

DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]**
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
 [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD
- Check One Only for [B] or [C]
 [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR
- [D] Other: Specify _____
- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply
 [A] Working, Royalty or Overriding Royalty Interest Owners
 [B] Offset Operators, Leaseholders or Surface Owner
 [C] Application is One Which Requires Published Legal Notice
 [D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
 [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
 [F] Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Scott Curtis
 Print or Type Name

[Signature]
 Signature

Operations Manager
 Title

2-17-03
 Date

JSC Rice Swd@lccco.net
 e-mail Address

pKRV0302840048

SWD

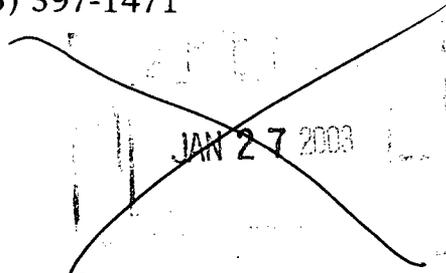
4/6/03

RICE Operating Company

122 West Taylor • Hobbs, New Mexico 88240
Phone: (505) 393-9174 • Fax: (505) 397-1471

WVS

Resubmittal



January 17, 2003

MAR 21 2003

Mr. David Catanach
New Mexico Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

RE: Approval to Inject into Perforations @ 4230' - 4320'
Blinbry-Drinkard SWD Unit C Sec. 2 Township 22S Range 37E

Dear Mr. Catanach:

Rice Operating Company (ROC) is submitting an application for authorization to dispose of produced water into perforations @ 4230' - 4320' in the above referenced well to the New Mexico Oil Conservation Division (OCD). Currently the perforations are isolated with a packer set at 4362' with the disposal interval being the open hole section from 4400' - 4950', as ordered by OCD Order No. R-4495.

In order to perform an OCD requested mechanical integrity test (MIT) on the casing annulus, ROC is seeking permission to raise the packer approximately 150' to 4212'. This would place the packer above the top set of perforations and enable a MIT to be performed.

This SWD well is currently serving the disposal needs of approximately 450 producing wells, averaging 9000 barrels of water disposed per day.

ROC is sending this application to the surrounding operators listed:
Marathon Inc., J.H.Hendrix Corp., ExxonMobil Inc., Oxy Permain, as well as the New Mexico State Land Office.

If you have any questions or comments please do not hesitate to call me at the numbers listed above.

Yours truly,

Scott Curtis
Operations Manager

Cc Chris Williams /OCD

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance X Disposal _____ Storage
Application qualifies for administrative approval? _____ Yes _____ No

II. OPERATOR: Rice Operating Company

ADDRESS: 122 W Taylor Hobbs, NM 88240

CONTACT PARTY: Scott Curtis PHONE: (505) 393-9174

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? X Yes _____ No
If yes, give the Division order number authorizing the project: R-4495 R 4495 (A-D)

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 geologic data on the injection zone including appropriate lithologic detail, geologic 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 sources 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: Scott Curtis TITLE: Operations Manager

SIGNATURE:  DATE: 1-17-03

* 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 circumstances of the earlier submittal: R-4495 (March 21, 1973 for initial approval of injection below 4400')

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

API Well No: 30-025-24399-00-00 **Permit No**
Company Name: RICE OPERATING CO
Location: Sec: 2 T: 22S R: 37E Spot:
Lat/Long: Lat: 32.42623 Long: -103.13448
Field Name: BLINEBRY DRINKARD
County Name: Lea

Well Name/No BLINEBRY DRINKARD

String Information

String	Bottom (ft sub)	Diameter (inches)	Weight (lb/ft)	Length (ft)
HOL1	300	9.625		
SURF	300	9.625	36	300
HOL2	4400	7		
PROD	4400	7	23	4400



Cement from 300 ft. to surface
 Surface: 9.625 in. @ 300 ft.
 Hole: 9.625 in. @ 300 ft.

Cement Information

String	BOC (ft sub)	TOC (ft sub)	Class	Sacks
PROD	4400	0	C	130
SURF	300	0	C	175

Perforation Information

Formation Information

St Code	Formation	Depth
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Cement from 4400 ft. to surface
 Production: 7 in. @ 4400 ft.
 Hole: 7 in. @ 4400 ft.

TD: **TVD:** 4950 **PBTD:** 0

BLINEBRY-DRINKARD SWD WELL C-2

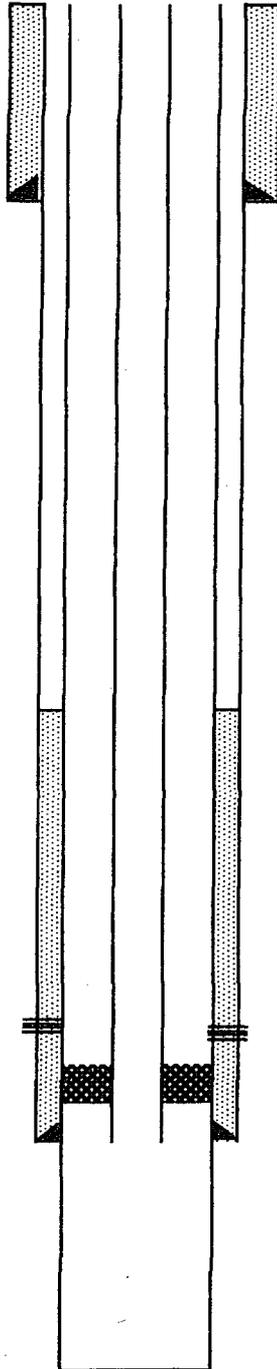
660' FNL & 2305' FWL, Sec 2, T22S, R37E, Lea County, New Mexico

KB ELEV is 3366'

GL ELEV is 3358'

API No. 30-025-24399

SWD Order No. SWD-~~4495~~



12 1/2" Hole

9 5/8" 32# Csg @ 312' w/175 sx CI H

Cmt Circ to Surface

8 3/4" Hole

TOC 2864'

TBG: 5 1/2" (83 jts)14# and (22 jts)15.5# IPC @ 4402'
(includes tailpipe)

Perfs @
4230 to
4320

Brown Type DL Packer @ 4362'
30' 5 1/2" tailpipe

7" 20# Csg @ 4400' w/175 sx CL "C"

TD 4950'

Drawn	BY
#####	CDH

RICE OPERATING COMPANY
122 West Taylor
Hobbs, New Mexico 88240

BD SWD C-2
660' FNL & 2305' FWL
SEC 2, T22S, R37E
Lea County New Mexico

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LAND OFFICE	
OPERATOR	

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

5a. Indicate Type of Lease
State Fee

5. State Oil & Gas Lease No.

7. Unit Agreement Name
Blinebry-Drinkard SW

8. Farm or Lease Name
System

9. Well No.
C-2

10. Field and Pool, or Wildcat

1a. TYPE OF WELL
OIL WELL GAS WELL DRY OTHER Salt Water Disposal

b. TYPE OF COMPLETION
NEW WELL WORK OVER DEEPEN PLUG BACK DIFF. RESVR. OTHER Well

2. Name of Operator
AGUA, INC.

3. Address of Operator
P.O. Box 1978, Hobbs, New Mexico 88240

4. Location of Well

UNIT LETTER C LOCATED 660 FEET FROM THE North LINE AND 2305 FEET FROM

12. County
Lea

15. Date Spudded 4/6/73 16. Date T.D. Reached 4/22/73 17. Date Compl. (Ready to Prod.) 4/28/73

18. Elevations (DF, RKB, RT, GR, etc.) 3366' KB 3358' GL 19. Elev. Casinghead 3343'

20. Total Depth 4950 21. Plug Back T.D. N/A 22. If Multiple Compl., How Many N/A

23. Intervals Drilled By Rotary Tools 0-4950' Cable Tools N/A

24. Producing Interval(s), of this completion - Top, Bottom, Name
San Andres (4400' - 4950')

25. Was Directional Survey Made
Yes

26. Type Electric and Other Logs Run
Gamma Ray - Sidewall Neutron Porosity

27. Was Well Cored
No

THE West LINE OF SEC. 2 TWP. 22S RGE. 37E NMPM

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8"	32	312'	12 1/4"	175 SX Class H w/2% CaCl	None
7"	20	4400'	8 3/4"	175 SX Class C w/2% CaCl	None
Open Hole		4400-4950'	8 3/4"		

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
5 1/2"	4402	4362

31. Perforation Record (Interval, size and number)
4230-4320' w/2 JSPF 181 shots
Currently isolated with packer

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
<u>4400-4950'</u>	<u>5,000 gals. 15% NEFE Acid</u>

33. PRODUCTION

Date First Production _____ Production Method (Flowing, gas lift, pumping - Size and type pump) _____ Well Status (Prod. or Shut-in) _____

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas-Oil Ratio

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)

4. Disposition of Gas (Sold, used for fuel, vented, etc.) _____ Test Witnessed By _____

5. List of Attachments _____

6. 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 W.G. Abbott W.G. Abbott TITLE Manager DATE June 1, 1986

INJECTION WELL DATA SHEET

OPERATOR		LEASE		
Rice Operating		Blinebry-Drinkard SWD System		
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
C-2	2305' FWL, 660' FNL	2	22 S	37E

