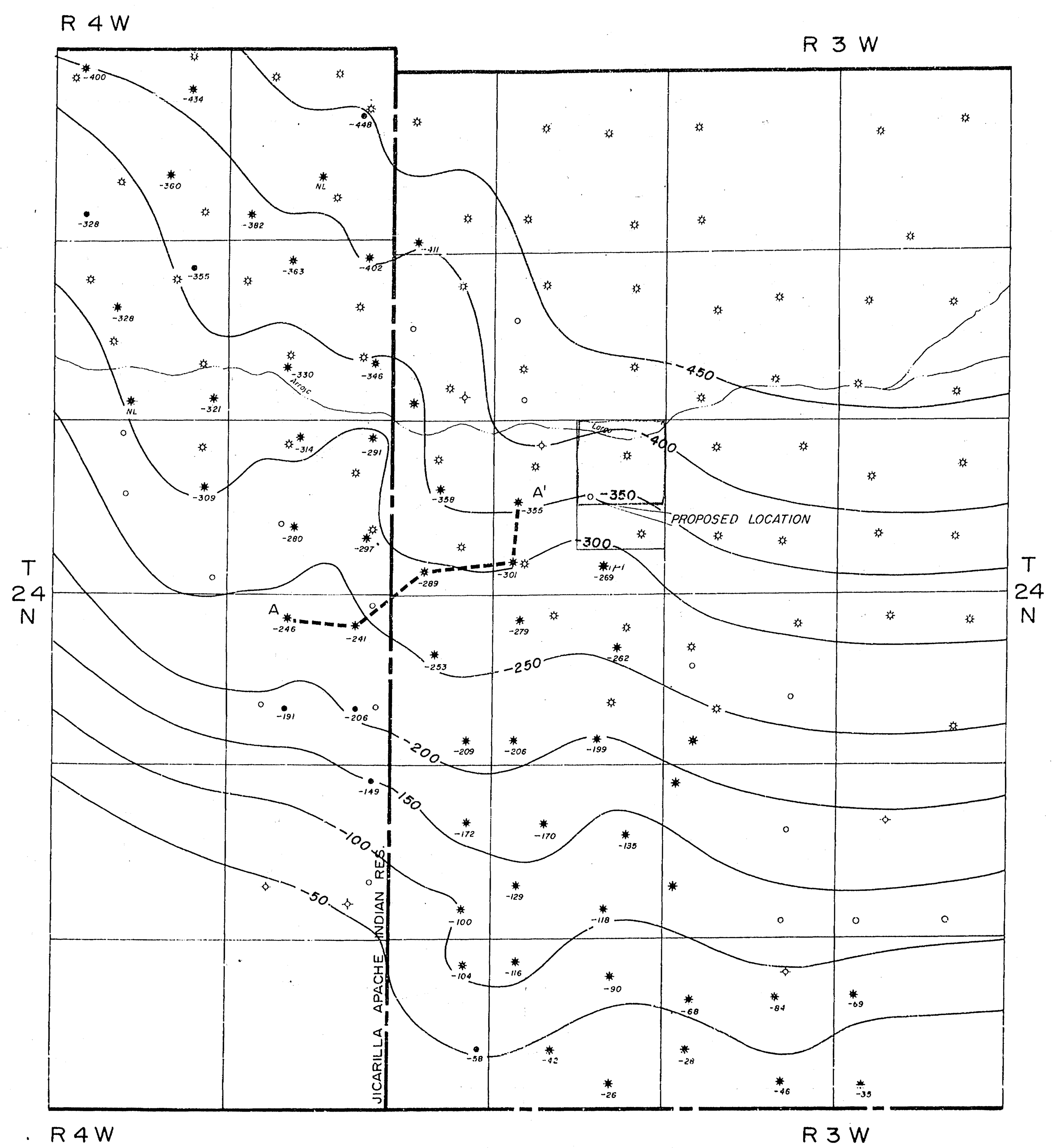
Case No
6966

Large Exhibits



LEGEND

- Oil and Gas Well
- Gas Well
- Oil Well
- Dry Hole
- Location

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
Applicants EXHIBIT NO. 1
CASE NO. 6966

READING & BATES PETROLEUM CO.
ROCKY MOUNTAIN DIVISION

EXHIBIT I

CHACON – DAKOTA AREA

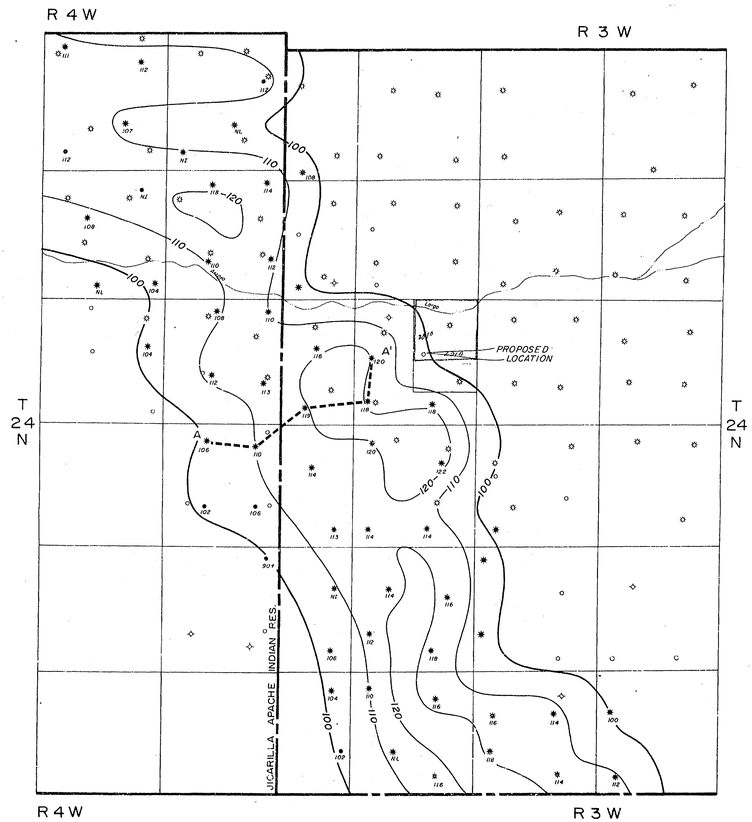
RIO ARRIBA CO., NEW MEXICO

STRUCTURE – TOP DAKOTA FORMATION

C.I. = 50 Ft.

