

Stogner's Copy

APPLICATION FOR AUTHORIZATION TO INJECT

Ray Westall, Merland #1

RAY WESTALL
Case No. 9189
9/09/87 Examiner Hearing
Exhibit No. 1

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☐ no
- II. Operator: RAY WESTALL
Address: P.O. BOX 4 LOCO HILLS NEW MEXICO 88255
Contact party: RAY WESTALL Phone: (505) 677-3113
- III. Well data: Complete the data required on the reverse side of this form for each well proposed 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 source 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: Ray Westall Title: OPERATOR
Signature: Ray Westall Date: 6/25/87
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. _____

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- III. Well Data
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- IX. Proposed stimulation program
- X. Well Log
- XI. Fresh Water Analysis
- XII. Affirmative Statement
- XIII. Proof of Notice
- XIV. Certification

I. Purpose

- a. To inject produced water from the producing Brushy and Cherry Canyon formations into a non productive Cherry Canyon formation sand.
- b. Application does not qualify for administrative approval.

II. Operator

Ray Westall. Offices located at the Hughes Services building in LocoHills New Mexico. Mailing address P.O. Box 4 LocoHills New Mexico 88255. Phone Number (505)677-3113.

SECTION III
WELL DATA

III. Well Data:

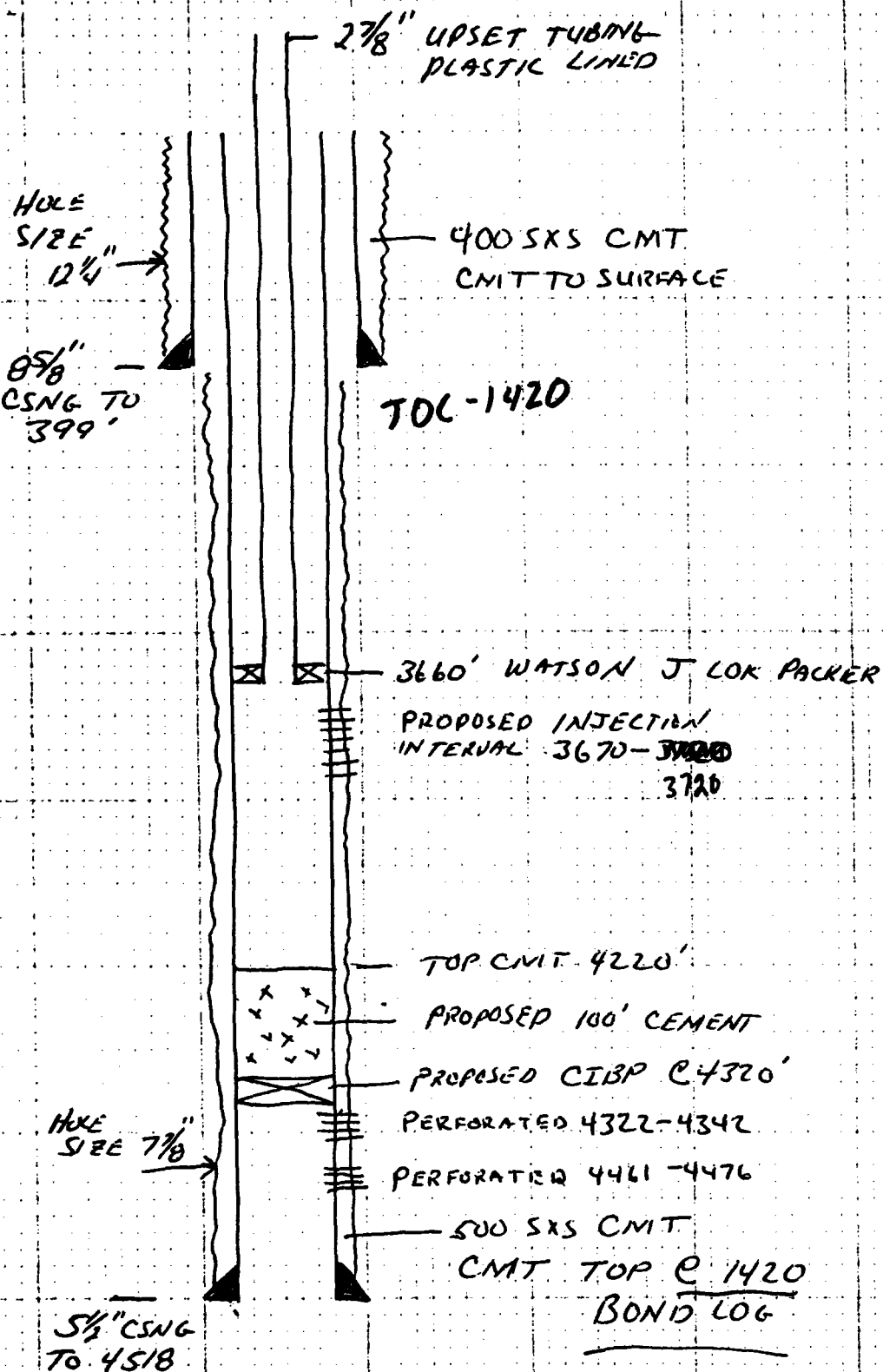
*originally
a Brushy Canyon
oil well*

A.

1. Lease Name: Ray Westall Merland, Well No.1
Location: Sec. 24-T22S-R26E, Eddy County.
Footage: 990' FSL & 1870' FEL.
2. Casing Strings:
8 5/8" 24# J-55 0-399'
Cemented with 250 sacks class "C" cement
Cement did not circulate, ran 1" to 150' pumped
100 sacks class "C" circulated to surface.
5 1/2" J-55 0-4518.
Cemented with 300 sacks Lite "C" and 200 sacks
50-50 poz class "C". Top cement 1420' by bond
log.
3. 2 7/8" upset tubing plastic lined to be set at
3660'.
4. Watson J Lok packer with nickel coating to be set
at 3660'.

B.

1. Formation: Cherry Canyon
2. Interval: 3670-3720' Perforated.
3. Brushy Canyon oil well.
4. Perforated: 4461-4476, 4322-4342 proposed
plug back with CIBP at 4322, dump 100' cement.
5. Cherry canyon at 3100'.



RAY WESTALL
MERCANT No. 1
990 FSL 1870 FEL
SECTION 24-T225-R261

SPUD - 8-13-79
TD - 4527
FORMATION - BRUSHY
CANYON
TYPE OIL WELL

**REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS**

Supersedes Old C-104 and C-111
Effective 1-1-85

RECEIVED

MAR 14 1980

FILE	
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL GAS
OPERATOR	
PRORATION OFFICE	

Operator Joe Don Cook RAY WESTALL O. C. D.
ARTESIA OFFICE

Address 805 North Richardson Roswell, New Mexico 88201

Reason(s) for filing (Check proper box)		Other (Please explain)	
New Well ☒	Change in Transporter of:	CASINGHEAD GAS MUST NOT BE FLARED AFTER <u>5-1-80</u> UNLESS AN EXCEPTION TO <u>Rule 306</u> IS OBTAINED <u>12-683</u> until further notice	
Recompletion ☐	Oil ☐ Dry Gas ☐		
Change in Ownership ☐	Casinghead Gas ☐ Condensate ☐		

If change of ownership give name and address of previous owner _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name <u>Merland</u>	Well No. <u>1</u>	Pool Name, Including Formation <u>S. Carlsbad-Delaware</u>	Kind of Lease State, Federal or Fee <u>Fee</u>	Lease No.
Location				
Unit Letter <u>0</u> : <u>990</u> Feet From The <u>South</u> Line and <u>1870</u> Feet From The <u>East</u>				
Line of Section <u>24</u> Township <u>22S</u> Range <u>26E</u> , NMPM, <u>Eddy</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☒ or Condensate ☐	Address (Give address to which approved copy of this form is to be sent)
<u>Navajo Crude Oil Purchasing Co.</u>	<u>Box 159 Artesia, New Mexico 88210</u>
Name of Authorized Transporter of Casinghead Gas ☒ or Dry Gas ☐	Address (Give address to which approved copy of this form is to be sent)
<u>Trans Western Pipe Line</u>	<u>Box 2521 Houston, Texas 77701</u>
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When
<u>0</u> <u>24</u> <u>22S</u> <u>26E</u>	<u>No</u> <u>Yes</u> <u>5-15-80</u> <u>3-20-80</u>

If this production is commingled with that from any other lease or pool, give commingling order number: _____

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well ☒ Gas Well ☐ New Well ☒ Workover ☐ Deepen ☐ Plug Back ☐ Same Res'v. ☐ Diff. Res'v. ☐
Date Spudded <u>8-13-79</u>	Date Compl. Ready to Prod. <u>9-15-79</u>
Total Depth <u>4527</u>	P.B.T.D. <u>4518</u>
Elevations (DF, RKB, RT, CR, etc.) <u>3181</u>	Name of Producing Formation <u>Delaware</u>
Top Oil/Gas Pay <u>4461</u>	Tubing Depth <u>4400</u>
Perforations <u>4461 - 4476 (26 holes)</u> <u>4322 - 42 (81 holes)</u>	Depth Casing Shoe <u>4518</u>
TUBING, CASING, AND CEMENTING RECORD	
HOLE SIZE <u>12 1/2</u>	CASING & TUBING SIZE <u>8 5/8</u>
DEPTH SET <u>399'</u>	SACKS CEMENT <u>400 sacks CMC</u>
<u>7 7/8</u>	<u>5 1/2</u>
<u>4518'</u>	<u>500 sacks 70# 1420 lb</u>

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tank <u>9-15-79</u>	Date of Test <u>9-15-79</u>	Producing Method (Flow, pump, gas lift, etc.) <u>Pump</u>	
Length of Test <u>24 hours</u>	Tubing Pressure <u>30#</u>	Casing Pressure <u>30#</u>	Choke Size
Actual Prod. During Test <u>75 bbls.</u>	Oil - Bbls. <u>10 bbls.</u>	Water - Bbls. <u>57</u>	Gas - MCF <u>75,000</u>

GAS WELL

NO. 101-101
MATCH

AUG 20 1979

O. C. C.

ARTESIA OFFICE

SURVEY POINTS AND DEBITS OR WELLS

REGISTRATION OF THIS POINT IS REQUIRED FOR ALL SURVEY POINTS, INCLUDING SURVEY POINTS TO A DIFFERENT SURVEYOR.