Schematic

Tabular Data

Surface Casing

Size 9-5/8 " Cemented with 175 ex.
 TOC surface feet determined by circulation
 Hole size 12 1/2 "

Intermediate Casing

Size N/A " Cemented with N/A ex.
 TOC N/A feet determined by N/A
 Hole size N/A

(See attachment)

Long string

Size 7 " Cemented with 175 ex.
 TOC 2864 feet determined by calculation
 Hole size 8-3/4 "
 Total depth 4400'

Injection interval

4400 feet to 4950 feet
 (perforated or open-hole, indicate which)

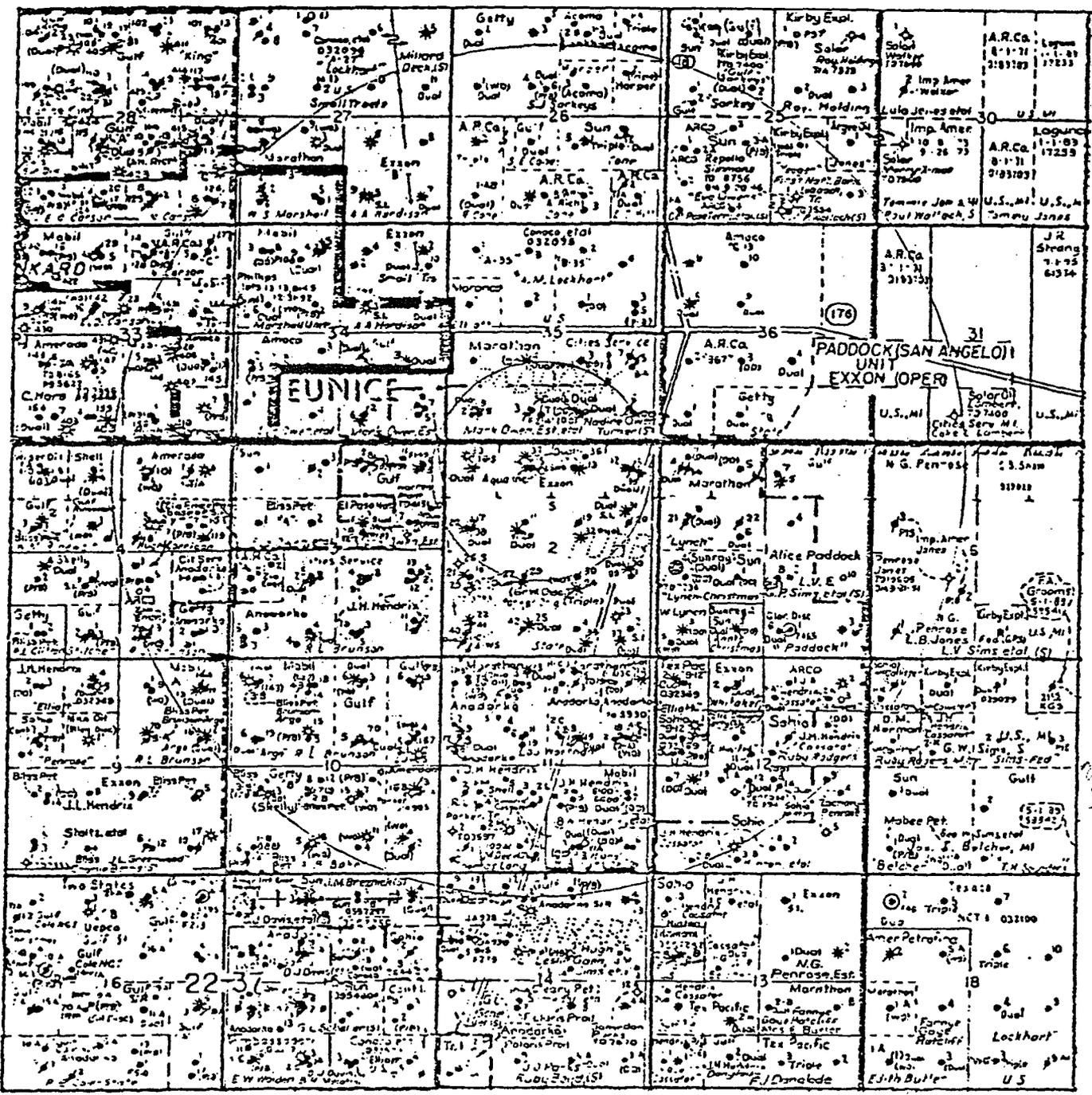
Propose to open perforations @ 4230' - 4320'

Tubing size 5-1/2" lined with TK-69 plastic coated set in a
(material)
brown type NL ** packer at 4362 feet
(brand and model)
 (or describe any other casing-tubing seal).

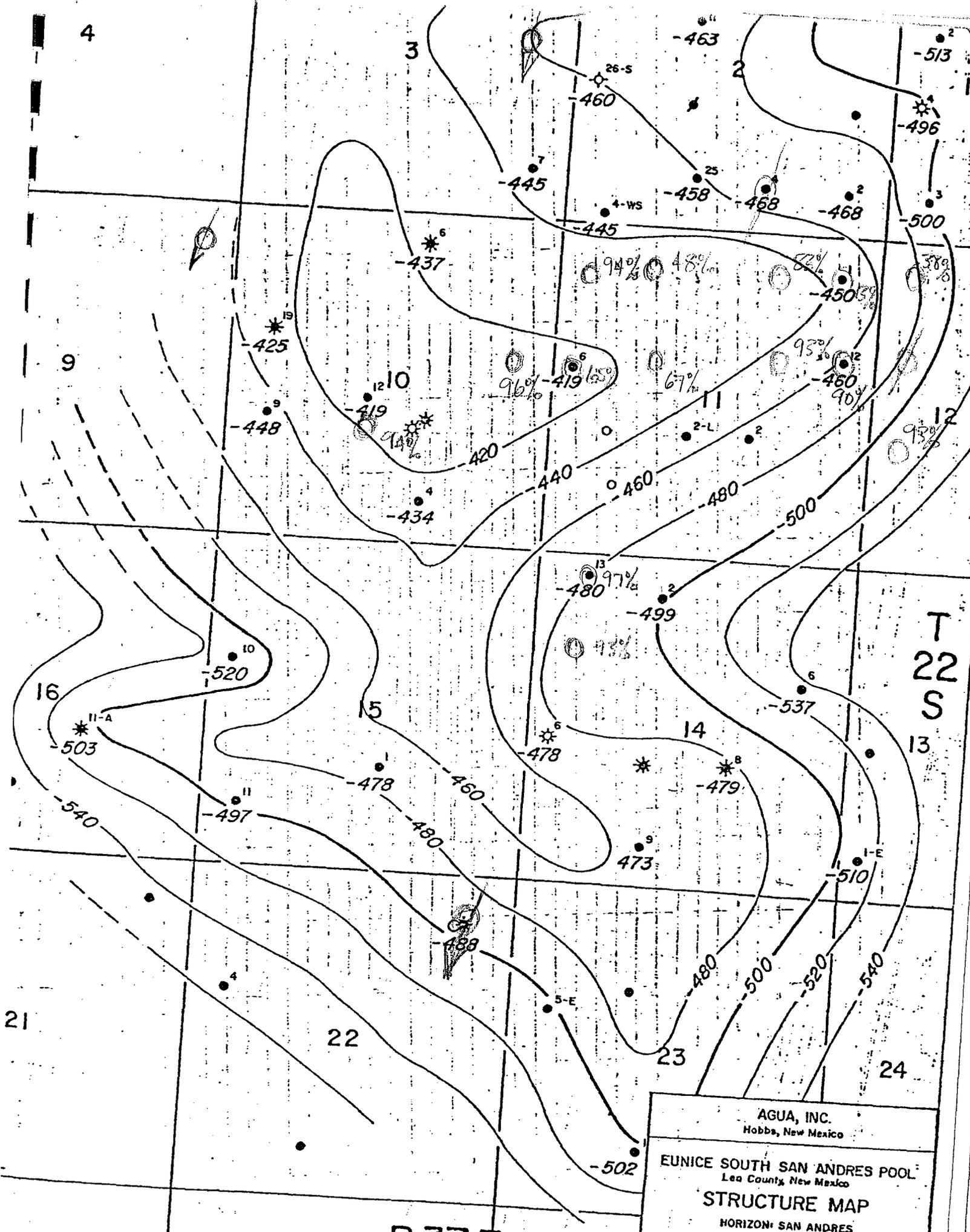
Other Data

- Name of the injection formation San Andres
- Name of field or Pool (if applicable) N/A
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? Salt water disposal
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) Yes, currently perforated @ 4230 - 4320' and isolated from injection using a packer.
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Overlying: None
Underlying: Blinebry, Drinkard, Tubb, Abo, Granite Wash, Paddock

MAP OF AREA



INNER CIRCLE: AREA OF REVIEW
 OUTER CIRCLE: GENERAL AREA



AGUA, INC.
 Hobbs, New Mexico
 EUNICE SOUTH SAN ANDRES POOL
 Lea County, New Mexico
STRUCTURE MAP
 HORIZON: SAN ANDRES

