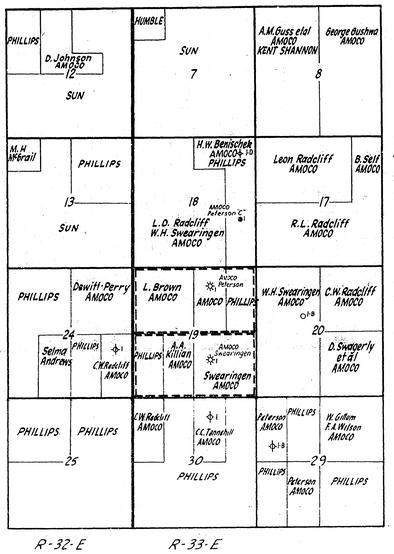
Case No.
4962

Large Exhibits



Amoco Production Co.

PETERSON-PENN-POOL

Roosevelt County, New Mexico

Scale 1" = 2000'

Case 4982

BEST AVAILABLE COPY

PHILLIPS
Peterson "D"-1
Elev. 4472'

AMOCO

Peterson "C"-1
Elev. 4445'

Peterson "A" G.C.1
Elev. 4418'

Radcliff G.C. 1
Elev. 4410'

Swearingen "B"-1
Elev. 4417'

"A"
Swearingen G.C.1
Elev. 4416'

-3200

7714'
(-3242)

7604
(-3159)

7554'
(-3136)

(-3275)
7685

7602
(-3185)

7556
(-3140)

DST 7783-7886

DST 7702-7890

BEST AVAILABLE COPY

AMOCO

Peterson "A" G.C.1
Elev. 4418'

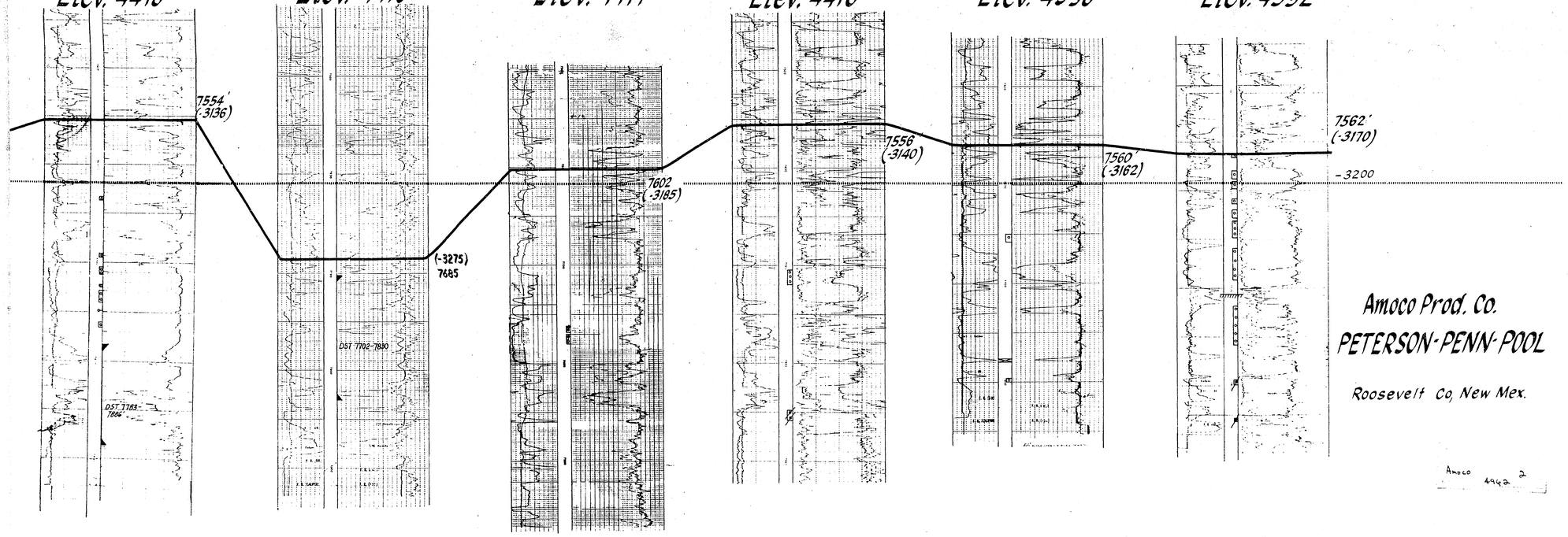
Radcliff G.C. 1
Elev. 4410'

Swearingen "B"-1
Elev. 4417'

"A"
Swearingen G.C.1
Elev. 4416'

Lambirth G.C. 1
Elev. 4398'

Peterson "B"-1
Elev. 4392'



Amoco Prod. Co.

PETERSON-PENN-POOL

Roosevelt Co, New Mex.

Amoco 4962 2

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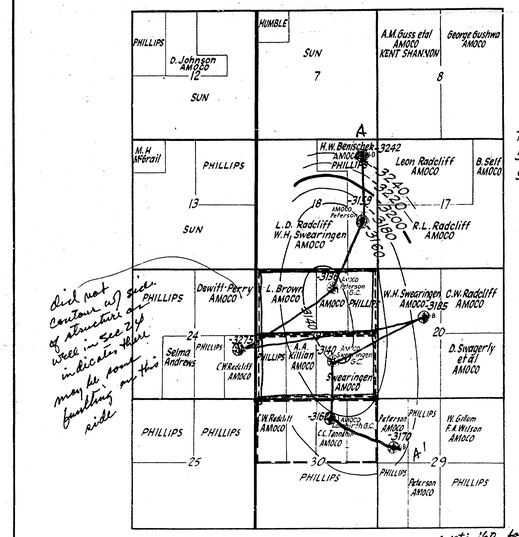


Amoco Production Co.