IF THERE ARE ANY CHANGES TO THE SURVEY POINT, THE SURVEYOR MUST FILE A CORRECTION WITH THE ARTESIA OFFICE.

[X] []

JOE DON COOK ✓

P.O. BOX 159, ROSWELL, NEW MEXICO 88201

0 990 SOUTH LINE AND 1870 FEET FROM

EAST LINE, SECTION 24 TOWNSHIP 22-S RANGE 26-E

SECTION 3481

Check Appropriate Box To Indicate Nature of Notice, Report or Other Document

NOTICE OF INTENTION TO:

SURVEY POINTS AND DEBITS OR WELLS

REMEDIAL WORK ☐

PUMP AND PUMPING ☐

REMEDIAL WORK ☐

REMEDIAL WORK ☐

REMEDIAL WORK ☐

REMEDIAL WORK ☐

REMEDIAL WORK ☐

REMEDIAL WORK ☐

REMEDIAL WORK ☐

REMEDIAL WORK ☐

REMEDIAL WORK ☐

REMEDIAL WORK ☐

SET SURFACE PIPE ☐

OTHER ☐

OTHER ☐

File To Be Completed Operations. (If necessary, state all pertinent details, and give pertinent dates, including completion date.)

RAN 399ft. of 8 5/8 24 lbs.

CIRCULATING 250 SACKS OF CLASS C CEMENT, 2% CALCLIDE

RAN TEMPERATURE SURVEY & FOUND CEMENT (150 ft. FROM SURFACE)

RAN 1 INCH DOWN 150 ft. AND PUMPED 100 SACKS OF CLASS C CEMENT TO SURFACE.

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

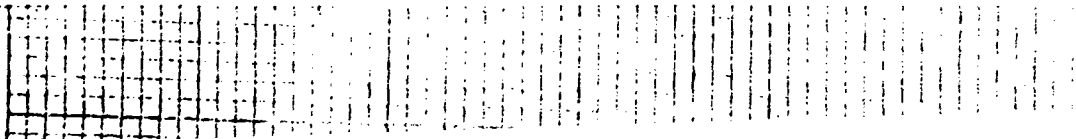
Joe Don Cook

OPERATOR

AUGUST 15 1979

For Record Only

IONS OF APPROVAL, IF ANY:



FILE
U.S.G.S.
LAND OFFICE
OPERATOR

SEP 4 1979

O. C. C.
ARTERIA, OFFICE

Oil and Gas Lease
Date
Lease No.

SUMMARY OF ACTIVITIES AND EFFORTS ON WELLS

DO NOT USE THIS FORM FOR WELLS THAT ARE PRODUCING OR HAVE PRODUCED IN THE PRESENT RESERVOIR. USE MAPS TO LOCATE WELLS IN THE PRESENT RESERVOIR.

1. ☒ OIL WELL ☐ GAS WELL ☐ OTHER

2. NAME OF OPERATOR
JOE DON COOK

3. ADDRESS OF OPERATOR
P.O. BOX 159, ROSWELL, NEW MEXICO 88201

4. Location of well
UNIT LETTER C 990 FEET FROM THE SOUTH LINE AND 1870 FEET FROM THE EAST LINE, SECTION 24 TOWNSHIP 22-S RANGE 26-E MAP

5. Elevation (Show whether DF, RT, GR, etc.)
3181

6. Name of Landowner
LUTLAND

7. Name of Lessee
O. C. C.

8. Name of Operator
JOE DON COOK

9. Name of Engineer
EDDY

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT DEVELOPMENT

PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	REPAIRING CEMENT ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPER. ☐	REPAIR AND ABANDONMENT ☐
PULL OR ALTER CASING ☐	OTHER ☐	CASING TEST AND CEMENT JOB ☐	

17. Describe Proposed or Completed Operation. Clearly state all pertinent details, and give pertinent dates, including estimated date of completion (if any). (SEE RULE 1103.)

RIGGING DOWN, RAD 4527 ft. 5 1/2 CASING-SET AT 4527 ft. CEMENTED WITH 500 SACKS-HALLIBURTON LITE AND 200 SACKS 50-50 POZ. PLUG DOWN AT 8:30 a.m. 8-26-79. (TCCC 1420) Bond Log

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

SIGNED Joe Don Cook TITLE OPERATOR

IN WITNESS WHEREOF W. A. Gussert TITLE SUPERVISOR, DISTRICT II

NOV 9 1979

SECTION V

AREA MAP

SECTION VI

TABULATION OF WELL DATA

GO POGO No 2

GRACE ENERGY CO.
1980 FNL & 1980 FEL
SEC 24-T225-R26E

13 3/8"
319'-

- 300 SXS
CMT CIR TO SURFACE

SPUD - 6-29-71

TD - 12,012

TYPE - GAS

FORMATION - MORROW

COMP - 11,382-11,482

9 5/8"
5328'-

- 1900 SXS
CMT CIR TO SURFACE

- 860 SXS

7"
11,810'-

LAND OFFICE
U.S.G.S.
OPERATOR

U.S. GEOLOGICAL SURVEY
WELL COMPLETION RECOMPLETION REPORT AND LOG

1. TYPE OF WELL
a. TYPE OF COMPLETION
NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐
b. TYPE OF COMPLETION
NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐
2. Name of Operator
Gorham-Crane - GRACE ENERGY CO.
3. Address of Operator
P. O. Box 207 Carlsbad, New Mexico
4. Location of Well
UNIT LETTER G LOCATED 1980 North 1980
East 24 22S 26E
TNE LINE OF SEC. TWP. RGE. NMPM
15. Date Spudded 6/29/71 16. Date T.D. Reached 8/27/72 17. Date Compl. (Ready to Pump) Sept. 23, 1972 18. Elev. (H.K. RKB, RT, GR, etc.) 3182 GR 19. Elev. Casinghead
20. Total Depth 12,012 21. Plug Depth T.D. 11,765 22. If Multiple Compl., How Many 23. Intervals Drilled By T.D. 24. Producing Interval(s), of this completion - Top, Bottom, Name 11382-11482 25. Was Directional Survey Made yes
26. Type Electric and Other Logs Run BHC Acoustilog, Gamma Ray/Neutron, Micro-Laterolog, Laterolog 27. Was Well Corred No
28. CASING RECORD (Report all strings set in well)
CASING SIZE WEIGHT LB./FT. DEPTH SET HOLE SIZE CEMENTING RECORD AMOUNT PULLED
15 5/8 48# 319 17 1/2 200lb. wt. & 100 lb. wt. 0
9 5/8 40# & 36# 5328 12 1/4 1500 Tri. Lt. wt. & 100 lb. wt. 0
7 29#, 26#, 23# 11810 8 1/4 1st stg. 460 lb. wt. & 2nd stg. 400 Halliburton lt. wt. 0
29. LINER RECORD 30. TUBING RECORD
SIZE TOP BOTTOM SACKS CEMENT SCREEN SIZE DEPTH SET PACKER SET
2 7/8 11,366 11,366
31. Perforation Record (Depth and number of shots) 11385-11401 (17 shots) 11454-60 (4 spf) 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
11394-11404 (41 shots) 11480-82 (4 spf) DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED
11382-11394 (49 shots) 11454-11460 (4 spf) None None
11382-11394 (48 shots) 11382-11394 (4 spf)
11424-11434 (4 spf)
33. PRODUCTION
Date First Production Production Method (Flowing, gas lift, pumping - Size and type pump) Well Status (Prod. or Shut-in) Shut-In
Date of Test 9/23/72 Hours Tested 7 Flow Rate (Test Period) variable Oil - BBL 0 Gas - MCF 811.75 Water - BBL 0 Gas - Oil Ratio No fluid produced
Flow Tubing Press. 3231 Casing Pressure PKR * From last rate point test
34. Disposition of Gas (Sold, used for fuel, vented, etc.) To be sold CACF 54,263 MCFPD Inconclusive test
35. List of Attachments above logs
36. I hereby certify that the information furnished herein is true and correct to the best of my knowledge and belief
SIGNED [Signature] TITLE Agent DATE Oct. 10, 1972

