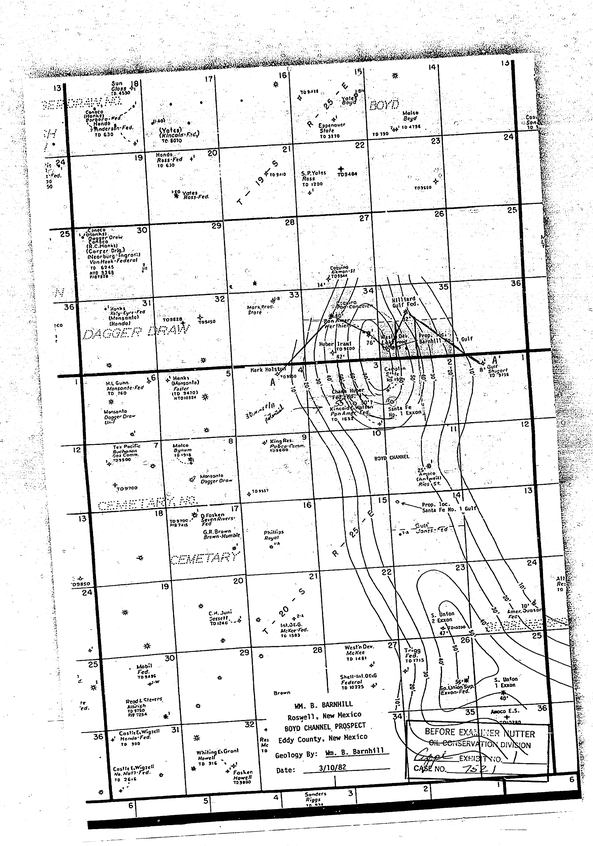
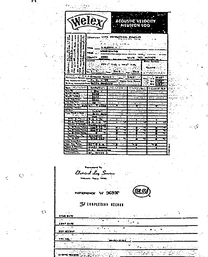
Case No
7521

Large Exhibits


BOYD
DAGGER DRAW
CEMETARY
CEMETARY RD.
T-19-S
T-20-S
R-25-E
R-26-E
BOYD CHANNEL
Mesa Petr. Boyd
Exxon State
Sun Oper. Boyd
Mobil Fed.
Read & Stevens Amoco Fed.
Castle & Wigtail Sec. Mobil-Fed.
Whiting & Grant Hanna-Fed
Parker Howell
Phillips Regal
G.R. Brown Brown-Mobil
Mesa Petr. Boyd
Yates Petr. Boyd
Yates (Atlantic-Fed)
Read & Stevens Davis
Yates Fed.
S.P. Yates Ross
Yates Fed.
Colorado Interstate Federal
Mesa Petr. Boyd
Hanagan Oil Co. Boyd
Mesa Petr. Boyd
Mesa Petr. Boyd
Exxon Boyd
Exxon Boyd
Exxon

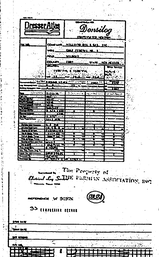
A



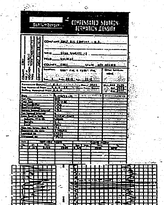




Proposed location
Barnhill No 1 Gulf Federal



A'



D.S.T. 9245-9350
Rec. 160' Mud
ISIP 533
FSIP 151
F.P. 4374-4574

NO CHANNEL SAND ON BANK

D.S.T. 9226-9347
G.T.S. 10"
1,124 MCFD
ISIP 3820
F.P. 1697-1951

"A" CHANNEL SAND COMPLETION
I.P. MORROW 28.4 M. PERF. 9236 9348
RE-CPL. STOKA 1.2 M. PERF. 8836-46'
8866-80'
8917-22'
CHANNEL

D.S.T. 9397-9502'
G.T.S. 35"-41000
ISIP 1896
F.P. 220

D.S.T. 9402'-9546'
G.T.S. 55" Volume?
ISIP 1840
F.P. 220

I.P. MORROW 357,000
Perf 9442'-75'
SEE COMPLETION CARD 1-27-53
CHANNEL

Top Atoka

D.S.T. 9287-9487
G.T.S. 18"-41,000
ISIP 381
FSIP 3879
F.P. 150-213

D.S.T. 9500-9577'
G.T.S. 1"-250,000
ISIP 3917
FSIP 3847
F.P. 105-151

D.S.T. 9561'-9633'
Rec. 300' Gm
HF Gcm
ISIP 3746
FSIP 3391
F.P. 57-75

"B" & "B" CHANNEL SAND COMPLETION
I.P. MORROW 2.6 M. PERF. 9437'-9563'
CHANNEL

D.S.T. 9565-9639
GTS. 65" TSTM
ISIP 1122
FSIP 1983
F.P. 64-64
D.S.T. 9670-9735
Rec. 90' Mud
ISIP 834
FSIP 773
F.P. 85-209

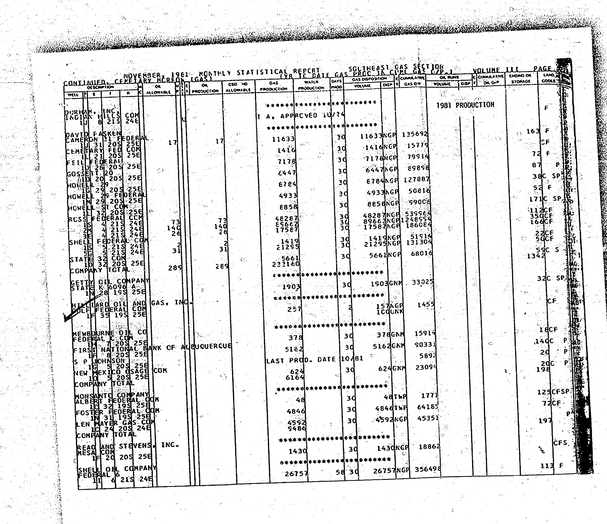
Top Atoka
Top Morrow "A" Sand
Top Morrow "B" Sand
Top Barnett Shale
"C" Marker
Top Miss. Limestone
Sand
Shale
Shale

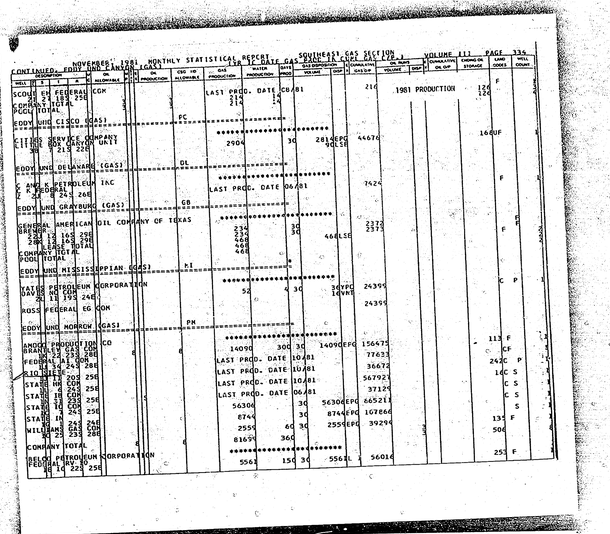
WM. B. BARNHILL
Zapwell, New Mexico
NOTO CHANNEL PROSPECT
Eddy County, New Mexico
Geology By: Wm. B. Barnhill
Date: 3/14/62

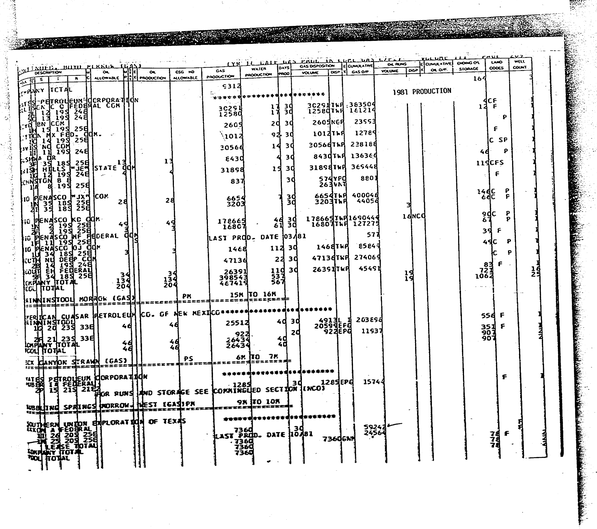
BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
Appl. EXHIBIT NO. 7
CASE NO. 1321

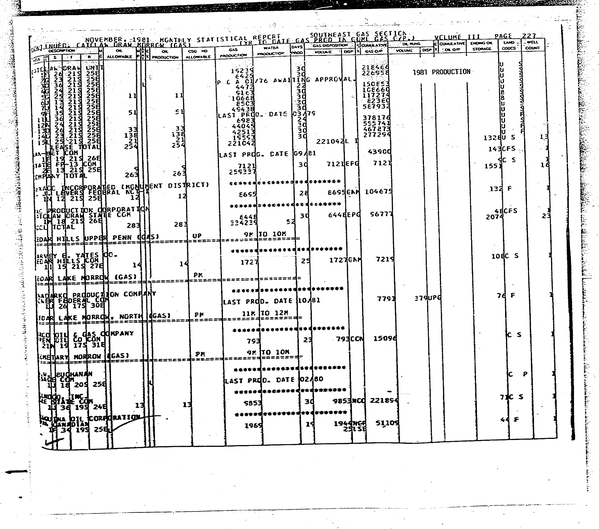
U.S.G.S. RECORDS
BEST AVAILABLE COPY

REPRODUCED BY
West Texas Electrical Log Service
1202 SOUTHWOOD STREET
DALLAS 1, TEXAS
REFERENCE No. W-3191 -C
MICRO LOGGING
COMPANY STANOLIND OIL & GAS CO.
WELL LAKEWOOD UNIT #1
FIELD WILDCAT
LOCATION SEC. 34-19S-25E
COUNTY EDDY
STATE NEW MEXICO
Location of Well
1980' FN & FE
SEC. 34-19S-25E
Elevation: Gr. 3542
DF
KB
Permanent Datum
Log Measured from KB
Drilling Measured from KB
Date 6-15-53
Run No. ONE
Depth-Driller 3560
Depth-Logger 3560
Bottom Logged Interval 3560
Top Logged Interval 1500
Type Fluid in Hole SALT GEL
Salinity, P.P.M. Cl
Density
Viscosity
pH
Fluid Loss
Source of Sample CIRC.
Rm @ Meas. Temp. .75 @ 80°F
Rmf @ Meas. Temp. .60 @ 80°F
Rmc @ Meas. Temp. 1.0 @ 80°F
Source of Rmf & Rmc MEAS.
Rm @ BHT .40 @ 140°F
Time Since Circ. 12 HRS.
Max. Rec. Temp. Deg. F. 140°F
Equip. No. & Location 1502 ARTESIA
Recorded By HUTCHIN
Witnessed By BATT
REMARKS
Stanolind Oil & Gas Co.
Lakewood Unit #1
Eddy Co., New Mexico
34-19S-25E
THIS IS NOT A COMPLETE REPRODUCTION OF THE ORIGINAL THREE-TRACK SCHLUMBERGER LOG
SPONTANEOUS POTENTIAL millivolts
RESIST. ohms
6" Microlaterolog 15" AM
6" Microlog 2" AM
Run 2
6" Microlaterolog 15" AM
Top 1500
Bot 3560
3500
3600









CONTINUED - CENTRAL BASIN (GAS)

| FIELD DESCRIPTION | | |

RICHARD KNOB

FIVE MILE

ATOKA W

PENASCO

DAGGER DRAW

BOYD

R – 25 – E

T – 18 – S

T – 19 – S

Farmout Hubbell TD 1050

Malco Kelly to Dias

Yates Kelly TD 1675

West Ventures Johnson TD 1728

Coquina 3 Sohio-Fed

TD 8635

TD 8700

Yates 4 Dinkus St. TD 8700

Yates 4 Dingus St. TD 8810

Coquina Five Mile Unit

Penzoil Landrum

TD 9052

Fasken Brown-Yates

TD 9040

Yates Pet Scout-Fed

Yates 4 Yates-Fed.

