UIL CUNSCHVATION DIVISION POST OFFICE BOX 2008 STATE LAND OFFICE BUILDING

FURM C-108 Revised 7-1-81

	SANTA FE. NEW MEXICU 8/501	OE 3 1 9 19:
APPLIC	CATION FOR AUTHORIZATION TO INJECT	White a start interest
I.	Purpose: Secondary Recovery Pressure Maintenance Disposal Application qualifies for administrative approval? Xyes Inc	Storage, og
II.	Operator: Nassau Resources, Inc.	
	Address: 650 So. Cherry St., Suite 1225; Denver, CO 80:	222
	Contact party: Gary J. Johnson Phone: 303-321-211	<u>L</u>
III.	Well data: Complete the data required on the reverse side of this form for ea proposed for injection. Additional sheets may be attached if nece	
IV.	Is this an expansion of an existing project? yes no If yes, give the Division order number authorizing the project	· · · · · · · · · · · · · · · · · · ·
٧.	Attach a map that identifies all wells and leases within two miles of any proping injection well with a one-half mile radius circle drawn around each proposed iwell. This circle identifies the well's area of review.	osed njection
* VI.	Attach a tabulation of data on all wells of public record within the area of penetrate the proposed injection zone. Such data shall include a description well's type, construction, date drilled, location, depth, record of completion a schematic of any plugged well illustrating all plugging detail.	of each
VII.	Attach data on the proposed operation, including:	
	 Proposed average and maximum daily rate and volume of fluids to be injoint whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibiling the receiving formation if other than reinjected produced water; and injection is for disposal purposes into a zone not productive of oing at or within one mile of the proposed well, attach a chemical analyst the disposal zone formation water (may be measured or inferred from literature, studies, nearby wells, etc.). 	ty with I I or gas is of
·VIII.	Attach appropriate geological data on the injection zone including appropriate detail, geological name, thickness, and depth. Give the geologic name, and de bottom of all underground sources of drinking water (aquifers containing water total dissolved solids concentrations of 10,000 mg/l or less) overlying the prinjection zone as well as any such source known to be immediately underlying tinjection interval.	pth to s with oposed
IX.	Describe the proposed stimulation program, if any.	
≻ , X.	Attach appropriate logging and test data on the well. (If well logs have been with the Division they need not be resubmitted.)	filed
xI.	Attach a chemical analysis of fresh water from two or more fresh water wells (available and producing) within one mile of any injection or disposal well sho 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 or any other hydrologic connection between the disposal zone and any undergrous source of drinking water.	faults
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 to the best of my knowledge and belief.	and correct
	Name: Gary J. Johnson Title Petroleum Engin	eer
•	Signature: Jary (Johnson Date: 14 December 1	988
submi	he information required under Sections VI, VIII, X, and XI above has been previo itted, it need not be duplicated and resubmitted. Please show the date and circ he earlier submittal.	usly umsta nce

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

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

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

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

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

	1 1		
CEMENTED X X X X X X X X X X X X X X X X X X X		133/8" 133/8"	FIELD: <u>UNDESIGNATED</u> ENTRADA POOL: <u>ENTRADA</u> LEASE: <u>NM 30016</u> WELL NO.: <u>CARRACAS UNIT 27A-82</u> LOCATION: <u>1650</u> 'FN L, <u>990</u> 'FE L UNIT LETTER: <u>H</u> QQ: <u>SENE</u> SEC: <u>27</u> T: <u>32N</u> R: <u>05W</u> COUNTY: <u>RIO ARRIBA</u> STATE: <u>NM</u> ELEVATION: <u>7/75</u> GL, <u>7/87</u> KB TD: <u>10,000' ±</u> PBTD: SURFACE CASING: <u>13³/8"</u> 54.5 #/ff
Surface X		295/8"	J-55 set @ 3/9' KB' W/ 38.5 Sacks Class'B' W/ 2% CaC/2 HOLE SIZE: /7/2"
X X X		770	INTERMEDIATE CASING: 95/8" 40# 4 43.5 #/ff to be set @ 4/00't
X		2 LINER	HOLE SIZE: /2/4"
[3]		HANGER @ 3900'	PRODUCTION CASING:
'凶	x	△ 4100' ±	HOLE SIZE:
To Be Cemented to Liner top	X	ユフ ″	LINER: 7": 23, 26 \$ 29 #/ff, N-80 to be set @ 10,000 ± w/ to p @ 3900' ± HOLE SIZE: 83/4" CEMENT STAGE 1 @: 4100' W/ 555 Sacks 65/35 POZMIX w/ 12%
	X X X		gel + 338 sacks 50/50 POZMIX WI 290 gel and 6/4 #/sk gilsonite CU FT: 1924
	X X X	3½"	CEMENT STAGE 2 0: 10,000 W/33.5 Sacks 65/35 Pozmix W/1290 gel + 325 sacks 50/50 Pozmix W/ 290 gel and 6/4 #/sk gilsonite CU FT: /330
		BAKER LOK-SET PACKER	CEMENT STAGE 3 0:W/
	x x		CU FT:
	× ×	10,000'	COMPLETION, WELL HISTORY, TOPS ON BACK
	TD= 10,000'±	•	

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III. WELL DATA

A.