GRACE-ATLANTIC No 1

GRACE ENERGY Co.
1980 FSL & 1980 FEL
SEC 24 - 7225-R26E

13 7/8"
356 -

- 375 SXS
CMT CIR TO SURFACE

9 5/8"
5402

- 1650 SXS
CMT CIR TO SURFACE

SPUD 1-28-73
TD 11,772
TYPE GAS
FORMATION MORROW
COMP 11424-11444

7"
11768 -

- 500 SXS CMT

FILE
U.S.G.S.
LAND OFFICE
OPERATOR

U.S. MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG
RECEIVED

State ☐ Fee ☒
5. State Oil & Gas Commission

APR 2 1973

13. TYPE OF WELL
b. TYPE OF COMPLETION
NEW ☒ WORK OVER ☐ OFF-PIPE ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐
1. Name of Operator
Michael P. Grace II GRACE ENERGY CO
3. Address of Operator
207 P. O. Box 1418, Carlsbad, New Mexico
4. Location of Well
UNIT LETTER J LOCATED 1980 FEET FROM THE South LINE AND 1980 FEET FROM THE East LINE OF SEC. 24 TWP. 22S RGE. 26E NMPM

7. Unit Agreement Name
8. Farm or Lease Name
Grace-Atlantic
9. Well No.
1
10. Field and Pool, or Wildcat
South Carlsbad

15. Date Spudded 1/28/73
16. Date T.D. Reached 3/11/73
17. Date Compl. (Ready to Prod.) 3/15/73
18. Elevations (DF, RKB, RT, GR, etc.) 3162 GR
19. Elev. Casinghead
20. Total Depth 11,772
21. Flow Base T.D. 11,740
22. If Multiple Compl., How Many
23. Intervals Drilled By Rotary Tools 0-10 Cable Tools
24. Producing Interval(s), of this completion - Top, Bottom, Name
Morrow 2424-4000
25. Was Directional Survey Made Yes
26. Type Electric and Other Logs Run
Laterolog, Micro-Laterolog, Gamma Ray Neutron, BHC Acoustilog
27. Was Well Cased No

28. CASING RECORD (Report all strings set in well)
CASING SIZE WEIGHT LB./FT. DEPTH SET HOLE SIZE CEMENTING RECORD AMOUNT PULLED
13 3/8 61# 356 17 1/2 375 sks Class "B" circled
5 5/8 35 & 10# 1102 12 1/4 1250 sks Hal. lt. 2400 Class "C" circled
7 23#, 26#, 29#, 32# 11768 8 3/4 100 Hal. lt. & 100 Class "H"
29. LINER RECORD
SIZE TOP BOTTOM SACKS CEMENT SCREEN
30. TUBING RECORD
SIZE DEPTH SET PACKER SET
4 1/2 11,000 TOC@ 4000
31. Perforation Record (Interval, size and number)
11,424 - 11,444 hspf
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED
None None

33. PRODUCTION
Date First Production
Production (Flowing, gas lift, pumping - Size and type pump)
Well Status (Prod. or Shut-in)
Shut in
Date of Test 3/29/73 Hours Tested 4
Flow Telling Press. 2473 Casing Pressure pkr.
Oil - BBL. Gas - MCF Water - Bbl. Gas - Oil Ratio
* From last 4 point rate Dry Gas
Oil Gravity - API (Corr.)
34. Disposition (Sales (Sold, used for fuel, etc.))
To be sold LAOF 65,737
35. List of All Elements
All logs listed above
36. I hereby certify that the information furnished herein is true and correct to the best of my knowledge and belief.

SIGNED [Signature] TITLE Agent DATE April 2, 1973

JFG

KUKLAH BABY No 1

2310 FNL & 1650 FEL

SEC 24 - T 22S - R 26E

9 5/8

150 SXS

CMT CIR TO SURFACE

351 -

SPUD 6-18-75

TD 4561

TYPE OIL WELL

FORMATION BRUSHY CANYON

COMP 4446-4469

325 SXS

CMT TOP 2400'

BY TEMP SURVEY

5 1/2

4518 -

SANTA FE FILE U.S.G.S. LAND OFFICE OPERATOR		NEW MEXICO OIL CONSERVATION COMMISSION WELL COMPLETION OR RECOMPLETION REPORT		LOG																															
JAN - 4 1980		O. C. D. ARTESIA, OFFICE		30. Indicate by check box: State ☐ Fee ☒																															
a. TYPE OF WELL OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐		b. TYPE OF COMPLETION NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐		5. State Oil & Gas Lease No.																															
2. Name of Operator JFG ENTERPRISES		3. Address of Operator Box 100, Artesia, New Mexico 88210		7. Unit Agreement Name																															
4. Location of Well UNIT LETTER G LOCATED 2310 FEET FROM THE North LINE AND 1650 FEET FROM East		10. Field and Loc., or Well No. South Carlsbad Delaware		8. Farm or Lease Name Kuklah Baby																															
15. Date Spudded 6-18-75		16. Date T.D. Reached 7-4-75		17. Date Compl. (Ready to Prod.) 8-3-79																															
18. Elevations (DE, RKB, RT, GR, etc.) 3185 GR		19. Elev. Casinghead 3186.5		20. Total Depth 4561'																															
21. Final Back T.D. 4518'		22. If Multiple Compl., How Many		23. Intervals Drilled By Rotary																															
24. Producing Interval(s), of this completion -- Top, Bottom, Name 4446' - 4469' - Delaware		25. Was Directional Survey Made		26. Type Electric and Other Logs Run Laterolog																															
27. Was Well Cored No		28. CASING RECORD (Report all strings set in well)																																	
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>CASING SIZE</th> <th>WEIGHT LBS. FT.</th> <th>DEPTH SET</th> <th>HOLE SIZE</th> <th>CEMENTING RECORD</th> <th>AMOUNT PULLED</th> </tr> </thead> <tbody> <tr> <td>9 5/8"</td> <td>40#</td> <td>351.40'</td> <td>12 1/4</td> <td>150 sks</td> <td>0</td> </tr> <tr> <td>5 1/2"</td> <td>17#</td> <td>39.63'</td> <td>7 7/8</td> <td>325 sks</td> <td>0</td> </tr> <tr> <td>5 1/2"</td> <td>15.5#</td> <td>4427.73'</td> <td>7 7/8</td> <td>"</td> <td>0</td> </tr> <tr> <td>5 1/2"</td> <td>17#</td> <td>93.64'</td> <td>7 7/8</td> <td>"</td> <td>0</td> </tr> </tbody> </table>		CASING SIZE	WEIGHT LBS. FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED	9 5/8"	40#	351.40'	12 1/4	150 sks	0	5 1/2"	17#	39.63'	7 7/8	325 sks	0	5 1/2"	15.5#	4427.73'	7 7/8	"	0	5 1/2"	17#	93.64'	7 7/8	"	0	29. LINER RECORD		30. TUBING RECORD	
CASING SIZE	WEIGHT LBS. FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED																														
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<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SIZE</th> <th>TOP</th> <th>BOTTOM</th> <th>SACKS CEMENT</th> <th>SCREEN</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN						<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SIZE</th> <th>DEPTH SET</th> <th>PACKER SET</th> </tr> </thead> <tbody> <tr> <td>2 3/8"</td> <td>4431.10'</td> <td></td> </tr> </tbody> </table>		SIZE	DEPTH SET	PACKER SET	2 3/8"	4431.10'		31. Perforation Record (Interval, size and number) 4446'-4469' - 2 shots per foot.															
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN																															
SIZE	DEPTH SET	PACKER SET																																	
2 3/8"	4431.10'																																		
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>DEPTH INTERVAL</th> <th>AMOUNT AND KIND MATERIAL USED</th> </tr> </thead> <tbody> <tr> <td>4446-4469</td> <td>5980 gal gelled oil, 300# K-34, 3600# 20/40 sand, 3200# 10/20 sand</td> </tr> </tbody> </table>				DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	4446-4469	5980 gal gelled oil, 300# K-34, 3600# 20/40 sand, 3200# 10/20 sand																										
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4446-4469	5980 gal gelled oil, 300# K-34, 3600# 20/40 sand, 3200# 10/20 sand																																		
33. PRODUCTION																																			
Date First Production 10-6-79		Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping		Well Status (Prod. or Shut-in) Producing																															
Date of Test 12-20-79	Hours Tested 24 hrs.	Choke Size 0	Prod'n. Per Test Period 3	Oil - Bbl. 0	Gas - MCF 55																														
Flow Tubing Press. 0	Confining Pressure 0	Calculated 24-Hour Rate 3	Oil - Bbl. 0	Gas - MCF 55	Water - Bbl. 40.0																														
34. Disposition of Gas (Sold, used for fuel, vented, etc.) Vented				Test Witnessed By J. T. Jackson																															
35. List of Attachments Laterolog																																			
36. I hereby certify that the information furnished on this report is true and complete to the best of my knowledge and belief.																																			
SIGNED J. T. Jackson		TITLE Agent		DATE 1-2-80																															

