



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

1000 RIO HAZAROS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

GARREY CARRUTHERS
GOVERNOR

Date: 8-29-90

Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87504-2088

Mike Hogner

Re: Proposed MC _____
Proposed DHC _____
Proposed NSL X _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

DD 2

I have examined the application dated 8-17-90

for the NASSAU Resources, Inc. Carrasco Unit 258 #13
Operator Lease & Well No.

M-25-32N-4W and my recommendations are as follows:
Unit, S-T-R

Approve

Yours truly,

Ernie Bunch



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

August 16, 1990

New Mexico Oil Conservation Division
Attn: Michael Stogner
P O Box 2088
Santa Fe, New Mexico 87504

RECEIVED
AUG 17 1990
OIL CON. DIV.]
DIST. 3

RE: Application for Administrative Approval of
Directional Drilling
Nassau Resources, Inc., Carracas Unit 25 B #13
Section 25, T32N, R4W, NMPM
Rio Arriba County, New Mexico

Dear Mr. Stogner:

Nassau Resources, Inc., hereby requests administrative approval to directionally drill the subject well as follows:

Proposed Surface Location:	1010' FSL and 580' FWL
Proposed Bottom Hole Location:	1500' FSL and 2400' FWL (within a 100' radius)
True Vertical Depth:	Approx. 4155'
Measured Depth:	Approx. 4874'

This surface location is at a previously approved unorthodox location (OCD Order NSL-2582). The proposed bottom hole location is a standard location for a Basin Fruitland Coal well. Due to topography the well cannot be located more to the north and east, which is a more desirable target, geologically.

This well is in Nassau's Carracas Unit. Amoco, a party to the unit, has been notified of this application. Sections 30 and 31 of T32N, R3W, are unleased Jicarilla Indian minerals and notification is being sent to the BIA, Jicarilla Agency.

Also attached are copies of the approved APD, C-102 plat, a topographic map (showing both the surface and bottom hole locations) and a directional plan.

Please contact me immediately if anything further is required to complete this application.

Thank you,

Fran Perrin

Fran Perrin
Admin. Asst.

xc: Ernie Busch, NMOCD
Amoco Production Co.
Kindermac Partners
BIA, Jicarilla Agency

FP/ck

Attachments

All distances must be from the outer boundaries of the Section.

Operator Nassau Resources, Inc.			Lease Carracas Unit 25 B		Well No. 13
Unit Letter M	Section 25	Township 32 North	Range 4 West	County Rio Arriba	
Actual Footage Location of Well					
1010 feet from the South line and		580 feet from the West line			
Ground Level Elev. 7007	Producing Formation Fruitland	Pool Basin Fruitland Coal		Dedicated Acres 320	

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 interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation Carracas Unit - Unitization

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 interests, has been approved by the Division.

RECEIVED AUG 17 1990 OIL CON. DIV. DIST. 3	
SECTION 25 NM 30585 Kindermac Partners 2400' 580' Proposed surface location 1010' 1500'	Proposed bottom hole location NASSAU RESOURCES, INC. Appl. for Directional Drilling Carracas Unit 25 B #13

CERTIFICATION

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

Fran Perrin

Name

Fran Perrin

Position

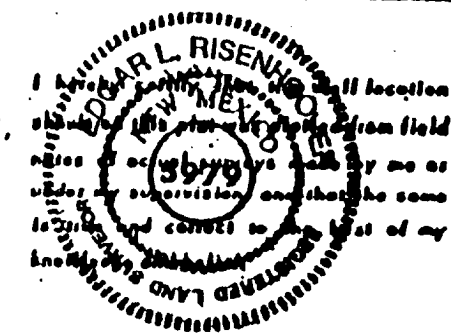
Admin. Asst.

Company

Nassau Resources, Inc.

Date

May 31, 1989



Date Surveyed

July 28, 1988

Registered Professional Engineer
and/or Land Surveyor

Edgar L. Risenhoover

Certificate No. 10020

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

SUBMIT IN THE DATE
(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

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

1010' FSL - 580' FWL

At proposed prod. zone

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

± 32 miles NE. of Gobernador, N.M.