PETERSON-PENN-POOL

Roosevelt County, New Mexico

Scale 1" = 2000'

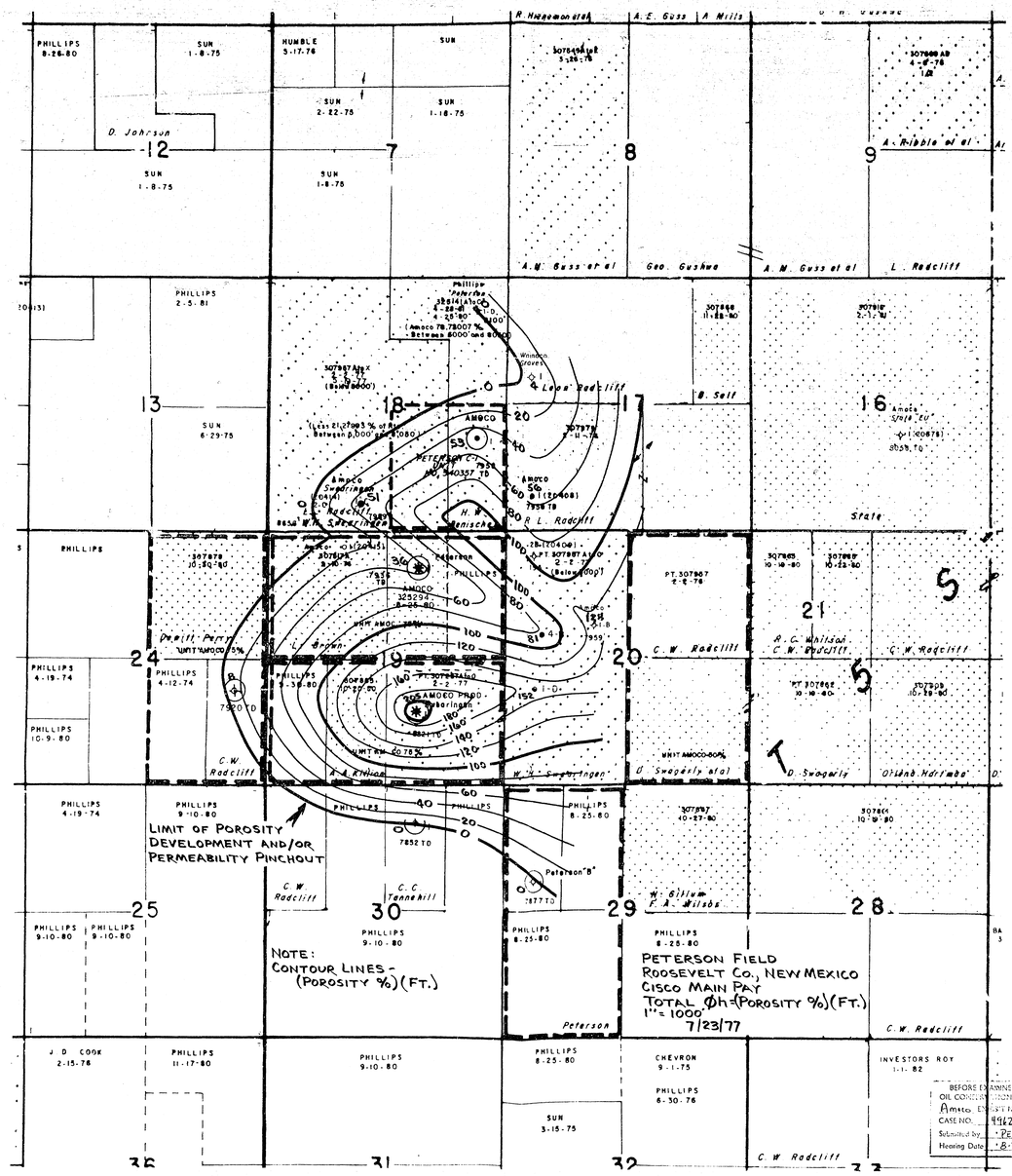
TOP of CISCO
C.I. = 20'
pink = gas
green = oil
brown = tested Cisco but no compl in Cisco

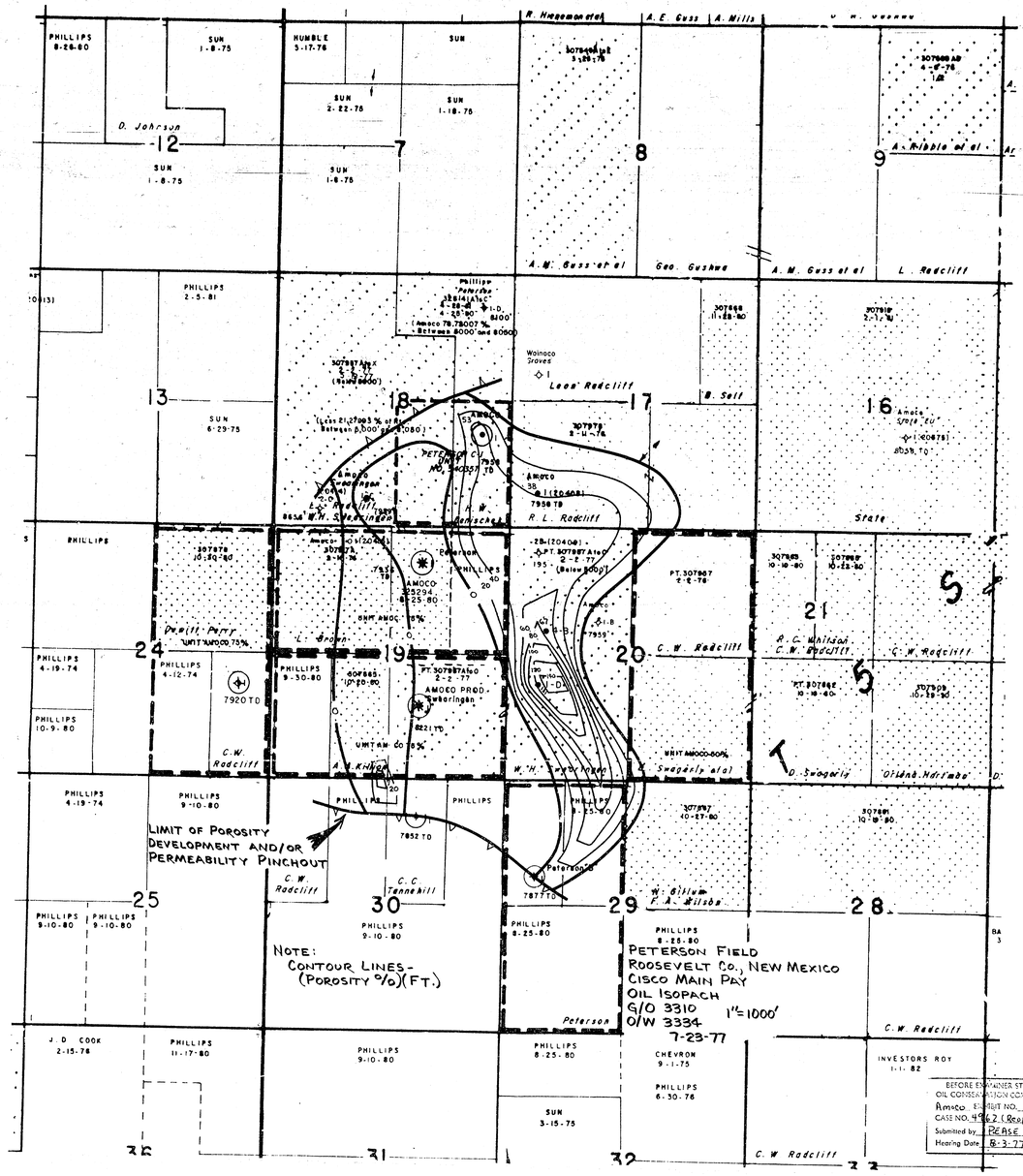
BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
AMOCO EXHIBIT NO. 1
CASE NO. 4963