8 1/8
375 -

250. SXS
CMT CIR TO SURFACE

450 SXS
CMT TOP 1700'

5 1/2
4518 -

JFG
MERLAND No 1
2030 FSL 1846 FEL
SEC 24 - T22S-R26E

SPUD 1-24-74
TD 4518
TYPE OIL WELL
FORMATION BRUSHY CANYON
COMP 4454-4464

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

RECEIVED

FEB 28 1974

1a. TYPE OF WELL OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐		2. Name of Operator D. L. Hannifin and Joe Don Cook ✓ JFG		7. Unit Agreement Name	
b. TYPE OF COMPLETION NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐		3. Address of Operator P. O. Box 945, Roswell, New Mexico 88201		8. Firm or Lessor Name Merland	
4. Location of Well UNIT LETTER <u>J</u> LOCATED <u>2030</u> FEET FROM THE <u>South</u> <u>1846</u> FEET FROM THE <u>East</u> <u>24</u> TWP. <u>22S</u> RGE. <u>26E</u>		5. Well No. 1		9. Elev. Casinghead 3176	
15. Date Spudded 1-24-74		16. Date T.D. Reached 2-13-74		17. Date Compl. (Ready to Prod.) 2-26-74	
18. Elevations (DF, RKB, RT, GR, etc.) 3174 Gr		19. Elev. Casinghead 3176		20. Total Depth 4518	
21. Plug Back T.D. 4488		22. If Multiple Compl., How Many No		23. Interval Drilled By Rotary Tools Total	
24. Producing Interval(s), of this completion - Top, Bottom, Name 4454-4464 Delaware				25. Was Directional Survey Made Yes	
26. Type Electric and Other Log Run Laterlog, BHC Acoustilog				27. Was Well Cased 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	375	12 1/4	250 sks	
5 1/2	15.5	4518	7 7/8	450 sks	
29. LINER RECORD					
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	
30. TUBING RECORD					
SIZE	DEPTH SET	PACKER SET			
2 3/8	4375				
31. Perforation Record (Interval, size and number) 4454-46 45 PF 4458-64			32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		
DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED			
4454-4464		500 gal mud acid			
33. PRODUCTION					
Date First Production 2-25-74		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing			Well Status (Prod. or Shut-in) Producing
Date of Test 2-26-74	Hours Tested 5 hrs	Choke Size 16/64	Prod'n. For Test Period →	Oil - Bbl. 38 BO	Gas - MCF 145MCFPD
Flow Tubing Press. 400	Casing Pressure 550	Calculated 24-Hour Rate →	Oil - Bbl. 182.4	Gas - MCF 145	Water - Bbl. None
34. Disposition of Gas (Sold, used for fuel, vented, etc.) Flared			Test Witnessed By Marshall Morris John W. Neeld		
35. List of Attachments Wellhead, Separator, 500 Barrel Tank					
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>D. L. Hannifin</u>		TITLE <u>Operator</u>		DATE <u>2-28-74</u>	

8 5/8

4 1/8 —

- 250 SXS
CMT CIR TO SURFACE

- 800
~~1000~~ SXS
CMT CIR TO SURFACE

Pos Setter light
+ clean C
(circulated)

RAY WESTALL
BASEBALL PARK NO. 1
1980 FSL & 660 FEL
SEC 24-T225-R26E

SPUD 12-15-84
TD 4950
TYPE OIL WELL
FORMATION CHERRY CANYON &
BRUSHY CANYON
COMP 3152-60 4052-68
4660-90

5 1/2"
4950 —

DISTRIBUTION SANTA FE ☒ FILE ☒ U.S.G.S. ☒ LAND OFFICE ☒ OPERATOR ☒		P. O. BOX 2088 FEBRUARY 22, 1985 NEW MEXICO 87501 WELL COMPLETION OR RECOMPLETION REPORT AND LOG ARTESIA, OFFICE			State ☐ Fee ☒ 5. State Oil & Gas Lease No. _____ 7. Unit Agreement Name _____ 8. Form or Lease Name _____ Baseball Park 9. Well No. 1 10. Field and Pool, or Wildcat _____ S. Carlisbad, Delaware 12. County _____ Eddy																	
19. TYPE OF WELL Oil OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER _____ 2. TYPE OF COMPLETION NEW WELL ☒ WORK OVER ☐ OTHER ☐ 2. Name of Operator Ray Vestall 3. Address of Operator P.O. Box 4 Loco Hills, New Mexico 88255 4. Location of Well _____ UNIT LETTER 1 LOCATED 1980 FEET FROM THE South LINE AND 660 FEET FROM _____ THE East LINE OF SEC. 24 TWP. 22S RGE. 26E NMPM _____ 15. Date Spudded 12-15-84 16. Date T.D. Reached 12-30-84 17. Date Compl. (Ready to Prod.) 2-16-85 18. Elevations (DF, RKB, RT, GR, etc.) 3169. GR 19. Elev. Coringhead _____ 20. Total Depth -4950' 21. Plug Back T.D. 3500' 22. If Multiple Compl., How Many _____ 23. Intervals Drilled By _____ Rotary Tools (X) Cable Tools _____ 24. Producing Interval(s), of this completion - Top, Bottom, Name 2370-4185 Delaware 25. Was Directional Survey Made Yes 26. Type Electric and Other Logs Run DDL-MSFL, CNL, Computer Processed Log 27. Was Well Cased No 28. CASING RECORD (Report all strings set in well) <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>CASING SIZE</th> <th>WEIGHT LB./FT.</th> <th>DEPTH SET</th> <th>HOLE SIZE</th> <th>CEMENTING RECORD</th> <th>AMOUNT PULLED</th> </tr> </thead> <tbody> <tr> <td>8 5/8"</td> <td>24#</td> <td>418'</td> <td>10"</td> <td>250 SXS</td> <td></td> </tr> <tr> <td>5 1/2"</td> <td>17#</td> <td>4950'</td> <td>7 7/8"</td> <td>800 SXS-circulated</td> <td></td> </tr> </tbody> </table>					CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED	8 5/8"	24#	418'	10"	250 SXS		5 1/2"	17#	4950'	7 7/8"	800 SXS-circulated	
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SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN																		
30. PERFORATION RECORD (Interval, size and number) 4052-54-56-61-63, 4660-62-64-66-88-90 (11 holes) 3152-60, 3156-60 (14 holes)																						
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33. LIST OF ATTACHMENTS Logs & Deviation Survey																						
36. I hereby certify that the information shown on this report is true and complete to the best of my knowledge and belief. SIGNED <u>Ray Vestall</u> TITLE <u>Operator</u> DATE <u>2-22-85</u>																						

RAY WESTALL
BASEBALL PARK NO. 2
990 FSL & 660 FEL
SEC 24 - T 22S - R 26E

8 7/8"
400'

— 250 SXS
CMT CIR TO SURFACE

SPUD - 4-2-85
TD - 4600
TYPE - OIL WELL
FORMATION - BRUSHY CANYON
COMP - 4230-4256

1600 SXS
CMT CIR TO SURFACE

5 1/2"
4600'

DISTRIBUTION

SANTA FE

FILE

U.S.G.S.

LAND OFFICE

OPERATOR

61385

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

ARIESIA, OFFICE

1. TYPE OF WELL

2. TYPE OF COMPLETION

3. Name of Operator

4. Location of Well

5. State Oil & Gas Lease No.

6. Term or Lease Name

7. Well No.

8. Field and Pool, or Wildcat

9. County

10. Date Spudded

11. Date T.D. Reached

12. Date Compl. (Ready to Prod.)

13. Elevations (DF, RKB, RT, GR, etc.)

14. Elev. Casinghead

15. Total Depth

16. Plug Back

17. If Multiple Compl., How Many

18. Intervals Drilled By

19. Rotary Tools

20. Cable Tools

21. Producing Interval(s), of this completion

22. Was Directional Survey

23. Was Well Cased

24. Type Electric and Other Logs Run

25. CASING RECORD (Report all strings set in well)

26. PERFORATION RECORD (Interval, size and number)

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

28. Date First Production

29. Production Method (Blowing, gas lift, pumping - Size and type pump)

30. Well Status (Prod. or Shut-in)

31. Date of Test

32. Hours Tested

33. Choke Size

34. Prod'n. For Test Period

35. Oil - Bbl.

36. Gas - MCF

37. Water - Bbl.

38. Gas-Oil Ratio

39. Flow Tubing Press.

40. Casing Pressure

41. Wellbore Pressure

42. Oil - Bbl.

43. Gas - MCF

44. Water - Bbl.

45. Oil Gravity - API (Corr.)

46. Disposition of Gas (Sold, used for fuel, vented, etc.)

47. Test Witnessed By

48. List of Attachments

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

SIGNED

TITLE Operator

DATE 5-3-85

RAY WESTALL
BASE BALL PARK No 3
2104' FSL & 2219' FWL
SEC 24-TLS-R 26E

CMT 250 SXS
CMT TO SURFACE

878
425'

- 925 SXS CMT
CMT TOP @ 400'
TEMP SURVEY

SPUD - 4-14-86

TD - 4520'

FORMATION - BRUSHY
CANYON

PERF - 4444-4465

STATUS - T/A

(Most recent well
completed)

54"
4520

TYPE OF NOTICE	
DISTRIBUTION	
SANTA FE	☒
FILE	☒
U.S.O.B.	☒
LAND OFFICE	☒
OPERATOR	☒

OIL CONSERVATION DIVISION

RECEIVED BY POST 2088
SANTA FE, NEW MEXICO 87501

MAY 02 1986

O. C. D.
ARTESIA, OFFICE

Form C-101
Revised 10-

SUMMARY 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 "C" FORM C-101 FOR SUCH PROPOSALS.)

1. ☒ OIL WELL ☐ GAS WELL ☐ OTHER	10. Indicate type of lease State ☐ Fee ☒
2. Name of Operator Ray Westall	11. State Oil & Gas Lease No.
3. Address of Operator P.O. Box 4 Loco Hills, New Mexico 88255	12. Unit Agreement No.
4. Location of Well UNIT LETTER K 2104 FEET FROM THE South LINE AND 2218 FEET FROM THE West LINE, SECTION 24 TOWNSHIP 22S RANGE 26E NMPM.	13. Field and Pool, or Vicinity Und. S. Carlsbad Delay
5. Elevation (Show whether DF, RT, CR, etc.) 3177. CR	14. County Eddy

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 ☐	OTHER ☐	CASING TEST AND CEMENT JOBS ☐	

Spud, 8 5/8", TD, 5 1/2"

17. 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.

