

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: Rand Oil & Gas Inc.
Address: , 4006 Beltline Road, Suite 290, Dallas, TX 75224
Contact party: Eddie W. Seay Phone: 505-392-2236
- 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. Certificate

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Eddie W. Seay Title: Agent

Signature: Eddie W. Seay Date: 08-12-94

- * 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.

FORM C-108

APPLICATION FOR AUTHORIZATION TO INJECT

RAND OIL & GAS INC.

PART III. A

1. Rand Oil & Gas Inc.
Summers #1 Unit B Sect. 18. T17. R39E
660/FNL 1980/FEL Lea Co., NM
2. 12 3/4" CSG set at 415' cemented with 400 sx
class C, circulated to surface.
8 5/8" CSG set at 4950' cemented in two stages.
1st stage 565 sx cement circulated
2nd stage 850 sx circulated to surface
DV tool at 2446'.
TD 12,238' plugged back to 10,305'
30 sx plug at 12,216'
40 sx plug at 10,305'
Open hole from 10,305' to surface
3. Plan to run 2 7/8" plastic lined tubing set at
approx. 4900'.
4. Plan to run a Baker tension packer and set at
approx. 4900'. Open hole completion.

PART III. B

1. Grayburg, San Andres and Yeso formations in the
South Knowles Devonian field.
2. The injection interval will be open hole from 4950'
to 8900'.
3. Well was originally drilled to the Devonian
formation as an oil well.
4. Well is open hole from 4950' to 10,305', was plugged
back to 10,305'. Plan to spot 30 sx plug, back to
8900', with salt gel between plugs.
5. The upper formation is the Queen at 4450'. The
lower next formation is the Wolfcamp at 9144'.

PART V. Attached.

PART VI. Attached.

PART VII.

1. The average rate of injection will be approx. 500 bls. per day with a maximum of 700 bls. per day.
2. The average pressure will be 400 to 600 psi with a maximum of 1000 psi or not to exceed OCD limit.
3. The source of water will be from Rand Oil & Gas production, Devonian production.
4. Waters from the Grayburg/San Andres formations range in chloride content from 47,000 to 130,000 ppm, and the proposed injected water from the Devonian averages 90,000 ppm chloride as per OCD records.

PART VIII. Attached.

PART IX. No major stimulation is proposed, only acid as needed.

PART X. Previously submitted.

PART XI. Attached.

PART XII. All available geologic and engineering data has been examined and no evidence of open faults or any other hydrologic connection between the injection zone and underground source of drinking water was found.

PART XIII. Attached.

Upon approval of SWD application and before converting to injection, Rand Oil & Gas will perforate its Arco "A" Com #1 well at top of cement and tie back to shoe of 8 5/8" casing.

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17
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[illegible]

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PRINTED IN U.S.A.