did not contour w/ base of structure on well in sec 24 indicates there may be some faulting on the west side

request: 160 for oil w/160 acre DSA 7-7999
GOR Lat 4000/1
Class of well grow less than 60° or less than 2500 2/5/73

320 for gas
acreage for gas proportionate to oil well w/ 2 to 1 acre factor.


PHILLIPS 8-26-80
SUN 1-8-75
HUMBLE 5-17-76
SUN 2-22-75
SUN 1-18-75
D. Johnson
12
7
8
9
A. E. Guss
A. Mills
A. Ribble et al
A. M. Guss et al
Geo. Gushwa
L. Radcliff
PHILLIPS 2-5-81
SUN 6-29-75
13
18
17
16
20
AMOCO
Peterson
H. W. Benisch
R. L. Radcliff
B. Self
State
PHILLIPS
21
A. C. Walton
C. W. Radcliff
5
24
19
20
C. W. Radcliff
C. W. Radcliff
D. Swagerty et al
Orlando Hardman
LIMIT OF POROSITY DEVELOPMENT AND/OR PERMEABILITY PINCHOUT
25
30
29
28
C. C. Tannehill
Peterson "B"
W. Gilliam
P. A. Wilson
NOTE:
CONTOUR LINES -
(POROSITY %)(FT.)
PETERSON FIELD
ROOSEVELT CO., NEW MEXICO
CISCO MAIN PAY
TOTAL Φh=(POROSITY %)(FT.)
1" = 1000'
7/23/77
J. D. COOK 2-15-78
PHILLIPS 11-17-80
CHEVRON 9-1-75
INVESTORS ROY 1-1-82
SUN 3-15-75
31
32
33
35
BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
Amoco EXHIBIT NO. 15
CASE NO. 6442 (Reopened)
Submitted by PEASE
Hearing Date 8-3-77



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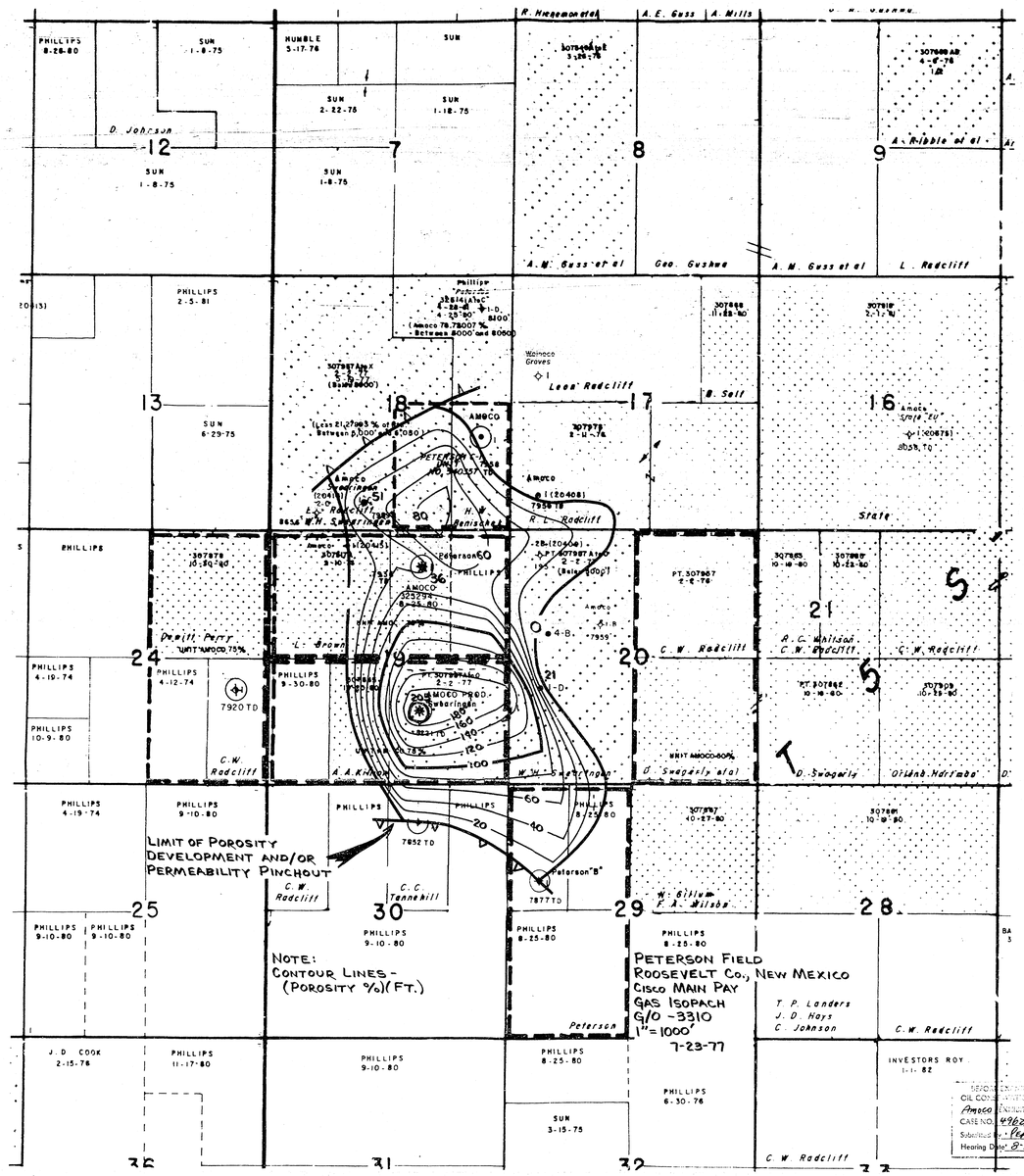