4-14-86 Spud 12 1/2" hole @ 8:00 P.M.

4-15-86 Ran 12 jts. 442' of 8 5/8" 24# J-55 casing. Cemented @ 425' w/250 sxs Class "C" 25 G-01, 4# Cello-seal-did not circulate. Redi-mix w/2 yds. cement. Plug down 11:30 A.M. WOC & redi-mix. Nipple up BOP & test, 10 1/2" for 30 min. hold 12 hrs.

4-23-86 T.B. 4520'. Ran 110 jts. 4538.53' 17# 5 1/2" casing. Set & cemented @ 4520' w/590 sxs P.S. Lite "C", 8# salt + 4# sx Hiseal, 2% AFS, 335 sxs 50-50 Poz C + 5# salt 4# sx Cello-seal. Plug down @ 2:55 P.M. 4-24-86

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

SIGNED Ray Westall TITLE Operator DATE 4-30-86
Original Signed By
Mike Williams
Oil & Gas Inspector
APPROVED BY Mike Williams TITLE Oil & Gas Inspector DATE MAY 9 1986
CONDITIONS OF APPROVAL, IF ANY:

RAY WESTALL
BASEBALL PARK No. 4
2310 FNL & 660 FEL
SEC 24 - T22S - R 26E

8%
434' -

- 250 SXS
CMT CIR TO SURFACE

SPUD - 4-25-86
TD - 4600'
TYPE - OIL WELL
FORMATION - ~~BRITISH~~ CANYON
 CHERRY
COMP - 3150 - 3165

650 SXS

TOP CMT 485'
(BOND LOG)

~~2200~~

5 1/2"
4600' -

DISTRIBUTION SANTA FE FILE U.S.G.B. LAND OFFICE OPERATOR		RECEIVED BY SEP 10 1986 SANTA FE, N. MEXICO 87501 WELL COMPLETION OR RECOMPLETION REPORT AND LOG O. C. D. ARTESIA, OFFICE		RECEIVED BY SEP 19 1986 O. C. D. ARTESIA, OFFICE	
1. TYPE OF WELL 6871				7. Unit Agreement Name	
2. TYPE OF COMPLETION NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER				8. Form or Lease Name Baseball Park	
3. Name of Operator Ray Westall				9. Well No. 4	
4. Address of Operator Box 4 Loco Hills, New Mexico 88255				10. Field and Pool, or Wildcat Ind. S. Carlsbad Delaware	
5. Location of Well 1/4 SECTION H LOCATED 2310 FEET FROM THE North LINE AND 660 FEET FROM East LINE OF SEC. 24 TWP. 22S RGE 26E NMPM				12. County Eddy	
15. Date Spudded 4-25-86		16. Date T.D. Reached 5-4-86		17. Date Compl. (Ready to Prod.) 5-15-86	
		18. Elevations (DF, RKB, RT, GR, etc.) 3150 GR		19. Elev. Casinghead 3151'	
20. Total Depth 4600'		21. Plug Back T.D. 4520'		22. If Multiple Compl., How Many	
		23. Intervals Drilled By All		24. Was Directional Survey Made	
25. Producing Interval(s), of this completion - Top, Bottom, Name 3150-65 Delaware				26. Type Electric and Other Logs Run Cement Bond, Densilog, Dual Laterolog	
27. Was Well Cored No				28. CASING RECORD (Report all strings set in well)	
CASING SIZE 8 5/8" 5 1/2"		WEIGHT LB./FT. 24# 17#		DEPTH SET 434' 4600'	
		HOLE SIZE 12 1/4" 7 7/8"		CEMENTING RECORD 250 sxs circulate 650	
29. LINER RECORD				30. TUBING RECORD	
SIZE 2 3/8"		TOP 3300'		BOTTOM 3300'	
SACKS CEMENT		SCREEN		PACKER SET	
31. Perforation Record (Interval, size and number) 3150-51-52-53-54 3160-61-62-63-64-65				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
		DEPTH INTERVAL 3150-54 3160-65		AMOUNT AND KIND MATERIAL USED Acidized 1000 gal 15% NEFE 20,000 methanol foam frac Acidized 1000 gal 15% NEFE 20,000 gal methanol foam frac	
33. PRODUCTION					
Date First Production 5-15-86		Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping			Well Status (Prod. or Shut-in) Producing
Hours of Test 5-17-86		Choke Size 24		Prod'n. For Test Period 35	
Flow Tubing Press.		Casing Pressure		Calculated 24 Hour Rate	
34. Disposition of Gas (Sold, used for fuel, vented, etc.) Vented				Test Witnessed By	
35. List of Attachments Logs & Deviation Survey					
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 Ray Westall		TITLE Operator		DATE 9-8-86	