0 ½ 1M.
(1" = 2000')

7-1-80



LEGEND

- Oil and Gas Well
- Gas Well
- Oil Well
- Dry Hole
- Location

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
APPLICANTS EXHIBIT NO. 2
CASE NO. 6964

READING & BATES PETROLEUM CO.
ROCKY MOUNTAIN DIVISION

EXHIBIT II

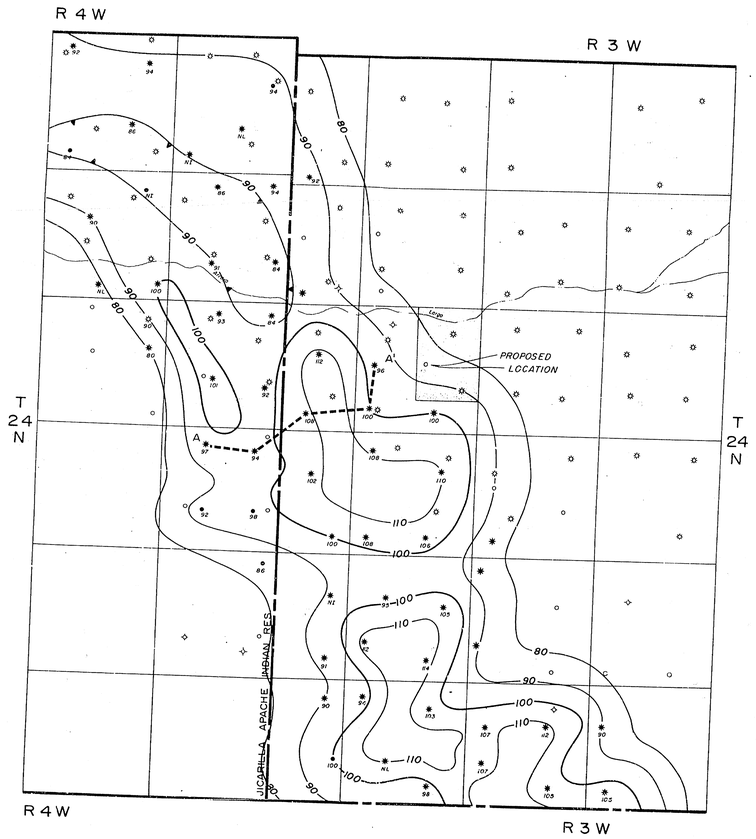
CHACON - DAKOTA AREA

RIO ARRIBA CO. NEW MEXICO

ISOPACH - DAKOTA "A" SAND (GROSS)

C.I. = 10 Ft

7-1-80



LEGEND

- Oil and Gas Well
- Gas Well
- Oil Well
- Dry Hole
- Location

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
READING & BATES EXHIBIT NO. 3
CASE NO. 6966

RB READING & BATES PETROLEUM CO.
ROCKY MOUNTAIN DIVISION

EXHIBIT III

CHACON - DAKOTA AREA

RIO ARRIBA CO., NEW MEXICO

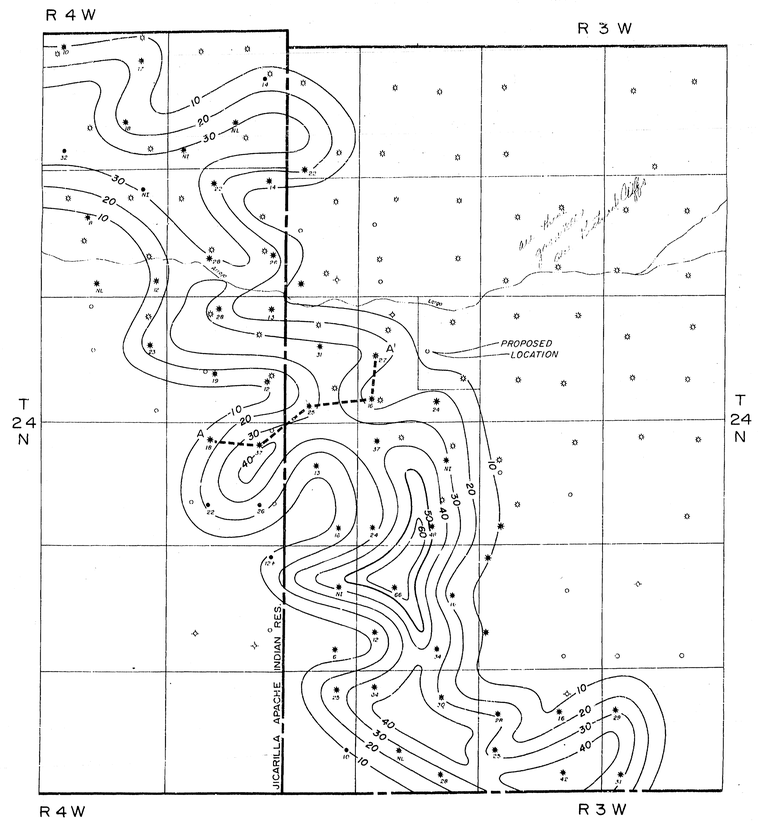
ISOPACH - DAKOTA "B" SAND (GROSS)

C.I. = 10 FT.

0 1/2 1 MI.
1" = 2000'

7-1-80

BEST AVAILABLE COPY



LEGEND

- Oil and Gas Well
- Gas Well
- Oil Well
- Dry Hole
- Location

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
APPLICANT'S EXHIBIT NO. 4
CASE NO. 6966