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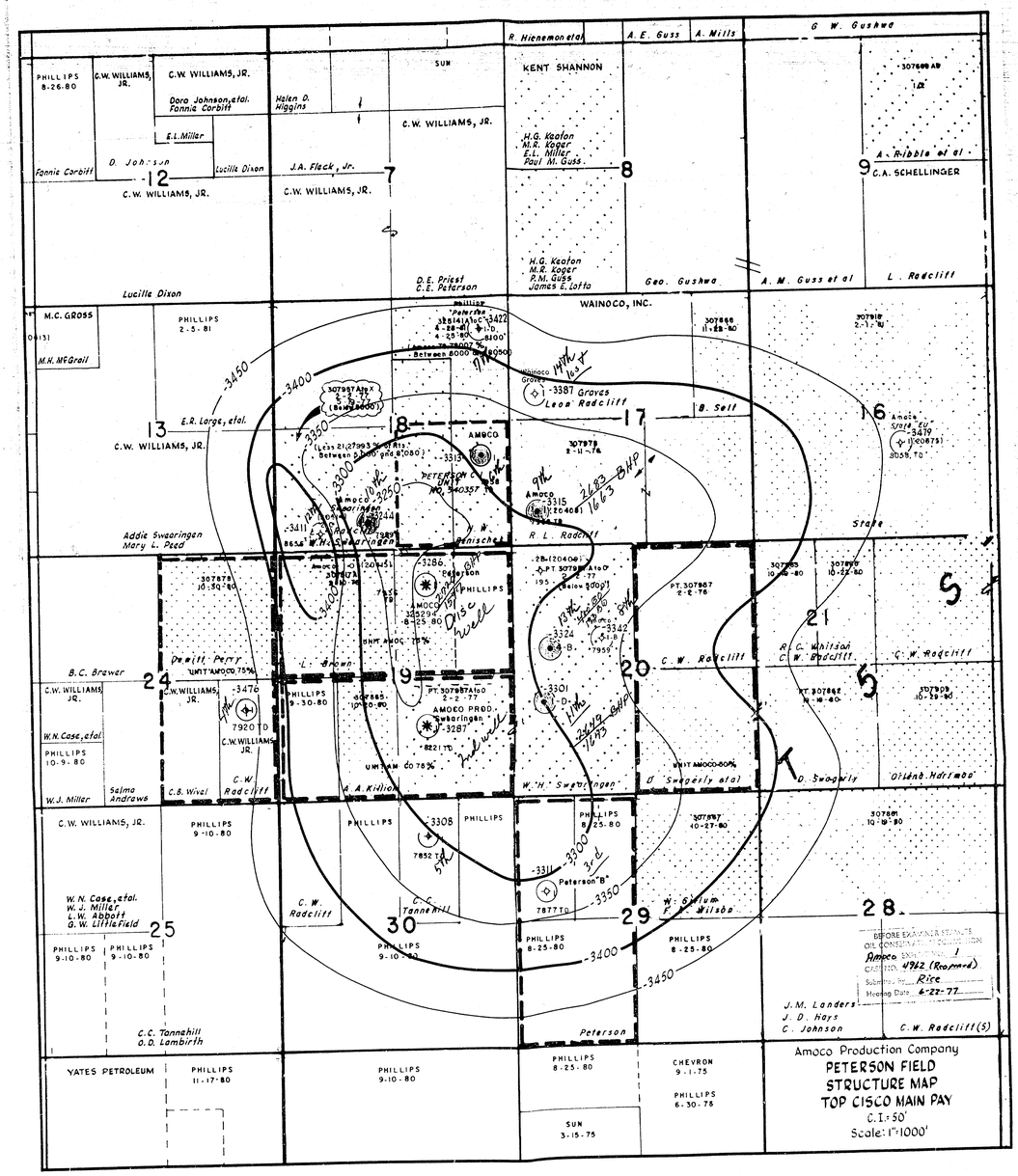


BEST AVAILABLE COPY

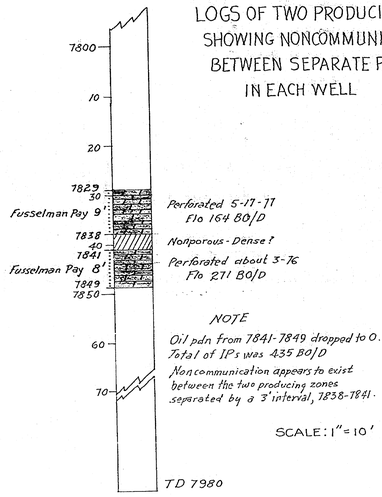
SWEARINGEN "C" NO. 1
SE/4 SW/4 SEC 18-T-5-S, R-33-E
(West offset to acreage dedicated to the Peterson in SE/4 Sec. 18)
Roosevelt Co., N.M.