CITIES SERVICE OIL
MERLAND "A" #2
1980 FSL # 660 FWL
SEC 19 - T22S-R27E

- 500 SXS CMT
CIRCULATED TO SURFACE

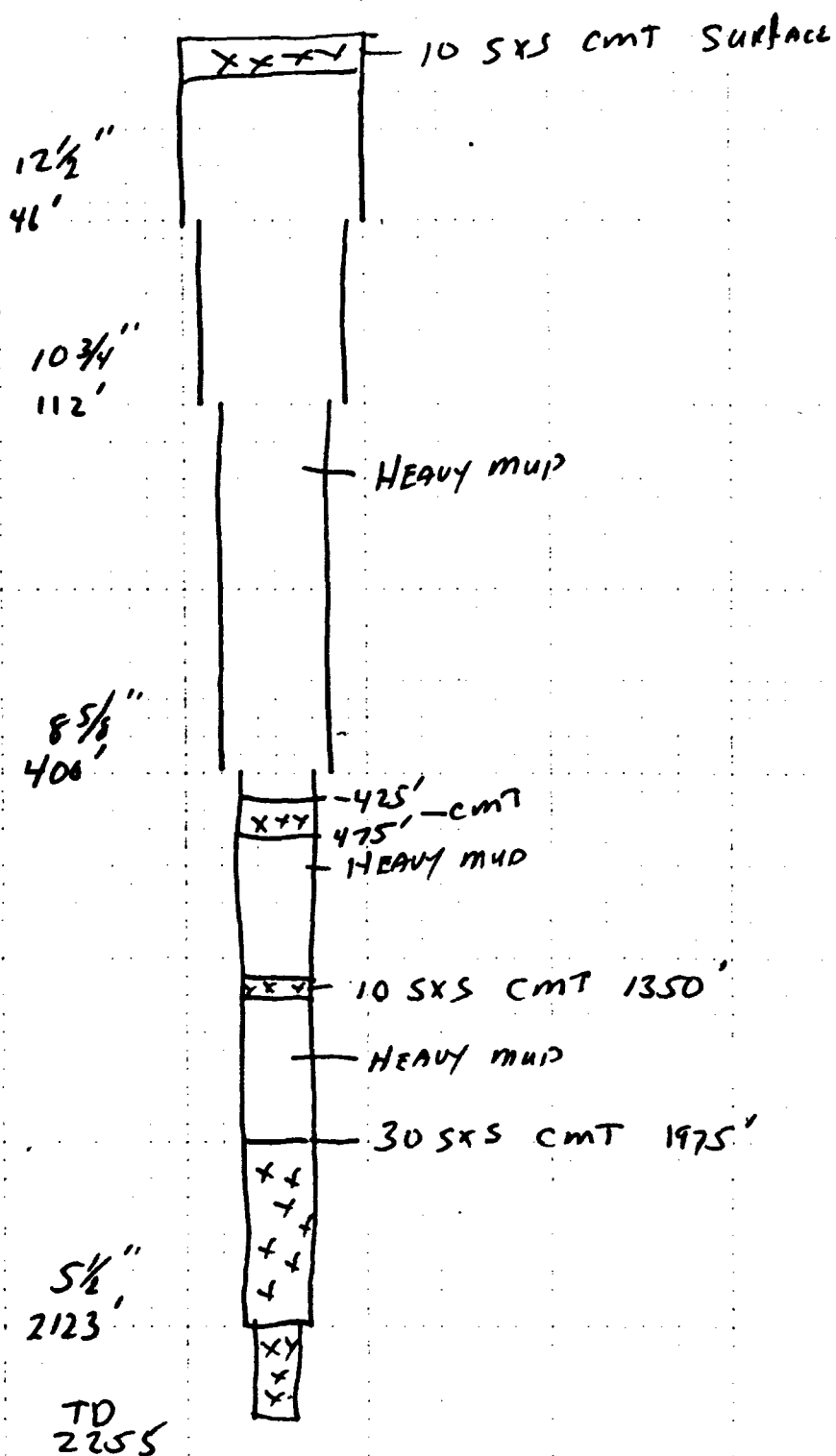
- 900 SXS CMT
CIRCULATED TO SURFACE

SPUD 9-16-85
TD 4554
TYPE OIL WELL
FORMATION CHERRY CANYON
COMP 2769-2781

8 1/2"
577-

5 1/2" - 4553

NEW MEXICO OIL CONSERVATION COMMISSION WELL COMPLETION OR RECOMPLETION REPORT AND LOG										Form O-105 Revised 10-84	
SANTA FE FILE U.S.G.S. LAND OFFICE OPERATOR NOV 26 1985 O.C.D. ARIESIA OFFICE 5a. Indicate Type of Lease State ☐ Fee ☒										5. State and Loc. Lease No. 	
6. TYPE OF WELL Oil Well ☒ Gas Well ☐ Dry ☐ Other ☐										7. Unit Agreement Name 	
8. TYPE OF COMPLETION New Well ☒ Re-completion ☐ Drilled ☐ PLIC ☐ Diff. Resv. ☐ Other ☐										8. Name of Lease Name Merland A	
Name of Operator Cities Service Oil and Gas Corporation										9. Well No. 2	
Address of Operator P.O. Box 1919 - Midland, Texas 79702										10. Field and Loc., or Wildcat Unders. Carlsbad-Delaware	
Location of Well 										11. County Eddy	
12. LETTER L LOCATED 1980 FEET FROM THE South LINE AND 660 FEET FROM											
13. West LINE OF SEC. 19 TWP. 22S RGE. 27E											
5. Date Spudded 9-16-85		16. Date T.D. Reached 9-24-85		17. Date Ready to Prod. 11-21-85		18. Elevations (DF, RKB, RT, GR, etc.) 3165' GR		19. Elev. Casing Head 3165'			
20. Total Depth 4554'		21. Flow Rate (GPM) 3085'		22. If Multiple Compl., How Many 		23. Intervals Drilled By D - T.D. 4554'		24. Cable Tools 			
4. Producing Interval(s), of this completion - Top, Bottom, Name 2769 - 2781' - Delaware								25. Was Directional Survey Made No			
6. Type Electric and Other Logging CNL-LDT-GR, DLL-MSFL-Cal., Deviation Survey, Dual Porosity Neutron								27. Was Well Cored No			
8. CASING RECORD (Report all strings set in well)											
CASING SIZE 8-5/8" 5-1/2"		WEIGHT LB./ FT. 24# 14#		DEPTH SET 597' 4553'		HOLE SIZE 12-1/4" 7-7/8"		CEMENTING RECORD 500 sacks 900 sacks		AMOUNT PULLED Circulated Circulated	
9. LINER RECORD										30. TUBING RECORD	
SIZE 		TOP 		BOTTOM 		SACKS CEMENT 		SCREEN 		SIZE 2-3/8"	
										DEPTH SET 2796'	
										PACKER SET ---	
1. Perforation Record (Interval, size and number) 4 SPF @ 2769, 71, 72, 74, 76, 77, 80 and 2781' Total of 32 holes (0.50" dia & 12.27" pen)						32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
						DEPTH INTERVAL 2769 - 2781'		AMOUNT AND KIND MATERIAL USED 2000 gals MSR-100 acid + 17,500 gals YF3 PSD (crosslinked Polymer) + 48,000# 12/20 sand			
PRODUCTION											
1st Production 10-09-85		Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping - 2" x 1-1/2" x 16' - Insert						Well Status (Prod. or Shut-in) Producing			
Date of Test 11-21-85		Hours Tested 24 hrs.		Choke Size 		Flow Rate (GPM) 		Oil - Bbl. 65		Gas - MCF 24	
								Water - Bbl. 354		Gas - Oil Ratio 369	
Flow Tubing Press.		Casing Pressure		Artificial Lift (If any)		Oil - Bbl.		Gas - MCF		Water - Bbl.	
										Oil Gravity - API (Core.) 42.5°	
Disposition of Gas (Sold, used for fuel, vented, etc.) Vented								Test Witnessed By J. Gibson			
List of Attachments Above listed logs and Deviation Survey											
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 <i>[Signature]</i>						TITLE Region Petroleum Engineer			DATE 11-25-85		



JENKINS & McQUEEN
YARBRO #1
990 FNL, 1650 FEL
SECTION 25-T225-R26E

SPUD 9-17-52
TD 2255
FORMATION CHERRY CANYON
P&A 1952

NEW MEXICO OIL CONSERVATION COMMISSION

NOV 8 1952

MISCELLANEOUS REPORTS ON WELLS

OIL CONSERVATION

Submit this report in triplicate to the Oil Conservation Commission District Office within ten days after the work specified is completed. It should be signed and filed as a report on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL	X		

November 5, 1952, Oklahoma City, Oklahoma

Date

Place

Following is a report on the work done and the results obtained under the heading noted above at the

Jenkins & McQueen

Yarbro

Well No. 1

In the

SE NW NE

Company or Operator

25

of Sec.

Lease

228

R.

26E

N. M. P. M.

Wildcat

Pool

Eddy

County.

The dates of this work were as follows:

10/29/52 - 10/31/52

Notice of intention to do the work was (was not) submitted on Form C-102 on

19

and approval of the proposed plan was (was not) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Hole plugged back to 1375' with 30 sac by Denton Oil Well Cementing Co. Hole filled to 1350' w/ heavy mud and 10 sac cement set by Denton Oil Well Cementing Co. Mudded to 475' and cemented from 475' to 425'. Mudded to top and cased w/ 10 sac and marker set

Witnessed by Shenn Yeater

Name

Jenkins & McQueen

Company

Driller

Title

APPROVED:

OIL CONSERVATION COMMISSION

Name

Title

OIL AND GAS

NOV 11 1952

Date

I hereby swear or affirm that the information given above is true and correct.

Name

Position

Representing

Address

Office Manager

Jenkins & McQueen

Company or Operator

Oklahoma City, Oklahoma

[illegible]

5100 510 ACRES
LOCATED WELL CORRECTLY

Yarbro

1. Introduction

..... **Wildeat** Pool, **Eddy** County.

of Section **25** If State Land the Oil and Gas Lease No. is.....

Name of Drilling Contractor..... **Jenkins & MoQueen**

Address..... 1009 Coleord Building, Oklahoma City, Oklahoma

OIL SANDS OR ZONES

No. 3, from **to** **No. 6, from** **to**

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

No. 4, from _____ **to** _____ **feet.**

SIZE	WEIGHT PER FOOT	NEW OR USED	AMOUNT	KIND OF SHOE	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
12-1/2"	50	used	46		46		Drilling string
10-3/4"	40	"	112		112		" "
8-5/8"	28	"	400		400		" "
5-1/2"	14	"	2123		2123		" "

SIZE OF HOLE	SIZE OF CASING	WHERE SET	TYPE OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED

(Record of Excesses used, No. of Qts. or Gals. used, interest treated or due.)

SECTION VII

- (1) Proposed injection rates:
 - (a) average daily injection rate: 400 Barrels per day
 - (b) maximum daily injection rate: 1000 Barrels per day
- (2) Proposed system will be closed
- (3) Proposed injection pressure:
 - (a) average injection pressure; unknown
 - (b) maximum injection pressure: 650#
- (4) Type of injection fluid from wells is produced salt water
- (5) Analysis of disposal formation water if not produced within one mile: Water Analysis attached.



DOWELL DIVISION OF DOW CHEMICAL U S A

An Operating Unit of The Dow Chemical Company

LABORATORY LOCATION

API WATER ANALYSIS REPORT FORM

DATE

LAB NO

Company <u>Westall</u>		Sample No. <u>1</u>		Date Sampled <u>5-19-67</u>	
Field <u>S. Carlsbad Pelicans</u>		Legal Description <u>UNIT I</u>		County or Parish <u>Kelly</u>	
State <u>NM</u>		Depth <u>3152</u>		Formation <u>CHERRY CAN</u>	
Lease or Unit <u>Base Ball Park</u>		Well <u>H1</u>		Water, B/D	
Type of Water (Produced, Supply, etc.) <u>Produced</u>		Sampling Point <u>Well Head</u>		Sampled By <u>GMB</u>	

DISSOLVED SOLIDS

CATIONS

	mg/L	me/L
Sodium, Na (calc.)	<u>62.344</u>	<u>27.2</u>
Calcium, Ca	<u>5000</u>	<u>250</u>
Magnesium, Mg	<u>3042</u>	<u>250</u>
Barium, Ba		

ANIONS

Chloride, Cl	<u>113600</u>	<u>320.3</u>
Sulfate, SO ₄	<u>300</u>	<u>6</u>
Carbonate, CO ₃		
Bicarbonate, HCO ₃	<u>152</u>	<u>3</u>

Total Dissolved Solids (calc.)

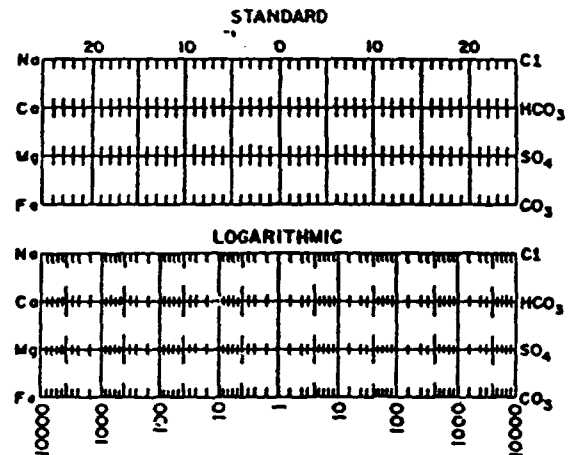
Iron, Fe (total) +10

Sulfide, as H₂S

OTHER PROPERTIES

pH	<u>(alkaline)</u>	<u>8 1/2</u>
Specific Gravity, 60/60 F.		<u>1.125</u>
Resistivity (ohm-meters) _____ F.		