TD 9060

TD 9300

TD 9350

Resler & Sheldon Wilkinson TD 1401

JM 8259

Yates Pet. Yates Fed. TD 9320 PB 2556

Yates Pet Rio Penasco Unit

Gulf State

Lee Drlg. Gulf St. TD 11862

Monsanto Kincaid TD 9303

Yates Pet. Greasewood

Yates BE

Pan Amer. Yates-Fed.

Yates Bros. Scheurich Fed.

TD 153

Pan Amer. Mallock TD 9400

Yates Rio Ku

Yates Pet. (Yates & Hondo) Dam Thomas TD 5800 PB 2934

Dooley & Haynes Martin TD 1000

Fasken Johnson 9

Fasken 2 Arco

Fasken Arco

Yates Rio

Cotton Fed 11

Yates MP

Coquina Boyd

TD 9428

Hondo Boyd

Yates Boyd

Epperson State TD 9370

Malco Boyd

TD 4756

TD 7961

Sun Glass TD 4550

Conoco (Hanks) Tabby Eyre-Fed

Hondo Manderson-Fed. TD 630

(Yates) (Lincoln-Fed) TD 8070

Hondo Ross-Fed TD 630

Yates Ross-Fed.

Coquina Osage

TD 9410

Yates Ross-Fed. TD 9445

Amoco Parlee T.D. 9660

Conoco Dinkus Crew Federal (B.C. Hanks) (Carper Drlg.) (Nearburg-Ingram) VanHook-Federal TD 6245 PB 8348 PB 7978

Yates Ross

Getty Jk

Coquina Tilman St T.D. 9544

Entered by Texas Oil & Gas Commission to grant permit until date well

Hanks Tabby Eyre-Fed (Monsanto) (Hondo)

TD 9628

TD 9450

Mark Prod State

Coquina Pearl Canadian T.D. 9043

Hondo T.D. 10,400

Yates Yates T.D. 9600

Midland Gulf T.D. 9835

PROPOSED PROBATION UNIT

Proposed Location

Standard Location

W.L. Gum Monsanto-Fed TD 780

Monsanto Dagger Draw Unit

Hanks (Monsanto) Eyre TD 9470? WTD 10524

Mark Prod Malcom T.D. 9570

T.D. 9460

Santa Fe Dewan

Tex Pacific Buchanan Stay Comm

Malco Burum

Yates MP

T.D. 9652

Yates Pet. Yates Fed. TD 1437

Yates Pet Rio Penasco Unit

Yates Rio KU

Amoco Parlee T.D. 9660

Fasken Brown-Yates

Yates Pet. Yates Fed. TD 9320 PB 2556

Yates Pet Rio Penasco Unit

Yates Rio KU

Yates Pet. Greasewood

Yates BE

Pan Amer. Yates-Fed.

Yates Bros. Scheurich Fed.

TD 153

Pan Amer. Mallock TD 9400

Yates Rio KU

Yates Pet. (Yates & Hondo) Dam Thomas TD 5800 PB 2934

Dooley & Haynes Martin TD 1000

Fasken Johnson 9

Fasken 2 Arco

Fasken Arco

Yates Rio

Cotton Fed 11

Yates MP

Coquina Boyd

TD 9428

Hondo Boyd

Yates Boyd

Epperson State TD 9370

Malco Boyd

TD 4756

TD 7961

Sun Glass TD 4550

Conoco (Hanks) Tabby Eyre-Fed

Hondo Manderson-Fed. TD 630

(Yates) (Lincoln-Fed) TD 8070

Hondo Ross-Fed TD 630

Yates Ross-Fed.

Coquina Osage

TD 9410

Yates Ross-Fed. TD 9445

Amoco Parlee T.D. 9660

Conoco Dinkus Crew Federal (B.C. Hanks) (Carper Drlg.) (Nearburg-Ingram) VanHook-Federal TD 6245 PB 8348 PB 7978

Yates Ross

Getty Jk

Coquina Tilman St T.D. 9544

Entered by Texas Oil & Gas Commission to grant permit until date well

Hanks Tabby Eyre-Fed (Monsanto) (Hondo)

TD 9628

TD 9450

Mark Prod State

Coquina Pearl Canadian T.D. 9043

Hondo T.D. 10,400

Yates Yates T.D. 9600

Midland Gulf T.D. 9835

PROPOSED PROBATION UNIT

Proposed Location

Standard Location

W.L. Gum Monsanto-Fed TD 780

Monsanto Dagger Draw Unit

Hanks (Monsanto) Eyre TD 9470? WTD 10524

Mark Prod Malcom T.D. 9570

T.D. 9460

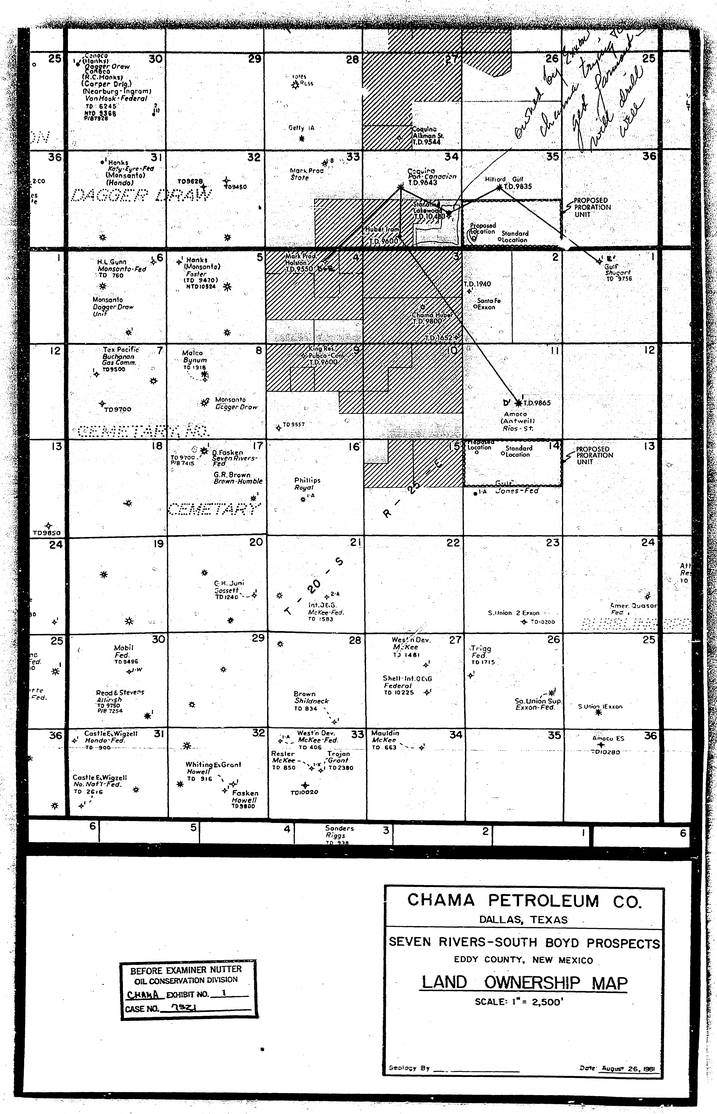
Santa Fe Dewan

Tex Pacific Buchanan Stay Comm

Malco Burum

Yates MP

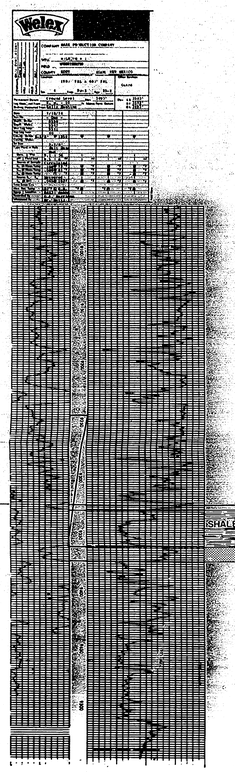
T.D. 9652


DAGGER DRAW
CEMETARY
CEMETARY
R-23-E
T-20-S
PROPOSED PROBATION UNIT
PROPOSED PROBATION UNIT
Proposed Location
Standard Location
Proposed Location
Standard Location
Hanks (Manhat) Dagger Draw (B.C. Hanks) (Carper Drlg.) (Nearburg-Ingram) VanHook-Federal TD 8245 MD 8265 PBTD 8238
Getty 1A
Mark Prod. State
Pogo Nose Canyon TD 9642
Hilliard Gulf TD 9835
Hilliard Gulf TD 9880
Hanks Katy-Eyre-Fed (Monsanto) (Hondo)
TD9625
TD9650
H.L. Gunn Monsanto-Fed TD 760
Monsanto Dagger Draw Unit
Hanks (Monsanto) Fuder (TD 9470) MTD16934
Mark Prod. Hanks-Fed. TD 9550
Hilliard Gulf TD 9880
T.D. 9692
T.D. 1940
Santa Fe OExxon
Gulf Shugart TD 9756
Tex Pacific Burkhead Gas Comm. TD9500
TD9700
Malco Bynum TD 1918
Monsanto Dagger Draw
King Res. Rubin-Fed. TD 9750
TD 9557
T.D. 9865
Amoco (Antwell) Rios - S.F.
TD9700 PB 7415
G. Fasken Seven Rivers-Fed
G.R. Brown Brown-Humble
Phillips Royal 1A
Gulf Jones-Fed
TD9850
C.W. Juni Gossett TD 1240
Int. D.E.G. McKee Fed. TD 1583
S. Union 2 Exxon TD-3300
Exner Quasar Fed.
Mobil Fed. TD 9496
Read & Stevens Albrigh TD 9750 PB 7254
Brown Shiloneck TD 834
West'n Dev. McKee TD 1481
Shell-Int. D.E.G. Federal TD 10225
Trigg Fed. TD 1715
So. Union Sup. Exxon-Fed.
S Union Exxon
Castle E. Wigzell Monda-Fed. TD-900
Castle E. Wigzell No. Nat'l-Fed. TD 2616
Whiting & Grant Howell TD 916
Fasken Howell TD 9850
Resler McKee TD 850
Trojan Grant TD 2380
TD10020
Mauldin McKee TD 683
Amoco ES TD10280
Sanders Riggs TD 928
CHAMA PETROLEUM CO.
DALLAS, TEXAS
SEVEN RIVERS-SOUTH BOYD PROSPECTS
EDDY COUNTY, NEW MEXICO
LAND OWNERSHIP MAP
SCALE: 1" = 2,500'
Geology By
Date August 26, 1981
BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
CHAMA EXHIBIT NO. 1
CASE NO. 7821