D 27 C

RICE Operating Company

122 West Taylor • Hobbs, New Mexico 88240
Phone: (505)393-9174 • Fax: (505) 397-1471

WELL WITHIN ONE-HALF MILE
RADIUS OF SWD WELL NO. C-2

OPERATOR: EXXON

LEASE: PADDOCK UNIT

WELL NO.: 3

WELL TYPE: OIL P & A

CONSTRUCTION: 13 ³/₈" @ 300' W/250 SX
8 ⁵/₈" @ 2800' W/1500 SX
5 ¹/₂" @5057' W/400 SX

DATE DRILLED: 06/25/47

LOCATION: 660' FSL, 735' FWL
UNIT M, SEC. 35 – T21S-R37E

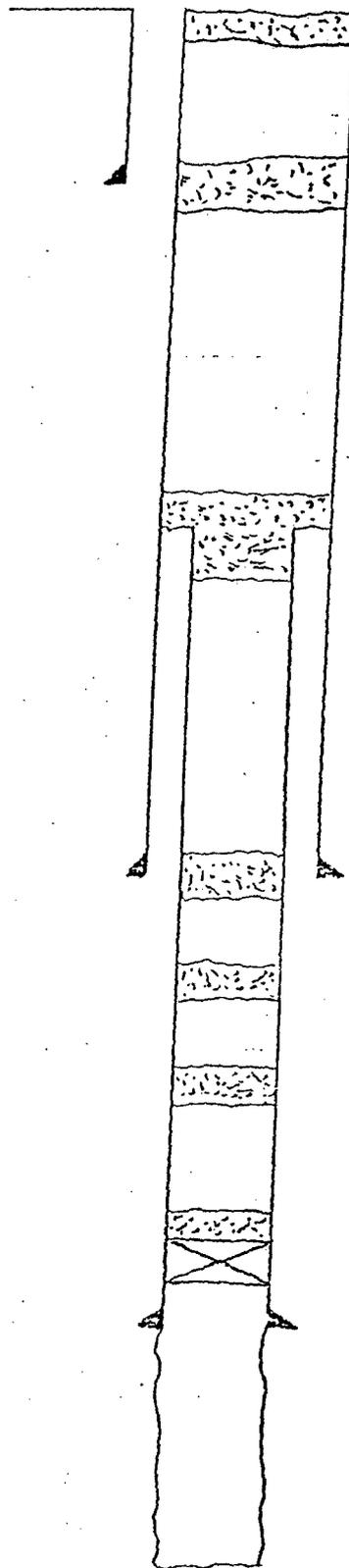
T.D.: 5201'

P.B.T.D.: -----

RECORD OF COMPLETION: PERF (SAN ANGELO) @ 5057' – 5201' (OPEN HOLE)
CIBP @ 4960'

* SEE ATTACHED P & A WELLBORE DIAGRAM

P & A WELLBORE DIAGRAM
EXXON MARK OWEN WELL NO. 3



10 SX SURFACE PLUG

13 3/8" @ 300' W/250 SX
35 SX @ 350'

5 1/2" CUT AND PULLED @ 1120'
70 SX @ 1200' - 900'

8 5/8" @ 2800' W/1500 SX
35 SX @ 2850'

20 SX @ 3300'

20 SX @ 3800'

CIBP @ 4960' W/10 SX ON TOP

5 1/2" @ 5057' W/400 SX

TD 5201'

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WELL WITHIN ONE-HALF MILE
RADIUS OF SWD WELL NO. C-2

OPERATOR: EXXON

LEASE: PADDOCK UNIT

WELL NO.: 4

WELL TYPE: OIL P & A

CONSTRUCTION: 13 ³/₈" @ 310' W/250 SX
8 ⁵/₈" @ 2800' W/1500 SX
5 ¹/₂" @ 5095' W/400 SX

DATE DRILLED: 05/28/47

LOCATION: 711' FSL, 2041' FWL
UNIT N SEC. 35 – T21S-R37E

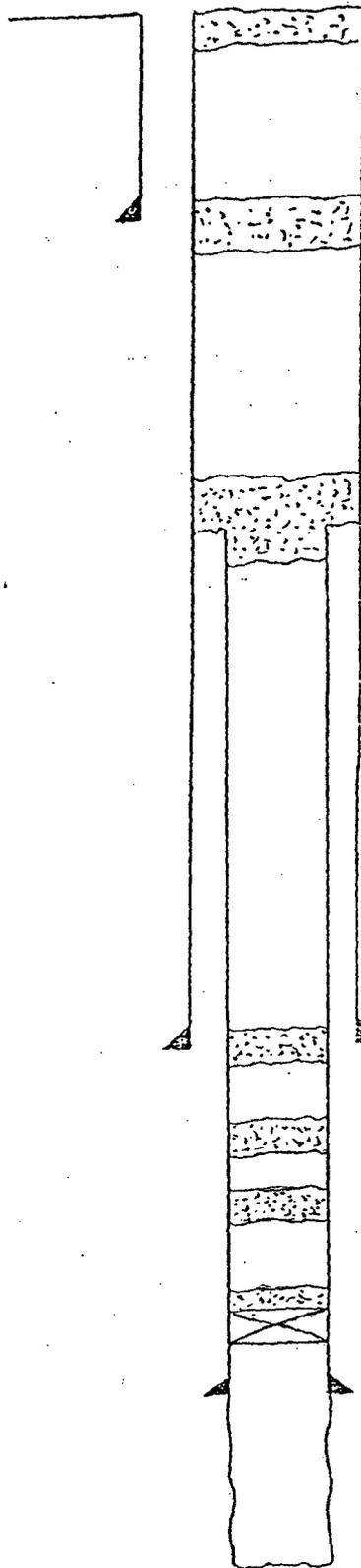
T.D.: 5200'

P.B.T.D.: -----

RECORD OF COMPLETION: PERF (PADDOCK) 5095' – 5140'
CIBP @ 4960'

* SEE ATTACHED P & A WELLBORE DIAGRAM

P & A WELLBORE DIAGRAM
EXXON MARK OWEN WELL NO. 4



10 SX SURFACE PLUG

13 3/8" @ 310' W/250 SX
35 SX @ 350'

5 1/2" CUT AND PULLED @ 1130'
70 SX @ 1200'

8 5/8" @ 2800' W/1500SX
20 SX @ 2850'
20 SX @ 3300'
20 SX @ 3800'

CIBP @ 4960' W/10 SX ON TOP

5 1/2" @ 5095' W/400 SX

TD 5200'

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WELL WITHIN ONE-HALF MILE
RADIUS OF SWD WELL NO. C-2

OPERATOR: EXXON

LEASE: PADDOCK UNIT

WELL NO.: 5

WELL TYPE: WATER INJECTION P & A

CONSTRUCTION: 13 ³/₈" @ 296' W/250 SX
8 ⁵/₈" @ 2814' W/500 SX
5 ¹/₂" @ 5105' W/250 SX

DATE DRILLED: 12/19/46

LOCATION: 710' FSL, 2040' FWL
UNIT O SEC. 35 – T21S-R37E

T.D.: 5195'

P.B.T.D.: 4950'

RECORD OF COMPLETION: PERF (PADDOCK) @ 5105' – 5195'
CIBP @ 4950'