RADCLIFF NO. 1
SW/4 SW/4 SEC 17-T-5-S, R-33E
(East offset to the Peterson acreage in Sec 18)
Roosevelt Co., N.M.

PETERSON PENN. FIELD

LOGS OF TWO PRODUCING WELLS SHOWING NONCOMMUNICATION BETWEEN SEPARATE PAYS IN EACH WELL

ON 40 AC.

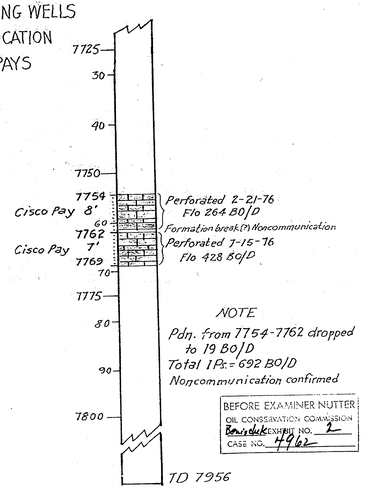


NOTE

Oil pdn from 7841-7849 dropped to 0.
Total of IPs was 435 BO/D
Noncommunication appears to exist between the two producing zones separated by a 3' interval, 7838-7841.

SCALE: 1" = 10'

ON 160 AC.



NOTE

Pdn. from 7754-7762 dropped to 19 BO/D
Total IPs = 692 BO/D
Noncommunication confirmed

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
Borsheck EXHIBIT NO. 2
CASE NO. 4962

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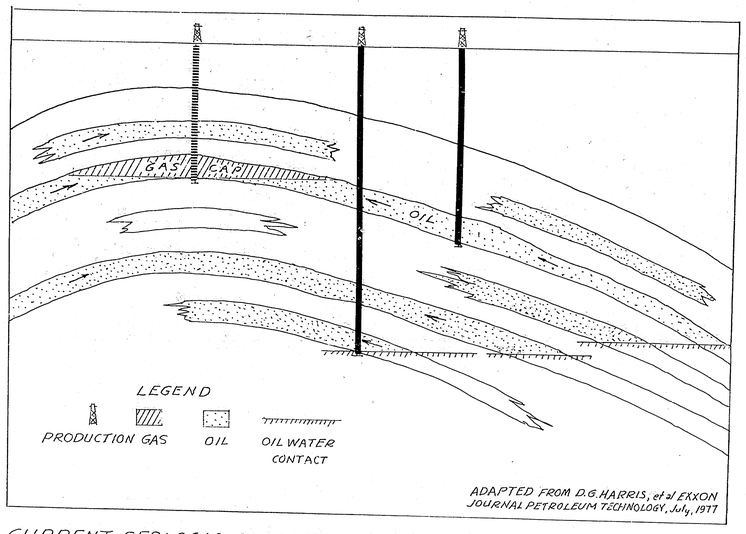

CURRENT GEOLOGIC CONCEPT OF CARBONATE CONTINUITY PATTERNS

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
Benedict EXHIBIT NO. 1
CASE NO. 4962

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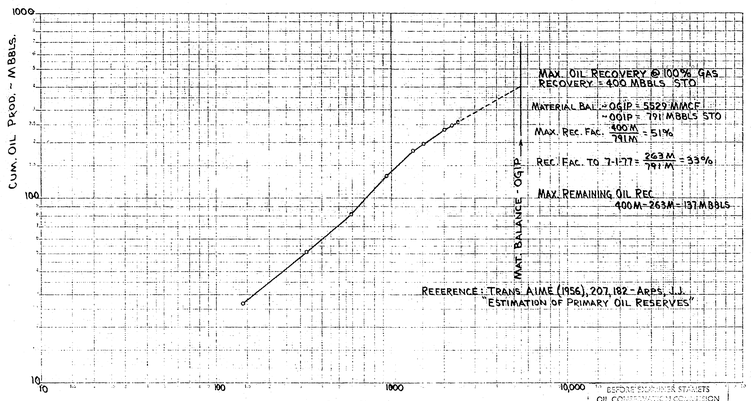
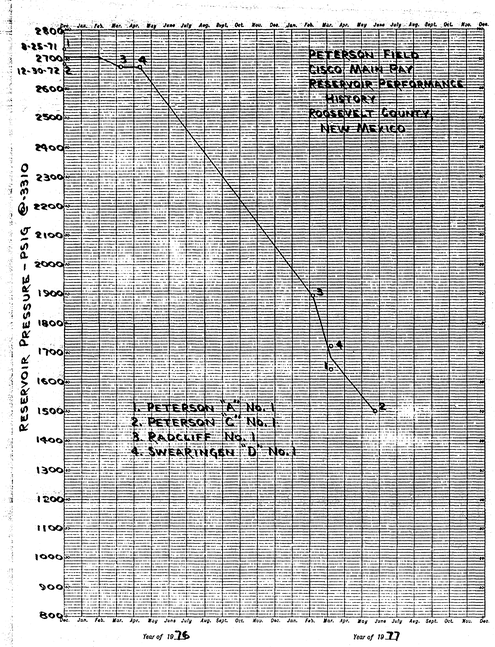
PETERSON FIELD
ROOSEVELT CO, NEW MEXICO
CISCO MAIN PAY
PERFORMANCE HISTORY