RB READING & BATES PETROLEUM CO.
ROCKY MOUNTAIN DIVISION

EXHIBIT IV

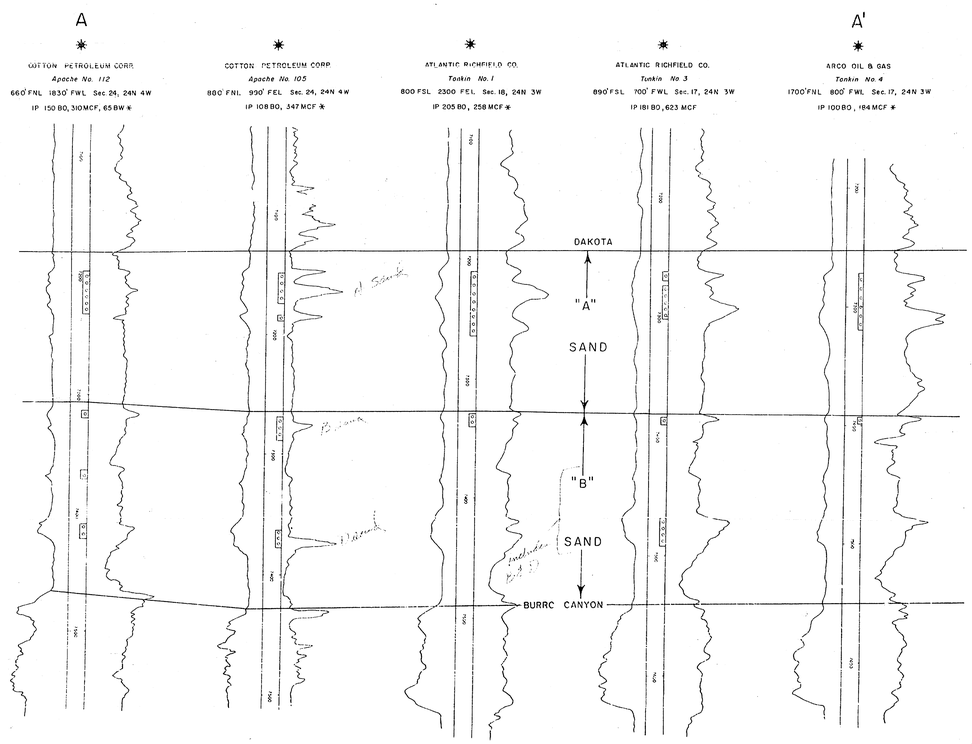
CHACON - DAKOTA AREA

RIO ARRIBA CO., NEW MEXICO

ISOPACH - DAKOTA FORMATION
A&B NET SAND ≥ 8% POROSITY

C.I. = 10 Ft

7-1-80



BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
APPLICANT'S EXHIBIT NO. 5
CASE NO. 6966

EXHIBIT V

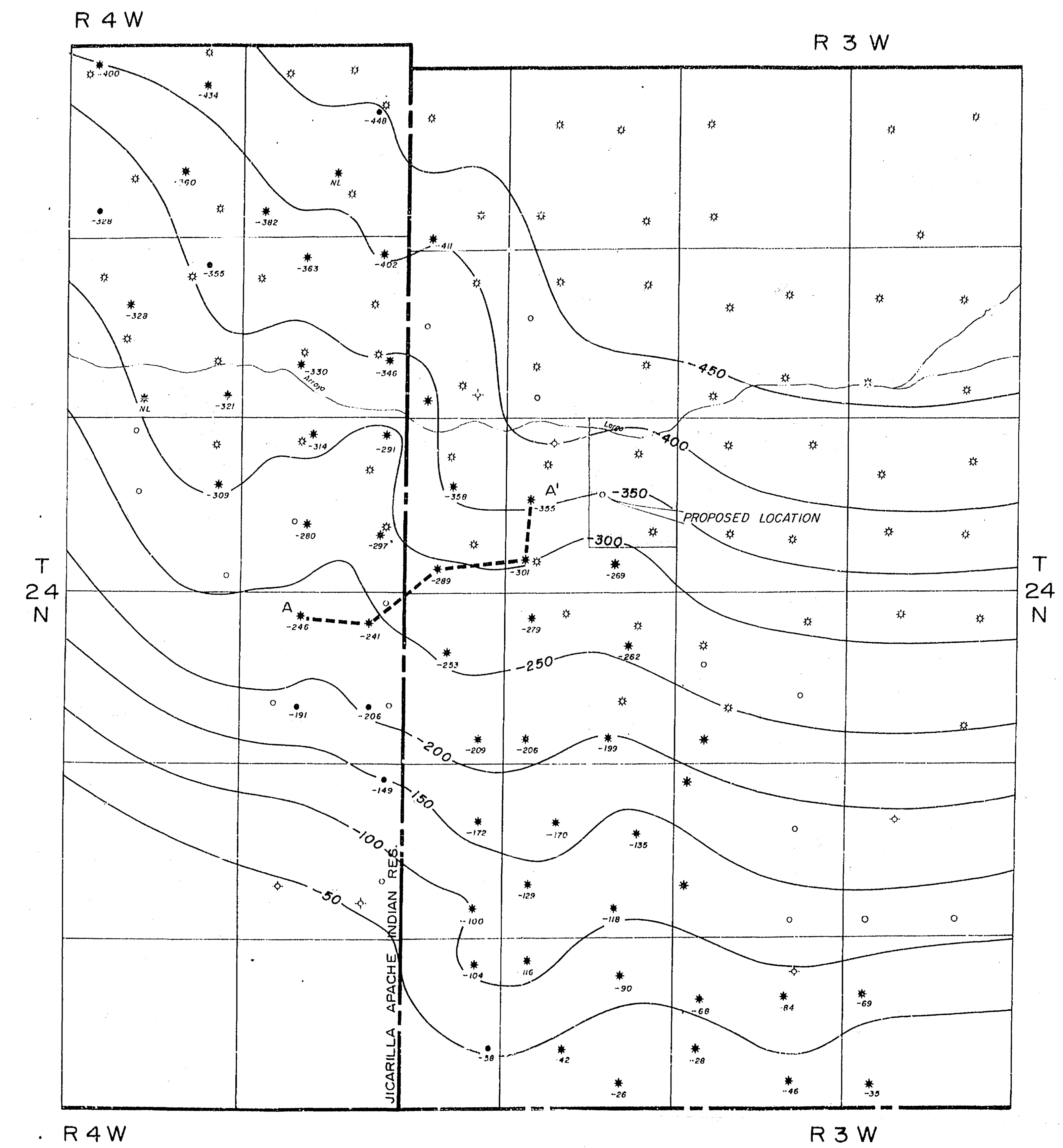
CHACON - DAKOTA AREA

RIO ARRIBA CO., NEW MEXICO

STRATIGRAPHIC CROSS SECTION

* COMMINGLED WITH THE GALLUP

12-17-79



L E G E N D

- Oil and Gas Well
- Gas Well
- Oil Well
- Dry Hole
- Location

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
APPLICANTS EXHIBIT NO. 1
CASE NO. 6966