* SEE ATTACHED P & A WELLBORE DIAGRAM

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WELL WITHIN ONE-HALF MILE
RADIUS OF SWD WELL NO. C-2

OPERATOR: EXXON

LEASE: PADDOCK UNIT

WELL NO.: 6

WELL TYPE: OIL P & A

CONSTRUCTION: 13 ³/₈" @ 291' W/300 SX
8 ⁵/₈" @ 2833' W/500 SX
5 ¹/₂" @ 5145' W/200 SX

DATE DRILLED: 02/25/47

LOCATION: 720' FSL, 720' FEL
UNIT P SEC. 35 – T21S-R37E

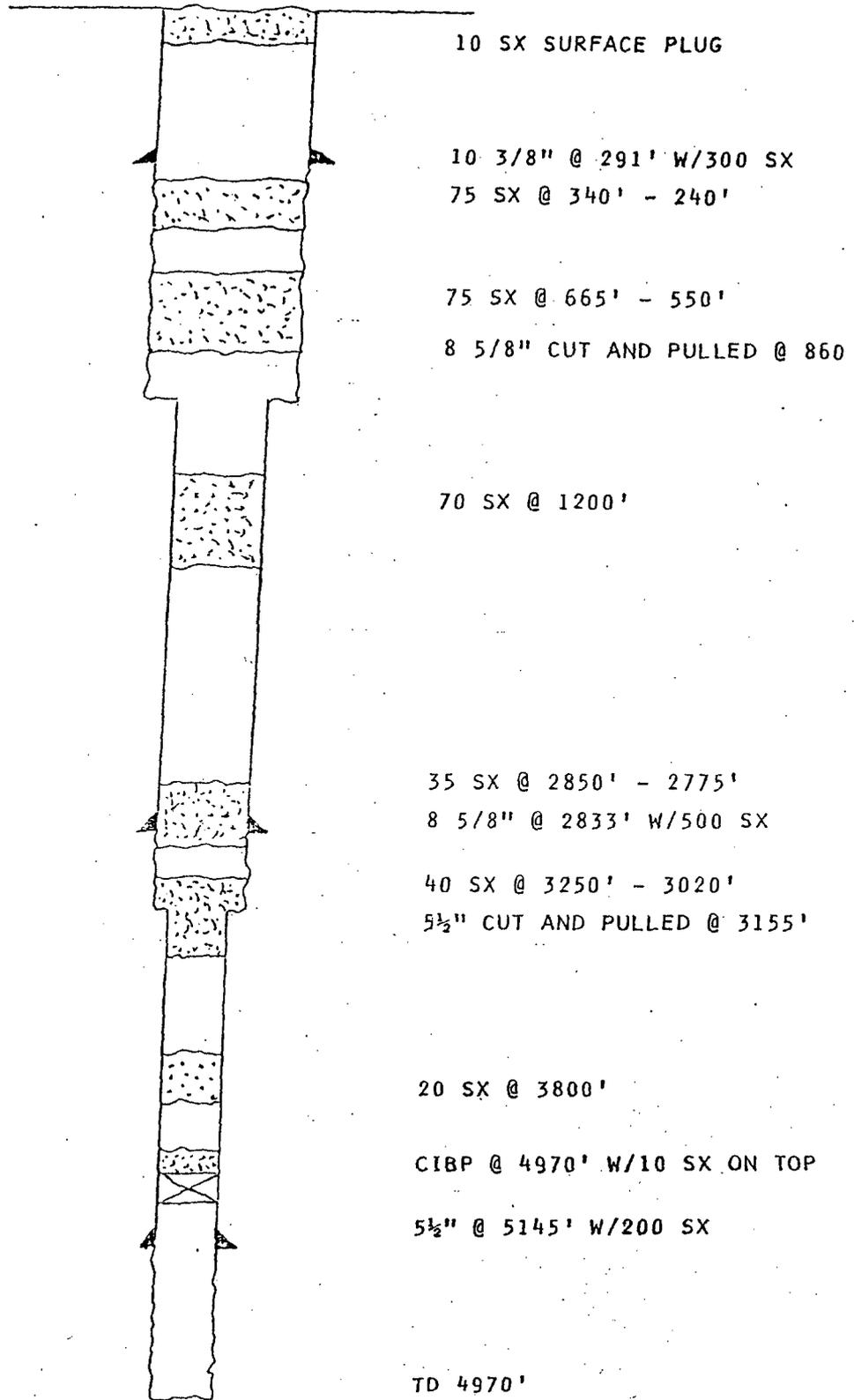
T.D.: 5225'

P.B.T.D.: 4970'

RECORD OF COMPLETION: PERF (PADDOCK) @ 5145 – 5225' (OPEN HOLE)
CIBP @ 4970'

* SEE ATTACHED P & A WELLBORE DIAGRAM

P & A WELLBORE DIAGRAM
EXXON MARK OWEN WELL NO. 6



RICE *Operating Company*

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WELL WITHIN ONE-HALF MILE
RADIUS OF SWD WELL NO. C-2

OPERATOR: EXXON

LEASE: PADDOCK UNIT

WELL NO.: 11

WELL TYPE: OIL P& A

CONSTRUCTION: 9 ⁵/₈" @ 331' W/200 SX
7 ⁵/₈" @ 2581' W/665 SX
5 ¹/₂" @ 5184' W/300 SX

DATE DRILLED: 02/22/47

LOCATION: 660' FNL, 2055' FWL
UNIT C SEC. 2 – T22S-R37E

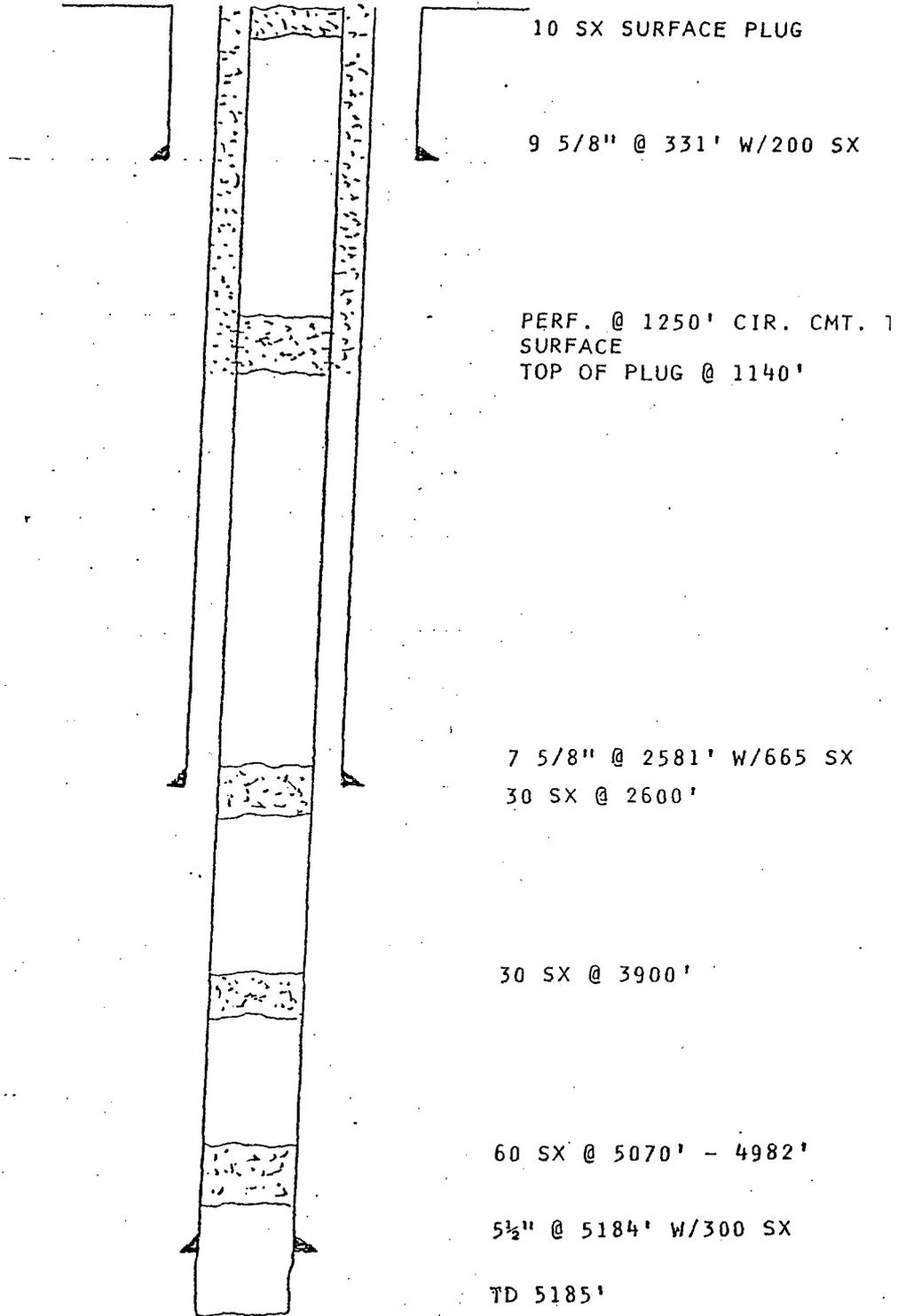
T.D.: 5185'

P.B.T.D.: ----

RECORD OF COMPLETION: PERF (SAN ANGELO) @ 5080' – 5175'

* SEE ATTACHED P & A WELLBORE DIAGRAM

P & A WELLBORE DIAGRAM
EXXON NEW MEXICO "S" STATE WELL NO. 11



RICE Operating Company

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WELL WITHIN ONE-HALF MILE
RADIUS OF SWD WELL NO. C-2

OPERATOR: EXXON

LEASE: NEW MEXICO "S" STATE

WELL NO.: 12

WELL TYPE: GAS

CONSTRUCTION: 10 3/4" @ 340' W/275 SX
7 5/8" @ 2616' W/873 SX
5 1/2" @ 6536' W/525 SX

DATE DRILLED: 10/26/46

LOCATION: 660 FNL, 760 FEL
UNIT A, SEC. 2-T22S-R37E

T.D.: 6540'

P.B.T.D.: 6363'

RECORD OF COMPLETION: PERF (DRINKARD) @ 6329' - 6331'
6346' - 6351'
PERF (BLINEBRY) @ 5650' - 5515' THRU ANNULUS
2 3/8" TBG @ 6200 W/PACKER

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WELL WITHIN ONE-HALF MILE
RADIUS OF SWD WELL NO. C-2

OPERATOR: EXXON

LEASE: NEW MEXICO "S" STATE

WELL NO.: 13

WELL TYPE: GAS

CONSTRUCTION: 10 3/4" @ 340' W/250 SX
7 5/8" @ 2598' W/725 SX
5 1/2" @ 6554' W/455 SX

DATE DRILLED: 11/30/46

LOCATION: 660' FNL, 1980' FEL
UNIT B, SEC. 2-T22S-R37E

T.D.: 6555'

P.B.T.D.: 6535'

RECORD OF COMPLETION: PERFS (DRINKARD) @ 6280' - 6430'
6437' - 6490'
PERFS (TUBB) @ 5960' - 6160' THRU ANNULUS
2 3/8" TBG @ 6205' W/PACKER