WATER PATTERNS — me/L



REMARKS & RECOMMENDATIONS:



DOWELL DIVISION OF DOW CHEMICAL U.S.A.

An Operating Unit of The Dow Chemical Company

LABORATORY LOCATION

API WATER ANALYSIS REPORT FORM

DATE

LAB NO.

Company <u>RAY WESTALL</u>		Sample No.		Date Sampled <u>5-19-57</u>	
Field <u>S. Carlsbad Aquifer</u>		Legal Description <u>UNIT 0 SEE 24-225-26E</u>		County or Parish <u>Eddy</u> State <u>NM</u>	
Lease or Unit <u>MEERLAND</u>		Well <u>#1</u>		Depth <u>4322</u> Formation <u>Brushy Canyon</u> Water, B/D	
Type of Water (Produced, Supply, etc.) <u>PRODUCED</u>		Sampling Point <u>WELL HEAD</u>		Sampled By <u>GG</u>	

DISSOLVED SOLIDS

CATIONS

	mg/L	me/L
Sodium, Na (calc.)	<u>56,712</u>	<u>2467</u>
Calcium, Ca	<u>1800</u>	<u>898</u>
Magnesium, Mg	<u>5426</u>	<u>450</u>
Barium, Ba		

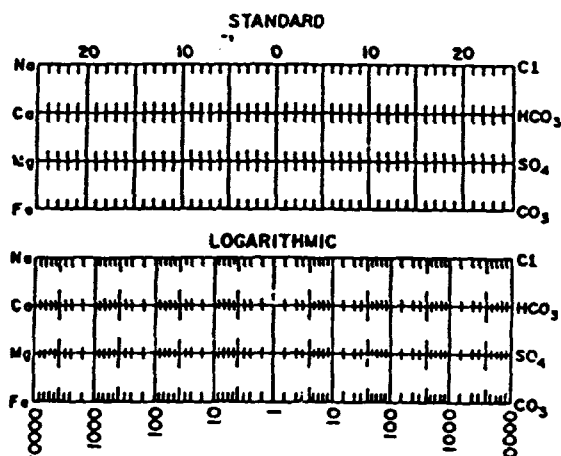
OTHER PROPERTIES

pH	<u>8</u>
Specific Gravity, 60/60 F.	<u>1.140</u>
Resistivity (ohm-meters) _____ F.	

ANIONS

Chloride, Cl	<u>134900</u>	<u>3804</u>
Sulfate, SO ₄	<u>300</u>	<u>6</u>
Carbonate, CO ₃		
Bicarbonate, HCO ₃	<u>305</u>	<u>5</u>

WATER PATTERNS — me/L



Total Dissolved Solids (calc.)

Iron, Fe (total)

Sulfide, as H₂S

REMARKS & RECOMMENDATIONS:



DOWELL DIVISION OF DOW CHEMICAL U.S.A.

An Operating Unit of The Dow Chemical Company

LABORATORY LOCATION

API WATER ANALYSIS REPORT FORM

DATE

LAB NO.

Company <u>Ray WETALL</u>		Sample No.		Date Sampled <u>5-17-67</u>	
Field <u>S-Carlsbad Roberson</u>		Legal Description <u>Unit K Sec 24-225-26E</u>		County or Parish <u>Ford</u>	
Lease or Unit <u>Baseball Park</u>		Well <u>#3</u>		Depth <u>4444</u>	
Type of Water (Produced, Supply, etc.) <u>Produced</u>		Formation <u>Bushy Cr</u>		Water, B/D	
Sampling Point <u>Well Head</u>		Sampled By <u>GG</u>			

DISSOLVED SOLIDS

CATIONS	mg/L	me/L
Sodium, Na (calc.)	<u>64.735</u>	<u>2816</u>
Calcium, Ca	<u>24.000</u>	<u>1198</u>
Magnesium, Mg	<u>8519</u>	<u>760</u>
Barium, Ba		

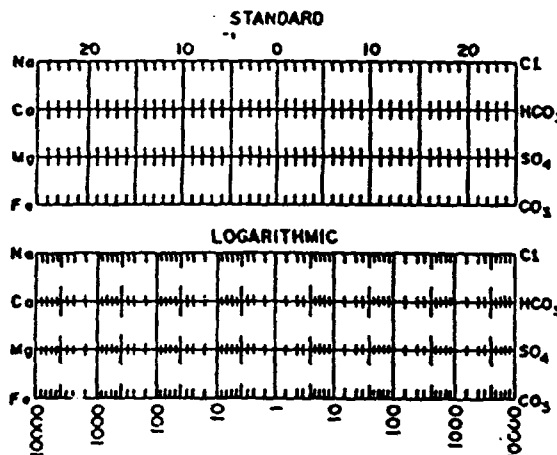
OTHER PROPERTIES

pH (<u>slightly alkaline</u>)	<u>6.5</u>
Specific Gravity, 60/60 F.	<u>1.160</u>
Resistivity (ohm-meters) — F.	

ANIONS

Chloride, Cl	<u>116.840</u>	<u>4.205</u>
Sulfate, SO ₄	<u>200</u>	<u>4</u>
Carbonate, CO ₃		
Bicarbonate, HCO ₃	<u>305</u>	<u>5</u>

WATER PATTERNS — me/L



Total Dissolved Solids (calc.)

Iron, Fe (total)

Sulfide, as H₂S

REMARKS & RECOMMENDATIONS:

SECTION VIII

Geological Data

- (1) Geological names of injection zones:

Cherry Canyon Formation

- (2) Lithological detail of injection zones:

Top of Delaware is at 2,330'

Top of Cherry Canyon is at 2,800'

Base of Cherry Canyon/top of Brushy Canyon is at 3,795'

The Delaware group consists of medium grained sandstones, varying in porosity, with impermeable shale and sandstone between zones

- (3) Thickness of injection zone: 54'

- a. average thickness: 80'
b. range of thickness: 40' - 120'

- (4) Fresh water zones:

- a. fresh water occurs from 0' - 200' *quaternary water*
b. no known fresh water below perforations

*these characteristics are
wide spread*



DOWELL DIVISION OF DOW CHEMICAL U.S.A.

An Operating Unit of The Dow Chemical Company

LABORATORY LOCATION

API WATER ANALYSIS REPORT FORM

DATE

LAB NO.

Company <i>Ray Water</i>		Sample No.		Date Sampled <i>5-15-87</i>	
Field <i>S. Carlsbad Delaware</i>		Legal Description <i>P-24-22S-26E</i>		County or Parish <i>Eddy</i>	
Lease or Unit <i>Base Ball Park</i>		Well <i>#2</i>		Depth <i>4230</i>	
Type of Water (Produced, Supply, etc.) <i>Produced</i>		Formation <i>Brushy Can.</i>		Water, H/D	
Sampling Point <i>WELL HEAD</i>		Sampled By <i>G.A.</i>			

DISSOLVED SOLIDS

CATIONS

	mg/L	me/L
Sodium, Na (calc.)	<i>29034</i>	<i>3438</i>
Calcium, Ca	<i>21000</i>	<i>1048</i>
Magnesium, Mg	<i>13995</i>	<i>1150</i>
Barium, Ba		

OTHER PROPERTIES

pH *(acidic)*

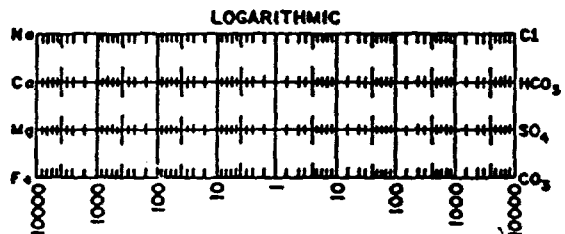
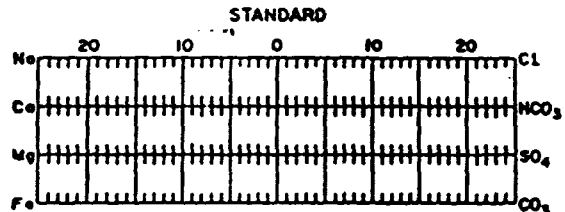
Specific Gravity, 60/60 F.

Resistivity (ohm-meters) _____ F.

ANIONS

Chloride, Cl	<i>198500</i>	<i>5606</i>
Sulfate, SO ₄	<i>250</i>	<i>5</i>
Carbonate, CO ₃		
Bicarbonate, HCO ₃	<i>1525</i>	<i>25</i>

WATER PATTERNS — me/L



Total Dissolved Solids (calc.)