HHH

HHH

HHH

175	38E	17	3133	10/25/79	42	534	T0G	L	03419	MTU	YT	SEO	1084
175	38E	17	3133	9/28/84	47	634	T0G	L		DOM	YT	SEO	1084
175	38E	17	3133	10/25/79	40	616	T0G	L	01700	DOM	YT	SEO	1084
175	38E	17	3133	9/28/84	44	626	T0G	L	01700	DOM	YT	SEO	1084
175	38E	21	44122	9/28/84	138	1831	57F	T0G	L		DOM	DP	1084
175	38E	24	23211	10/02/79	120	934	67F	T0G	L	00833	IRR	DP	1185
175	38E	24	23211	17/23/85	180	1317	65F	T0G	L	00833	IRR	DP	1185
175	38E	27	31132	7/23/85	80	879	T0G	L	01310	IRR	DP	SEO	0184
175	38E	27	33312	10/02/79	54	734	T0G	L	01310 A	IRR	SPRKL	SEO	
175	38E	30	113234	10/02/79	86	1062	65F	T0G	L	00012 AE	IRR	DP	1084
175	38E	30	113234	9/18/84	175	1338	65F	T0G	L	00012 AE	IRR	DP	1084
175	38E	30	31131	07/31/30	34		64F	T0G	L		DOM		X
175	38E	31	11231	10/02/79	40	648	T0G	L	00567 S	IRR	DP	SEO	
175	38E	31	31111	7/23/85	62	718	T0G	L	00672	IRR	YT	SEO	1185
175	38E	31	31111	09/08/85	40	620	67F	T0G	L	00672	IRR	DP	SEO
175	38E	31	31111	05/05/78	43	645	65F	T0G	L	00672	IRR	DP	SEO
175	38E	31	31111	10/03/79	40	678	67F	T0G	L	00672	IRR	DP	SEO
175	38E	31	33133	10/03/79	58	653	66F	T0G	L	00672 S	IRR	DP	1185
175	38E	31	33133	7/23/85	79	1117	T0G	L	00672 S	IRR	DP	SEO	0683
175	38E	33	14223	6/06/78	41	615	66F	T0G	L	07884	DOM	YT	1084
175	38E	33	14223	9/28/84	37	608	T0G	L	07884	DOM	YT	SEO	1084
175	39E	18	33242	10/02/79	74	777	66F	T0G	L	03049	IRR	DP	1185
175	39E	18	33242	7/23/85	79	749	65F	T0G	L	03049	IRR	DP	1185
175	39E	30	33222	09/19/79	152	1103	T0G	L	00836	IRR	SPRKL	SEO	1084
175	39E	30	33222	9/18/84	158	1217	T0G	L	00836	IRR	SPRKL	SEO	1084
185	29E	10	34310	08/14/69	2030	6100	TRC			STK	DP	OCC	O
185	29E	10	34310	10/20/76	2024	8730	67F	TRC		STK	DP	CEC	P
185	29E	10	34310	8/28/80	2035	8767	TRC	CP		STK	DP	SEO	282
185	29E	10	34310	9/30/81	2016	8694	TRC	OB		STK	DP	SEO	0485
185	29E	10	34310	3/28/85	2030		TRC	CP		STK	DP	SEO	O
185	29E	24	23313	08/14/69	50	1210	TRC	CP	00582	STK	DP	OCC	P
185	29E	24	23313	10/20/76	32	1510	67F	TRC		STK	DP	CEC	1084
185	29E	24	23313	8/28/80	28	1808	TRC	CP		STK	TANK	SEO	282
185	29E	24	23313	9/30/81	28	1997	TRC	CP	00582	STK	DP	SEO	0483
185	29E	24	23313	5/18/83	25	2231	66F	TRC		STK	DP	SEO	0485
185	29E	24	23313	3/28/85	65					STK	DP	USG	X
185	29E	24	23333	4/28/50	110	2150	TRC	CP		STK	DP	USG	0585



ARDINAL
LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

PHONE (505) 326-4669 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

CHEMICAL ANALYSIS OF WATER

Company : Eddie Seay (Rand Oil & Gas) Lab #: H1754
City, St.: 601 W. Illinois Date Received: 7/22/94
Proj. Name: Irrigation Well SE of Sect. 12 Date Analyzed: 7/25/94
Location : South Knowles 12-17-38

Sample 1 : SE 1/4 Sect. 12 T17 R38 Lea County Units: ppm

<u>PARAMETER</u>	<u>RESULT 1</u>
pH	7.13
Hardness (CaCO ₃)	224
Calcium (CaCO ₃)	140
Magnesium (CaCO ₃)	84
Sulfate (SO ₄ ⁻)	68.5
Chloride (Cl ⁻)	56
Conductivity (uS/cm)	1141
Total Alkalinity	184

Michael R. Fowler

7-26-94
Date

RAND OIL & GAS INC.
ARCO "A" # 2
UNIT: C SEC 18 T 17 S R 39 E
660/FNL 1980/FWL
PROPOSED TD: 12300
API NUMBER: 30-025-32458