READING & BATES PETROLEUM CO.
ROCKY MOUNTAIN DIVISION

EXHIBIT I

CHACON – DAKOTA AREA

RIO ARRIBA CO., NEW MEXICO

STRUCTURE – TOP DAKOTA FORMATION

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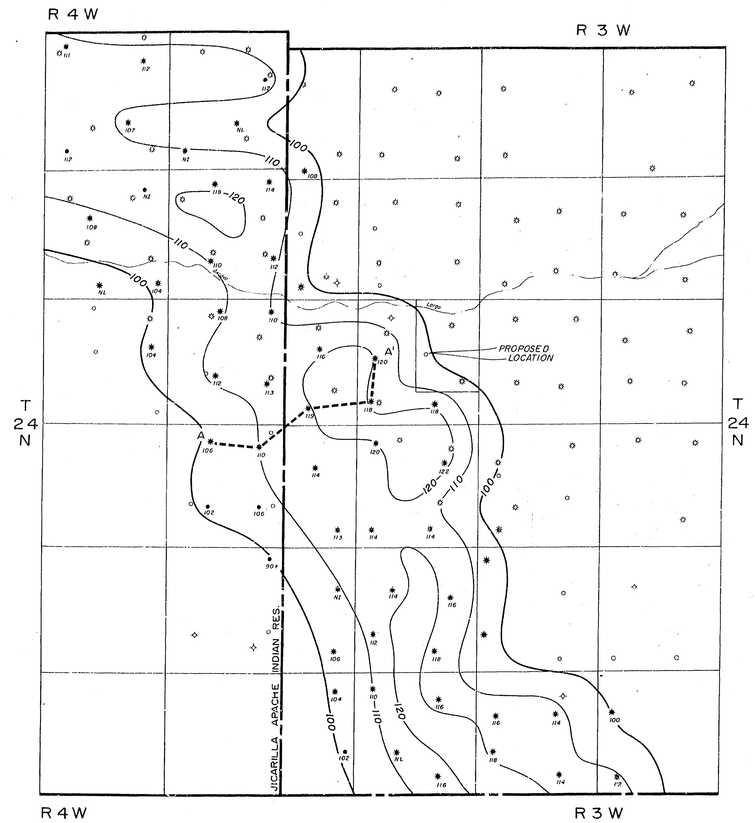


LEGEND

- Oil and Gas Well
- Gas Well
- Oil Well
- Dry Hole
- Location

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
APPLICANTS EXHIBIT NO. 2
CASE NO. 6966

READING & BATES PETROLEUM CO.
ROCKY MOUNTAIN DIVISION

EXHIBIT II

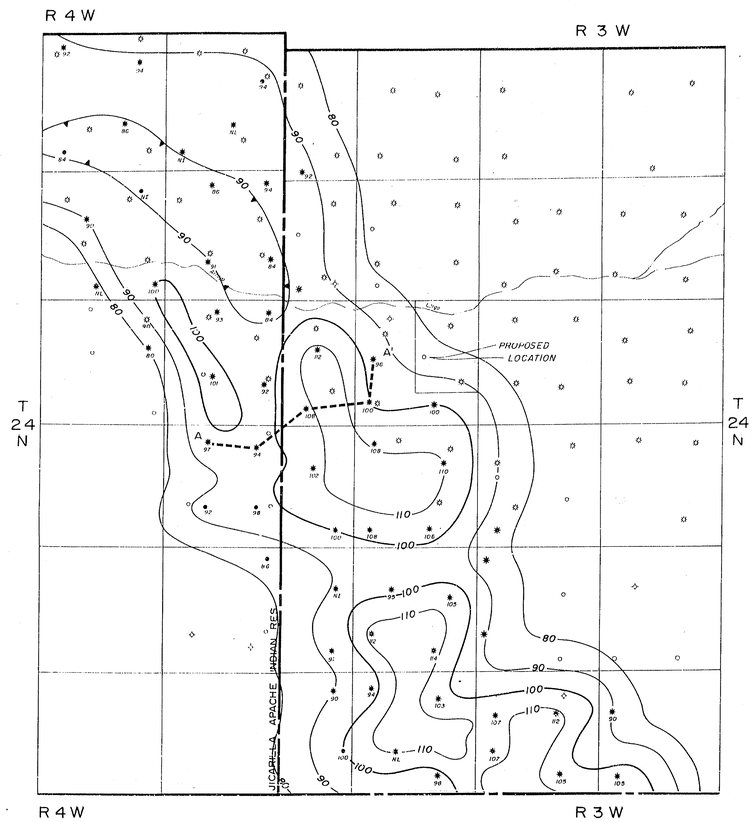
CHACON - DAKOTA AREA

RIO ARRIBA CO., NEW MEXICO

ISOPACH - DAKOTA "A" SAND (GROSS)

C.I. = 10 Ft.

7-1-80



LEGEND

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
APPLICANT'S EXHIBIT NO. 3
CASE NO. 6866

RB READING & BATES PETROLEUM CO.
ROCKY MOUNTAIN DIVISION

EXHIBIT III

CHACON - DAKOTA AREA

RIO ARRIBA CO, NEW MEXICO

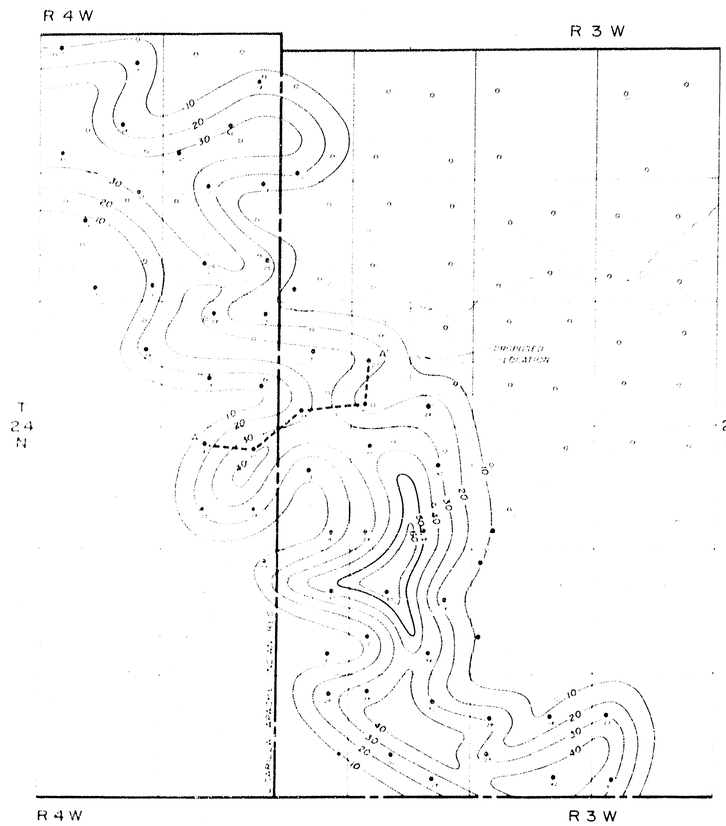
ISOPACH - DAKOTA "B" SAND (GROSS)

C.I. = 10 FT.

0 1/2 1 MI.