CROSS SECTION E-E'

E

E'



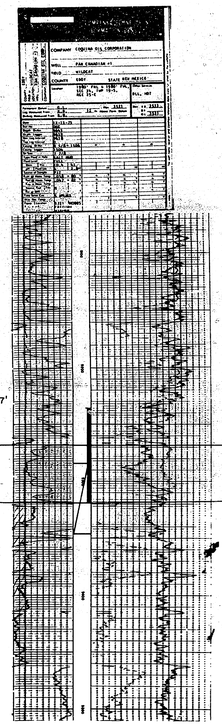
D.S.T. 9245-9350
Rec. 160' Mud
I.S.I.P. 533
F.S.I.P. 1131
F. P. 4374-4374

D.S.T. 9284'-9347'
G.T.S. 1" 14m
I.S.I.P. 3820
F.S.I.P. 3820
F.P. 1697-1861

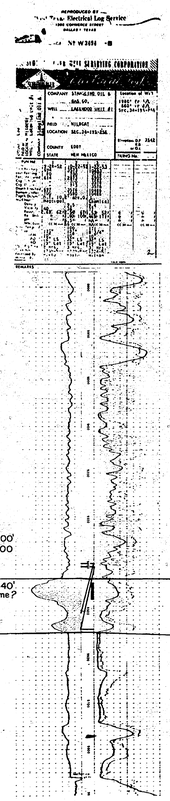
SHALE

SAND

NO "B" CHANNEL SAND
ON BANK



"A" & "B" CHANNEL SAND COMPLETION
I. P. MORROW 28.4 M. PERF. 9236 9318
RE-CPL. ATOKA 1.2 M. PERF. 8838'-41', 8866'-80', 8917'-22'
CHANNEL

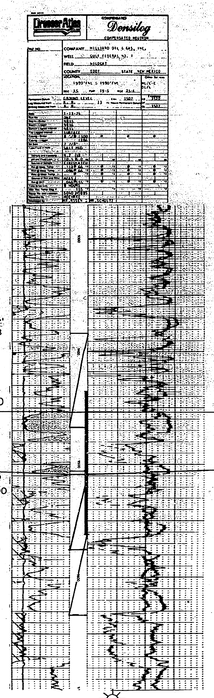


D.S.T. 9397'-9500'
G.T.S. 35"-47,000
S.I.P. 2936
F.P. 115

D.S.T. 9407'-9540'.
G.T.S. 55" Volume?
S.I.P. 1810
P.P. 220

TOP "A" CHANNEL SAND

* NOTE LOG SCALE 1"= 100'
I. P. MORROW 357,000
Perf. 9442'-75'
SEE COMPLETION CARD 1-27-53
CHANNEL

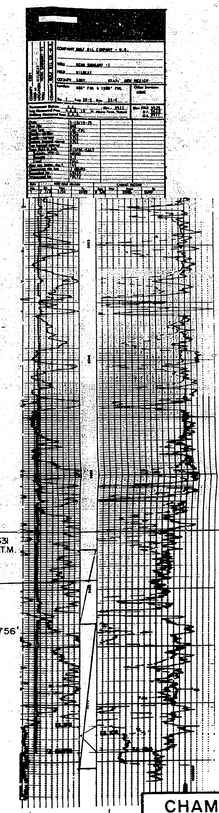


D.S.T. 9383'-9467'
G.T.S. 18"-160,008
I.S.I.P. 3811
F.S.I.P. 3879
F.P. 150-213

D. S. T. 9506'-9573'
G. T. S. 12"-250,000
+ I.S.I.P. 3924
F.S.I.P. 3847
F.P. 113-151

D.S.T. 9561'-9633'
Rec. 500' Gas
18' GCM
I.S.I.P. 2746
F.S.I.P. 3391
F. P. 57-75

"A" & "B" CHANNEL SAND COMPLETION
I. P. MORROW 2.6 M. PERF. 9437'-9562'
CHANNEL



D.S.T. 9565-9631
G.T.S. 63" T.S.T.M.
I.S.I.P. 1122
F.S.I.P. 2963
F.P. 94-140

D.S.T. 9672'-9756'
Rec. 480 M
I.S.I.P. 836
F.S.I.P. 773
F.P. 198-209

NO CHANNEL SAND
ON BANK

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
CHAMA EXHIBIT NO. 4
CASE NO. 7521

CHAMA PETROLEUM CO.
DALLAS, TEXAS

SEVEN RIVERS-SOUTH BOYD PROSPECTS
EDDY COUNTY, NEW MEXICO

CROSS SECTION E-E'

Geology By Wm. B. Barnhill Date: August 26, 1969

FIVE MILE CHANNEL

RICHARD KNOB

FIVE MILE

ATOKA

PENASCO DRAW

R – 25 – E

T – 18 – S

T – 19 – S

BOYD

BOYD CHANNEL

DAGGER DRAW

GETTY ST K

Coquina Five Mile Unit

Coquina Boyd

Coquina Pan-Canadian

Coquina Gissler-St.

Coquina Boyd-St.

Coquina Boyd

Coquina Gissler

Coquina Boyd

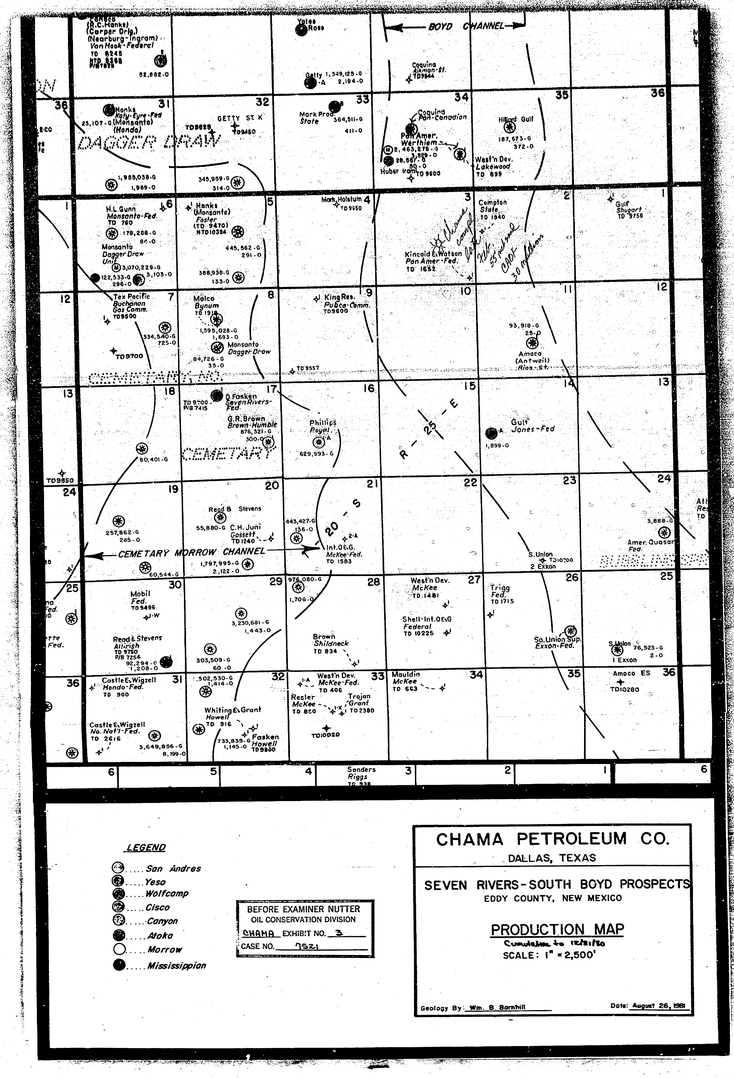
Coquina Pan Amer.

Coquina Kincaid-St.

Coquina Boyd

Coquina Boyd

Coquina Boyd



LEGEND

- San Andres
- Yeso
- Wolfcamp
- Cisco
- Canyon
- Atoka
- Morrow
- Mississippian

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
CHAMA EXHIBIT NO. 3
CASE NO. 7524

CHAMA PETROLEUM CO.

DALLAS, TEXAS

SEVEN RIVERS-SOUTH BOYD PROSPECTS

EDDY COUNTY, NEW MEXICO

PRODUCTION MAP

Cumulative to 12/31/80

SCALE: 1" = 2,500'

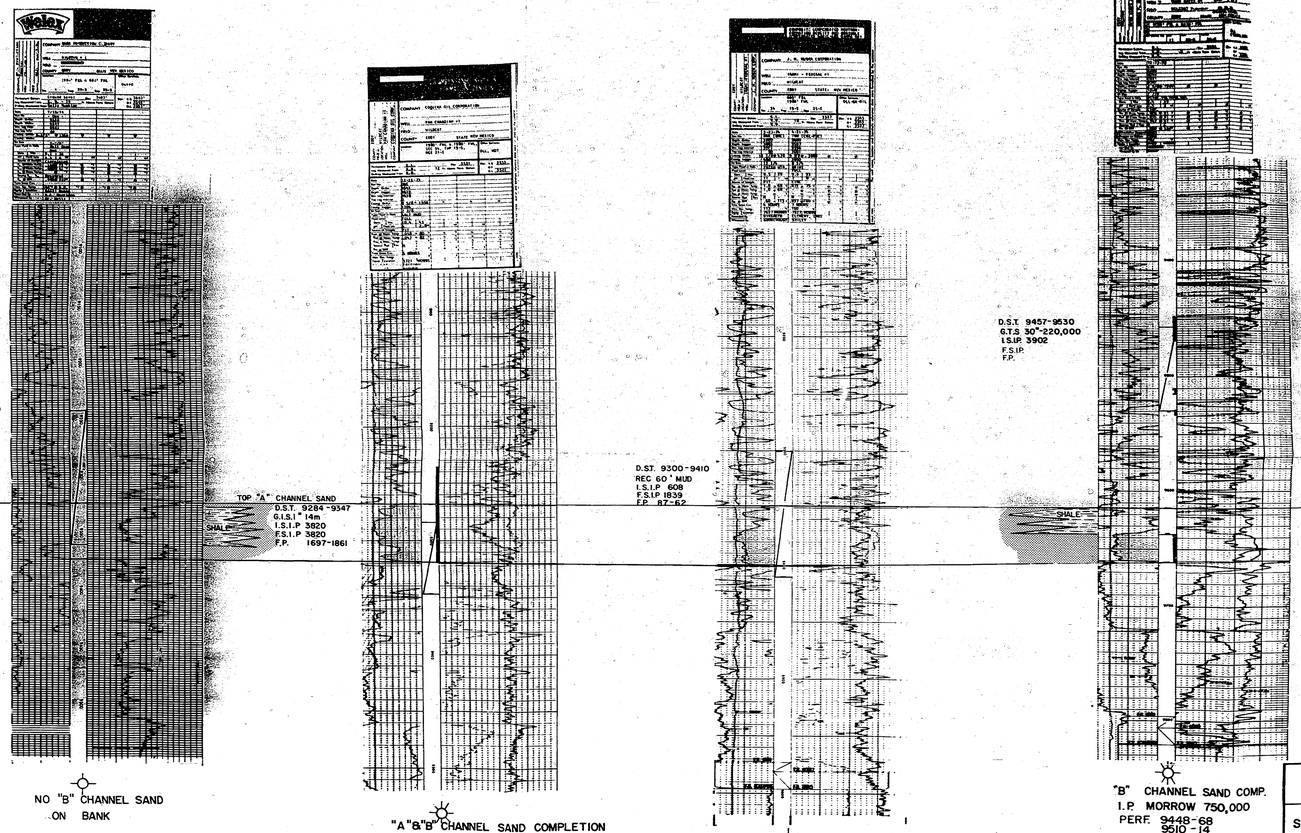
Geology By: Wm. B. Barnhill

Date: August 26, 1981

CROSS SECTION D-D'

