

6 BLM

1 DE

1 File

1 Amoco

1 FS

Form 3160-3  
(November 1983)  
(formerly 9-331C)

SUBMIT IN TRIPPLICATE\*  
(Other instructions on  
reverse side)

Form approved.  
Budget Bureau No. 1004-0136  
Expires August 31, 1985

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK:

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☐GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

NASSAU RESOURCES, INC.

## 3. ADDRESS OF OPERATOR

P O BOX 809, Farmington, N.M. 87499

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

1650' FNL - 810' FEL

At proposed prod. zone

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

± 16 miles E SE of Arboles, CO.

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drilg. unit line, if any)

810'

## 16. NO. OF ACRES IN LEASE

2,522.12

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

N/320.0

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED, (proposed)  
OR APPLIED FOR, ON THIS LEASE, FT.

1/2 mile

## 19. PROPOSED DEPTH

3610'

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6775' GL; 6788' KB

DRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH ATTACHED  
"GENERAL REQUIREMENTS".

## 22. APPROX. DATE WORK WILL START\*

8/15/89

## 23. PROPOSED CASING AND CEMENTING PROGRAM

This action is subject to technical and  
procedural review pursuant to 43 CFR 3165.3  
and appeal pursuant to 43 CFR 3165.4.  
QUANTITY OF CEMENT

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	300'	165 cu.ft. circ. to surface
8-3/4"	5-1/2"	15.5#	3610'	1370 cu.ft. circ. to surface

Plan to drill with spud mud to set 300' of surface casing. Will then drill with water and gel-chem. mud to test the Fruitland coal zone at ± 3610'. Will run IES, CDL and Microlog logs. If well appears productive, will set 5-1/2" casing at TD, cement in 1 stage, selectively perforate, frac, clean out after frac and complete with 2-7/8" tubing.

RECEIVED

MAR 07 1990

OIL CON. DIV./  
DIST. 3

GAS IS NOT DEDICATED.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

James S. Hazen

TITLE

Field Supt.

DATE

7/5/89

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED  
AS AMENDED

APPROVED BY

TITLE

DATE

MAR 02 1990

CONDITIONS OF APPROVAL, IF ANY:

AREA MANAGER

NMOCD

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001 makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Submit to Appropriate  
District Office  
State Lease - 4 copies  
Fee Lease - 3 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