1" = 2000'

7-1-80



LEGEND

RB READING & BATES PETROLEUM CO.
ROCKY MOUNTAIN DIVISION

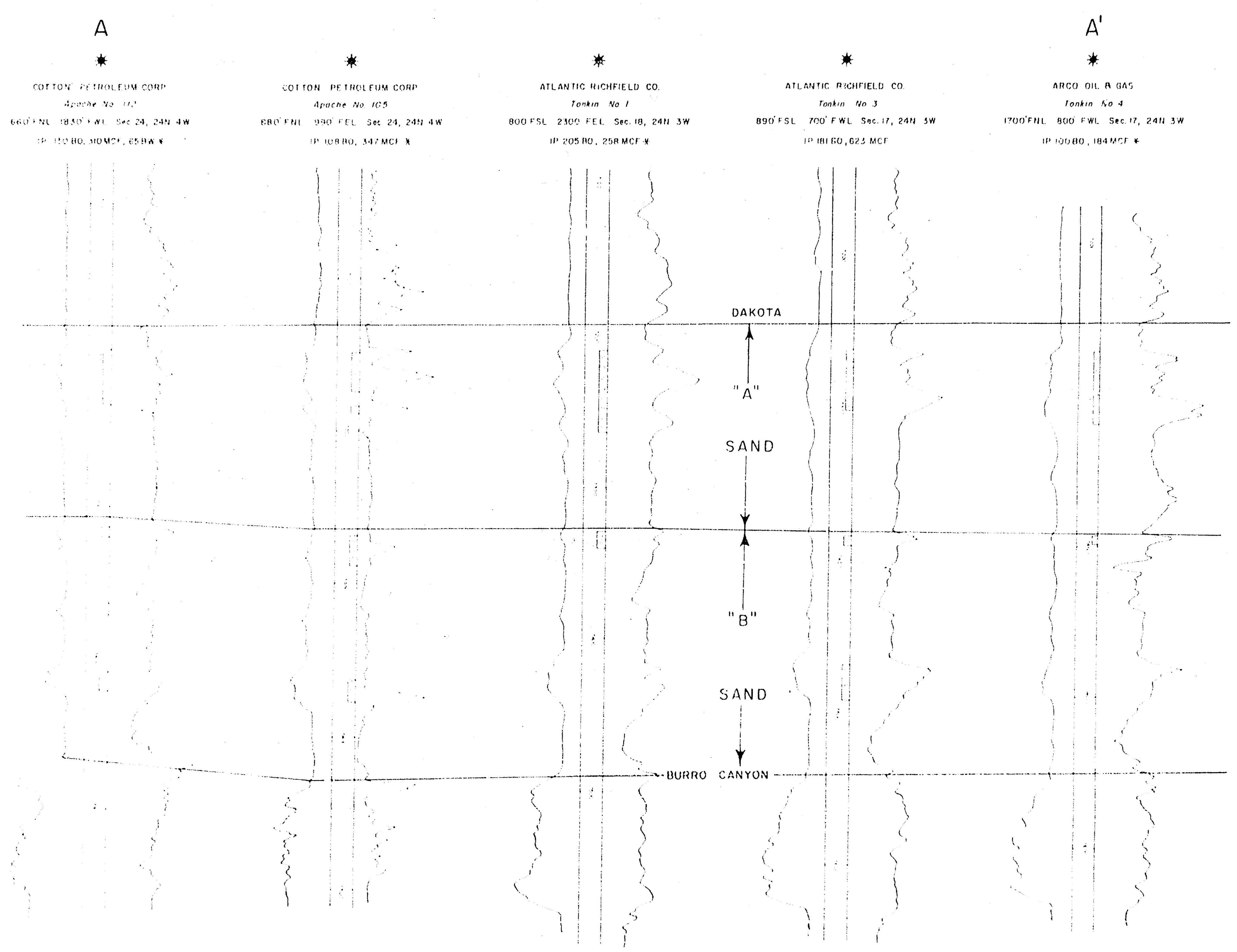
EXHIBIT IV

CHACON - DAKOTA AREA

RIO ARRIBA CO., NEW MEXICO

ISOPACH - DAKOTA FORMATION
A & B NET SAND ≥ 8% POROSITY

CI = 10 ft



BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
APPLICANTS EXHIBIT NO. 5
CASE NO. 6966

EXHIBIT V

CHACON – DAKOTA AREA

RIO ARRIBA CO., NEW MEXICO

STRATIGRAPHIC CROSS SECTION

* COMMINGLED WITH THE GALLUP

12-17-79

EXHIBIT

NE/4 Section 17-Township 24 North-Range 3 West
Leasehold Ownership:

	Interest
READING & BATES PETROLEUM CO.	33.33333%
HOOPER, KIMBALL & WILLIAMS, INC	33.33333%
PETROLEUM CORPORATION OF TEXAS	15.60873%
IBEX PARTNERSHIP	15.60873%
MABEL REED, TRUSTEE FOR WARREN CLARK TRUST	.81380%
CAROLYN CLARK OATMAN	.87484%
MABEL REED AND H. M. REED, TRUSTEES FOR THE WARREN CLARK TESTAMENTARY TRUST	.42724%
TOTAL:	100.00000%

* Basic Lease - SF-081347
Lease Date - April 1, 1948

BEFORE EXAMINER NUTTER
READING AND BATES EXHIBIT NO. 6
CASE NO. 6966

EXHIBIT

NE/4 Section 17-Township 24 North-Range 3 West
Leasehold Ownership:

	Interest
READING & BATES PETROLEUM CO.	33.33333%
HOOPER, KIMBALL & WILLIAMS, INC	33.33333%
PETROLEUM CORPORATION OF TEXAS	15.60873%
IBEX PARTNERSHIP	15.60873%
MABEL REED, TRUSTEE FOR WARREN CLARK TRUST	.81380%
CAROLYN CLARK OATMAN	.87484%
MABEL REED AND H. M. REED, TRUSTEES FOR THE WARREN CLARK TESTAMENTARY TRUST	.42724%
TOTAL:	100.00000%

* Basic Lease - SF-081347
Lease Date - April 1, 1948

BEFORE EXAMINER NUTTER
READING AND BATES EXHIBIT NO. 6
CASE NO. 6966

BEST AVAILABLE COPY

June 30, 1980

Hooper, Kimbell & Williams, Inc.
Room 1025
69 Broad Street
Boston, Massachusetts 02110

Attention: Kingsley Durant

Re: New Mexico Oil Conservation Division
Case 6966

Dear Mr. Durant:

Enclosed is a copy of the docket for the July 9, 1980 Oil Conservation Division Examiner hearing.

You may have an interest that will be affected by the above-referenced case.

Very truly yours,

William F. Carr

WFC:lr

Enclosure

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

BEFORE EXAMINER
OIL CONSERVATION DIVISION
READING AND BATES EXHIBIT NO. 7
CASE NO. 6966

PH 1 5970127

June 30, 1980

Ms. Mabel Reed,
Trustee for the Warren Clark Trust
Post Office Box 1546
Austin, Texas 78767

Attention: W. W. Oatman

Re: New Mexico Oil Conservation Division
Case 6966

Dear Mr. Oatman:

Enclosed is a copy of the docket for the July 9, 1980 Oil Conservation Division Examiner hearing.

You may have an interest that will be affected by the above-referenced case.