D

D'



NO "B" CHANNEL SAND
ON BANK

"A"&"B" CHANNEL SAND COMPLETION
I.P. MORROW 28.4m PERF 9236-9318
RE-CPL A TO KA 1.2m PERF 8838-41
8866-80
8917-20
CHANNEL

GOOD "A" & "B" CHANNEL SAND
LOW POROSITY & PERMEABILITY
CHANNEL

"B" CHANNEL SAND COMP.
I.P. MORROW 750,000
PERF. 9448-68
9510-14
9528-32
9636-60
NEAR BANK

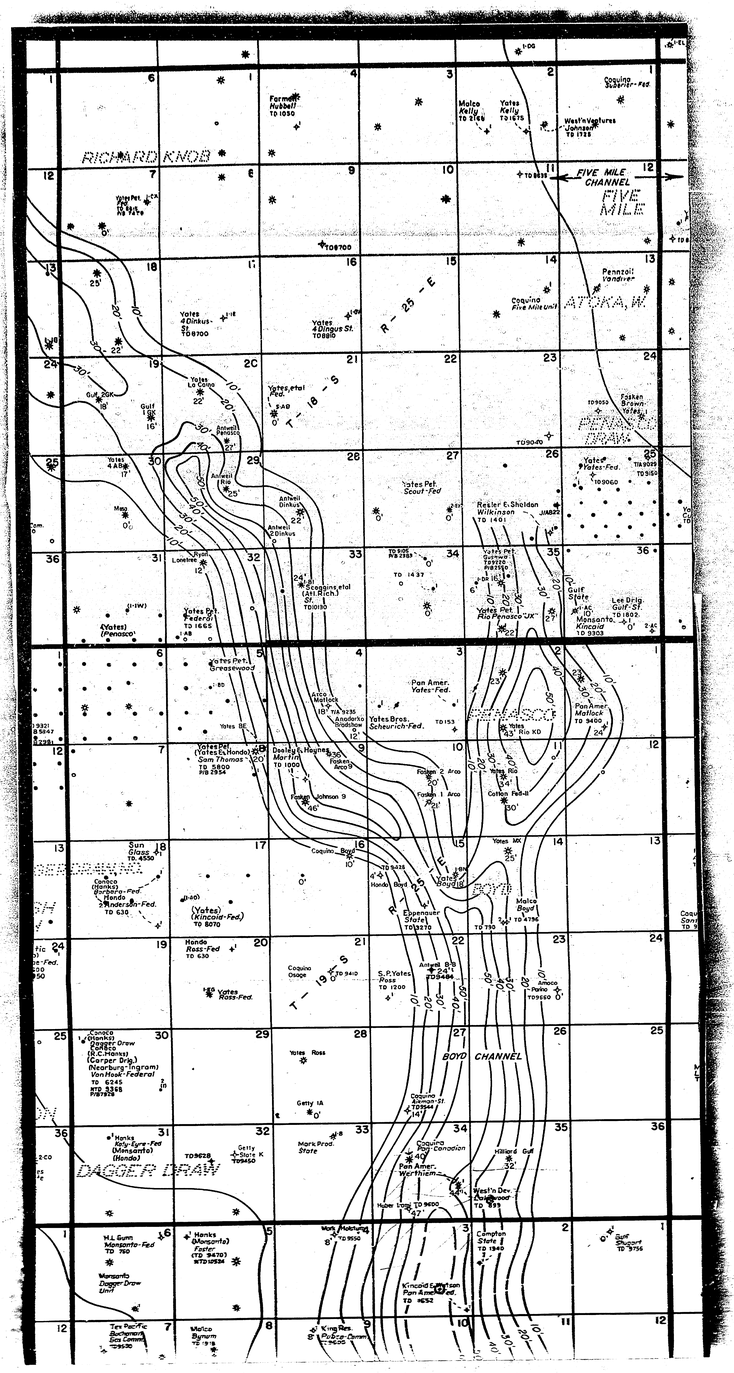
BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
CHAMA EXHIBIT NO. 5
CASE NO. 7521

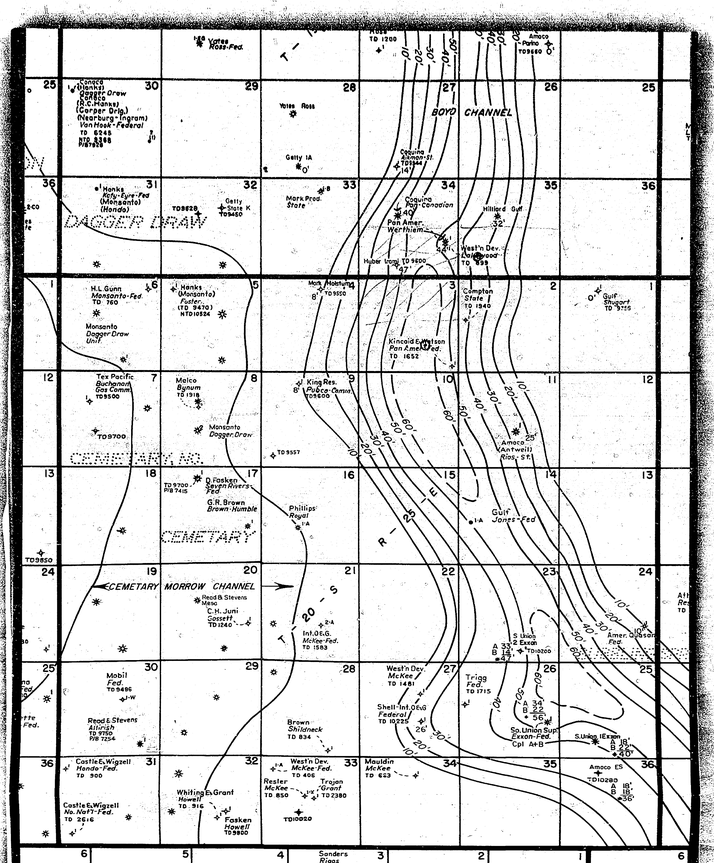
CHAMA PETROLEUM CO.
DALLAS, TEXAS

SEVEN RIVER-SOUTH BOYD PROSPECTS
EDDY COUNTY, NEW MEXICO

CROSS SECTION D-D

Geology By Wm. B. Barnhill Date: August 26, 1981


RICHARD KNOB
FIVE MILE CHANNEL
FIVE MILE
R - 25 - E
T - 18 - S
T - 19 - S
ATOKA, W.
PENASCO DRAW
BOYD CHANNEL
DAGGER DRAW
Formel Hubbell TD 1030
Malco Kelly TD 2769
Yates Kelly TD 1675
West'n Ventures Johnson TD 1918
Casuing
Penroil Vandiver
Yates 4 Dinkus-St TD 9700
Yates 4 Dingus St. TD 8810
Yates, etal Fed.
Yates Pet Scout-Fed
Resler E. Sheldon Wilkinson TD 1401
Yates Pet Federal TD 1665
Yates Pet. Greasewood
Pan Amer. Yates-Fed.
Yates Bros. Scheurich-Fed. TD 153
Yates Pet (Yates, Et. Hondo) Sam Thomas TD 5800
Deshong & Hughes Morrison TD 10,000
Fasken Johnson 9
Fasken 2 Area
Fasken 1 Area
Cotton Fed-B
Yates MK
Malco Boyd TD 4790
Espenaur State TD 13270
Sun Glass TD 4550
Conoco (Hanks) Dagger Draw (D.C. Hanks) (Carper Drlg.) (Nearburg-Ingram) VanHook-Federal TD 6245
(Yates) (Kinnaird-Fed) TD 8070
Honde Ross-Fed TD 630
Yates Ross-Fed.
Yates Ross
Getty 1A
S.P. Yates Ross TD 1200
Amoco Parks TD 9260
Quinoco Kinnaird-ST TD 9344
Quinoco Pan-Canadian
Pan Amer. Worthiem
Hilliard Gulf
West'n Dev. Quinwood TD 895
Hanks Rely-Corp-Fed (Monsanto) (Honde)
Getty State K TD 9450
Mark Prod. State
M.L. Gunn Monsanto-Fed TD 780
Monsanto Dagger Draw Unit
Hanks (Monsanto) Foster (TD 9670) NTD 10534
Tex Pacific Buchanan Sea Comm.
Malco Byrom TD 7918
King Ranch (Pacific Comm.)
Compton State TD 1940
Gulf Shugart TD 9756
Kinnaird Fed-Yates Pan Amer. Fed. TD 9652



BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
CHAMA EXHIBIT NO. 6
CASE NO. 7521

CHAMA PETROLEUM CO.