15. DISTANCE FROM PROPOSED*

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

580'

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

3 miles

16. NO. OF ACRES IN LEASE

2,080.0

19. PROPOSED DEPTH

3710'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160.0 320.0

20. ROTARY OR CABLE TOOLS

Rotary

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

7007' GL; 7019' KB

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED

22. APPROX. DATE WORK WILL START*

9/88

23. PROPOSED CASING AND CEMENTING PROGRAM

This action is subject to a final and
procedural review pursuant to 43 CFR 3165.3
and appeal pursuant to 43 CFR 3165.4.

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	250'	150 cu.ft. circ. to surface.
7-7/8"	5-1/2"	15.5#	3710'	803 cu.ft. circ. to surface.

Plan to drill with spud mud to set 250' of surface casing. Will then drill with water and gel-chem. mud to test the Fruitland coal zone at ± 3710'. Will run DIL-GR-SP and FDC-CNL-GR Caliper 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.

GAS IS NOT DEDICATED.

NASSAU RESOURCES, INC.
Appl. for Directional
Drilling
Carracas Unit 25 B #13

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

8/18/88

(This space for Federal or State office use)

Jerome P. McHugh
Farmington, N.M.

PERMIT NO.

APPROVAL DATE

MAY 2 1989

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
AS AMENDED

OPERATOR

*See Instructions On Reverse Side

RECEIVED

MAY 6 1989

AREA MANAGER

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

1. TITLE
SUBMIT IN PROPOSED
(Other Instructions)
VERBALLY

Project Bulletin No. 1001
Expires August 31, 1985
LEASE REGISTRATION AND RENTAL
NH 30585
U. S. INDIAN, ALLOTTEE OR TRIBE NAME

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 ☐ GAS WELL ☒ OTHER ☐
50 APR 25 AM 11:11

2. NAME OF OPERATOR

NASSAU RESOURCES, INC.

3. ADDRESS OF OPERATOR

P.O. Box 809, Farmington, N.H. 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below)
At surface

1010' FSL - 580' FWL

14. PERMIT NO

15. ELEVATIONS (Show whether DF, RT, GN, etc.)

7007' GL

16

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

NOTICE OF INTENTION TO:

TEST WATER SHUT OFF

FRAC TURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

MULTIPLE COMPLETION

ABANDON*

CHANGE PLANT

(Other)

Request extension of APD

XX

SUBSEQUENT REPORT OF:

WATER SHUT OFF

FRAC TURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(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.)

Request extension of Application to Drill due to drilling schedule.

you are requested to submit an updated B.O.P. diagram in accordance
with Onshore Order # 2 before drilling commences.

Jerome P. McIlugh
Farmington, N.H.

NASSAU RESOURCES, INC.
Appl. for Directional
Drilling
Carracas Unit 25 B #13

MAY 14 1990

THIS APPROVAL EXPIRES NOV 01 1990

RECEIVED

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

SIGNED

Fran Perrin

TITLE

Admin. Asst.