Very truly yours,

William F. Carr

[illegible]

Enclosure

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RECEIPT FOR CERTIFIED MAIL

June 30, 1980

Mr. Carolyn Clark Gatman
Post Office Box 1646
Austin, Texas 78767

Attention: W. U. Gatman

Re: New Mexico Oil Conservation Division
Case 6966

Dear Mr. Gatman:

Enclosed is a copy of the docket for the July 9, 1980 Oil Conservation Division Examiner Hearing.

You may have an interest that will be affected by the above-referenced case.

Very truly yours,

William F. Carr

WFC:lr

Enclosure

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

June 30, 1980

Mabel Reed and H. H. Reed,
Trustees for the Warren Clark
Testamentary Trust
Post Office Box 1846
Austin, Texas 78767

Attention: W. W. Gatman

Re: New Mexico Oil Conservation Division
Case 6986

Dear Mr. Gatman:

Enclosed is a copy of the docket for the July 9, 1980 Oil Conservation Division Examiner Hearing.

You may have an interest that will be affected by the above-referenced case.

Very truly yours,

William F. Carr

WFC:lr

Enclosure

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

June 30, 1980

Ilwa Partnership
Post Office Box 011
300 North Breckenridge
Breckenridge, Texas 76024

Attention: O. H. Reaugh

Re: New Mexico Oil Conservation Division
Case 6966

Dear Mr. Reaugh:

Enclosed is a copy of the docket for the July 9, 1980 Oil Conservation Division Examiner Hearing.
You may have an interest that will be affected by the above-referenced case.

Very truly yours,

William F. Carr

WFC:lr
Enc.
Enclosure
CERTIFIED MAIL
RETURN RECEIPT REQUESTED

June 30, 1980

Petroleum Corporation of Texas
Post Office Box 911
300 North Breckenridge
Breckenridge, Texas 76024

Attention: Ron Holloway

Re: New Mexico Oil Conservation Division
Case 6966

Dear Mr. Holloway:

Enclosed is a copy of the docket for the July 9, 1980 Oil Conservation Division Examiner Hearing.

You may have an interest that will be affected by the above-referenced case.

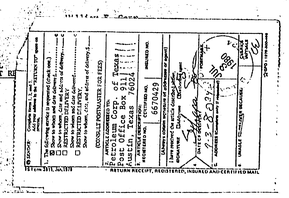
Very truly yours,

William F. Carr

WFC:lr

Enclosure

CERTIFIED MAIL
RETURN RECEIPT RE



WELL COST ESTIMATE

COMPANY Reading & Bates Petroleum Co. DATE June 24, 1980

WELL ~~Jicarilla Hindrith No. 2-1~~ Federal 17-2

LOCATION ~~C NE 1 SW 1 Section 3, T 22N, R 2W Rio Arriba Co., N.M.~~ 2310' FNL 2310' FEL Section 17, T 24N, R23W Rio Arriba Co., NM

PROPOSED TD ~~7700'~~ 7650 EST. DRILLING DAYS ~~19~~ 18

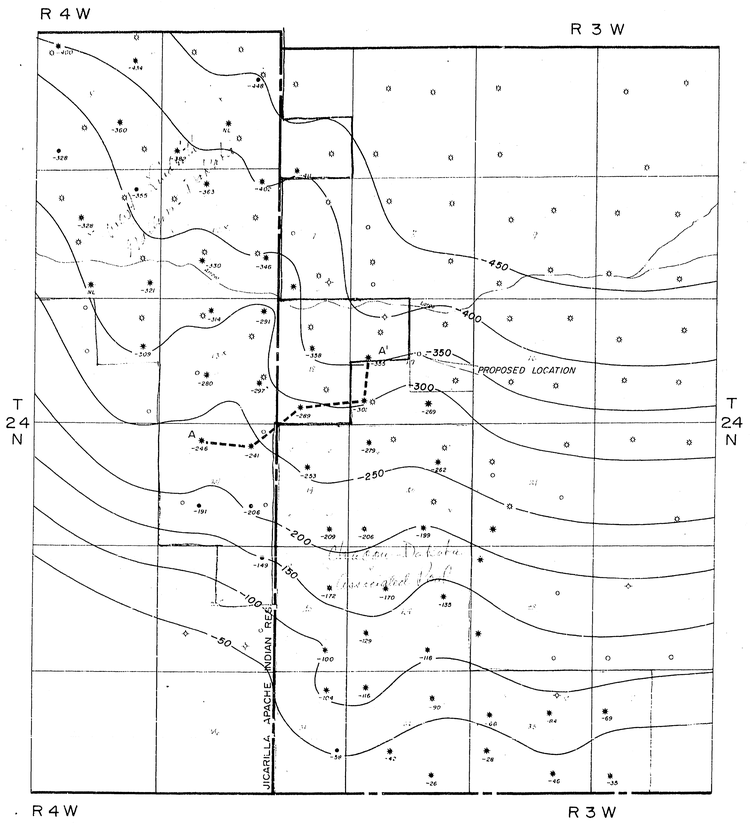
	Producer	Dry Hole
Tangible Well Costs		
Well Pipe	$	$
350' of 8 5/8" @ $ 9.55 /ft.		
~~7700'~~ 7650' of 4 1/2" @ $ 4.85 /ft.		
~~7700'~~ 7650' of 2 3/8" @ $ 2.65 /ft.		
____ of ____ @ $ ____ /ft.	~~61,100~~ 60,700	3,300
Wellhead Assembly	11,500	1,500
Subsurface Equip. - packer, rods, pumps, etc.	~~9,300~~ 500	—
Separation Facilities, Installed	10,000	—
Tanks and Shipping Facilities, Installed	10,000	—
Flow Lines, Pipe & Electric Lines, Installed	4,000	—
Other Equipment - Pumping Unit, Misc.	~~67,800~~ 4500	200
Total Tangibles	$ ~~163,700~~ 101,500	$ 5,000
Intangible Well Costs		
Permits, Surveys, Foundations	$ 1,000	$ 1,000
Location, Roads & Damages	~~10,000~~ 8000	~~10,000~~ 8,000
Contract Drilling (MIRU, RD, & MO)	10,500	10,500
~~7700~~ 7650 ft. @ $ ~~16.00~~ 15.25 /ft.		
12 days @ $ 6200 /day		
____ days @ $ ____ /day		
Compl. Unit 15 days @ $ 3300 /day	~~164,905~~ 145,600	~~141,800~~ 129,100
Cement and Cement Service	20,400	5,700
Drilling Fluid Materials	35,000	35,000
Fuel, Water & Power	13,700	8,700
Supplies	—	—
Drill Stem Testing ~~2~~ @ ~~3500~~	~~7,000~~	~~7,000~~
Coring and Analysis	—	—
Wireline Service		
Logging 13,500 (Open hole)		
Perforating 6,700		
Other 5,100 (CBL and running plugs)	25,300	13,500
Formation Treating	65,000	—
Transportation and Hauling	3,000	500
Rentals, Contract Labor, Misc.	7,500	3,500
Engineering Supervision	~~11,500~~ 7,300	~~6,400~~ 6000
Geological Supervision (~~Mudlogger~~ and Consultant)	~~6,100~~ 4500	~~8,100~~ 4500
Overhead	~~2,200~~ 2000	~~1,600~~ 1500
Contingencies	~~38,500~~ 35,200	~~25,000~~ 22,500
Total Intangibles	$ ~~423,600~~ 387,000	$ ~~278,600~~ 250,300
TOTAL	$ ~~587,300~~ 488,500	$ ~~283,600~~ 255,300