DALLAS, TEXAS

SEVEN RIVERS-SOUTH BOYD PROSPECTS

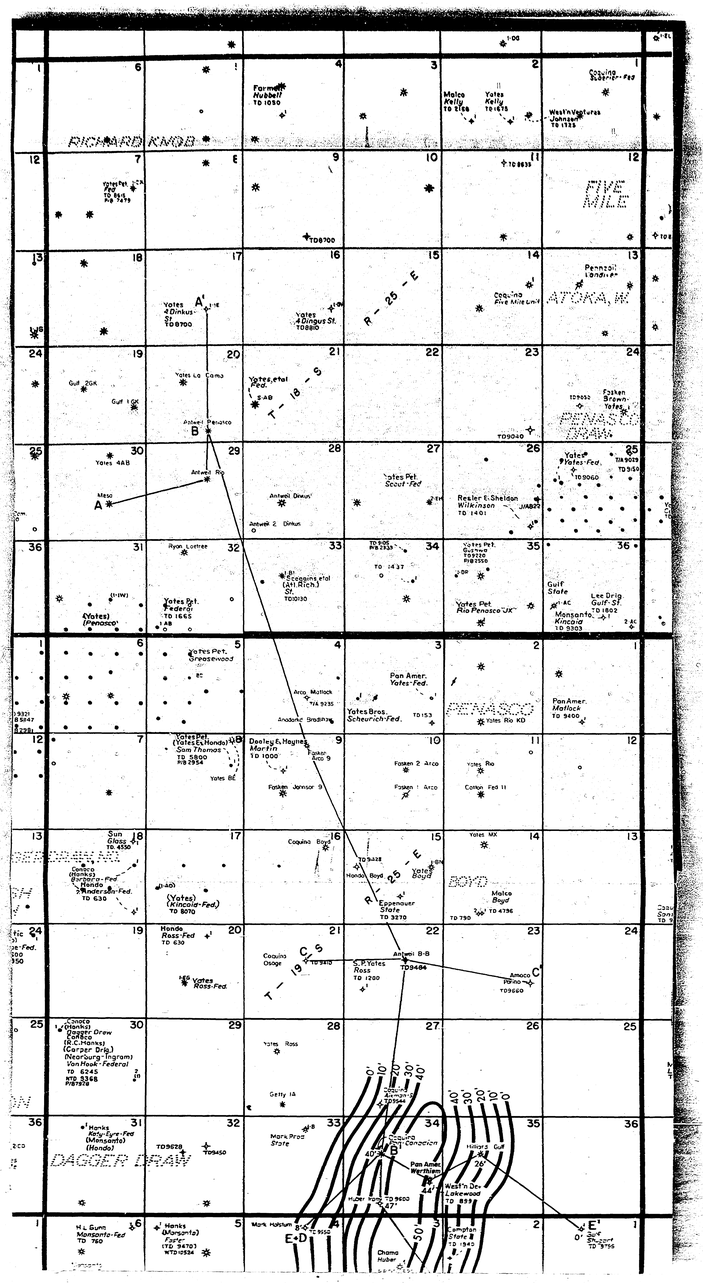
EDDY COUNTY, NEW MEXICO

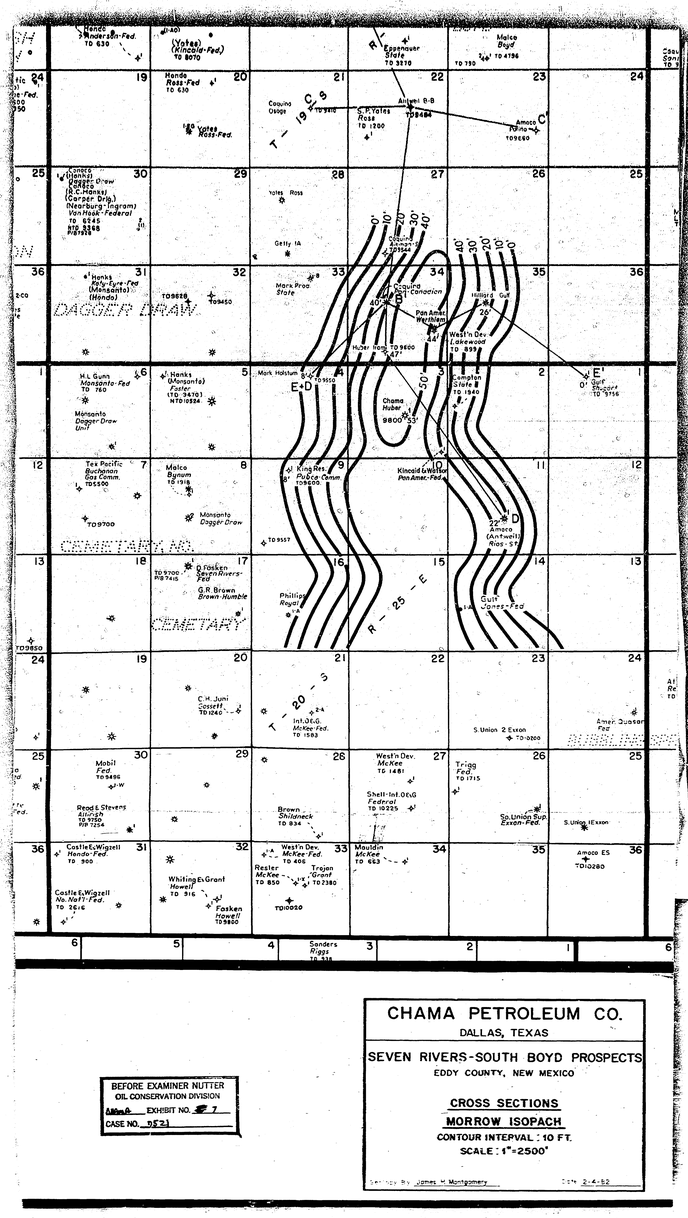
ISOPACH MORROW "B" CHANNEL

Contour Interval = 10'

Scale: 1" = 2,500'

Geology By: Wm. B. Barnhill — Date: August 26, 1969


RICHARD KNOB
FIVE MILE
ATOKA, M.
PENASCO DRAW
DAGGER DRAW
BOYD
R-25-E
T-18-S
T-19-S
A
A'
B
B'
C
C'
D
D'
E
E'
Farmer Hubbell TD 1050
Malco Kelly TD 6768
Yates Kelly TD 6765
Westn Ventures Johnson TD 1735
Coquina Skarrie-Fed
Penzoil Landrum
Yates Pet. Fed TD 9615 Wo Yates
Yates & Dinkus St. TD 8700
Yates & Dingus St. TD 8810
Coquina Five Mile Unit
Yates, etal Fed.
Yates Lo Cama
Antweil Penasco
Gulf 2GK
Gulf 1GK
Yates 4AB
Antweil Rio
Antweil Dinkus
Yates Pet. Scout-Fed
Yates Pet. Penasco TD 9220 PB 9356
Yates Pet. Rio Penasco "UK"
Resler E. Sheldon Wilkinson TD 1401
Yates Yates-Fed. TD 9060
TD 9039
TD 9050
Fasken Brown Yates
TD 9052
TD 9040
Ryan Lostree
(Yates) (Penasco)
Yates Pet. Federal TD 1665
Yates & Coggins etal (Atl. Rich.) Of TD 10130
TD 14327
Gulf State
Lee Drlg Gulf-St TD 1802
Monsanto Kincaid TD 9303
Yates Pet. Greenwood
Arco Mallock TD 9235
Andaurd Bradshaw
Pan Amer. Yates-Fed.
Yates Bros. Scheurich-Fed. TD 153
Pan Amer. Mallock TD 9400
Yates Rio KD
Yates Pet (Yates & Hondo) Sam Thomas TD 5800 PB 2954
Yates BE
Dooley & Haynes Martin TD 1000
Fasken Arco 9
Fasken Johnson 9
Fasken 2 Arco
Fasken 1 Arco
Yates Rio
Conoco Fed 11
Sun Glass 4-Y TD 4550
Conoco (Hanks) Exxon-Fed Hanks Anderson-Fed. TD 630
(Yates) (Kincaid-Fed) TD 8070
Coquina Boyd
Hondo Boyd
Yates Boyd
Epenaour State TD 3270
Yates MX
Malco Boyd TD 4796
TD 750
Hondo Rass-Fed TD 630
Yates Rass-Fed.
Coquina Osage
C.P. Yates Rass TD 1200
Amoco TD 9060
Antweil B-8 TD 9484
Canada (Hanks) Drew Fed Cs (D.C. Hanks) (Carper Drlg.) (Nearburg-Ingram) Van Hook Federal TD 6245 MTD 5346 PB 7878
Yates Rass
Getty 1A
Hanks Kelly-Syr-Fed (Monsanto) (Hondo)
Mark Prod State
TD 9628
TD 9450
Canada Canadian
Pan Amer. Werthiem
Hilliard Gulf
Westn Dev. Lakewood TD 8591
Huber Rass TD 9600
H.L. Gunn Monsanto-Fed TD 760
Hanks (Monsanto) Fed (TD 5870) MTD 1534
Mark Hallsum TD 9552
Champlin State B TD 1845
Chama Huber
Gulf St. Com TD 9795
0' 10' 20' 30' 40'
40' 30' 20' 10' 0'
50' 40' 30' 20' 10' 0'



BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
EXHIBIT NO. 7
CASE NO. 8521

CHAMA PETROLEUM CO.

DALLAS, TEXAS

SEVEN RIVERS-SOUTH BOYD PROSPECTS

EDDY COUNTY, NEW MEXICO

CROSS SECTIONS

MORROW ISOPACH

CONTOUR INTERVAL : 10 FT.

SCALE : 1"=2500'

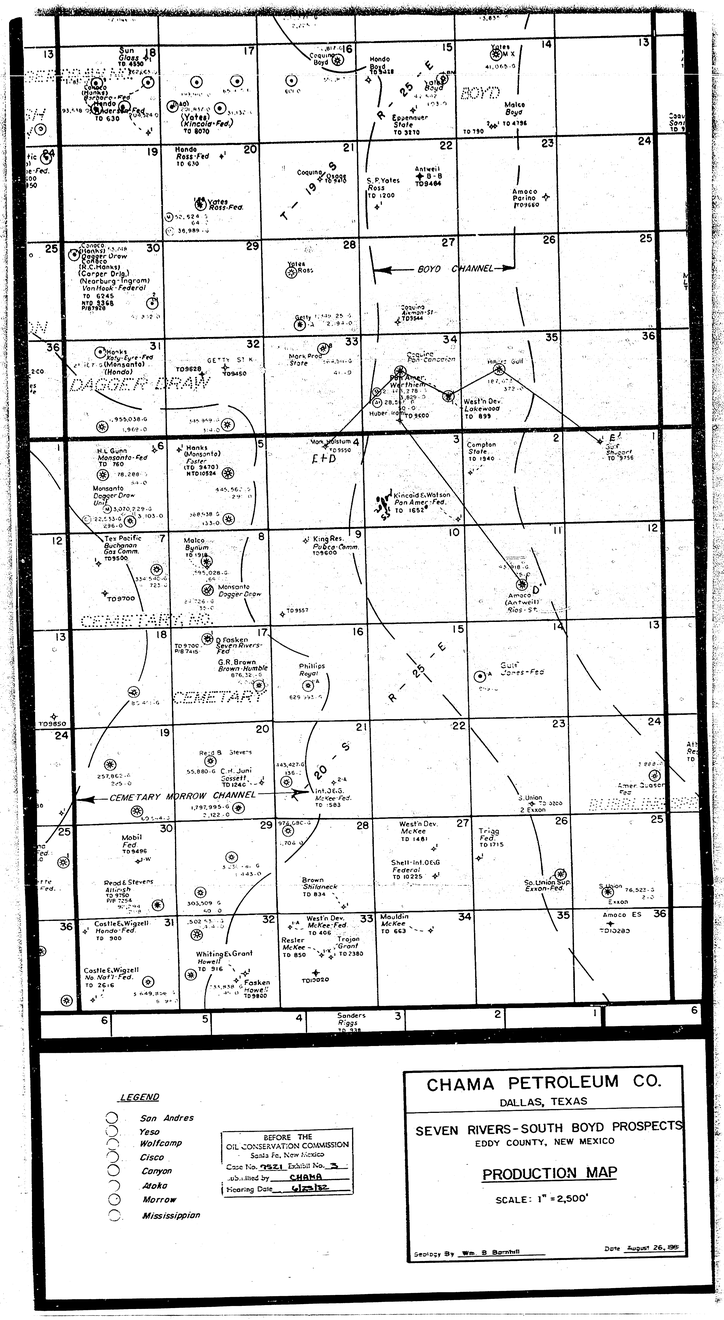
Surveyed By: James M. Montgomery Date: 2-4-82

Case No

7521

(DE NOVO)

Large Exhibits



LEGEND

- San Andres
- Yeso
- Wolfcamp
- Cisco
- Canyon
- Atoka
- Morrow
- Mississippian

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 7851 Exhibit No. 3
Submitted by CHAMA
Hearing Date 6/23/82

CHAMA PETROLEUM CO.