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

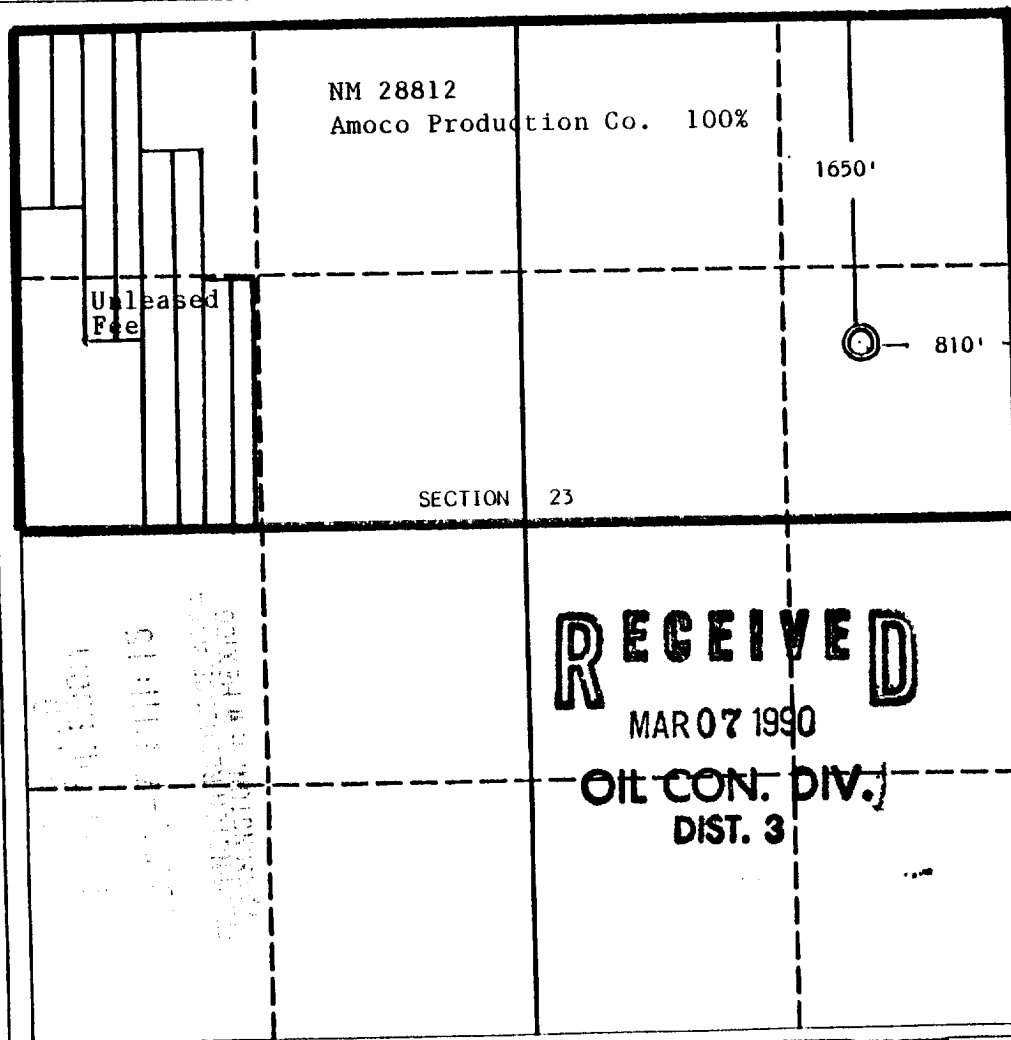
DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Nassau Resources, Inc.			Lease Carracas Unit 23 B		Well No. 8
Unit Letter H	Section 23	Township 32 North	Range 4 West	County Rio Arriba	
Actual Footage Location of Well: 1650 feet from the North line and 810 feet from the East line					
Ground level Elev. 6775	Producing Formation Fruitland Coal		Pool Basin Fruitland Coal		Dedicated Acreage: 320.0 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?  
☐ Yes ☐ No If answer is "yes" type of consolidation Will be consolidated.  
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)  
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