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

OPERATOR

*See Instructions on Reverse Side

APPROVED

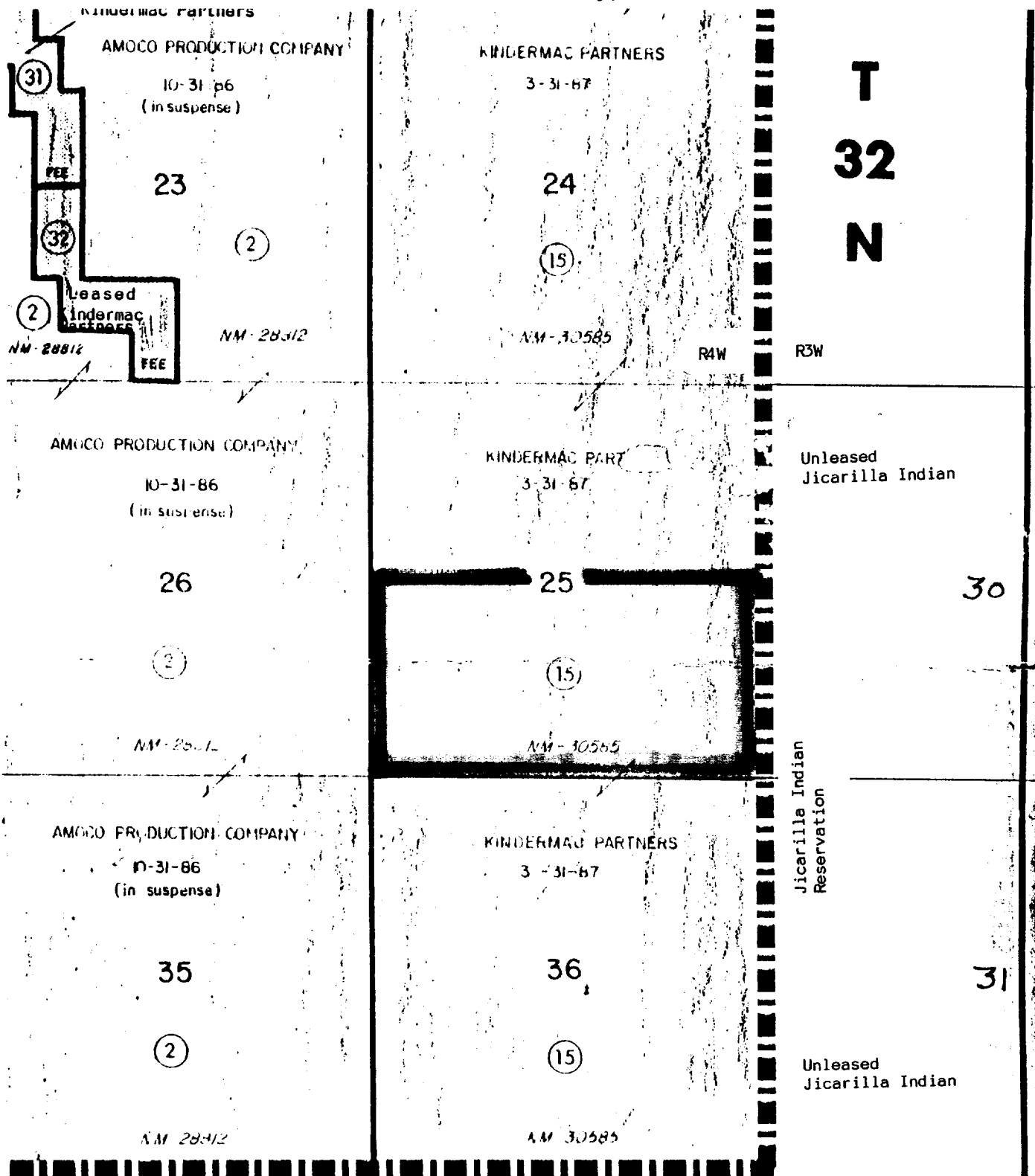
DATE 4/24/90