DALLAS, TEXAS

SEVEN RIVERS-SOUTH BOYD PROSPECTS

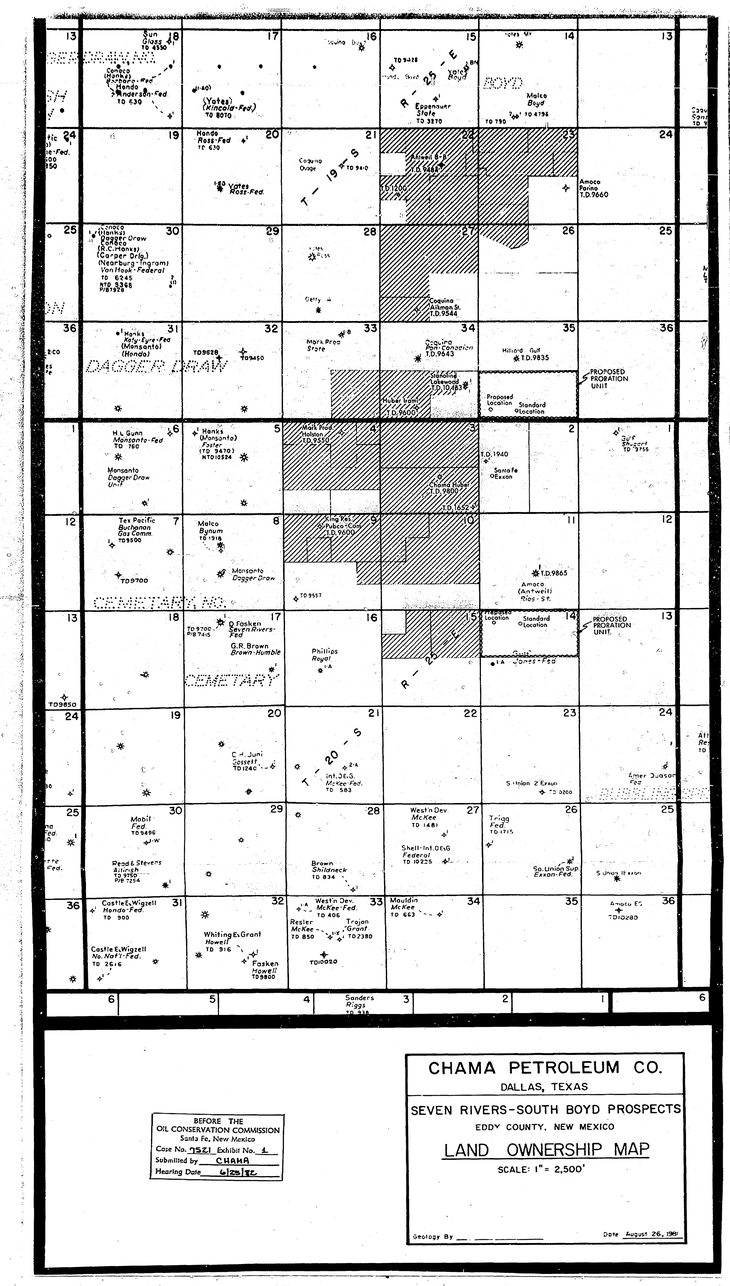
EDDY COUNTY, NEW MEXICO

PRODUCTION MAP

SCALE: 1" = 2,500'

Geology By Wm. B. Barnhill

Date August 26, 1981



BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 7521 Exhibit No. 4
Submitted by CHAMA
Hearing Date 6/25/82

CHAMA PETROLEUM CO.

DALLAS, TEXAS

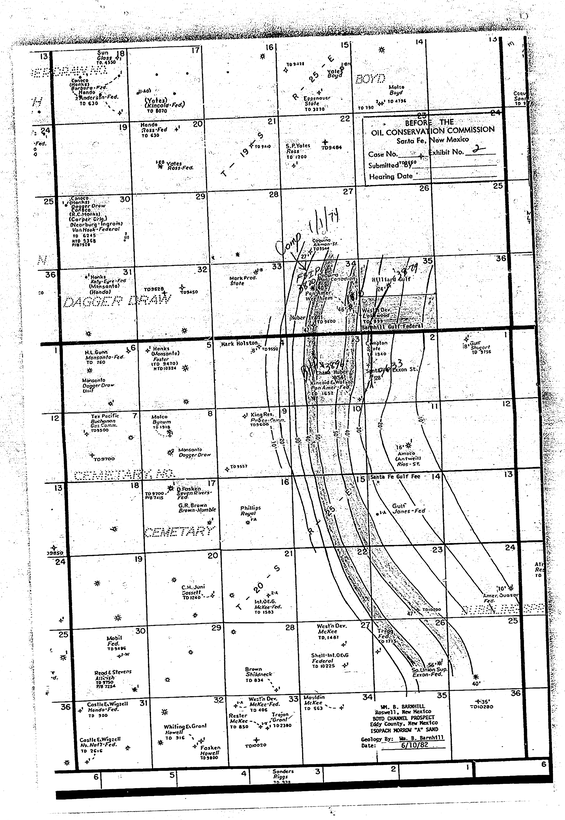
SEVEN RIVERS-SOUTH BOYD PROSPECTS

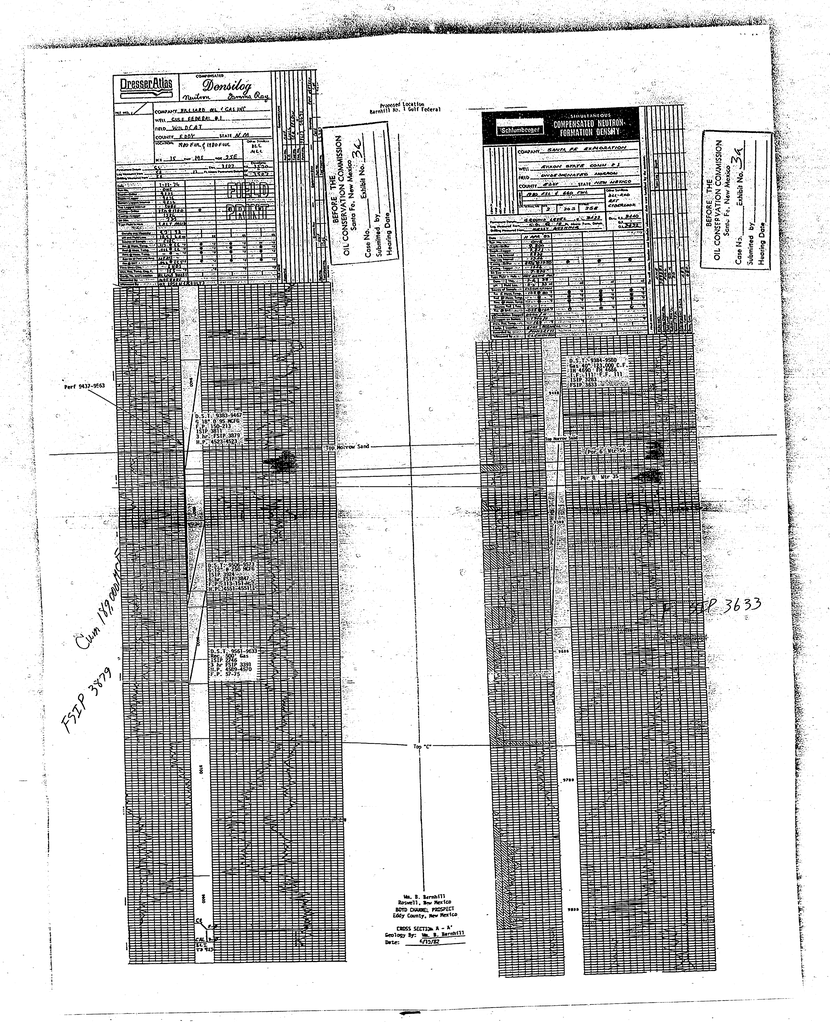
EDDY COUNTY, NEW MEXICO

LAND OWNERSHIP MAP

SCALE: 1" = 2,500'

Geology By _____ Date August 26, 1981


BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. Exhibit No. 2
Submitted by
Hearing Date
T-19-S
R-25-E
BOYD
DAGGER DRAW
CEMETARY
Gulf 1-A Discovery TD 7758
Santa Fe Gulf Fee
Gulf Jones-Fed
Amoco (Actual) Wtr. Sply.
Amoco Queen
Sec. 20
Mesa Petr. Co. Union Sup. Comm-Fed.
Shell-Int.OGG Federal TD 10225
Walsh Dev. McAfee TD 11481
Meridian McAfee TD 463
Phillips Royal
Sanders Royal TD 3150
Brown Shiloneck TD 834
Walsh Dev. McKay-Fed. TD 495
Roster Baker TD 850
Trojan Grace TD 10070
Whiting-Grant Howell TD 916
Parker Howell TD 3690
Castle-Wigzell Howell-Fed. TD 930
Castle-Wigzell Wh.Mart-Fed. TD 3240
Mt. Mesa Petr. Co. Union Sup. Comm-Fed.
Mt. B. BASWELL
Roswell, New Mexico
ROSS CHANNEL PROSPECT
Eddy County, New Mexico
ISOPACH MORROW "A" SAND
Geology by: M. B. Baswell
Date: 9/10/82