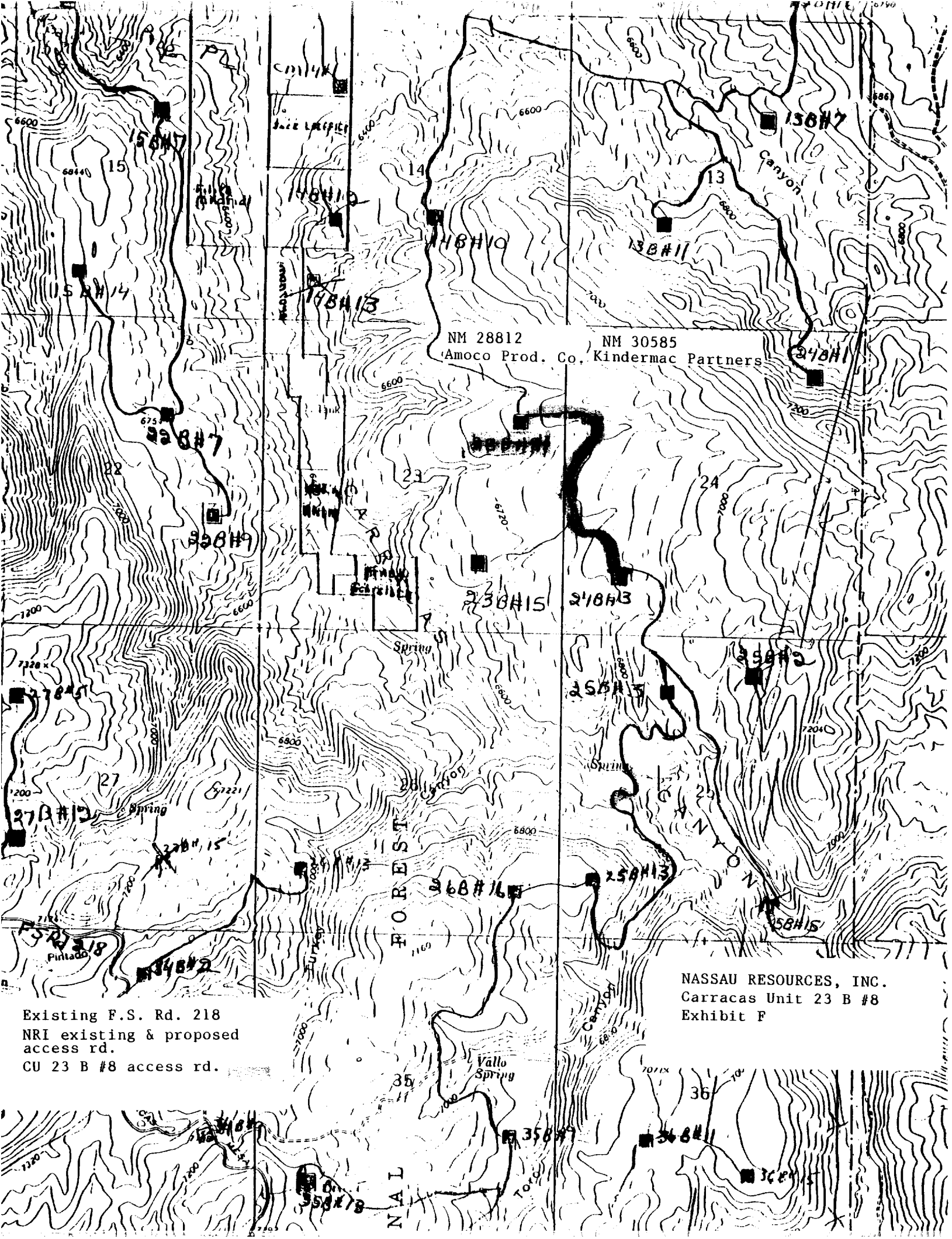
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature  
Printed Name  
James S. Hazen  
Position  
Field Supt.  
Company  
Nassau Resources, Inc.  
Date  
7/5/89

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
March 30, 1990  
Signature & Seal  
Professional Surveyor  
Edgar L. Risenhoover  
Certificate No.  
5279  
Edgar L. Risenhoover



NM 28812

NM 30585

Amoco Prod. Co.

Kindermac Partners

NASSAU RESOURCES, INC.  
Carracas Unit 23 B #8  
Exhibit F

Existing F.S. Rd. 218  
NRI existing & proposed  
access rd.  
CU 23 B #8 access rd.



Jerome P. McHugh & Associates  
Operating Affiliate: **Nassau Resources, Inc.**  
P O Box 809, Farmington, NM 87499-0809  
(505) 326-7793 Fax (505) 327-0859

June 9, 1990

New Mexico Oil Conservation Division  
1000 Rio Brazos Rd.  
Aztec, NM 87410

RE: NASSAU RESOURCES, INC.  
Carracas Unit 23 B #8  
Unit H, Sec. 23, T32N, R4W, NMPM  
Rio Arriba County, NM

**RECEIVED**  
JUL 10 1990  
OIL CON. DIV./  
DIST. 3

Gentlemen:

I hereby certify that deviation surveys were run on the captioned well as listed below.

1/2° at 164'	3/4° at 1715'	1-1/2° at 3143'
1/4° at 320'	1° at 2022'	2-1/4° at 3297'
3/4° at 532'	1° at 2332'	2° at 3388'
1/2° at 748'	1-1/2° at 2646'	1-3/4° at 3510'
3/4° at 1010'	1-3/4° at 2803'	2° at 3695'
3/4° at 1352'	2° at 2988'	2-3/4° at 3851'

Sincerely,

Murphy Brasuel  
Field Foreman

cm

State of New Mexico     )  
County of San Juan     )     ss

Subscribed and sworn to before me this 9th day of June, 1990.