Prepared By:

Jerry L. Hofman
Petroleum Engineer

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
READING ~~AND BATES~~ EXHIBIT NO. 8
CASE NO. 6966

FORM 404



LEGEND

- Oil and Gas Well
- Gas Well
- Oil Well
- Dry Hole
- Location

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
APPLICANT'S EXHIBIT NO. 1
CASE NO. 6966

READING & BATES PETROLEUM CO.
ROCKY MOUNTAIN DIVISION

EXHIBIT I

CHACON - DAKOTA AREA

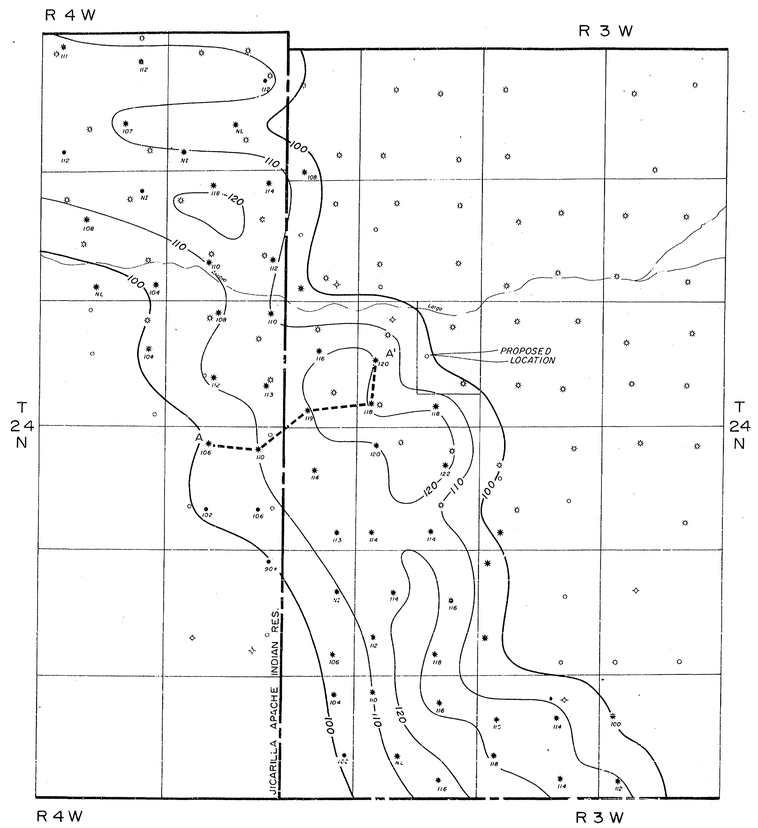
RIO ARRIBA CO., NEW MEXICO

STRUCTURE - TOP DAKOTA FORMATION

C.I. = 50 Ft.

1" = 2000'

7-1-80



LEGEND

- Oil and Gas Well
- Gas Well
- Oil Well
- Dry Hole
- Location

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
APPLICANTS EXHIBIT NO. 2
CASE NO. 6966