TABULAR DATA

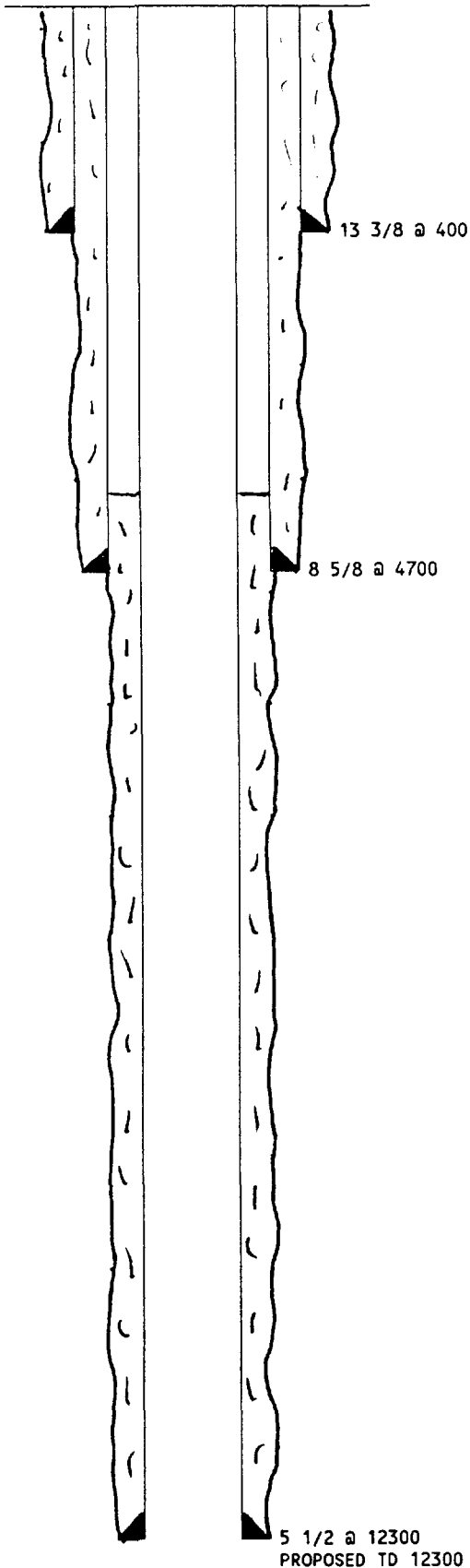
SURFACE CASING
SIZE: 13 3/8 SET AT: 400 HOLE SIZE: 17 1/2
CEMENTED WITH 400 SXS
TOC: SURFACE DETERMINED BY: CALC TOP CEMENT

INTERMEDIATE CASING
SIZE: 8 5/8 SET AT: 4700 HOLE SIZE: 12 1/3
CEMENTED WITH 3000 SXS
TOC: SURFACE DETERMINED BY: CALC TOP CEMENT

PRODUCTION CASING
SIZE: 5 1/2 SET AT: 12300 HOLE SIZE: 7 7/8
CEMENTED WITH 1200 SXS
TOC: 4200 DETERMINED BY: CALC TOP CEMENT

