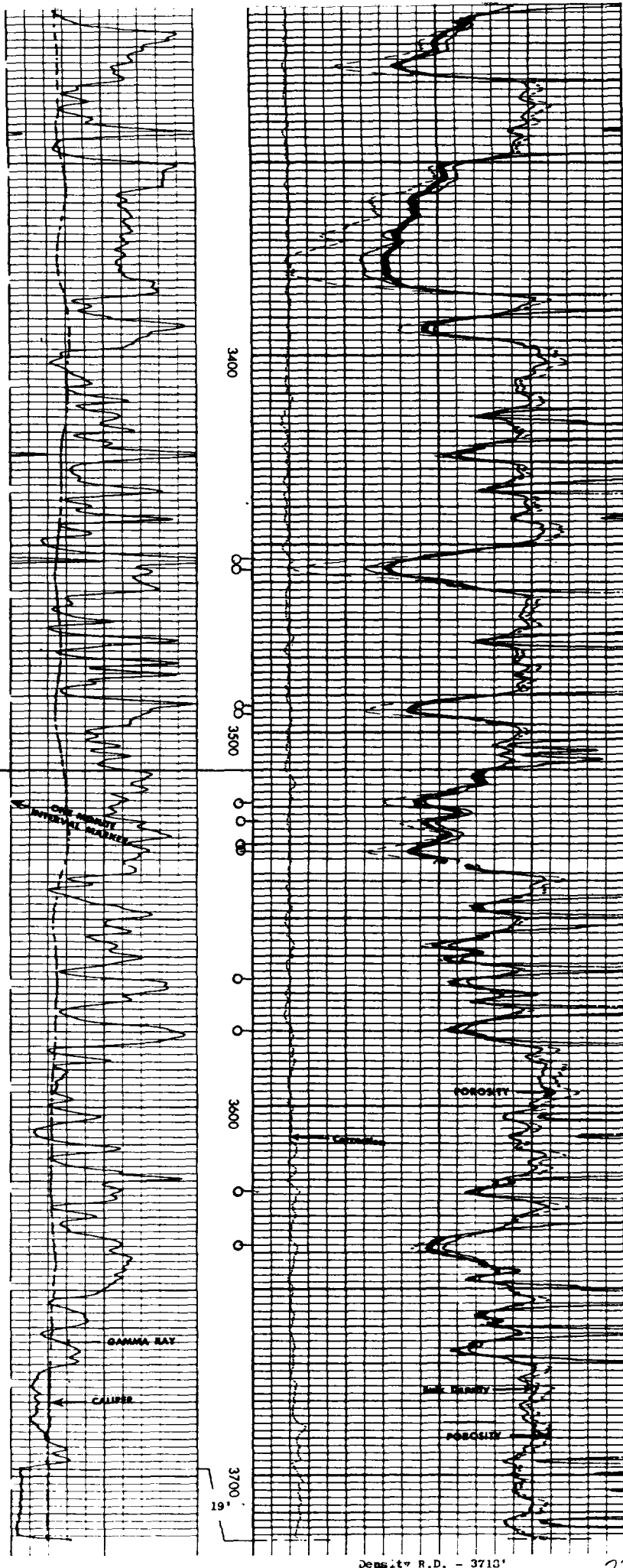


T/Yates
2896'

T/7 Rivers
3110'



T/Queen
3510'



NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease
State ☐ Fee ☒
5. State Oil & Gas Lease No.

1a. TYPE OF WELL
OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐
b. TYPE OF COMPLETION
NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐

2. Name of Operator
John Yuronka
7. Unit Agreement Name
ARCO Crump

3. Address of Operator
120-C Central Building, Midland, Texas 79701
9. Well No.
2

4. Location of Well
UNIF-LETTER **J** LOCATED **1650** FEET FROM THE **South** LINE AND **1650** FEET FROM

THE **East** LINE OF SEC. **1** TWP. **24-S** RGE. **36-E** NMPM
12. County
Lea

15. Date Spudded **1-10-73** 16. Date T.D. Reached **1-17-73** 17. Date Compl. (Ready to Prod.) **1-21-73** 18. Elevations (DF, RKB, RT, GR, etc.) **3345' DF** 19. Elev. Casinghead **3333'**