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WELL WITHIN ONE-HALF MILE
RADIUS OF SWD WELL NO. C-2

OPERATOR: EXXON

LEASE: PADDOCK UNIT

WELL NO.: 13

WELL TYPE: WATER INJECTION P & A

CONSTRUCTION: 10 3/4" @ 356' W/ 350 SX
7 5/8" @ 2809' W/ 1325 SX
5 1/2" @ 5204' W/ 350 SX

DATE DRILLED: 04/04/46

LOCATION: 660' FNL, 660' FEL
UNIT A SEC. 2 – T22S-R37E

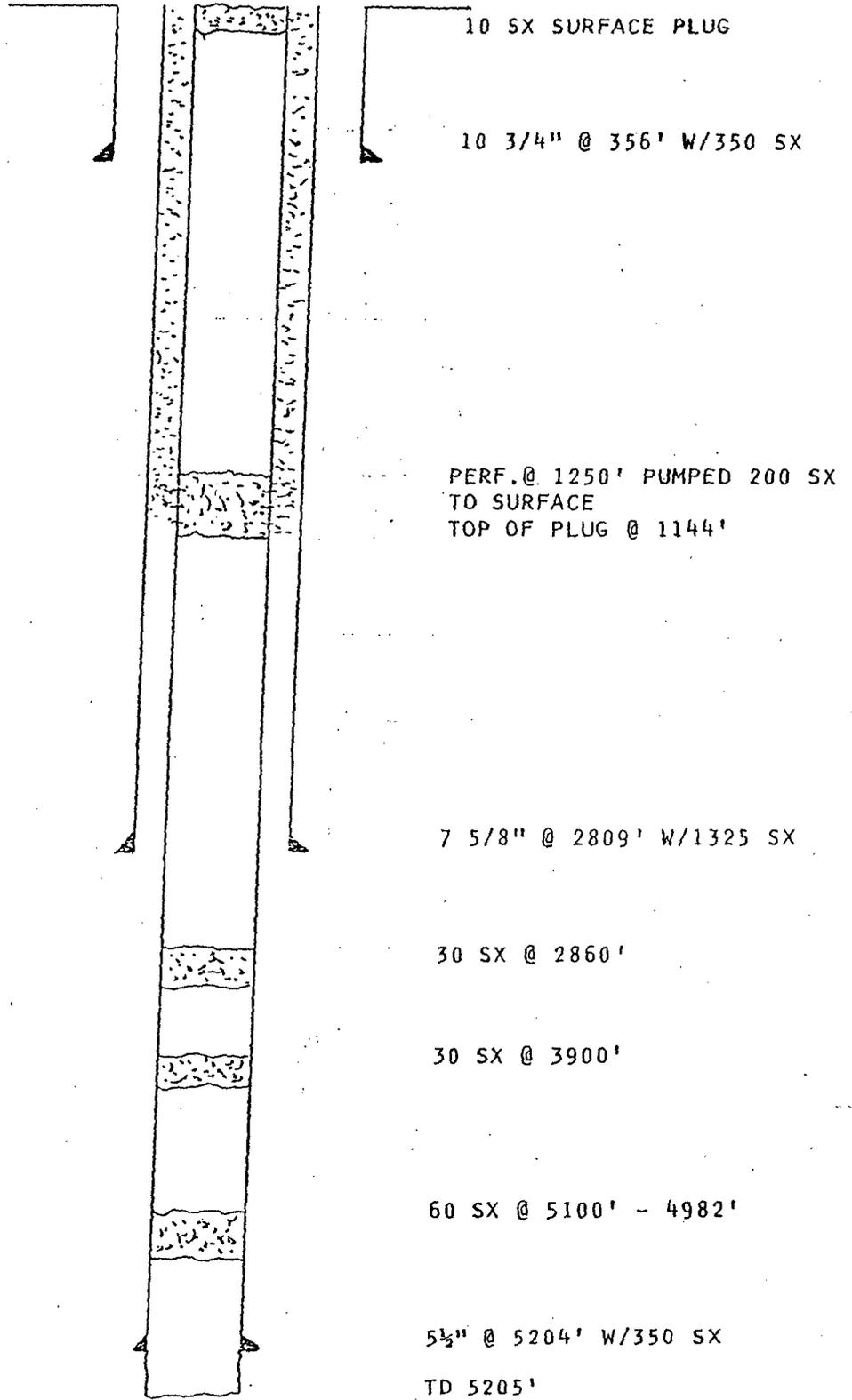
T.D.: 5205'

P.B.T.D.: - - - -

RECORD OF COMPLETION: PERF (SAN ANGELO) @ 5115' – 5200'

* SEE ATTACHED P & A WELLBORE DIAGRAM

P & A WELLBORE DIAGRAM
EXXON NEW MEXICO "S" STATE WELL NO. 13



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RADIUS OF SWD WELL NO. C-2

OPERATOR: EXXON

LEASE: NEW MEXICO "S" STATE

WELL NO.: 14

WELL TYPE: GAS

CONSTRUCTION: 10 3/4" @ 321' W/250 SX
7 5/8" @ 2581' W/760 SX
5 1/2" @ 6429' W/485 SX

DATE DRILLED: 1/14/47

LOCATION: 660' FNL, 1980' FWL
UNIT C, SEC. 2-T22S-R37E

T.D.: 6502'

P.B.T.D.: 6415'

RECORD OF COMPLETION: PERF (DRINKARD) @ 6243' - 6383'
PERF (BLINEBRY) @ 5485' - 5620' THRU ANNULUS
2 3/8" TBG @ 6199' W/PACKER

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WELL WITHIN ONE-HALF MILE
RADIUS OF SWD WELL NO. C-2

OPERATOR: EXXON

LEASE: PADDOCK UNIT

WELL NO.: 20

WELL TYPE: OIL P & A

CONSTRUCTION: 10 ³/₄" @ 354' W/400 SX
7 ⁵/₈" @ 2820' W/2140SX
5 ¹/₂" @5177' W/450 SX

DATE DRILLED: 01/09/46

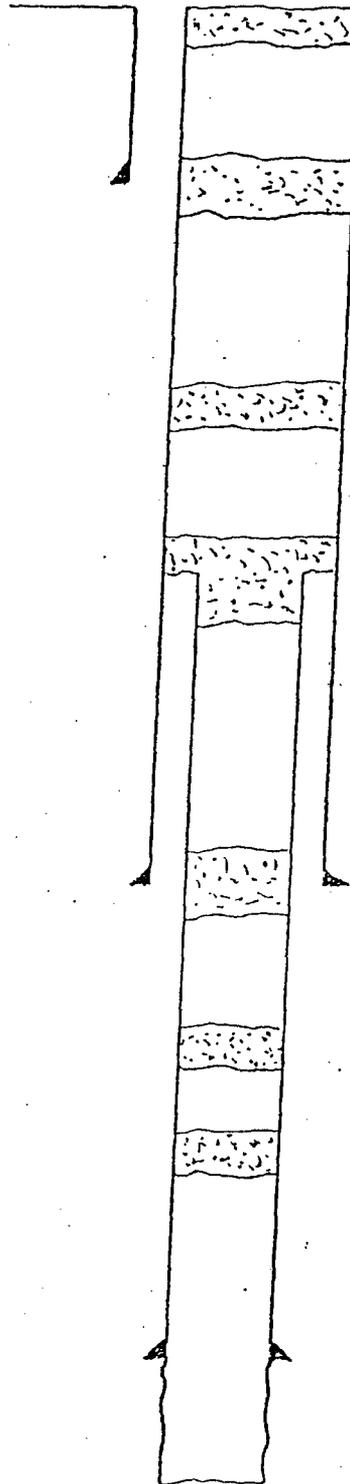
LOCATION: 1980' FNL, 720' FEL
UNIT H SEC. 2 – T22S-R37E

T.D.: 5188'

P.B.T.D.: ---

RECORD OF COMPLETION: PERF @ 5050' – 5170'

* SEE ATTACHED P & A WELLBORE DIAGRAM



10 SX SURFACE PLUG

10 3/4" @ 354' W/400 SX

30 SX @ 400'

60 SX @ 1200'

5 1/2" CUT AND PULLED @ 2440'

30 SX @ 2490' - 2335'

7 5/8" @ 2820' W/2140 SX

35 SX @ 2875'

20 SX @ 3300'

20 SX @ 3800'

5 1/2" @ 5177' W/450 SX

TD 5188'

RICE Operating Company

122 West Taylor • Hobbs, New Mexico 88240
Phone: (505)393-9174 • Fax: (505) 397-1471

WELL WITHIN ONE-HALF MILE
RADIUS OF SWD WELL NO. C-2

OPERATOR: EXXON

LEASE: NEW MEXICO "S" STATE

WELL NO.: 20

WELL TYPE: GAS

CONSTRUCTION: 10 3/4" @ 315' W/250 SX
7 5/8" @ 2590' W/1417 SX
5 1/2" @ 6500' W/515 SX

DATE DRILLED: 4/9/49

LOCATION: 2100 FNL, 500 FWL
UNIT E, SEC. 2-T22S-R37E

T.D.: 6501'