PROPOSED PRODUCING INTERVAL: DEVONIAN
POOL: KNOWLES DEVONIAN, SOUTH

COMMENTS:
PROPOSED CASING PROGRAM



RAND OIL & GAS INC.
ARCO "A" COM # 1
UNIT: F SEC 18 T 17 S R 39 E
1980/FNL 1980/FWL
TD: 12137
API NUMBER: 30-025-31989

TABULAR DATA

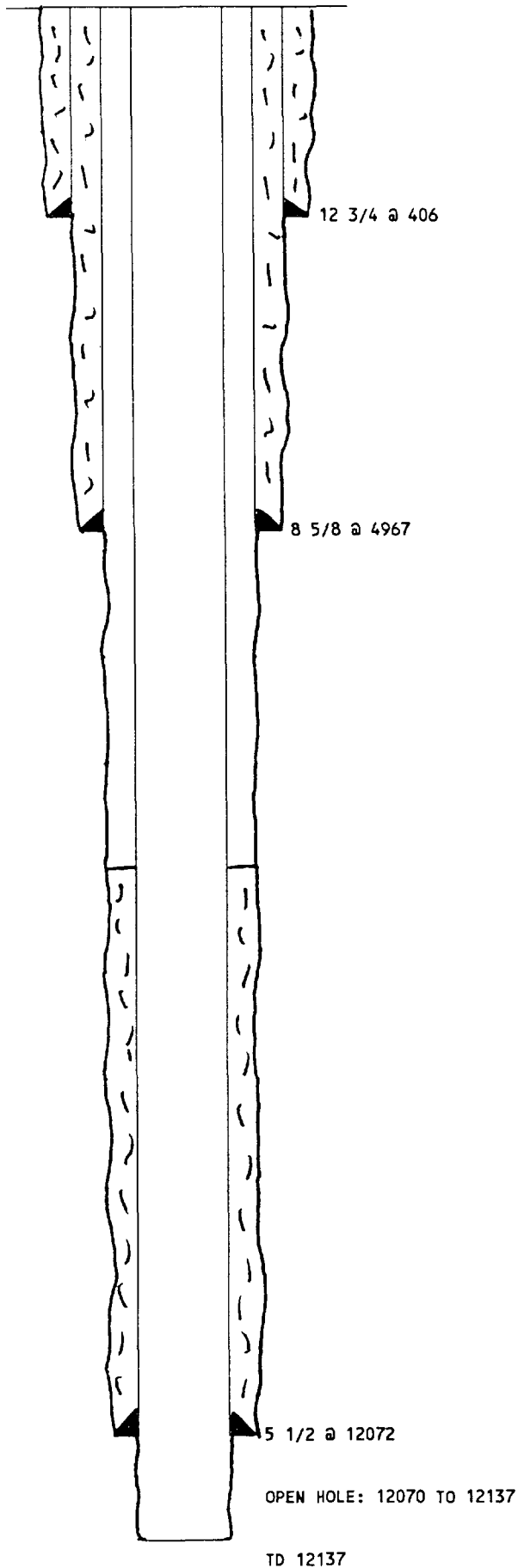
SURFACE CASING
SIZE: 12 3/4 SET AT: 406 HOLE SIZE: 15
CEMENTED WITH 520 SXS
TOC: SURFACE DETERMINED BY: CALC TOP CEMENT

INTERMEDIATE CASING
SIZE: 8 5/8 SET AT: 4967 HOLE SIZE: 11
CEMENTED WITH 1415 SXS
TOC: SURFACE DETERMINED BY: CALC TOP CEMENT