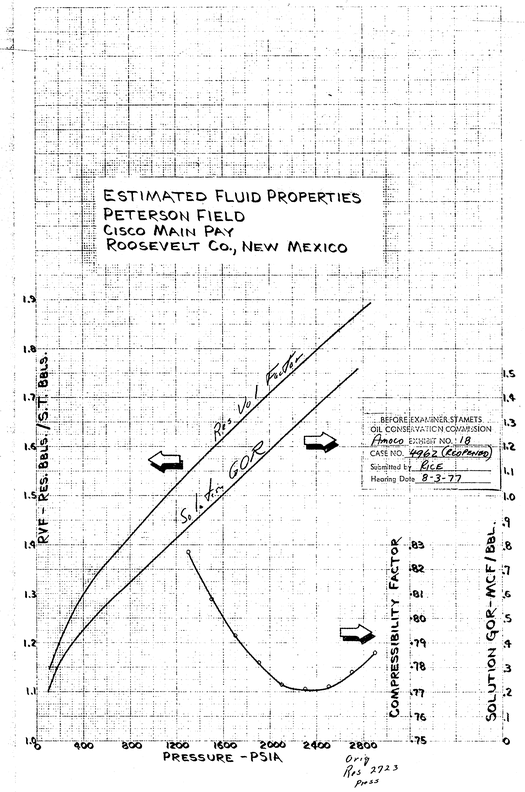
BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
Amoco EXHIBIT NO. 25
CASE NO. 4962 (Re-Opened)
Submitted by RICE
Hearing Date 8-3-77

BEST AVAILABLE COPY



BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
Amoco EXHIBIT NO. 21
CASE NO. 4962 Reopened
Submitted by Rice
Hearing Date 2/3/77

BEST AVAILABLE COPY



N.M.S.U. MICROGRAPHICS
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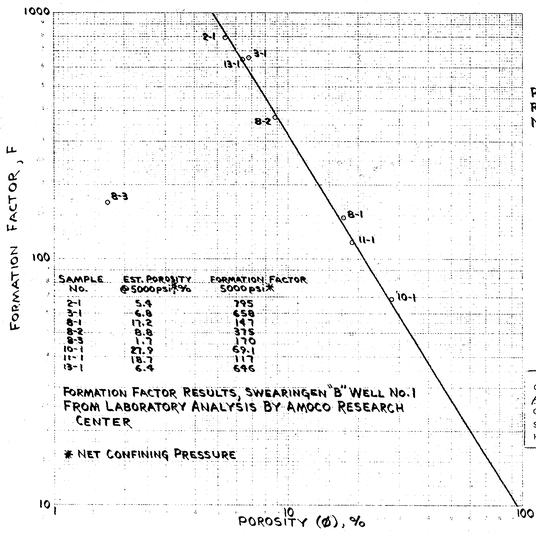

PETERSON FIELD
ROOSEVELT CO.,
NEW MEXICO

SAMPLE NO.	EST. POROSITY @5000psi* %	FORMATION FACTOR 5000 psi*
2-1	5.4	795
3-1	6.8	658
8-1	17.2	147
8-2	8.8	378
8-3	1.7	170
10-1	27.9	69.1
11-1	18.7	117
13-1	6.4	696

FORMATION FACTOR RESULTS, SWEARINGEN "B" WELL NO.1 FROM LABORATORY ANALYSIS BY AMOCO RESEARCH CENTER

* NET CONFINING PRESSURE

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
AMOCO EXHIBIT NO. 13
CASE NO. 6962 (REOPENED)
Submitted by PEASE
Hearing Date 9-3-77

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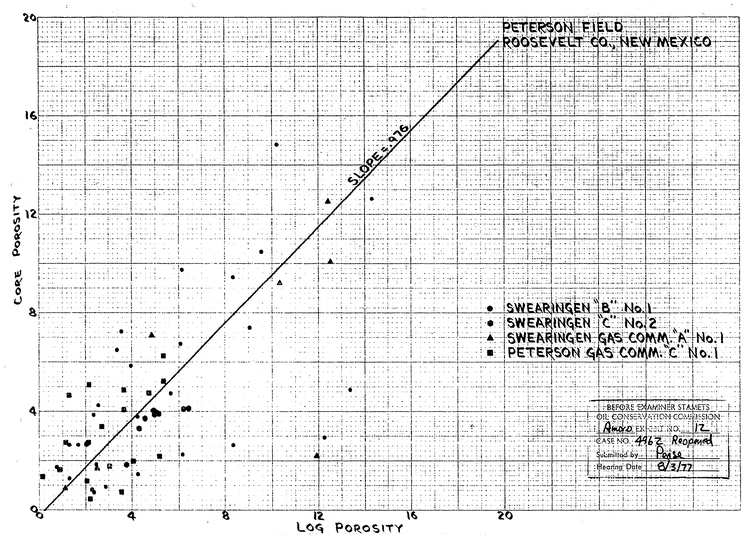

U.S.G.S. MICROFILMED
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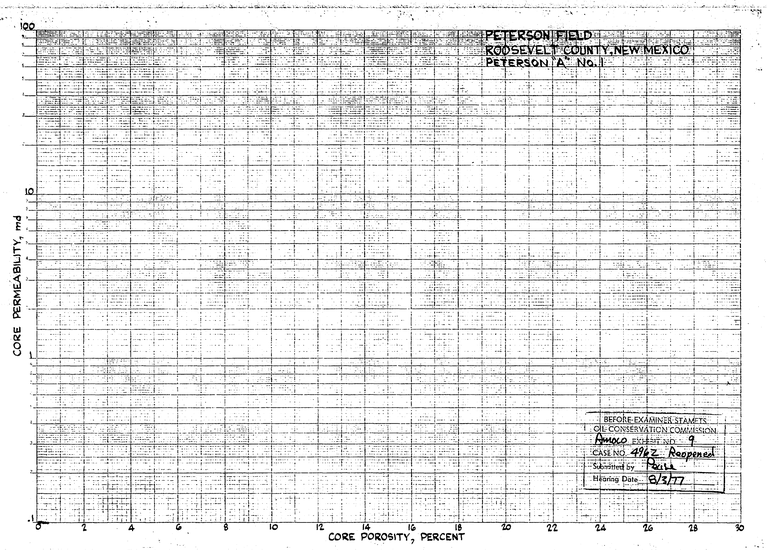