20. Total Depth **3730'** 21. Plug Back T.D. **3695'** 22. If Multiple Compl., How Many
23. Intervals Drilled By Rotary Tools **0-3730'** Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name
3454' - 3638' Seven Rivers & Queen
25. Was Directional Survey Made **No**

26. Type Electric and Other Logs Run
Compensated Density, Guard & Forxo
27. Was Well Cored **No**

28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	20#	397'	11"	300 xxa. Class "C"	
4-1/2"	9.5#	3730'	7-7/8"	285 xxa. Class "C" 50-50 Pozmix 2% Gel	

29. LINER RECORD				30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SIZE	DEPTH SET	PACKER SET
				2"	3561'	HORCO R-4
						3539'

31. Perforation Record (Interval, size and number)
3454', 3457', 3493', 3495', 3519', 3524', 3530', 3532', 3566', 3580', 3623' and 3638' w/1 SPF
32. ACID, SHOT, FRACTURE, CEMENT SOUEEZE, ETC.
DEPTH INTERVAL
3454' - 3638' AMOUNT AND KIND MATERIAL USED
2000 gals. 15% HCl acid & 20 Ball Sealers. Frac w/20000 gals. 1% KCl water, 40# Gel/1000 gals. & 28,750 # 20/40 sand.

33. PRODUCTION
Date First Production **1-24-73** Production Method (Flowing, gas lift, pumping - Size and type pump) **Flowing** Well Status (Prod. or Shut-in) **Producing**
Date of Test **1-28-73** Hours Tested **24** Choke Size **20/64"** Prod'n. For Test Period **90** Oil - Bbl. **90** Gas - MCF **101** Water - Bbl. **69** Gas - Oil Ratio **1.122**
Flow Tubing Press. **90#** Casing Pressure **Pkr.** Calculated 24-Hour Rate **90** Oil - Bbl. **90** Gas - MCF **101** Water - Bbl. **69** Oil Gravity - API (Corr.) **35**

34. Disposition of Gas (Sold, used for fuel, vented, etc.) **Sold** Test Witnessed By **R. G. Schuenle**

35. List of Attachments
Compensated Density, Guard & Forxo

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED **John Yuronka** TITLE **Authorized Agent** DATE **2-2-73**

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy <u>1179'</u>	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt <u>1455'</u>	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt <u>2730'</u>	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates <u>2896'</u>	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers <u>3106'</u>	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen <u>3510'</u>	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzte _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinberry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo' _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	1179	1179	Caliche & Red Bed				
1179	1455	276	Anhydrite				
1455	2730	1275	Salt & Anhydrite				
2730	2896	166	Dolomite & Anhydrite				
2896	3106	210	Sand & Dolomite				
3106	3510	404	Dolomite & Sand				
3510	3730	220	Sand & Dolomite				

RECEIVED
FEB 1973
OIL CONSERVATION COMM.
HOBBS, N. M.

O'Neill Properties, Ltd.
Form C-108, Item XI.
Fresh Water Well Data.

There are no fresh water wells on file with the Water Resources Department within a one-mile radius of the proposed injection well.

There is a stock well 1 1/2 miles to the southeast of the Arco Crump No. 2, and about 1 mile within the western boundary of the Langlie-Mattix waterflood Unit. The chloride count on this well was reported as 699 ppm in 1979. The location of this well is NW/SW/SE 7-24S-37E.

O'Neill Properties, Ltd.
Form C-108, Item XII.
Affirmative Statement

I have had Evelyn Downs, a consultant located in Hobbs, New Mexico examine the available geological and engineering data in the vicinity of the Arco-Crump No. 2. She found no evidence of open faults or other hydrologic connection between the disposal zone and any underground source of drinking water.