Iron, Fe (total)

Sulfide, as H₂S

REMARKS & RECOMMENDATIONS:

SECTION IX

Proposed Stimulation Program

Perforate with 2 shots per foot 3670' - 3720' Acid
with 2500 gallon 15% HCL

SECTION X:

Well Log

Logs submitted at NMOCD Artesia office

SECTION XI:

Fresh Water Analysis

WALLING HEIGHTS

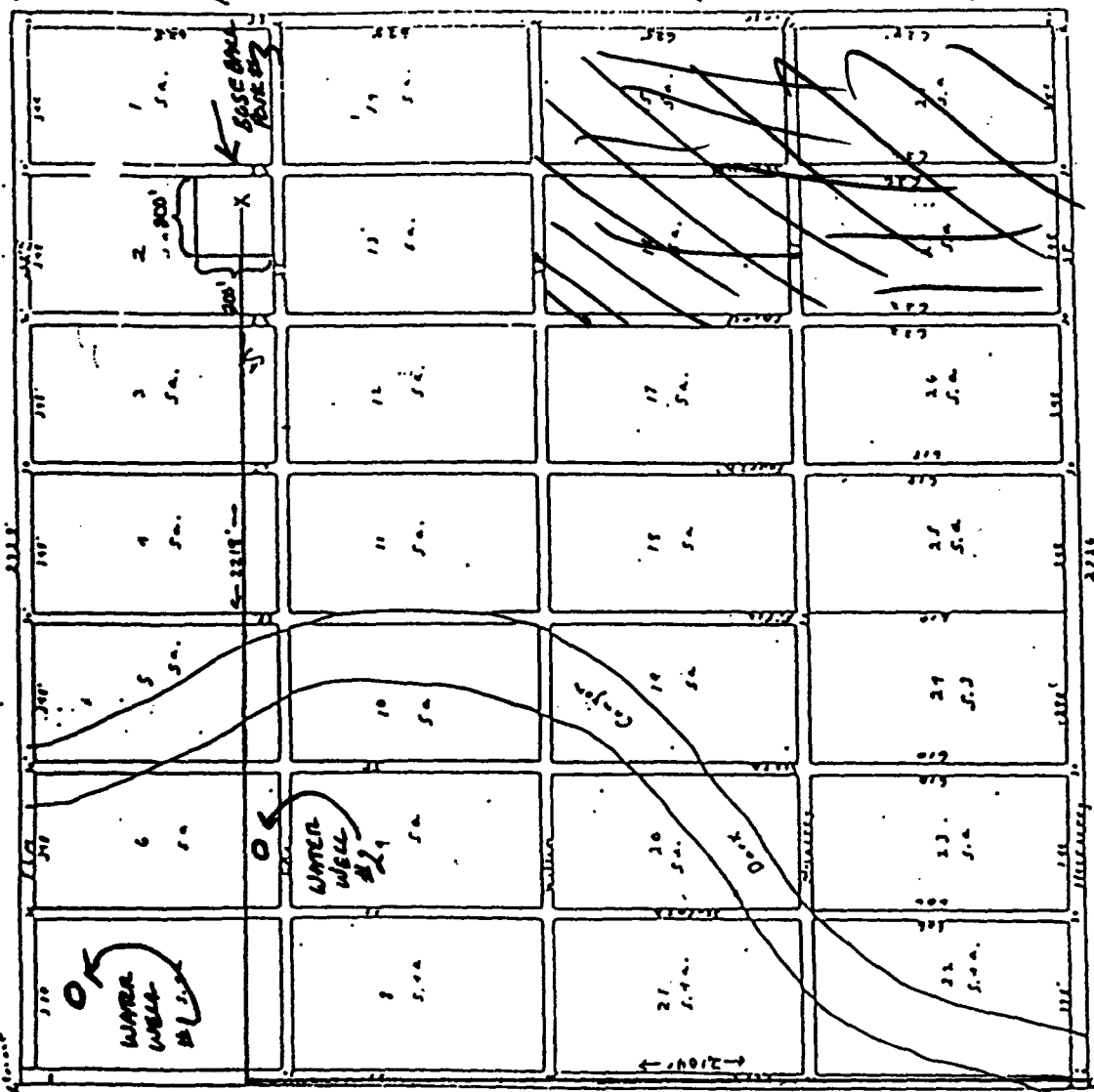
A Subdivision of

SW 1/4 of Sec. 24 T. 25

R. 25, 26 E. N. 47 P.

*Barthell
Parker*

For Assessment
Purposes Only



23	24
26	25



DOWELL DIVISION OF DOW CHEMICAL U.S.A.

An Operating Unit of The Dow Chemical Company

LABORATORY LOCATION

API WATER ANALYSIS REPORT FORM

DATE

LAB NO.

Company <i>Ray West Pll</i>		Sample No. <i>1</i>		Date Sampled <i>5-19-57</i>	
Field <i>DOMESTIC WATER WELL</i>		Legal Description		County or Parish <i>Eddy</i>	
Lease or Unit <i>LONG PAINS WATER WELL</i>		Well		State <i>NM</i>	
Type of Water (Produced, Supply, etc.)		Depth <i>62'</i>		Formation	
Sampling Point <i>WINDMILL</i>		Water, B/D		Sampled By <i>GG</i>	

DISSOLVED SOLIDS

CATIONS

	mg/L	me/L
Sodium, Na (calc.)	<i>2</i>	<i>0</i>
Calcium, Ca	<i>1000</i>	<i>50</i>
Magnesium, Mg	<i>3042</i>	<i>250</i>
Barium, Ba		

ANIONS

Chloride, Cl	<i>3550</i>	<i>100</i>
Sulfate, SO ₄	<i>200</i>	<i>4</i>
Carbonate, CO ₃		
Bicarbonate, HCO ₃	<i>-79</i>	<i>1.3</i>

Total Dissolved Solids (calc.)

Iron, Fe (total)

Sulfide, as H₂S

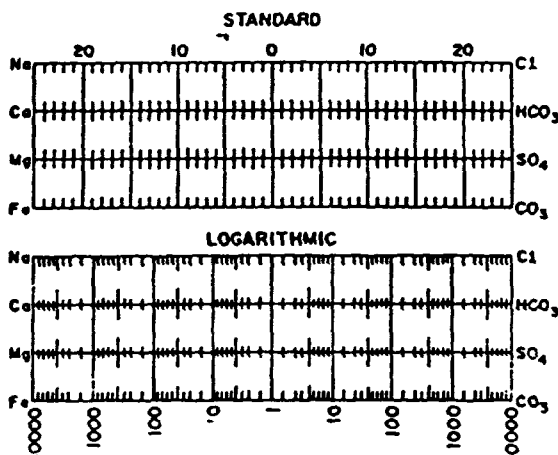
OTHER PROPERTIES

pH

Specific Gravity, 60/60 F.

Resistivity (ohm-meters) F.

WATER PATTERNS — me/L



REMARKS & RECOMMENDATIONS:



DOWELL DIVISION OF DOW CHEMICAL U.S.A.

An Operating Unit of The Dow Chemical Company

LABORATORY LOCATION

API WATER ANALYSIS REPORT FORM

DATE

LAB NO.

Company <u>RAY W. CETA II</u>		Sample No. <u>2</u>		Date Sampled <u>5-19-57</u>	
Field <u>DOMESTIC WATER Well</u>		Legal Description		County or Parish <u>Edwards</u>	
Lease or Unit <u>1/4 Sec. 105, West of Baseline 104.3</u>		Well <u>105</u>		State <u>TX</u>	
Type of Water (Produced, Supply, etc.)		Sampling Point <u>WINDMILL</u>		Sampled By <u>G. G.</u>	

DISSOLVED SOLIDS

CATIONS

	mg/L	me/L
Sodium, Na (calc.)	<u>0</u>	<u>0</u>
Calcium, Ca	<u>1000</u>	<u>50</u>
Magnesium, Mg	<u>1825</u>	<u>150</u>
Barium, Ba		

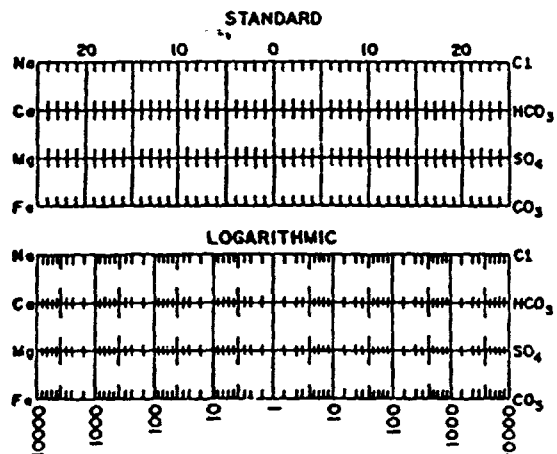
OTHER PROPERTIES

pH	<u>6 1/2</u>
Specific Gravity, 60/60 F.	<u>1.000</u>
Resistivity (ohm-meters) _____ F.	

ANIONS

Chloride, Cl	<u>3550</u>	<u>100</u>
Sulfate, SO ₄	<u>200</u>	<u>4</u>
Carbonate, CO ₃		
Bicarbonate, HCO ₃	<u>-79</u>	<u>1.3</u>

WATER PATTERNS — me/L



Total Dissolved Solids (calc.)

Iron, Fe (total)

Sulfide, as H₂S

REMARKS & RECOMMENDATIONS:

SECTION XII

Affirmative Statement:

- A. The available geologic and engineering data have been examined, and no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

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: Ray Westall Title: Operator

Signature: Ray Westall Date: 6/25/87

PROOF OF NOTICE

A copy pf this application was sent to the following operators within $\frac{1}{2}$ mile of the proposed injection well

PENNZOIL COMPANY
P.O. Drawer 1828
Midland, TX 79701

GRACE ENERGY CO.
P.O. Box 207
Carlsbad, N.M. 88220

CORINNE GRACE
P.O. Box 1418
Carlsbad, N.M. 88220

ARCO
P.O. Box 1610
Midland, TX 79702

JFG
Box 100
Artesia, N.M. 88210

CITIES SERVICE
P.O. Box 1919
Midland, TX 79702

SURFACE OWNER
Mary F. Merchant
P.O. Box 548
Carlsbad, N.M. 88220