1. Lease Name: NM30016

Well Name: Carracas Unit 27A-82 PWD

Location: 1650' FNL, 990' FEL, Section 27, T32, R5W

Rio Arriba County, New Mexico

2. Surface Casing: 13-3/8", 54.5 #/ft., set @ 319'KB with 385 sacks Class B cement with 2% CaCl2, in 17-1/2" hole, Cement was circulated to surface.

Intermediate Casing: 9-5/8", 40 #/ft. and 43.5 #/ft., N-80 New casing set @ 4100' KB with 555 sacks 65/35 Pozmix w/ 12 % gel and 338 sacks 50/50 Pozmix w/ 2% gel and 6-1/4 #/sack Gilsonite in 12-1/4" hole. Cement will be circulated to surface.

Production Casing/Liner: 7", 23, 26, and 29#/ft. N-80 set at 10,000' with top at 3900' to be cemented with 335 sacks 65/35 Pozmix w/ 12% gel and 325 sacks 50/50 Pozmix w/ 2% gel and 6-1/4 #/sack gilsonite in 8-3/4" hole. Cement will be circulated to the liner top.

- 3. Tubing to be used: 3-1/2", 9.3 #/ft., EUE Seamless tubing lined with TK-69 thin film and set at 9700'.
- 4. Packer: 7" Baker Lok-Set to be set at 9700'.

В.

1. Injection Formation: Entrada and Morrison

Field and Pool Name: Undesignated Entrada, Undesignated

Morrison

2. Injection Interval: Perforations to be determined from log and drillstem test data.

Injection zones expected at 9700'-

10,000'.

3. Oxiginal Purpose of Well: Well is being drilled as a

Water disposal well.

4. Other Perforations: None

5. Depth to Next Oil or Gas Zone: Lower = none

Higher = Dakota @ approx.

8000'.

IX. Proposed Stimulation Program:

A. It is anticipated that both prospective disposal zones will be fractured to facilitate injection. Since the zones have not yet been penetrated, the exact details of the fracs are pending log and geologic data. It is anticipated that both fracs will be a linear gel type with sand concentrations approaching 2 pounds per gallon.

X. Well Logs and Test Data:

- L. L copy of the original well logs will be submitted when the well is logged.
- B. It is planned to drillstem tests the Entrada Formation in this well during drilling operations. A swab test of the formation may also be performed upon completion to establish productivity and injectivity.

XI. Fresh Water Analysis:

A. There are no fresh water wells from which to take samples within one mile of the proposed disposal well.

XII. Statement on Evidence of Faulting:

The applicant, Nassau Resources, Inc., has examined all geologic and engineering data available and finds no evidence of faulting or fracturing which could cause hydrologic connection between the Entrada disposal zone and the Ojo Alamo fresh water zone.

XIII. Proof of Notice: Attached.

- V. Map of wells and leases within 2 miles: Attached
- VI. Wells of public record that penetrate proposed injection zones within Area of Review (1/2 mile radius of well): None

VII. Proposed Operations:

- A. It is proposed to drill to approximately 10000' and complete the well in the Jurassic Entrada formation for disposal of produced water from the Fruitland Coal formation. If necessary to achieve desired injectivity, the well will be additionally completed in the Jurassic Morrison formation. Details of the proposed disposal are as follows:
 - Proposed Average Daily Injection Rate: 5,000 BPD Proposed Maximum Daily Injection Rate: 10,000 BPD
 - 2. Open or Closed System: Proposed as Open system.
 - 3. Proposed Average Injection Pressure: 1500 PSI Proposed Maximum Injection Pressure: 3000 PSI
 - 4. Source of Injection Fluid: Fruitland Coal Formation Analysis of Injection Fluid: Attached Compatibility with Receiving Formation: Compatible
 - 5. Analysis of Disposal Zone Water: Attached

VIII. Geologic Data:

- A. Geologic Data on Proposed Injection Zone:
 - 1. Morrison: The Jurassic Morrison formation consists of alternating sandstone and shale beds. The sandstone to be penetrated in this proposed injection well is expected to be light blue, fine grained, very quartzitic with some siltstone.
 - 2. Entrader The Burrassic Entrada formation consists of light colored to red, generally massive eolian and fluvial sandstones. The lower and medial silty units grade into the upper sandy member. The upper member is a massive orange-red, friable, crossbedded, medium to coarse grained, well sorted sandstone. Thickness is approximately 200 feet.
- B. Underground Sources of Drinking Water:
- 1. Ojo Alamo: The base of the Tertiary Cjc Alamo is expected at 3110' and is the lowest formation in this well that could be a potential source of drinking water. There are no known sources of drinking water below the proposed injection interval.