O'Neill Properties, Ltd.
Form C-108, Item XIV.
Proof of Notice

Receipts for certified mail in the name of the following parties are attached:

1) Surface owners; ARCO Crump lease:

Deep Wells Ranch, Inc.
Star Route 1
Box 244
Jal, New Mexico 88252

2) Leasehold operators within 1/2 mile radius:

a. ARCO Oil & Gas Company
600 Marienfeld Street
Midland, Texas 79701

Attention: Production Dept.

b. Conoco, Inc.
10 Desta Drive
Midland, Texas 79705

Attention: Production Dept.

c. Texaco, Inc.
P. O. Box 3109
Midland, Texas 79702

Attention: Production Dept.

3) Copy of legal advertisement published in Hobbs News - Sun

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

L. Linda Koenig

Advertising Manager

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period

of _____

one weeks.

Beginning with the issue dated

March 6, 1994

and ending with the issue dated

March 6, 1994

Linda Koenig

Advertising Manager
Sworn and subscribed to before

me this 7 day of

March, 1994

Charles E. Koenig

Notary Public.

My Commission expires

March 15, 1997

(Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

Post-It™ brand fax transmittal memo 7671

of pages > 1

To <u>Shannon</u>	From <u>Charles</u>
Co. <u>O'Neill Prop.</u>	Co. <u>Hobbs News-Sun</u>
Dept.	Phone <u>(505) 393-2123</u>
Fax # <u>(915) 683-4500</u>	Fax <u>(505) 393-5724</u>

LEGAL NOTICE

March 6, 1994

O'Neill Properties, Ltd., proposes to convert the following well from oil production to water injection service:

ARCO Pump No. 2

1650' FSL & 1650'

FEL 1-24S-30E

Langia-Matta Field

Seven Rivers, Queen

Grayburg Formation

Lea County, New Mexico

1) Name, address, phone number and contact party for the applicant:

O'Neill Properties, Ltd.

P.O. Box 2840

Midland, Texas 79702

Attention: Robert N. Johnson

2) The intended purpose of the injection well is to enhance oil production.

3) Depth of injection is 3484'

3838'. Maximum injection

rates and pressures are 200

barrels per day at 2000 pps.

4) Interested parties must

file objections or requests

for hearing with the following

within 15 days:

Oil Conservation Division

P.O. Box 2088

Santa Fe, New Mexico

87504-2088

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

3. Article Addressed to:
Deep Wells Ranch, Inc.
Star Route 1
Box 244
Jal, New Mexico 88252

5. Signature (Addressee)

6. Signature (Agent)

4a. Article Number

30,091

4b. Service Type

- ☒ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery

8. Addressee's Address (Only if requested and fee is paid)

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

Thank you for using Return Receipt Service.

PS Form 3811, December 1991 ☆ U.S.G.P.O. : 1992-307-530

DOMESTIC RETURN RECEIPT

O'Neill Properties, Ltd.

Box 2840
Midland, Texas 79702

TO:

Deep Wells Ranch, Inc.
Star Route 1
Box 244
Jal, New Mexico 88252

O'NEILL PROPERTIES, LTD.

P.O. BOX 2840
MIDLAND, TX 79702

Midland Texas 79702

RECEIVED
MAY 10 1964
U.S. DEPARTMENT OF AGRICULTURE
WASHINGTON, D.C.

Attention: Production Dept.

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
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- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address

2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Conoco, Inc.

10 Desta Drive

Midland, Texas 79705

Attention: Production Dept.

4a. Article Number

30,093

4b. Service Type

☒ Registered

☐ Insured

☒ Certified

☐ COD

☐ Express Mail

☐ Return Receipt for Merchandise

7. Date of Delivery

5. Signature (Addressee)

6. Signature (Agent)

8. Addressee's Address (Only if requested and fee is paid)

Thank you for using Return Receipt Service.

PS Form 3811, December 1991 ☆ U.S.G.P.O. : 1992-307-530

DOMESTIC RETURN RECEIPT

O'Neill Properties, Ltd.

P.O. BOX 2840

MIDLAND, TEXAS 79702

RECEIVED
O'NEILL PROPERTIES, LTD.
MIDLAND, TEXAS
JAN 10 1992

TO:

Conoco, Inc.

10 Desta Drive

Midland, Texas 79705

Attention: Production Dept.

O'NEILL PROPERTIES, LTD.

P.O. BOX 2840

MIDLAND, TX 79702