P.B.T.D.: 6495'

RECORD OF COMPLETION: PERF (TUBB) @ 5825' - 6150' THRU ANNULUS
PERF (DRINKARD) @ 6260' - 6437'
2 3/8" TBG @ 6195' W/PACKER

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WELL WITHIN ONE-HALF MILE
RADIUS OF SWD WELL NO. C-2

OPERATOR: EXXON

LEASE: NEW MEXICO "S" STATE

WELL NO.: 27

WELL TYPE: GAS

CONSTRUCTION: 10 3/4" @ 1167' W/600 SX CIR. TO SURFACE
7" @ 7252' W/1550 SX CIR. TO SURFACE

DATE DRILLED: 11/20/75

LOCATION: 1830' FSL' 1900' FWL
UNIT K SEC. 2-T225-R37E

T.D.: 7388'

P.B.T.D.: 7195'

RECORD OF COMPLETION: PERF (ABO) @ 6756' - 6903'
PERF (DRINKARD) @ 6271' - 6498'
ACID @ 6765' - 6903' 13000 GAL.
ACID @ 6271' - 6498' 8000 GAL.
2 3/8" TBG @ 6241' W/PARALLEL ANCHOR
2 3/8" TBG @ 6657' W/PACKER

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RADIUS OF SWD WELL NO. C-2

OPERATOR: EXXON

LEASE: NEW MEXICO "S" STATE

WELL NO.: 28

WELL TYPE: OIL & GAS

CONSTRUCTION: 10 3/4" @ 1120' W/520 SX CIR. TO SURFACE
7" @ 7198' W/1550 SX CIR. TO SURFACE

DATE DRILLED: 5/1/76

LOCATION: 2160' FNL, 1800' FWL
UNIT F, SEC. 2-T22S-R37E

T.D.: 7200'

P.B.T.D.: 7067'

RECORD OF COMPLETION: PERF (DRINKARD) @ 6267'-6447'
PERF (ABO) @ 6768'-6916'
2 3/8" TBG @ 6212' W/PARALLEL ANCHOR
2 3/8" TBG @ 6625' W/PACKER

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WELL WITHIN ONE-HALF MILE
RADIUS OF SWD WELL NO. C-2

OPERATOR: EXXON

LEASE: NEW MEXICO "S" STATE

WELL NO.: 31

WELL TYPE: GAS

CONSTRUCTION: 10 3/4" @ 1151' W/670 SX CIR. TO SURFACE
7" @ 7200' W/2070 SX TO 2200'
6 1/4" OPEN HOLE

DATE DRILLED: 6/7/76

LOCATION: 1660' FWL' 810' FEL
UNIT H, SEC. 2-T22S-R37E

T.D.: 7697'

P.B.T.D.: 7140'

RECORD OF COMPLETION: PERF (DRINKARD) @ 6333' - 6364' SI
PERF (WANTZ ABO) @ 6652' - 6772'

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WELL WITHIN ONE-HALF MILE
RADIUS OF SWD WELL NO. C-2

OPERATOR: EXXON

LEASE: NEW MEXICO "S" STATE

WELL NO.: 32

WELL TYPE: OIL & GAS

CONSTRUCTION: 9 5/8" @ 1155' W/670 SX
7" @ 7450' W/2040 SX

DATE DRILLED: 10/23/76

LOCATION: 2300 FNL, 1980 FEL
UNIT G, SEC. 2-T22S-R37E

T.D.: 7450'

P.B.T.D.: 7407'

RECORD OF COMPLETION: PERF (GRANITE WASH) @ 7210' - 7360'
PERF (DRINKARD) @ 6279' - 6319'
2 3/8" TBG @ 7168' W/PACKER
2 3/8" TBG @ 6210' W/PARALLEL ANCHOR

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WELL WITHIN ONE-HALF MILE
RADIUS OF SWD WELL NO. C-2

OPERATOR: EXXON

LEASE: NEW MEXICO "S" STATE

WELL NO.: 35

WELL TYPE: OIL

CONSTRUCTION: 10 3/4" @ 1193' W/670 SX
7" @ 7608' W/2040 SX

DATE DRILLED: 11/11/76

LOCATION: 760 FNL, 500 FEL
UNIT A, SEC. 2-T22S-R37E

T.D.: 7610'

P.B.T.D.: 7571'

RECORD OF COMPLETION: PERFS (ABO) @ 6713' - 6984'
PERFS (GRANITE WASH) @ 7284' - 7486'
2 3/8" TBG @ 6666' W/PARALLEL ANCHOR @ 6663'
2 3/8" TBG @ 7204' W/PACKER

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----- WITHIN ONE-HALF MILE
RADIUS OF SWD WELL NO. C-2

OPERATOR: EXXON
LEASE: NEW MEXICO "S" STATE
WELL NO.: 37

WELL TYPE: OIL

CONSTRUCTION: 9 5/8" @ 1174' W/700 SX
7" @ 7500' W/2040 SX

DATE DRILLED: 3/24/77

LOCATION: 330' FNL, 1980' FWL
UNIT C, SEC. 2-T22S-R37E

T.D.: 7500'

P.B.T.D.: 7359'

RECORD OF COMPLETION: PERF (GRANITE WASH) @ 7154' - 7310'
PERF (ABO) @ 6640' - 6870'
2 3/8" TBG @ 7069' W/PACKER
2" TBG @ 6538' W/PACKER

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WELL WITHIN ONE-HALF MILE
RADIUS OF SWD WELL NO. C-2

OPERATOR: EXXON MOBIL CORP

LEASE: NEW MEXICO "S" STATE

WELL NO.: 38

WELL TYPE: OIL

CONSTRUCTION: 9 5/8" @ 1129' W/700 SX CIR. TO 250'
7" @ 7650' W/2040 SX CIR. TO 1500'

DATE DRILLED: 04/17/77

LOCATION: 2100' FNL, 660' FWL
UNIT E SEC. 2 - T22S-R37E

T.D.: 7600'

P.B.T.D.: 7560'

RECORD OF COMPLETION: PERF (ABO) @ 6620' - 6898'
PERF (GRANITE WASH) @ 7158' - 7465'
2 3/8" TBG @ 6517' W/PACKER @ 6577'
2 3/8" TBG @ 7060' W/PACKER

* SEE ATTACHED P & A WELLBORE DIAGRAM

RICE Operating Company

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Phone: (505)393-9174 • Fax: (505) 397-1471

WELL WITHIN ONE-HALF MILE
RADIUS OF SWD WELL NO. C-2

OPERATOR: EXXON MOBIL CORP

LEASE: NEW MEXICO "S" STATE

WELL NO.: 39

WELL TYPE: GAS

CONSTRUCTION: 9 ⁵/₈" @ 1175' W/700 SX
7" @ 7500' W/2040 SX

DATE DRILLED: 06/02/77

LOCATION: 330' FNL, 550 FWL
UNIT D SEC. 2 - T22S-R37E

T.D.: 7500'

P.B.T.D.: 7350'

RECORD OF COMPLETION: PERF (ABO) @ 6582' - 6867'
2 ³/₈" TBG @ 6535' W/PACKER

* SEE ATTACHED P & A WELLBORE DIAGRAM

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WELL WITHIN ONE-HALF MILE
RADIUS OF SWD WELL NO. C-2

OPERATOR: MARATHON

LEASE: MARK OWEN

WELL NO.: 2

WELL TYPE: OIL & GAS

CONSTRUCTION: 13 3/8" @ 292' W/250 SX
8 5/8" @ 2800' W/1500 SX
5 1/2" @ 6416' W/600 SX

DATE DRILLED: 8/26/46

LOCATION: 660' FSL, 660' FWL
UNIT M, SEC. 35-T21S-R37E

T.D.: 6552'

P.B.T.D.: -----

RECORD OF COMPLETION: PERF (BLINEBRY) @ 5436' - 5630' THRU ANNULUS
PERF (DRINKARD) @ 6416' - 6552' (OPEN HOLE)
2 7/8" TBG @ 6313' W/PACKER @ 6300'

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WELL WITHIN ONE-HALF MILE
RADIUS OF SWD WELL NO. C-2

OPERATOR: MARATHON

LEASE: MARK OWEN

WELL NO.: 3

WELL TYPE: GAS

CONSTRUCTION: 13 3/8" @ 313' W/250 SX
8 5/8" @ 2800' W/1500 SX
5 1/2" @ 6424' W/600 SX

DATE DRILLED: 10/17/46

LOCATION: 660' FSL, 1980' FWL
UNIT N, SEC. 35-T21S-R37E

T.D.: 6550'

P.B.T.D.: 6415'

RECORD OF COMPLETION: PERF (DRINKARD) @ 6234' - 6385'
PERF (TUBB) @ 5938' - 6110' THRU ANNULUS
2 3/8" TBG @ 6170' W/PACKER

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WELL WITHIN ONE-HALF MILE
RADIUS OF SWD WELL NO. C-2

OPERATOR: MARATHON

LEASE: MARK OWEN

WELL NO.: 7

WELL TYPE: OIL & GAS

CONSTRUCTION: 8 5/8" @ 1252' W/600 SX
5 1/2" @ 7427' W/2525 SX

DATE DRILLED: 11/22/75

LOCATION: 660' FSL, 2310' FWL
UNIT N, SEC. 35-T21S-R37E

T.D.: 7427'