MAY 07 1990

AREA MANAGER
FARMINGTON RESOURCE AREA

LEASE PLAT

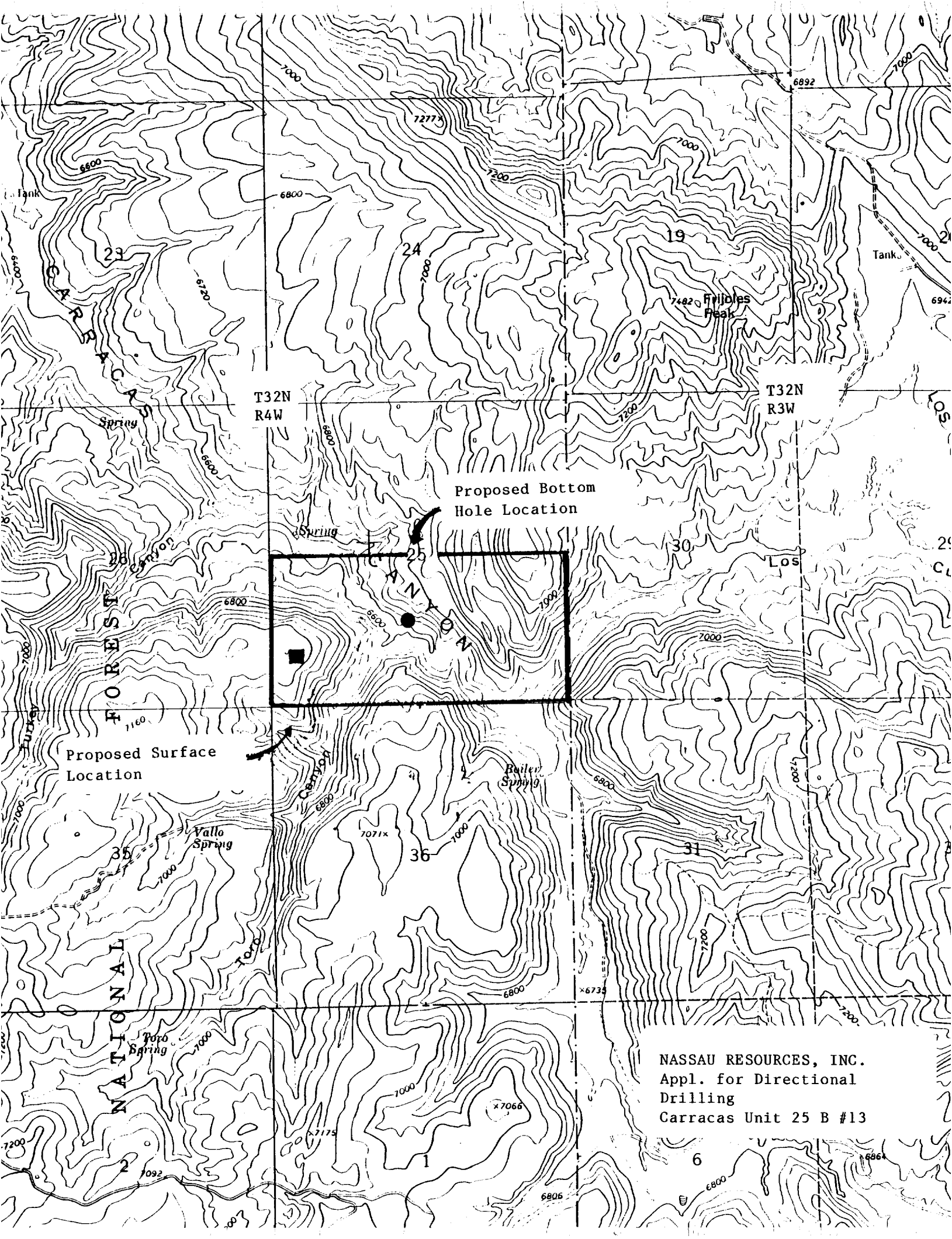
Township 32 North, Range 4 West, NMPM
Rio Arriba County, N.M.