READING & BATES PETROLEUM CO.
ROCKY MOUNTAIN DIVISION

EXHIBIT II

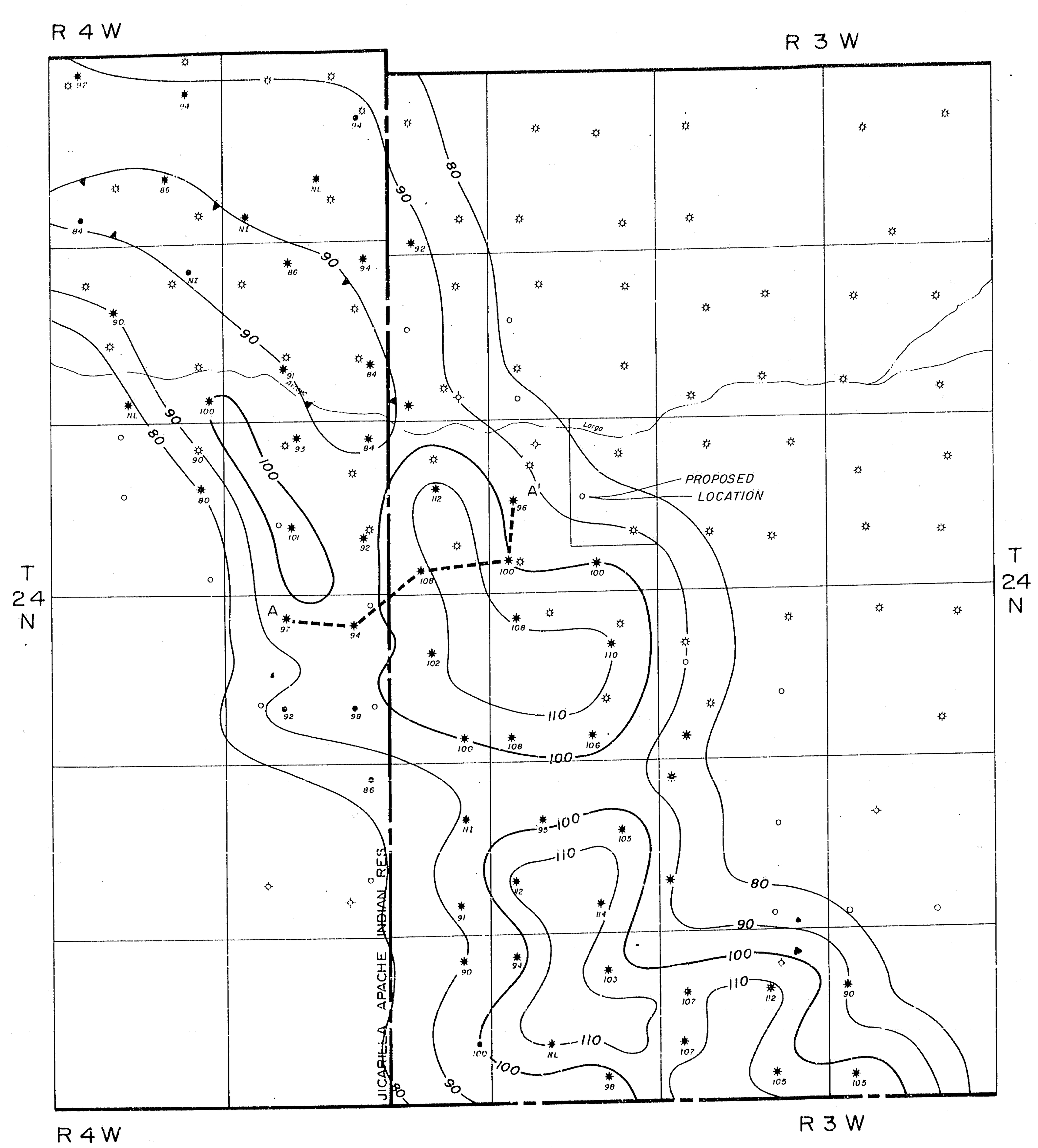
CHACON - DAKOTA AREA

RIO ARRIBA CO. NEW MEXICO

ISOPACH - DAKOTA "A" SAND (GROSS)

CI = 10 Ft.

7-1-80



L E G E N D

- Oil and Gas Well
- Gas Well
- Oil Well
- Dry Hole
- Location

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
APPLICANTS EXHIBIT NO. 3
CASE NO. 6966

READING & BATES PETROLEUM CO.
ROCKY MOUNTAIN DIVISION

EXHIBIT III

CHACON - DAKOTA AREA

RIO ARRIBA CO., NEW MEXICO

ISOPACH - DAKOTA "B" SAND (GROSS)

C.I. = 10 Ft.

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(1" = 2000')

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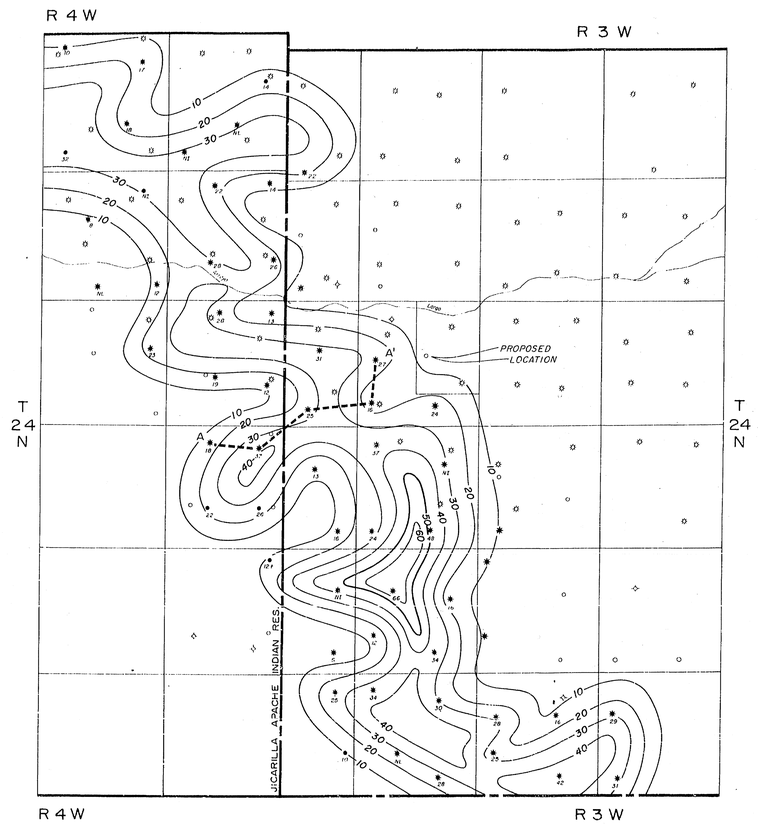

LEGEND

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
APPLICANTS EXHIBIT NO. 4
CASE NO. 6966

RB READING & BATES PETROLEUM CO.
ROCKY MOUNTAIN DIVISION

EXHIBIT IV

CHACON - DAKOTA AREA

RIO ARRIBA CO., NEW MEXICO

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A & B NET SAND ≥ 8% POROSITY

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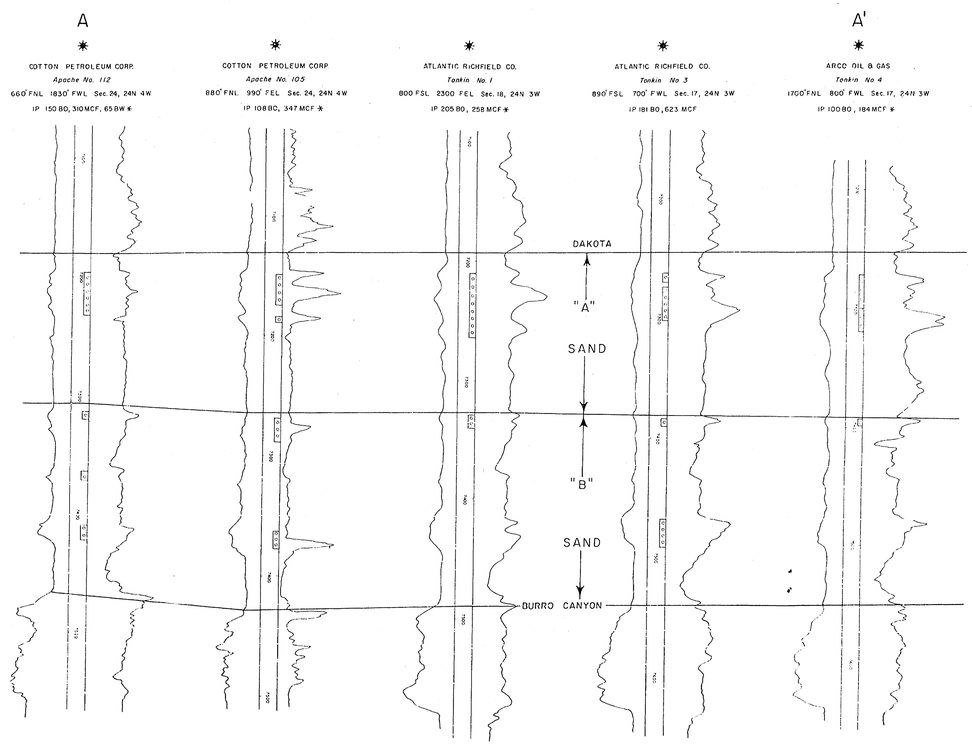

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
~~NOMENCLATURE~~ EXHIBIT NO. 5
CASE NO. 6866

EXHIBIT V

CHACON - DAKOTA AREA

RIO ARRIBA CO., NEW MEXICO

STRATIGRAPHIC CROSS SECTION

* COMMINGLED WITH THE GALLUP

12-17-79

BEST AVAILABLE COPY