P.B.T.D.: 7396'

RECORD OF COMPLETION: PERF (ABO) @ 6833' - 7218'
PERF (GRANITE WASH) @ 7254' - 7294'
2 1/16" TBG @ 6800' W/PACKER
2 1/16" TBG @ 7230' W/PACKER

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WELL WITHIN ONE-HALF MILE
RADIUS OF SWD WELL NO. C-2

OPERATOR: MARATHON

LEASE: MARK OWEN

WELL NO.: 8

WELL TYPE: OIL

CONSTRUCTION: 9 5/8" @ 1256' W/600 SX
7" @ 7505' W/2450 SX

DATE DRILLED: 4/13/77

LOCATION: 760' FSL, 760' FWL
UNIT M, SEC. 35-T21S-R37E

T.D.: 7505'

P.B.T.D.: 7499'

RECORD OF COMPLETION: PERF (GRANITE WASH) @ 7156' - 7487'
PERF (WANTZ ABO) @ 6648' - 7017
2 1/16" TBG @ 7055' W/PACKER
2 3/8" TBG @ 7128' W/PACKER

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Well within one-half mile
Radius of Swd well no. C-2

Operator: J.H. Hendrix Corp.
Lease: Paddock unit
Well # 10

Well Type: Oil & Gas
Construction: 95/8" @ 324' w/225 sx cir. To surface
75/8" @ 2563' w/785 sx cir. To surface
51/2" @ 6448' w650 sx cir. To surface

Date Drilled: 3/24/47

Location: 660 FNL, 660 FWL
Unit D, Sec. 2 T22s R37e

T.D.: 6534'

P.B.T.D.: 6385'

Record of Completion: Perf (Paddock) @ 5060' - 5190'

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WELL WITHIN ONE-HALF MILE
RADIUS OF SWD WELL NO. C-2

OPERATOR: J. HENDRIX CORP

LEASE: PADDOCK UNIT

WELL NO.: 12

WELL TYPE: OIL T & A SINCE 10/01/76

CONSTRUCTION: 10 3/4" @ 400' W/ 300 SX
7 5/8" @ 2800' W/ 950 SX
5 1/2" @ 5210' W/ 500 SX

DATE DRILLED: 05/10/47

LOCATION: 660' FNL, 1905' FEL
UNIT B SEC. 2 - T22S-R37E

T.D.: 5210'

P.B.T.D.: - - - -

RECORD OF COMPLETION: PERF (PADDOCK) @ 5095' - 5205'

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WELL WITHIN ONE-HALF MILE
RADIUS OF SWD WELL NO. C-2

OPERATOR: HENDRIX

LEASE: PADDOCK UNIT

WELL NO.: 17

WELL TYPE: WATER INJECTION T & A EXPIRES 05/07/87

CONSTRUCTION: 10 3/4" @ 320' W/250 SX
7 5/8" @ 2551' W/1350 SX
5 1/2" @ 5215' W/250 SX

DATE DRILLED: 06/24/47

LOCATION: 1980' FNL, 660' FWL
UNIT E SEC. 2 - T22S-R37E

T.D.: 5215'

P.B.T.D.: ---

RECORD OF COMPLETION: PERF @ 5060' - 5210'
CIBP @ 4990' W/35 SX

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WELL WITHIN ONE-HALF MILE
RADIUS OF SWD WELL NO. C-2

OPERATOR: HENDRIX

LEASE: PADDOCK UNIT

WELL NO.: 18

WELL TYPE: OIL

CONSTRUCTION: 10 3/4" @ 317' W/250 SX
7 5/8" @2519' W/1000 SX
5 1/2" @5218' W/375 SX

DATE DRILLED: 10/03/46

LOCATION: 1980' FNL, 1980' FWL
UNIT F, SEC 2-T22S-R37E

T.D.: 5218'

P.B.T.D.: -----

RECORD OF COMPLETION: PERF (PADDOCK) @ 5065' - 5205'
ACID @ 5065' - 5205' W/3000 GAL 20% HCL
2 3/8" TBG @ ?

* LAST FILE DATED 1978

RICE Operating Company

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WELL WITHIN ONE-HALF MILE
RADIUS OF SWD WELL NO. C-2

OPERATOR: HENDRIX
LEASE: PADDOCK UNIT
WELL NO.: 19
WELL TYPE: WATER INJECTION
CONSTRUCTION: 10 3/4" @ 368' W/250 SX
7 5/8" @ 2816' W/850 SX
5 1/2" @ 5198' W/400 SX
DATE DRILLED: 07/21/46
LOCATION: 1980' FWL, 1980' FEL
UNIT G SEC. 2 – T22S-R37E
T.D.: 5198'
P.B.T.D.: ---
RECORD OF COMPLETION: PERF @ 5088' – 5193'
CIBP @ 5055' W/PACKER

* LATEST REPORT ON FILE DATED 1968

RICE *Operating Company*

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WELL WITHIN ONE-HALF MILE
RADIUS OF SWD WELL NO. C-2

OPERATOR: HENDRIX

LEASE: PADDOCK UNIT

WELL NO.: 29

WELL TYPE: WATER INJECTION T & A EXPIRES 05/07/87

CONSTRUCTION: 10 3/4" @ 366' W/250 SX
7 5/8" @ 2788' W/975 SX
5 1/2" @ 5209' W/300 SX

DATE DRILLED: 08/19/46

LOCATION: 1980' FSL, 1980' FWL
UNIT K SEC. 2 - T22S-R37E

T.D.: 5209'

P.B.T.D.: 4985'

RECORD OF COMPLETION: PERF @ 5055' - 5205'
SAN ANGELO
CIBP @ 4985' W/35 SX

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WELL WITHIN ONE-HALF MILE
RADIUS OF SWD WELL NO. C-2

OPERATOR: OXY USA W & P, L.P.

LEASE: OWEN

WELL NO.: 1

WELL TYPE: OIL

CONSTRUCTION: 13 ³/₈" @ 293' W/250 SX
9 ⁵/₈" @ 2824' W/1500 SX
4" @ 6138' - 7523' W/85 SX

DATE DRILLED: 06/26/46

LOCATION: 660' FSL, 660' FEL
UNIT P, SEC. 35 - T21S-R37E

T.D.: 7524'

P.B.T.D.: 7509

RECORD OF COMPLETION: PERF (BLINEBRY) @ 5683' - 5900' THRU ANNULUS
PERF (GRANITE WASH) @ 7426' - 7490'
2 ⁷/₈" TBG @ 7250' W/PACKER @ 6010'

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WELL WITHIN ONE-HALF MILE
RADIUS OF SWD WELL NO. C-2

OPERATOR: OXY USA W & P, L.P.

LEASE: OWEN

WELL NO.: 2

WELL TYPE: OIL

CONSTRUCTION: 13 ³/₈" @ 331' W/275 SX
8 ⁵/₈" @ 2812' W/1400 SX
5 ¹/₂" @ 6407' W/350 SX
4" @ 6237' - 7444' W/85 SX

DATE DRILLED: 03/10/72

LOCATION: 660' FSL, 1980' FEL
UNIT O, SEC. 35 - T21S-R37E

T.D.: 7444'

P.B.T.D.: 7396

RECORD OF COMPLETION: PERF (ABO) @ 6632' - 7248'
PERF (BLINEBRY) @ 5504' - 5596' THRU ANNULUS
2 ³/₈" TBG @ 6355' W/PACKER @ 6117'

RICE Operating Company

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VII Operation

1. Injection Rates

Open Hole

Current Average Rate: 8500-9000 BWPD
Maximum Rate: 9600 BWPD

Thru Perforations (4230'- 4320')

Current Average Rate: 0 BWPD
Maximum Rate: 2160 BWPD (as shown by historical tests)

2. System

Type: Open

3. Injection Pressures:

Open Hole:

Current Average Injection Pressure: Vacuum
Maximum Injection Pressure: 0 PSI

Thru Perforations (4230'- 4320')

Current Average Pressures: (Isolated with packer)
Maximum Injection Pressure 0 PSI