Party to the Unit: Amoco Production Co.
Operating Affiliate: Kindermac Partners

Unleased Jicarilla Indian Minerals:
Sections 30 & 31, T32N, R3W

NASSAU RESOURCES, INC.
Appl. for Directional
Drilling
Carracas Unit 25 B #13



Proposed Bottom
Hole Location

Proposed Surface
Location

NASSAU RESOURCES, INC.
Appl. for Directional
Drilling
Carracas Unit 25 B #13

14

13

18

23

24

19

R3W

R4W

● CU24B#13

● CU25B3

26

25

30

○ Proposed
Bottom hole
Location

1 mile

● CU26B#16

○ Proposed Surface Location

CU

35

36

● CU36B#11

JICARILLA INDIAN
RESERVATION

31

NASSAU RESOURCES, INC.
Appl. for Directional
Drilling
Carracas Unit 25 B #13

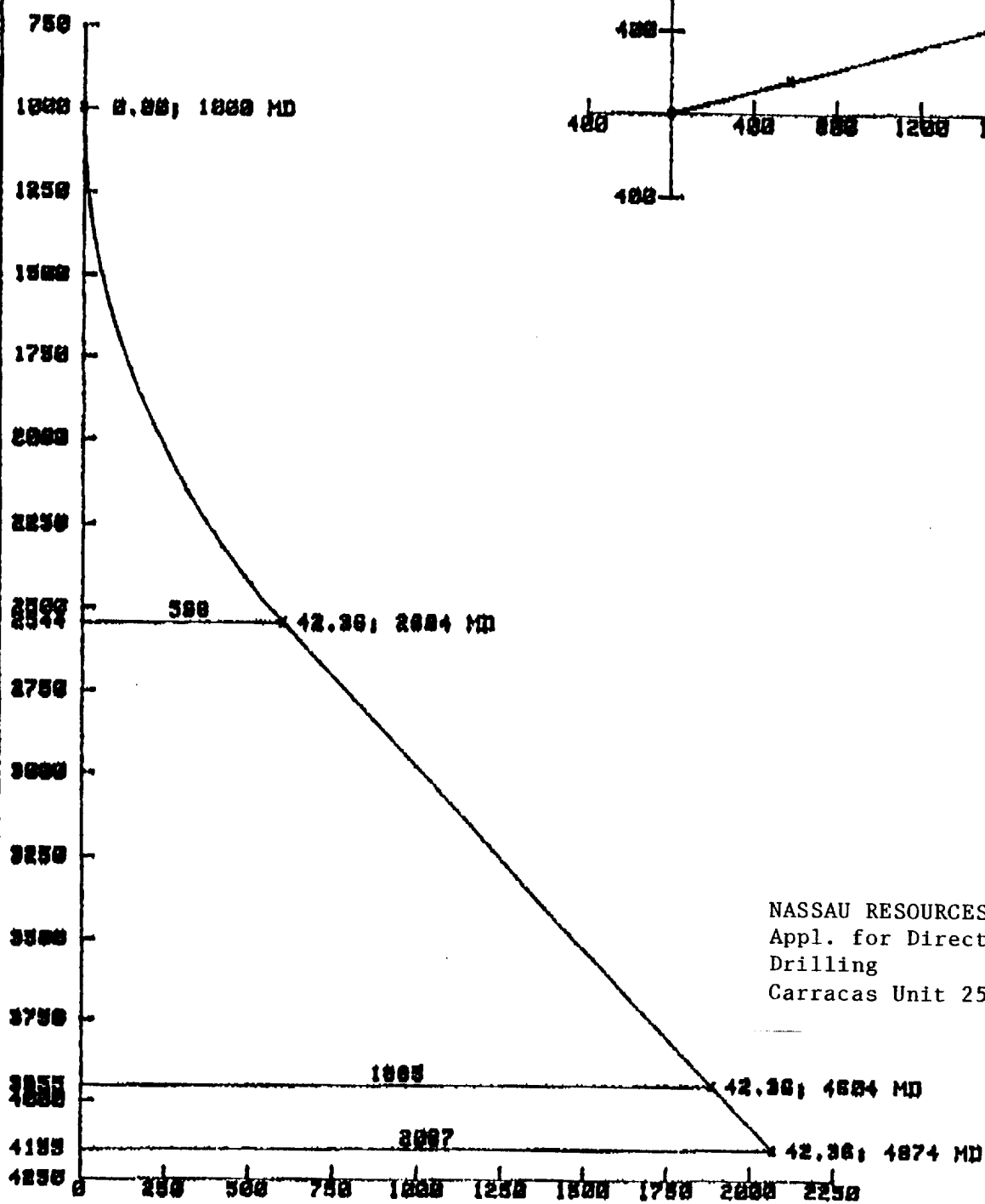
NASSAU RESOURCES
CARRACUS UNIT #25B-13
SEC 25-T32N-R04W
RIO ARriba COUNTY, NEW MEXICO