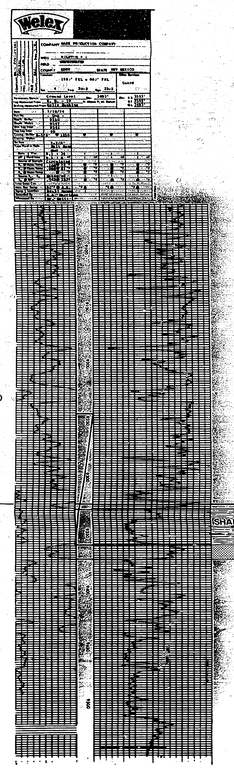

DresserAtlas
Densilog
Neutron
Gamma Ray
COMPANY BELCHER OIL & GAS INC.
WELL GAS FEDERAL #1
FIELD WILDCAT
COUNTY EDDY STATE N.M.
1980 FNL & 1980 FWL
SEC. 32 TWP. 19S RGE. 32E
PERMIT NUMBER
Perf 9432-9563
Morrow Sand
Cum 199 mcf/d
FSIP 3879
FSIP 3633
BEFORE THE OIL CONSERVATION COMMISSION Santa Fe, New Mexico Exhibit No. 24 Case No. Submitted by Hearing Date
Proposed Location Bennett Nr. 1 Gulf Federal
Schlumberger
COMPENSATED NEUTRON-FORMATION DENSITY
COMPANY GAHA, INC. EXPLORATION
WELL ROCKY RIDGE UNIT #1
FIELD WILDCAT/UNDESIGNATED MORROW
COUNTY EDDY STATE NEW MEXICO
1980' FNL & 660' FWL
LOCATION
Wm. D. Barnhill
Roswell, New Mexico
ROCK CHANNEL PROSPECT
Eddy County, New Mexico
CROSS SECTION A - A'
Geology by: Wm. D. Barnhill
Date: 4/15/82

Schlumberger
COMPENSATED NEUTRON-FORMATION DENSITY
COMPANY EARTH PETROLEUM COMPANY
WELL HOWE FEDERAL NO. 1
FIELD WILDCAT-MORROW
COUNTY EDDY STATE NEW MEXICO
LOCATION 1980' FSL & 1980' FEL
Other Services
DIL
BHC
CDM
CDN
Permanent Datum
Log Measured From
Drilling Measured From
Elev.: K.B.
D.F.
G.L.
Date
Run No.
Depth-Driller
Depth-Logger
Bottom Logged Interval
Top Logged Interval
Type Fluid in Hole
Salinity, PPM Cl
Density
Viscosity
pH
Fluid Loss
Source of Sample
Rm @ Meas. Temp.
Rmf @ Meas. Temp.
Rmc @ Meas. Temp.
Source of Rmf
Source of Rmc
Rm @ BHT
Time Since Circ.
Max. Rec. Temp.
Equip. No. & Location
Recorded By
Witnessed By
RUN NO. ONE
DATE
TYPE FLUID IN HOLE
DENSITY
VISCOSITY
PH
FLUID LOSS
SOURCE OF SAMPLE
RM @ MEAS. TEMP.
RMF @ MEAS. TEMP.
RMC @ MEAS. TEMP.
SOURCE OF RMF
SOURCE OF RMC
RM @ BHT
TIME SINCE CIRC.
MAX. REC. TEMP.
EQUIP. NO. & LOCATION
RECORDED BY
WITNESSED BY
RUN NO.
DATE
TYPE FLUID IN HOLE
DENSITY
VISCOSITY
PH
FLUID LOSS
SOURCE OF SAMPLE
RM @ MEAS. TEMP.
RMF @ MEAS. TEMP.
RMC @ MEAS. TEMP.
SOURCE OF RMF
SOURCE OF RMC
RM @ BHT
TIME SINCE CIRC.
MAX. REC. TEMP.
EQUIP. NO. & LOCATION
RECORDED BY
WITNESSED BY
RUN NO.
DATE
TYPE FLUID IN HOLE
DENSITY
VISCOSITY
PH
FLUID LOSS
SOURCE OF SAMPLE
RM @ MEAS. TEMP.
RMF @ MEAS. TEMP.
RMC @ MEAS. TEMP.
SOURCE OF RMF
SOURCE OF RMC
RM @ BHT
TIME SINCE CIRC.
MAX. REC. TEMP.
EQUIP. NO. & LOCATION
RECORDED BY
WITNESSED BY
RUN NO. ONE
DATE 6-4-82
TYPE FLUID IN HOLE SALT GEL
DENSITY 10.0
VISCOSITY 38
PH 10.5
FLUID LOSS 6.4
SOURCE OF SAMPLE PIT
RM @ MEAS. TEMP. .83 @ 70°F
RMF @ MEAS. TEMP. .61 @ 70°F
RMC @ MEAS. TEMP. 1.1 @ 70°F
SOURCE OF RMF PIT
SOURCE OF RMC PIT
RM @ BHT .37 @ 160°F
TIME SINCE CIRC. 12 HRS
MAX. REC. TEMP. 160°F
EQUIP. NO. & LOCATION 3506 HOBBS
RECORDED BY
WITNESSED BY
RUN NO. TWO
DATE 6-5-82
TYPE FLUID IN HOLE SALT GEL
DENSITY 10.0
VISCOSITY 38
PH 10.5
FLUID LOSS 6.4
SOURCE OF SAMPLE PIT
RM @ MEAS. TEMP. .83 @ 70°F
RMF @ MEAS. TEMP. .61 @ 70°F
RMC @ MEAS. TEMP. 1.1 @ 70°F
SOURCE OF RMF PIT
SOURCE OF RMC PIT
RM @ BHT .37 @ 160°F
TIME SINCE CIRC. 12 HRS
MAX. REC. TEMP. 160°F
EQUIP. NO. & LOCATION 3506 HOBBS
RECORDED BY
WITNESSED BY
RUN NO. THREE
DATE
TYPE FLUID IN HOLE
DENSITY
VISCOSITY
PH
FLUID LOSS
SOURCE OF SAMPLE
RM @ MEAS. TEMP.
RMF @ MEAS. TEMP.
RMC @ MEAS. TEMP.
SOURCE OF RMF
SOURCE OF RMC
RM @ BHT
TIME SINCE CIRC.
MAX. REC. TEMP.
EQUIP. NO. & LOCATION
RECORDED BY
WITNESSED BY
CASING RECORD
SIZE
WGT.
GRADE
FROM
TO
BIT SIZE
13 3/8" @ 1000'
8 5/8" @ 4100'
7 7/8" @ 9100'
1000
4100
9100
9100
Run No. ONE
Depth-Driller 9100
Depth-Logger 9100
Bottom Logged Interval 9100
Top Logged Interval 4100
Type Fluid in Hole SALT GEL
Salinity, PPM Cl
Density 10.0
Viscosity 38
pH 10.5
Fluid Loss 6.4
Source of Sample PIT
Rm @ Meas. Temp. .83 @ 70°F
Rmf @ Meas. Temp. .61 @ 70°F
Rmc @ Meas. Temp. 1.1 @ 70°F
Source of Rmf PIT
Source of Rmc PIT
Rm @ BHT .37 @ 160°F
Time Since Circ. 12 HRS
Max. Rec. Temp. 160°F
Equip. No. & Location 3506 HOBBS
Recorded By
Witnessed By
4100
9100
9100
4100
9100
9100
4100
9100
9100

CROSS SECTION E-E'

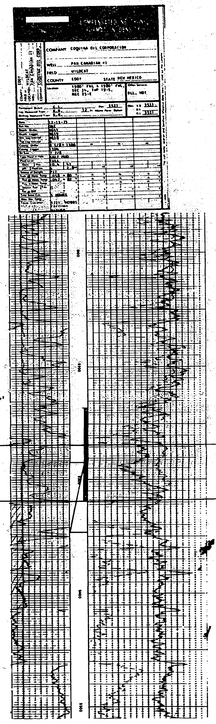
E

E'



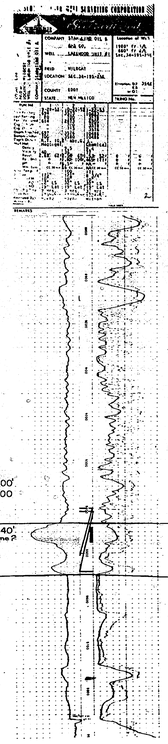
D.S.T. 9245-9350
Rec. 160' Mud
I.S.I.P. 533
F.S.I.P. 1131
F. P. 4374 - 4374

NO "B" CHANNEL SAND
ON BANK



D.S.T. 9284'-9347'
G.T.S. 1" 14m
I.S.I.P. 3820
F.S.I.P. 3820
F.P. 1697-1861

"A" & "B" CHANNEL SAND COMPLETION
I. P. MORROW 28.4 M. PERF. 9236 9318
RE-CPL. ATOKA 1.2 M. PERF. 8838'-41'
8866'-80'
8917'-22'
CHANNEL

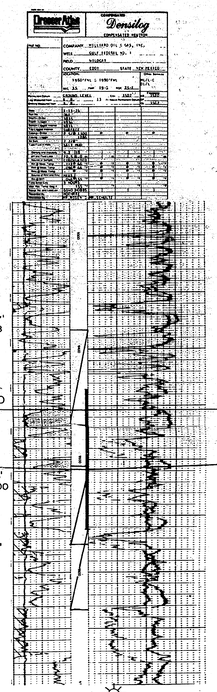


D.S.T. 9397'-9500'
G.T.S. 35"-47,000
S.I.P. 2936
F.P. 115

D.S.T. 9407'-9540'
G.T.S. 95" Volume ?
S.I.P. 1810
P.P. 220

* NOTE LOG SCALE 1"=100'
I. P. MORROW 357,000
Perf. 9442'-75'
SEE COMPLETION CARD 1-27-53
CHANNEL

TOP "A" CHANNEL SAND

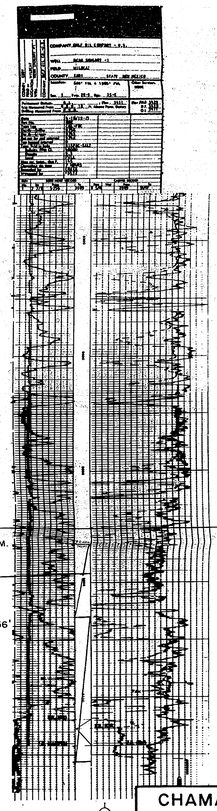


D.S.T. 9383'-9467'
G.T.S. 18"-160,008
I.S.I.P. 3811
F.S.I.P. 3879
F.P. 150-213

D. S.T. 9506'-9573'
G.T.S. 12"-250,000
I.S.I.P. 3924
F.S.I.P. 3847
F.P. 113-151

D.S.T. 9561'-9633'
Rec. 500' Gas
18' GCM
I.S.I.P. 2746
F.S.I.P. 3391
F. P. 57-75

"A" & "B" CHANNEL SAND COMPLETION
I. P. MORROW 2.6M. PERF. 9437'-9563'
CHANNEL



D.S.T. 9565-9631
G.T.S. 63" T.S.T.M.
I.S.I.P. 1122
F.S.I.P. 2963
F.P. 94-140

D.S.T. 9672'-9756'
Rec. 480 M
I.S.I.P. 836
F.S.I.P. 773
F.P. 198-209

NO CHANNEL SAND
ON BANK

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 7521 Exhibit No. 4
Sub-mitted by CHAMA
Hearing Date 6/15/82