GENERALIZED SECTION

PRODUCING FORMATIONS LEA COUNTY, NEW MEXICO

SYSTEM	SERIES	FORMATION		LEA COUNTY POOLS 2500'± NONPRODUCTIVE BEDS ARE NOT INCLUDED	
PERMIAN	OCHOA	SALADO			
	GUADALUPE		TANSILL		
			YATES		ARROW, BALSH, CORBIN, EAVES, EUMONT, GEN, HALFWAY, JALMAT, LUSK, LYNCH, NORTH LYNCH, RICHES, SAN SIMON, TEAS, WILSON, NORTH WILSON.
			SEVEN RIVERS		ARROW, BOWERS, COOPER JAL, EAVES, EUMONT, SOUTH ELNICE, EAST HOBBS, JALMAT, LANGLIE MATTIX, LEONARD, TONTO, WATKINS, WEST WILSON.
			QUEEN		ARROW, CAPROCK, NORTH CAPROCK, COOPER JAL, CORBIN, DOLLARHIDE, EUMONT, LANGLIE MATTIX, SOUTH LEONARD, PEARSALL, PENROSE SKELLY, YOUNG.
			GRAYBURG		ARROWHEAD, ELNICE-MONUMENT, HARDY, HOBBS, MALJAMAR, EAST MALJAMAR, NORTH MALJAMAR, SOUTH MALJAMAR, PENROSE SKELLY, ROBERTS, SKAGGS, VACUUM, WATKINS.
			SAN ANDRES		EIGHTY FOUR DRAW, ELNICE-MONUMENT, GIBBETT, HOBBS, EAST HOBBS, HOUSE, LITTMAN, LOVINGTON, WEST LOVINGTON, MALJAMAR, EAST MALJAMAR, NORTH MALJAMAR, SAWYER, VACUUM.
	LEONARD		GLORIETA		JUSTIS, LOVINGTON, MONUMENT, MALJAMAR, PADDOCK.
		YESO DRINKARD		LOWER	BLINEBRY, EAST HOBBS, MONUMENT, TERRY.
				MIDDLE	TUBA
					UPPER
		WOLFCAMP	ABO-HUECO		ANDERSON RANCH, EAST CAPROCK, DENTON, D-K, GLADIOLA, KING, LOVINGTON, TOWNSEND, TALK, WANTZ.
PENNSYLVANIAN				ALLISON, BAGLEY, BOUGH, CASS, CROSSROADS, EDISON, HIGHTOWER, LAZY J, EAST LOVINGTON, MESCALERO, MOORE, SAUNDERS, SOUTH SAUNDERS, SHOE BAR.	
MISSISSIPPIAN		MISS. LS.		DENTON	
		WOODFORD SH.			
DEVONIAN				ANDERSON RANCH, BAGLEY, BRONCO, EAST CAPROCK, CROSSROADS, DENTON, DOLLARHIDE, ECHOL, NORTH ECHOL, GLADIOLA, HIGHTOWER, KNOWLES, SOUTH KNOWLES, MALJAMAR, MESCALERO, MOORE, SHOE BAR, TEAGUE.	
SILURIAN		FUSSELMAN		DOLLARHIDE, FOWLER, MC CORMICK.	
ORDOVICIAN	UPPER	MONTOYA		CORY	
	MIDDLE	SIMPSON		MARE, SOUTH MARE, TEAGUE, WARREN, NORTH WARREN.	
	LOWER	ELLENBURGER		BRUNSON, DOLLARHIDE, FOWLER, TEAGUE.	
PRE-CAMBRIAN					

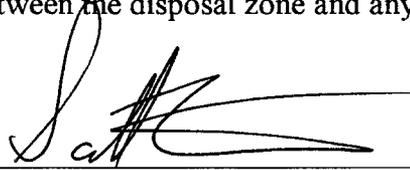
RICE Operating Company

122 West Taylor • Hobbs, New Mexico 88240
Phone: (505)393-9174 • Fax: (505) 397-1471

Affirmative Statement

I, Scott Curtis, Operations Manager of Rice Operating Co., have examined the available geologic and engineering data and find no evidence of open faults or any hydrologic connection between the disposal zone and any underground source of drinking water.

Signed: _____



Date: _____

1-17-03

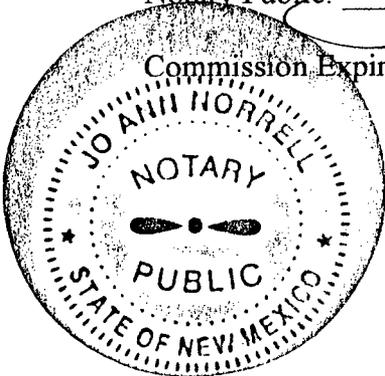
On this 17th day of January, 2003, Scott Curtis personally appeared and executed the above instrument before me.

Notary Public: _____



Commission Expires: _____

Feb. 16, 2004



RICE Operating Company

122 West Taylor • Hobbs, New Mexico 88240
Phone: (505)393-9174 • Fax: (505) 397-1471

Statement of Compatibility:

Water analysis of the blended injection water and a sample of San Andres formation water from a producing well approximately one and a half miles from the C-2 disposal well appears to be compatible. Considering the fact that the C-2 well has been injecting this same blended water into the San Andres formation for roughly 30 years,(without any formation problems) there is no doubt that the two waters are in fact compatible.

Scott Curtis

A handwritten signature in black ink, appearing to read 'Scott Curtis', with a large, sweeping underline that extends to the right.

Operation Manager



PHONE (815) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
 RICE OPERATING CO.
 ATTN: SCOTT CURTIS
 122 W. TAYLOR
 HOBBS, NM 88240
 FAX TO: (505) 397-1471

Receiving Date: 03/05/03
 Reporting Date: 03/07/03
 Project Number: NOT GIVEN
 Project Name: NOT GIVEN
 Project Location: BD SWD WELL C-2

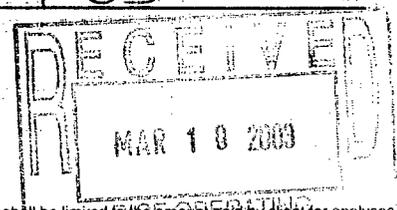
Sampling Date: 03/05/03
 Sample Type: WATER
 Sample Condition: COOL & INTACT
 Sample Received By: AH
 Analyzed By: AH

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (μ m/cm)	T-Alkalinity (mgCaCO ₃ /L)	
ANALYSIS DATE:		03/05/03	03/06/03	03/06/03	03/06/03	03/06/03	03/06/03	
H7517-1	ZIA ENERGY COLE #8	6046	89	64	254	25248	2250	
H7517-2	BD SWD C-2 BLENDED INJ.	13848	1512	636	360	69537	1800	
H7517-3	FRESH WATER 1 MILE E. OF C-2	216	83	57	21.9	2367	75	
Quality Control		NR	43	55	4.67	1322	NR	
True Value QC		NR	50	50	5.00	1413	NR	
% Recovery		NR	86.0	110	93.4	93.6	NR	
Relative Percent Difference		NR	0	0	1.0	0.7	NR	
METHODS:		SM3500-Ca-D		3500-Mg E		8049	120.1	310.1

		Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)	
ANALYSIS DATE:		03/06/03	03/06/03	03/06/03	03/06/03	03/06/03	03/07/03	
H7517-1	ZIA ENERGY COLE #8	8297	17.1	0	2745	7.81	15580	
H7517-2	BD SWD C-2 BLENDED INJ.	24392	774	0	2196	7.63	46150	
H7517-3	FRESH WATER 1 MILE E. OF C-2	520	132	42	0	9.08	1284	
Quality Control		1080	50.20	NR	1098	7.03	NR	
True Value QC		1000	50.00	NR	1000	7.00	NR	
% Recovery		108	100	NR	110	101	NR	
Relative Percent Difference		8.0	0.7	NR	3.0	0.3	0.4	
METHODS:		SM4500-Cl-B		375.4	310.1	310.1	150.1	160.1

Amy Hill
 Chemist

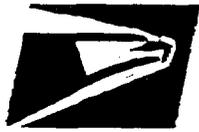
3-7-03
 Date



PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

ATTN: BELIE

FAX # 397-1471

**UNITED STATES
POSTAL SERVICE™**

Date: 02/14/2003

Fax Transmission To: JIM KEMP
Fax Number: 505-396-2859

Dear JIM KEMP:

The following is in response to your 02/14/2003 request for delivery information on your Certified item number 70020510000093845754. The delivery record shows that this item was delivered on 02/06/2003 at 01:08 PM in LOVINGTON, NM 88260. The scanned image of the recipient information is provided below.

Signature of Recipient: Delivery SectionD.G. Clay
D CLAYAddress of Recipient: P.O. Box 1475

Thank you for selecting the Postal Service for your mailing needs. If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,

United States Postal Service

Oxy Permian
Mr. David Stewart
PO Box 50520
Midland, TX 79701

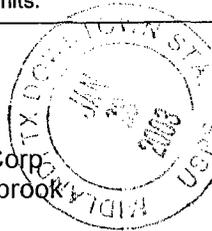
Article Addressed to:

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

J.H. Hendrix Corp.
Mr. Ron Westbrook
PO Box 3040
Midland, TX 79702



COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number (Transfer from service label) 7002 0510 0000 9384 5709

PS Form 3811, August 2001

Domestic Return Receipt

102595-01-M-250

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

New Mexico Commissioner of Public Lands
Mr. Patrick H Lyons
PO Box 1148
Santa Fe, NM 87504-1148

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Addressee

B. Received by (Printed Name) C. Date

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number (Transfer from service label) 7002 0510 0000 9384 5730

PS Form 3811, August 2001

Domestic Return Receipt

1



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

New Mexico Oil Conservation Division
Mr. David Catanach
1220 South St. Francis Dr
Santa Fe, NM 87505

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number (Transfer from service label) 7002 0510 0000 9384 5723

PS Form 3811, August 2001

Domestic Return Receipt

102595-01-M-251

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

A. Signature Agent
 Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

1. Article Addressed to:

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

Marathon Inc
Mr. Randy Bose
PO Box 552
Midland, TX 79702

1. Domestic Return Receipt (Extra Fee)

1. Yes

1. Yes