	5 Stick cement plug	FIELD <u>CARRACAS MESA WAIT</u> POOL <u>BASIN DAKOTA LEASE NM 0 2854 (Expira</u> WELL NO. <u>Be/co</u> /-26
	5 Szen Cement Plug between 4/2" \$ 103/4"	LOCATION 1040 'FML 1040 'FML UNIT D SEC 26 T 32N R 05W QQ NWNW COUNTY Rio Arriad STATE NM ELEVATION GL 7118' KB TOTAL DEPTH 1833' PLUG DEPTH 8461. *
	3/8'	SURFACE CASING 11 . its 10 3/4" H-40. 32.75 * Act @ 318' KB W/ 300 SXS Leg W/ 270 Cacl-
		HOLE SIZE 15"
		PRODUCTION CASING 277 16, 4 1/2", 11.60". N-80 act @ 8833" x8
		HOLE SIZE 8 3/4"
		LINER
1		
		CEMENT STAGE 1 8 8833' W/ 140 SX 50-50 Por w/ 670 ge/ + 230 SK 50-50 Por w/
		CEMENT STAGE 2 @W/
		CEMENT STAGE 3 8 W/
	ALC OMT TOP @ 800'	
		PRESENT COMPLETION NA PYA
		Tops: Dakota 8578 Morrison 8750
	8461'- set pkr - squeeved all perfs my 75 3x peg.	TUBING
swab 6 kms - all water. fluid staged	8581'-83' EACH 2016 broke down w/ 100 gal 7/27.	PUMP UNIT_
	FRACE All W/ 32,616 gais water w/ 300 CF CO2/bbl + 20,000	PRIME MOVER UNIT SHEAVE MOTOR SHEAVE STROKE LENGTH SPM
10 WTR - T STM JE	8668'- 72'	
abute - ratmges	8727'-31'	cale cement top @ 8000'-
ENTERED	€ 6770'	Baker CI 8P @ 8829'
PERFS SQED W SO EX	# \$806'-10' 45PF ACIDITED W/ # 8816'-20' 45PF SWED 10 hrs NO RATE REA	200 gal 71/2 % Mud Acid w) fluid staying @ 1000'-ALL WATER
	BALER CI BP@ 8829'	
TP: (838'	- 8133'	

API WATER ANALYSIS REPORT FORM

Field Lease of Unit	J. F. 1	McKuch			Sample No.	Date Sampled
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Produced, Supply, etc.) Sampling Point	C.	6		Depth	1	
C.) \$\lambda \circ \frac{\lambda \circ \ci	Type of Water (Proc	duced, Supply, etc.)		l'oint	1	
C.) \$\frac{\lambda 2 \frac{2}{\lambda 2 \frac{2}{\l	PISSOLVED SOLIDS	3		OTHER I	PROPERTIES	
C) \$2.57	CATIONS	1/614	me/l	pH Specific Gr	Savity, 60/60 F.	7.40
National	Sodium, Na (cale.) Calcium, Ca Magnesium, Mg	27	187.3.	Resistivity	(chm-meters) 73	F
STANDARD No this this this this this this this this	Barwin, Ba			Maryamana gupa vila ang ang ang ang ang ang ang ang ang an	WATER PATTERN	18 - mc/l
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	REMARKS & RECON	MMENDATIONS:		cei cei	ž	ioi

FIELD RECEIPT NO.

API FORM 45-1

API WATER ANALYSIS REPORT FORM

Company / C	Hugh	Sample No.	Date Sampled
Field	Legal Descript	ion County or F	arish State
Lease or Unit	CU 34A#5	Depth Formation	Water, B/D
Type of Water	(Produced, Supply, etc.) Sam	pling Point	Sampled By

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (cale.)	4033	176.19
Calcium, Ca	<u> 50</u>	2.80
Magnesium, Mg	24_	2.0
Barium, Ba		-12.00
Potassium, K	_35_	0.90

ANIONS	,	
Chloride, Cl	4011	112.98
Sulfate, SO4		0
Carbonate, COa		
Bicarbonate, ECOx	4203	68.91
	·	

Total Dissolved Solids (calc.)