CHAMA PETROLEUM CO.
DALLAS, TEXAS

SEVEN RIVERS-SOUTH BOYD PROSPECTS
EDDY COUNTY, NEW MEXICO

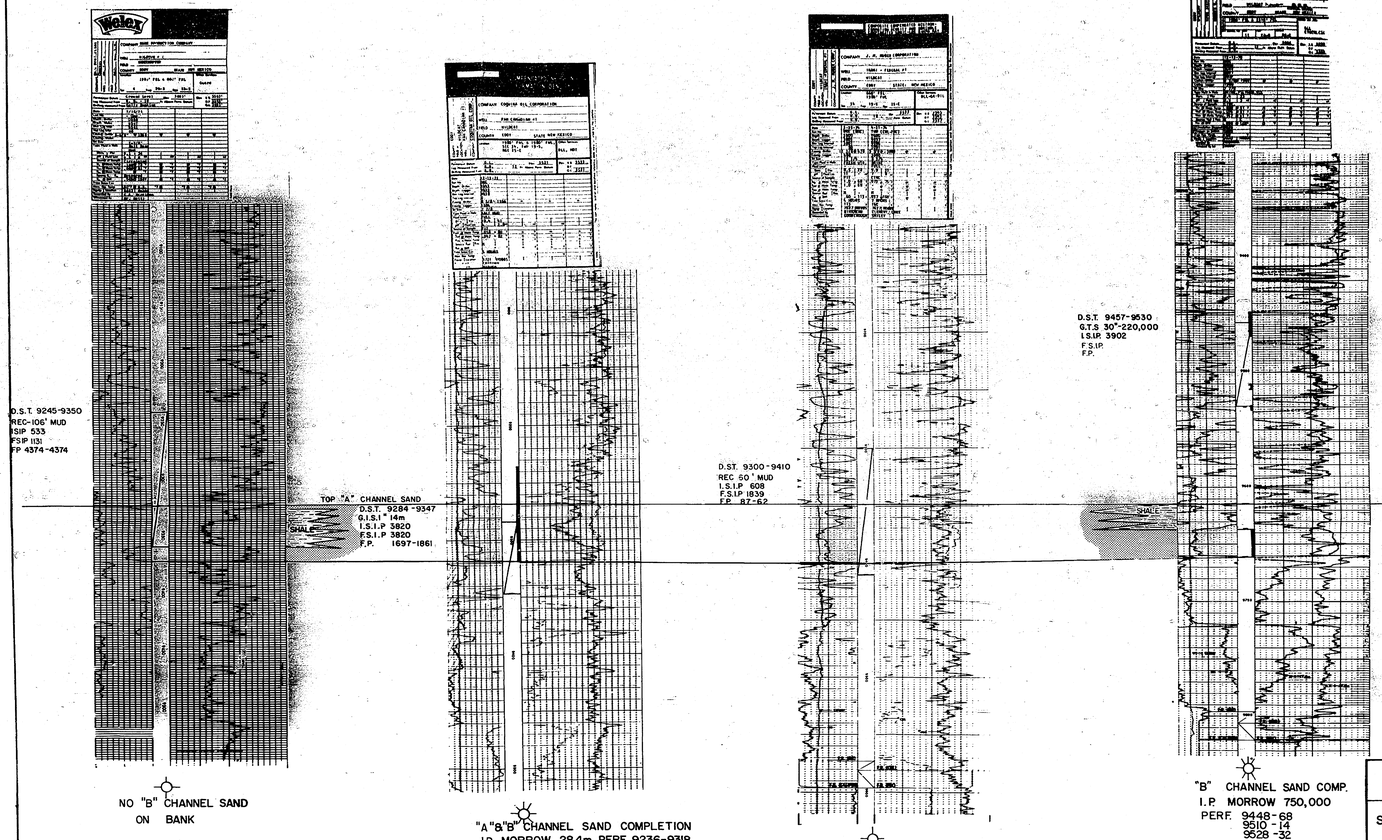
CROSS SECTION E-E'

Geology By Wm. B. Barnhill
Date: August 26, 1981

CROSS SECTION D-D'

D

D'



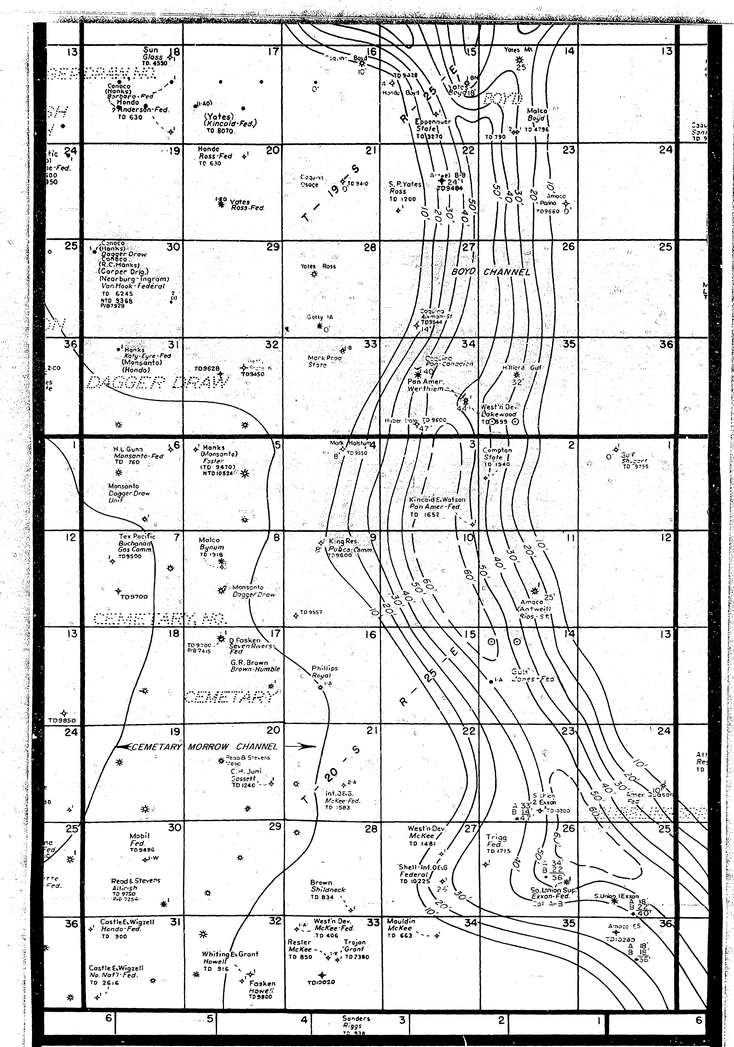
BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 7571 Exhibit No. 5
Submitted by CHAMA
Hearing Date 6/27/82

CHAMA PETROLEUM CO.
DALLAS, TEXAS

SEVEN RIVER-SOUTH BOYD PROSPECTS
EDDY COUNTY, NEW MEXICO

CROSS SECTION D-D

Geology By Wm. B. Barnhill Date: August 26, 1981



BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 852.1 Exhibit No. 6
Submitted by Chama
Hearing Date 4/25/85

CHAMA PETROLEUM CO.

DALLAS, TEXAS

SEVEN RIVERS-SOUTH BOYD PROSPECTS

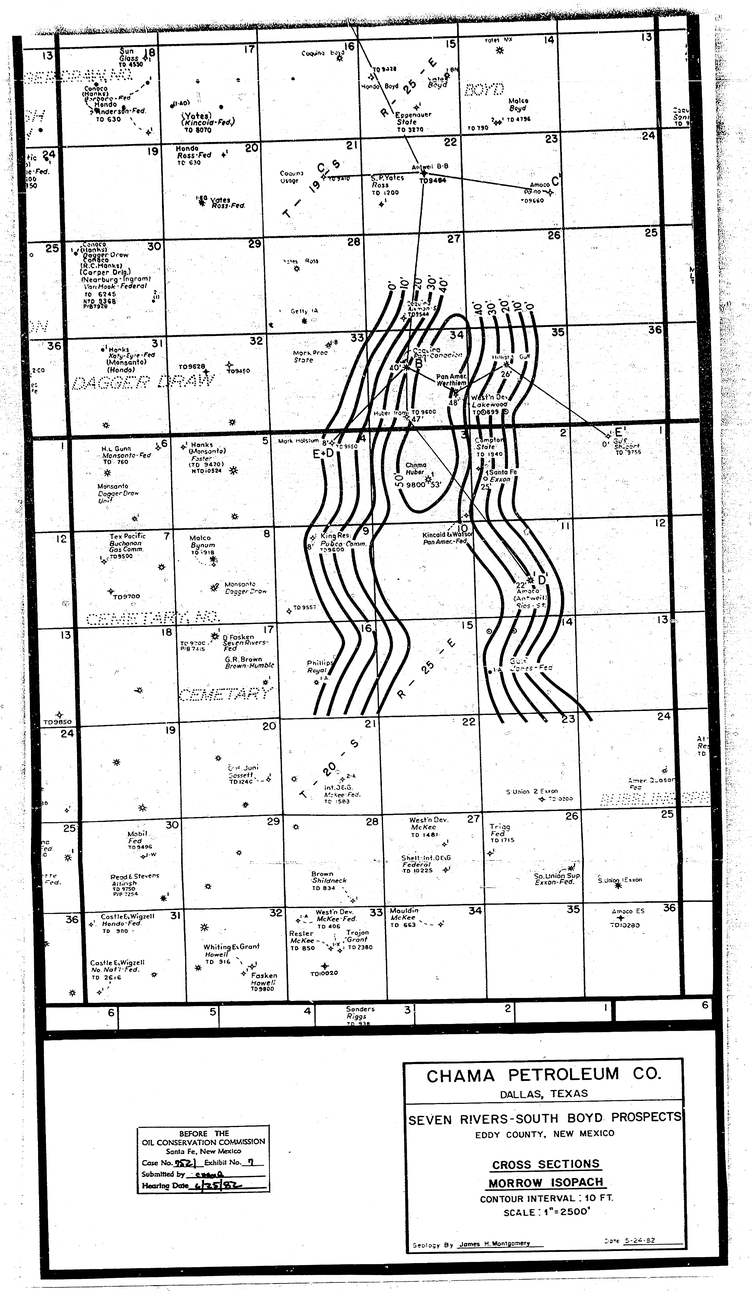
EDDY COUNTY, NEW MEXICO

ISOPACH MORROW "B" CHANNEL

Contour Interval = 10'

Scale: 1" = 2,500'

Geology By Wm. B. Barnhill Date August 26, 198



BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 952 Exhibit No. 7
Submitted by Chama
Hearing Date 6-25-82

CHAMA PETROLEUM CO.

DALLAS, TEXAS

SEVEN RIVERS-SOUTH BOYD PROSPECTS

EDDY COUNTY, NEW MEXICO

CROSS SECTIONS

MORROW ISOPACH

CONTOUR INTERVAL : 10 FT.

SCALE : 1"=2500'

Geology By James H. Montgomery Date 5-24-82