9 AUG 1990 @ 13:37



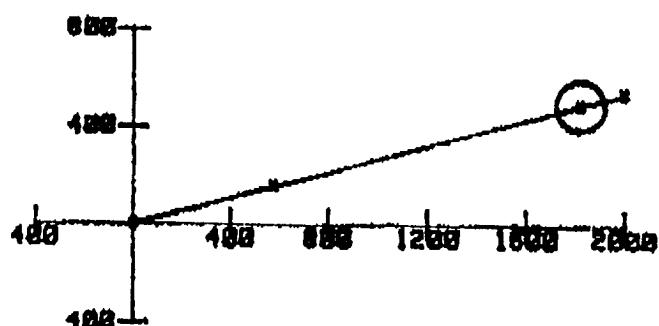
VERTICAL PLAN

SCALE: 250 FEET/DIVISION



HORIZONTAL PLAN

SCALE: 400 FEET/DIVISION



NASSAU RESOURCES, INC.
Appl. for Directional
Drilling
Carracas Unit 25 B #13

VERTICAL SECTION PLANE: N 74.93 E

DATADRIL

NASSAU RESOURCES
 CARRACUS UNIT #25B-13
 SEC 25-T32N-R04W
 RIO ARRIBA COUNTY, NEW MEXICO

FILE NAME: NASS25B13P

***** RECORD OF PROPOSAL *****

RADIUS OF CURVATURE METHOD
 PROPOSAL COMPUTED BY THE DATADRIL CADDS SYSTEM
 VERTICAL SECTION PLANE: N 74.93 E

MEASURED DEPTH (FT)	COURSE LENGTH (FT)	INCL. ANGLE (DEG)	D R I F T DIRECTION (DEG)	TRUE VERTICAL DEPTH	T O T A L RECT COORDINATES (FT) (FT)		VERTICAL SECTION (FT)	DOGLEG SEVERITY (DEG/100')
0.00	0.00	0.00	N 74.93 E	0.00	0.00 N	0.00 E	0.00	0.00
START OF BUILD #1								
1000.00	1000.00	0.00	N 74.93 E	1000.00	0.00 N	0.00 E	0.00	0.00
1100.00	100.00	2.50	N 74.93 E	1099.97	.57 N	2.11 E	2.10	2.50
1200.00	100.00	5.00	N 74.93 E	1199.75	2.27 N	8.42 E	8.72	2.50
1300.00	100.00	7.50	N 74.93 E	1299.14	5.10 N	18.93 E	19.61	2.50
1400.00	100.00	10.00	N 74.93 E	1397.97	9.05 N	33.62 E	34.82	2.50
1500.00	100.00	12.50	N 74.93 E	1496.04	14.12 N	52.46 E	54.33	2.50
1600.00	100.00	15.00	N 74.93 E	1593.17	20.50 N	75.41 E	78.09	2.50
1700.00	100.00	17.50	N 74.93 E	1689.17	27.98 N	102.43 E	106.07	2.50
1800.00	100.00	20.00	N 74.93 E	1783.85	35.93 N	133.46 E	138.21	2.50
1900.00	100.00	22.50	N 74.93 E	1877.05	45.35 N	168.46 E	174.46	2.50
2000.00	100.00	25.00	N 74.93 E	1968.57	55.82 N	207.34 E	214.73	2.50
2100.00	100.00	27.50	N 74.93 E	2058.25	67.52 N	250.05 E	258.95	2.50
2200.00	100.00	30.00	N 74.93 E	2145.92	79.82 N	296.49 E	307.05	2.50
2300.00	100.00	32.50	N 74.93 E	2231.40	93.31 N	346.58 E	358.92	2.50
2400.00	100.00	35.00	N 74.93 E	2314.54	107.75 N	400.22 E	414.47	2.50
2500.00	100.00	37.50	N 74.93 E	2395.18	123.12 N	457.31 E	473.60	2.50
2600.00	100.00	40.00	N 74.93 E	2473.16	139.39 N	517.75 E	536.19	2.50
END OF BUILD #1...START OF HOLD SECTION								
2694.44	94.44	42.36	N 74.93 E	2544.23	155.56 N	577.79 E	596.36	2.50
TARGET LOCATION: 3955 TVD								
4603.68	1909.24	42.36	N 74.93 E	3955.00	490.00 N	1820.00 E	1884.81	0.00

NASSAU RESOURCES, INC.
 Appl. for Directional
 Drilling
 Carracas Unit 25 B #13

DATADRIL

NASSAU RESOURCES
CARRACUS UNIT B25B-13

SEC 25-T32N-R04W
RIO ARRIBA COUNTY, NEW MEXICO

MEASURED DEPTH (FT)	COURSE LENGTH (FT)	INCL. ANGLE (DEG)	D R I F T DIRECTION (DEG)	TRUE VERTICAL DEPTH	T O T A L RECT COORDINATES (FT) (FT)		VERTICAL SECTION (FT)	DOGLEG SEVERITY (DEG/100')
BOTTOM HOLE LOCATION (TD): 4155 TVD								
4874.35	270.67	42.36	N 74.73 E	4155.00	537.41 N	1996.10 E	2067.18	0.00

NASSAU RESOURCES, INC.
Appl. for Directional
Drilling
Carracas Unit 25 B #13