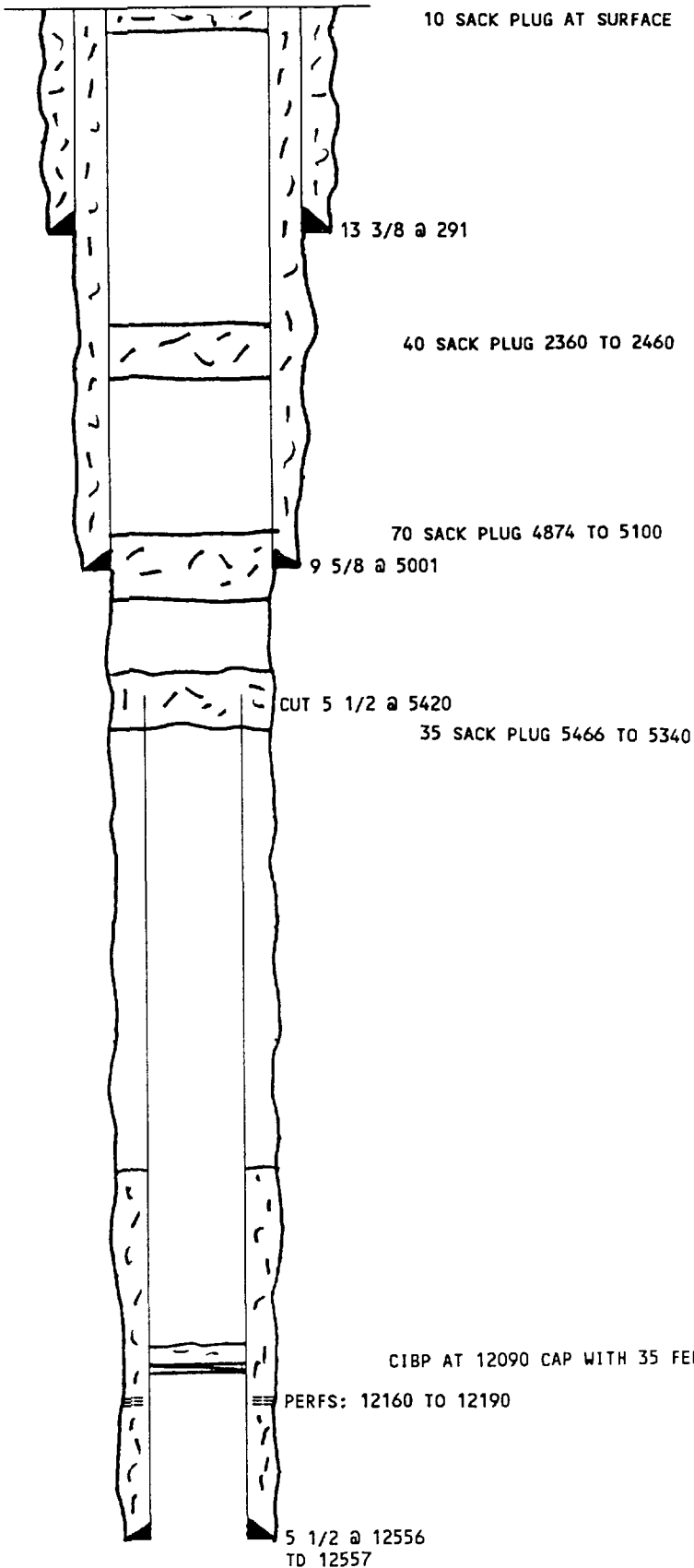
PRODUCTION CASING
SIZE: 5 1/2 SET AT: 12072 HOLE SIZE: 7 7/8
CEMENTED WITH 550 SXS
TOC: 8400 DETERMINED BY: CALC TOP CEMENT

PRODUCING INTERVAL: DEVONIAN
POOL: KNOWLES DEVONIAN, SOUTH

OPEN HOLE: 12070 TO 12137



HAMON, JAKE L & GULF OIL CORP.
D F WILHOIT # 1
UNIT: D SEC 18 T 17 S R 39 E
660/FNL 660/FWL
TD: 12557
API NUMBER: 30-025-07910



TABULAR DATA

SURFACE CASING
SIZE: 13 3/8 SET AT: 291 HOLE SIZE: 17 1/4
CEMENTED WITH 350 SXS
TOC: SURFACE DETERMINED BY: CIRC TO SURFACE

INTERMEDIATE CASING
SIZE: 9 5/8 SET AT: 5001 HOLE SIZE: 12 1/4
CEMENTED WITH 3450 SXS
TOC: SURFACE DETERMINED BY: CIRC TO SURFACE

PRODUCTION CASING
SIZE: 5 1/2 SET AT: 12556 HOLE SIZE: 8 3/4
CEMENTED WITH 500 SXS
TOC: 10300 DETERMINED BY: CALC TOP CEMENT

PRODUCING INTERVAL: DEVONIAN
POOL: KNOWLES DEVONIAN, SOUTH
PERFS: 12160 TO 12190

COMMENTS:

P&A 11/11/80
CIBP AT 12090 CAP WITH 35 FEET CEMENT
CUT 5 1/2 CASING AT 5420
35 SACK PLUG 5466 TO 5340
70 SACK PLUG 4874 TO 5100
40 SACK PLUG 2360 TO 2460
10 SACK PLUG AT SURFACE