OFFICIAL SEAL  
**FRANCES PERRIN**  
NOTARY PUBLIC - NEW MEXICO  
Notary Bond Filed with Secretary of State  
My Commission Expires 5-15-90

Frances Perrin  
Notary Public

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE\*  
(Other instructions on re-  
verse side)

Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		7. UNIT AGREEMENT NAME Carracas Unit
2. NAME OF OPERATOR NASSAU RESOURCES, INC.		8. FARM OR LEASE NAME Carracas Unit 23 B
3. ADDRESS OF OPERATOR P O Box 809, Farmington, N.M. 87499		9. WELL NO. #8
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1650' FNL - 810' FEL		10. FIELD AND POOL, OR WILDCAT Basin Fruitland Coal
14. PERMIT NO.		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 23 T32N R4WNPMP
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6775' GL		12. COUNTY OR PARISH Rio Arriba
		13. STATE NM

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) Spud, 9-5/8" csg., cement, test X	
(Other) <input type="checkbox"/>			
(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*			

Moved in and rigged up with Four Corners Drilling Rig #9.  
Spudded at 9:30 pm on 6-28-90.  
Ran 7 jts. of 9-5/8", 36# casing.  
Set at 329' KB.  
Cemented as follows:  
190 sk of Class "B" with 2% CaCl. (222 cu.ft.)  
Circulated 4 bbls. to surface. Waited on cement for 12 hours.  
Plug down at 5:15 am on 6-29-90.  
Pressure tested for 30 minutes at 600 psi. Held okay.

RECEIVED  
JUL 16 1990  
OIL CON. DIV.  
DIST. 3

18. I hereby certify that the foregoing is true and correct

SIGNED Fran Perrin

TITLE Admin. Asst.

DATE 7/2/90

(This space for Federal or State office use)

APPROVED BY  
CONDITIONS OF APPROVAL, IF ANY:

TITLE

ACCEPTED FOR RECORD

JUL 11 1990

FARMINGTON RESOURCE AREA

\*See Instructions on Reverse Side

NMOCD

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
(Other instructions on re-  
verse side)

Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME Carracas Unit	
2. NAME OF OPERATOR NASSAU RESOURCES, INC.		8. FARM OR LEASE NAME Carracas Unit 23 B	
3. ADDRESS OF OPERATOR P O Box 809, Farmington, N.M. 87499		9. WELL NO. #8	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1650' FNL - 810' FEL		10. FIELD AND POOL, OR WILDCAT Basin Fruitland Coal	
14. PERMIT NO.		15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6775' GL	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 23, T32N, R4WNMPM		12. COUNTY OR PARISH Rio Arriba	
		13. STATE NM	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETION

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON\*

SHOOTING OR ACIDIZING

ABANDONMENT\*

REPAIR WELL

CHANGE PLANS

(Other) TD, 5-1/2" csg., cement

(Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Reached TD of 3880' on 7/4/90.

Ran 94 jts. of 5-1/2", 15.5#, J-55, 8 RD, LT&C casing.

Set at 3879' KB.

Cemented as follows:

10 bbls. mud flush

426 sk of 65/35 poz w/ 12% gel and 1/4#/sk flocele (1116 cu.ft.).

100 sk of 50/50 poz w/ 2% gel, 6-1/4#/sk gilsonite, and 1/4#/sk flocele (139 cu.ft.).

Total of 1255 cu.ft.

Centralizers on jt. #1, #3, #5, #7, #9, #11, #13, #15.

Maximum pressure 650 psi.

Maximum rate 7 bpm.

Bump plug w/ 1300 psi.

Full returns throughout job.

Circulated 40 bbls. of cement to surface.

Plug down at 3:00 pm on 7/5/90.

Set slips and released rig at 5:30 pm on 7/5/90.

RECEIVED

JUL 31 1990

OIL CON. DIV.  
DIST. 3

18. I hereby certify that the foregoing is true and correct

SIGNED

Fran Perrin

TITLE Admin. Asst.

DATE 7/9/90

(This space for Federal or State office use)

APPROVED BY

TITLE

ACCEPTED FOR RECORD

DATE

CONDITIONS OF APPROVAL, IF ANY:

JUL 24 1990

\*See Instructions on Reverse Side

FARMINGTON RESOURCE AREA  
BY