N.M.O.C.C. MICROGRAPHICS
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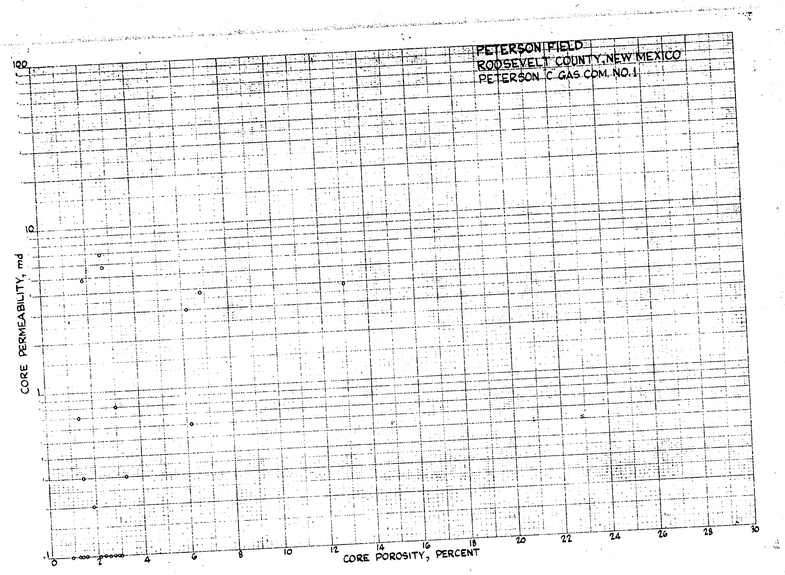

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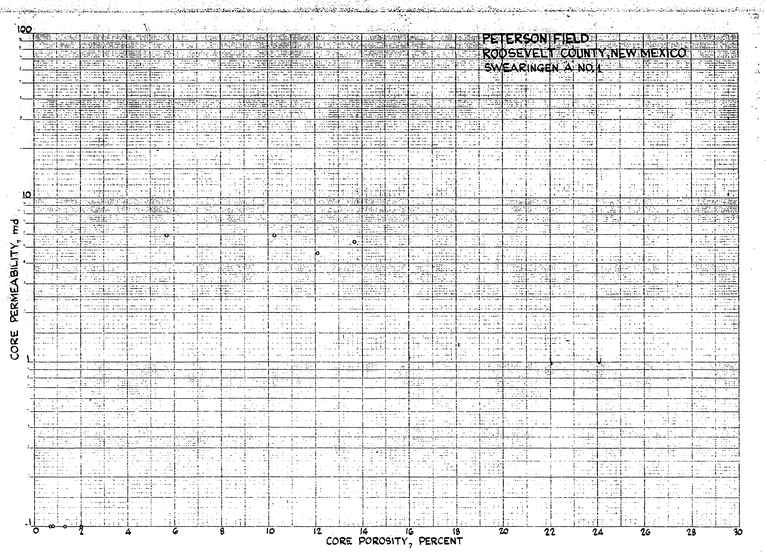

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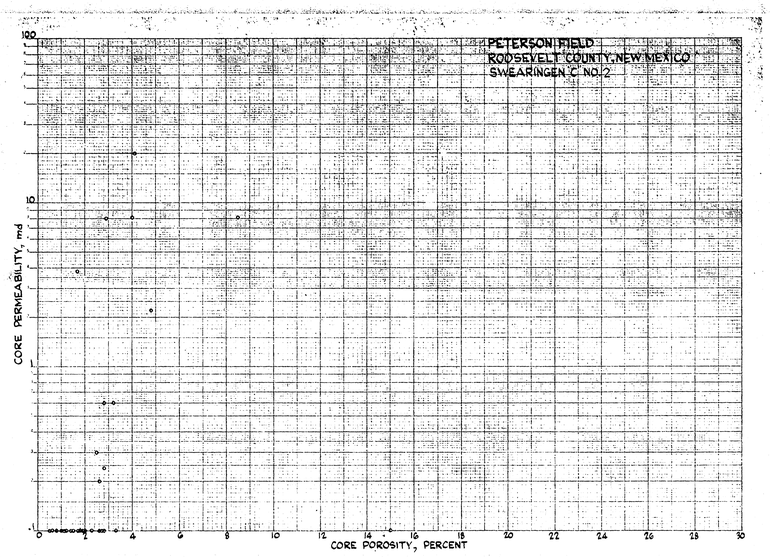

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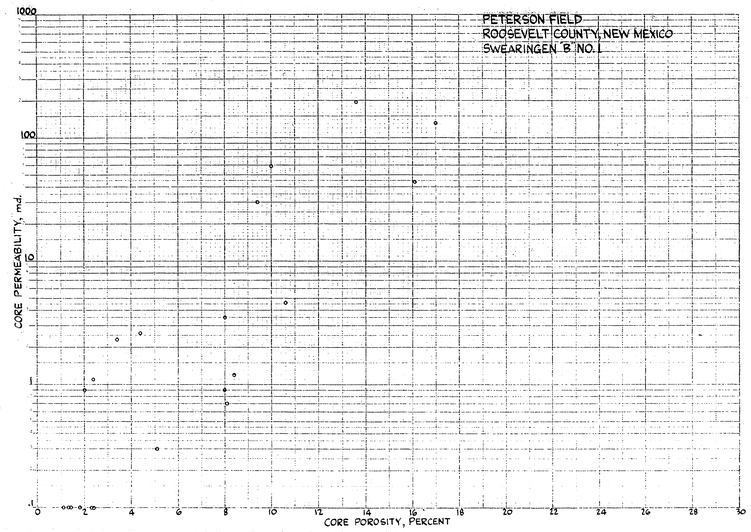