12,364

Iron, Fe (total) Sulfide, as HaS

neg

REMARKS & RECOMMENDATIONS:

OTHER PROPERTIES

p II	· <u>7.83</u>
Specific Gravity, 60/60 F.	1.010
Specific Gravity, 60/60 F. 73°. Resistivity (ohm-meters) F.	. 73
Total hardness	240

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ANALYST Jacque Dehart

THE WESTERN COMPANY OF NORTH AMERICA, FARMINGTON, NM (505) 327-6222

Please refer any questions to: Clay Terry, District Engineer

Jerome P. McHugh
Farmington, N.M.

AUG 1 2 1988

RECEIVED

The Morrison and Entrada sandstones are not productive of oil and gas within the prescribed one mile radius. Water analyses are not available in the immediate vicinity. The following tabulation gives total dissolved solids on several wells which have penetrated the Morrison and Entrada formations.

Well Name & No.	Location	Date Tested	TDS
MORRISON			
Jicarilla 123 C #29 Hubbell #5E Huerfano Unit #270	NW 5-25-4 NW 17-29-10 SW 7-26-10	10-29-82 5-29-81 7-25-80	24,834 19,442 13,474
ENTRADA			
Filon #21-1 Federal Dome #20-1 Santa Fe	SW 21-20-5 NE 20-21-8	8-20-76 2-10-77	10,726 11,114

RECEIPT FOR CERTIFIED MAIL

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Dugan Production Corp

Piretord Box 5820

NO INSURANCE COVERAGE PROVIDED NOT FOR INTERNATIONAL MAIL

(See Reverse)

500 5000 S. Quebec, Suite Celeste Grynberg Grynberg Petroleum

Denver, C0 80237 Postage

Special Delivery Fee Certified Fee

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Return Receipt showing to whom and Date Delivered

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Restricted Delivery Fee

Special Delivery Fee

Certified Fee

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Postage

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PS Form 3800, June 1985

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Farmington, NM

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Mersdian Oil Inc

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Date, and Adg

MCHUGH

Jerome P. McHugh & Associates Operating Affilliate: Nassau Resources, Inc. 650 South Cherry, Suite 1225 Denver, Colorado 80222 (303) 321-2111 FAX (303) 321-1563

December 13, 1988

CERTIFIED - Return Receipt Requested

U. S. Department of the Interior Bureau of Land Management P. O. Box 1449 Santa Fe, New Mexico 87504-1449

Amoco Production Company
P. O. Box 800
1670 Broadway
Denver, Colorado 80201
Attention: Production Department

Meridian Oil Inc.
P. O. Box 4289
Farmington, New Mexico 87499-4289
Attention: Production Department

Mrs. Celeste Grynberg Grynberg Petroleum 5000 S. Quebec, Suite 500 Denver, Colorado 80237

Dugan Production Corp.
P. O. Box 5820
Farmington, New Mexico 87499
Attention: Mr. Richard Corcoran

Re: Water Disposal Well
NE/4 Sec. 27-T32N-R5W
Rio Arriba County, New Mexico

Gentlemen:

Nassau Resources, Inc. is proposing to drill and equip an approximate 10,000' Entrada well for the purpose of injecting disposal water into said Entrada formation. The location of the well is 1650' FNL and 990' FEL in Section 27-T32N-R5W.

Enclosed is a copy of a legal advertisement that was placed in the Rio Grande Sun of Espanola, New Mexico on November 24, 1988.

U. S. Department of the Interior, et al December 13, 1988 Page Two

Any party wishing to file an objection or request for hearing should do so within fifteen (15) days of the date of this letter with the New Mexico Oil Conservation Division in Santa Fe.

Any questions concerning this notice should be directed to Mr. Gary Johnson of this office.

Very Truly Yours,

Kent C. Craig

KCC/rc

enclosure

PROOF-OF-NOTICE

Published November 24, 1988 in
Rio Grand Sun
238 No. Railroad Avenue
P.O. Box 790
Espanolo, NM 87532

APPLICATION FOR

WATER DISPOSAL WELL Nassau Resources, Inc. proposes to drill a water disposal well located 1650 feet from the North line, 990 feet from the East tine in Section 27-T32N-R5W, Rio Arriba County, New Mexico. The well will be drilled to the Entrada formation at a depth of 10,000 feet with water being injected at a maximum rate not to exceed 10,000 BW/day with a maximum pressure of 3500 p.s.l. Any interested party should file an objection or request for hearing within 15 days from date of this netice with:

New Mexico Oil Conservation Division, 310 Oil Santa Fe Trail, Room 206, Santa Fe, New Mexico 87503

Any questions concerning this notice should be directed to:

Mr. Gary Johnson, Nassau Resources, Inc., 650 South Cherry Street, Suite 1225, Denver, Colorado 80222, (303) 321-2111.

(303) 321-2111.

This notice supercedes and replaces the notice that was previously advertised in this paper on Thursday, November 17, 1988.

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