RAND OIL & GAS INC.
SUMMERS # 1
UNIT: B SEC 18 T 17 S R 39 E
660/FNL 1980/FEL
TD: 12238
API NUMBER: 30-025-32254

TABULAR DATA

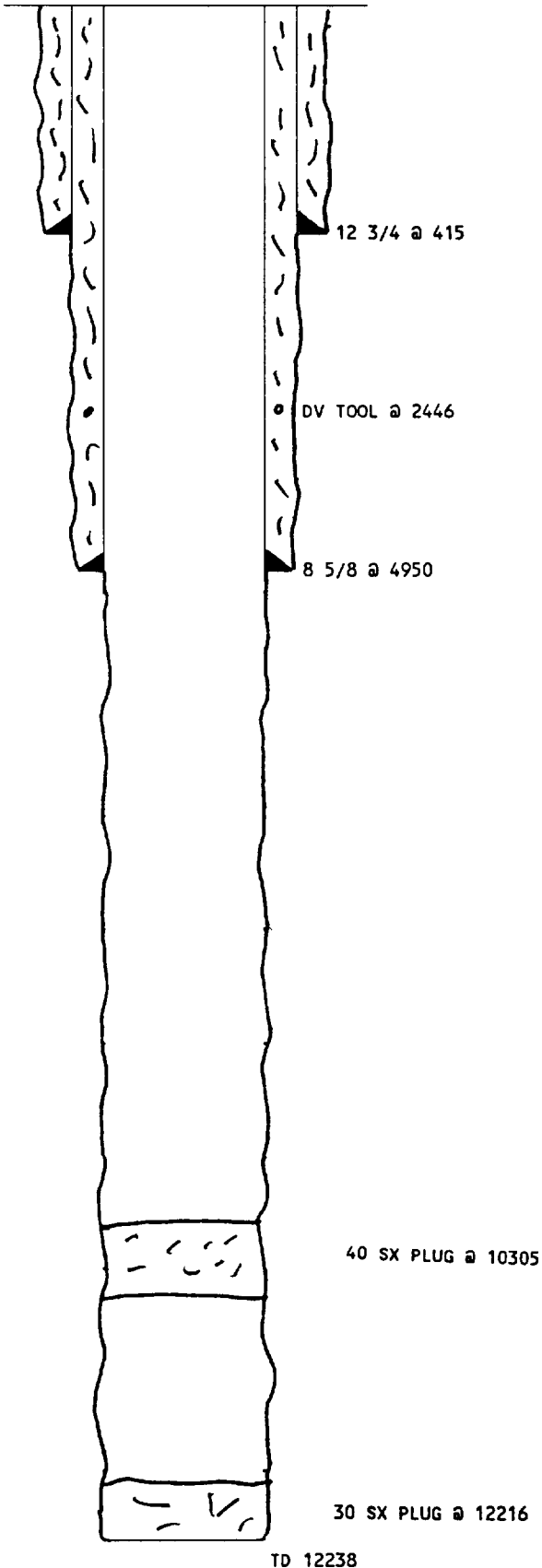
SURFACE CASING
SIZE: 12 3/4 SET AT: 415 HOLE SIZE: 17 1/2
CEMENTED WITH 400 SXS
TOC: SURFACE DETERMINED BY: CMT CIRC

INTERMEDIATE CASING
SIZE: 8 5/8 SET AT: 4950 HOLE SIZE: 11
CEMENTED WITH 565 SXS
TOC: SURFACE DETERMINED BY: CIRC TO SURFACE
DV TOOL @: 2446
1 ST STAGE 565 SX CEMENT CIRC
2 ND STAGE 850 SX CIRC TO SURFACE

POOL: DRY & TEMPORARY ABANDONED

COMMENTS:

30 SX PLUG @ 12216
40 SX PLUG @ 10305



P 309 850 463



**Receipt for
Certified Mail**

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

PS Form 3800, June 1991

Sender Joe Tarbet	
Street and No. Rt 4, Box 333-A	
P.O., State and ZIP Code Seminole, TX 79360	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date and Addressee's Address	
TOTAL Postage & Fees	\$2.29
Postmark or Date	

P 309 850 465



**Receipt for
Certified Mail**

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

PS Form 3800, June 1991

Sender WJC Inc.	
Street and No. P.O. Box 7	
P.O., State and ZIP Code Post, TX 79356	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date and Addressee's Address	
TOTAL Postage & Fees	\$2.29
Postmark or Date	

P 309 850 464



**Receipt for
Certified Mail**

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

PS Form 3800, June 1991

Sender Pand Oil & Gas Inc.	
Street and No. 4006 Beltline Rd. Suite 290	
P.O., State and ZIP Code Dallas, TX 75224	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date and Addressee's Address	
TOTAL Postage & Fees	\$2.29
Postmark or Date	

August 2, 1994

Mr. Joe Tarbet
Rt. 4, Box 333-A
Seminole, TX 79360

Dear Sir:

Pursuant to the rules and regulations of the State of New Mexico, Oil Conservation Division, Santa Fe, NM, notice is hereby given that Rand Oil & Gas Inc. is filing an application to convert their Summers #1 Unit B, 660/FNL 1980/FEL Sect. 18 Tws. 17 Range 39 E., Lea Co., NM, from a shut-in producer to a salt water disposal well. The source of injection will be produced water, injecting approximately 1500 bls. per day at #800 pressure into the Grayburg, San Andres and Yeso formations at a depth of 4950' to 8900'.

Any questions or objections must be filed with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 89501, within 15 days.

Sincerely,

A handwritten signature in cursive script that reads "Eddie W. Seay". A long, thin line extends from the bottom of the signature, pointing downwards and to the right towards the typed name below.

Eddie W. Seay, Agent
601 W. Illinois
Hobbs, NM 88240
(505)392-2236

August 2, 1994

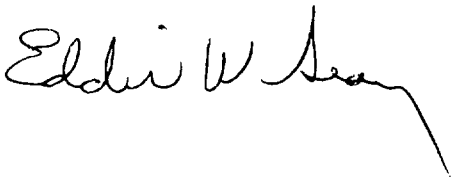
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4006 Beltline Road
Suite 290
Dallas, TX 75224

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Hobbs, NM 88240
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August 2, 1994

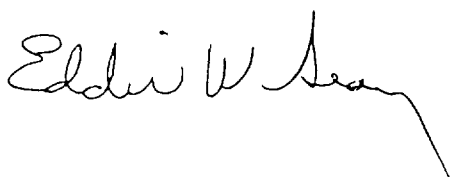
WJC Inc.
P.O. Box 7
Post, NM 79356

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AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, Kathi Bearden

General Manager

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

of _____

one _____ weeks.

Beginning with the issue dated

August 5, 19 94

and ending with the issue dated

August 5, 19 94

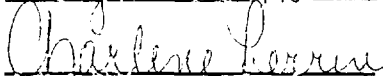


General Manager

Sworn and subscribed to before

me this 9 day of

August 19 94



Notary Public.

My Commission expires
March 15, 1997

(Seal)

LEGAL NOTICE

August 5, 1994

Pursuant to the rules and regulations of the State of New Mexico, Oil Conservation Division, Santa Fe, NM, notice is hereby given that Rand Oil & Gas Inc. is filing an application to convert their Summers #1 Unit B, 660/FNL 1980/FEL Sect. 18 Tws. 17 Range 39 E., Lea Co., NM, from a shut-in producer to a salt water disposal well. The source of injection will be produced water injecting approximately 1500 bls, per day at #800 pressure into the Grayburg, San Andres and Yeso formations at a depth of 4950' to 8900'. If any further information is needed, please contact Eddie Seay, 601 W. Illinois, Hobbs, NM (505) 392-2236.

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