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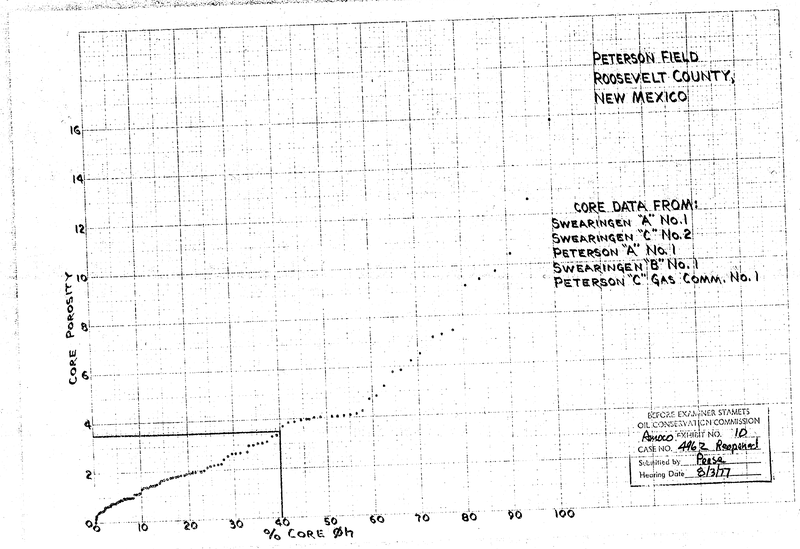

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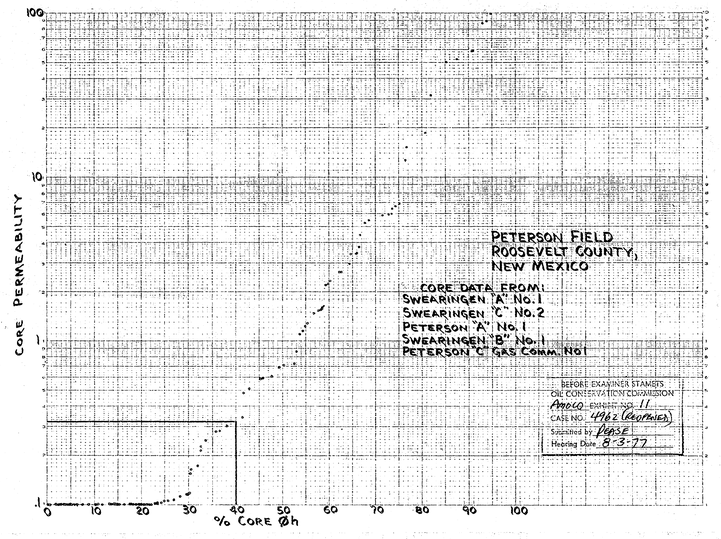

U.S.D.C.P. MICROGRAPHICS
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CORE LABORATORIES, INC. *Petroleum Reservoir Engineering*

623-3497

COMPANY AMOCO PRODUCTION COMPANY FIELD PETERSON (PENN) FILE 671-8923

WELL PETERSON "C" GAS COM NO. 1 COUNTY ROOSEVELT DATE 12-13-77

LOCATION 1980' FSL 660' FEL SEC 18, T3S, R33E STATE NEW MEXICO ELEV. 5465' GR

CORE-GAMMA CORRELATION

VERTICAL SCALE: 2" = 100'

CORE-GAMMA SURFACE LOG

GAMMA RAY
RADIATION INCREASES

COREGRAPH

PERMEABILITY — MILLIDARCYS
100 10 1.0 0.1

POROSITY — PERCENT
20 10

TOTAL WATER — PERCENT PORE SPACE
80 60 40 20 0

OIL SATURATION ..... PERCENT PORE SPACE
0 20 40 60 80

7600
7650
7700
7750
7800
7850
7900
7924

U.S.G.S. PHOTOGRAPHIC

BEST AVAILABLE COPY

CORE LABORATORIES, INC. *Petroleum Reservoir Engineering*

COMPANY [illegible] FIELD PETERSON FILE

WELL LAWRENCE GAS COMMISSION NO. 1 COUNTY ROOSEVELT DATE

LOCATION 660' FN & 1980' FEL STATE NEW MEXICO ELEV. 3396' GL

SEC 30-T5S-R32E

CORE-GAMMA CORRELATION

VERTICAL SCALE: 5" = 100'

CORE-GAMMA SURFACE LOG

GAMMA RAY
RADIATION INCREASES

COREGRAPH

TOTAL WATER
PERCENT PORE SPACE
0 20 40 60 80

PERMEABILITY
MILLIDARCIES
100 50 10 5 1 0.5 0.1

POROSITY
PERCENT
10 5

OIL SATURATION
PERCENT PORE SPACE
0 20 40 60 80

7550
7600
7650
7700
7750
7800
7850
7852

BEST AVAILABLE COPY

C

WAINOCO
GRAVES No. 1
Elev. 4461'

PETERSON "C" GAS COMM No. 1
Elev. 4445'

PETERSON "A" GAS COMM No. 1
Elev. 4418'

-3100

Cisco

Cisco Main Pay

Canyon

Fusselman

Top Porosity

Bottom Porosity

To 8043'

WAINOCO-DAVIES #1

DST 7806-8041
Open 1 hr. 15 Min., GTS during IFP @ 56
MCFGPD to 45 MCFGPD @ end of test, FFC 270° HOOH
1 hr. ISIP 2459#
2 hr. FSIP 2459#
2 hr. FSIP 2350#

DST-1P 7620-7660
Open 1 hr. 15 Min.
Rec. 15' Mud
1 hr. ISIP 500#
2 hr. FSIP 500#

DAA 11-1-75

PETERSON "C" NO. 1 GAS COM.

Csg. TD 7250 PBD 7094

11-24-72 Perf. 7159-7282 (2 JSPF) Ac./2500 gal. 15%
Max. Press. 2000# Min. Press. 400#
ISIP 600# 5 min. SIP 1hr. 4hr 2:1 BPM
Swb. 8 BLW/1 hr. SI 14 hrs.
Swb. 40 BLW/ 7 hrs. well kicked off
Flow 24 hrs. 64/64" Ch. 011 Gr. 45.3°
1 hr. SITP 2500#

11-27-72 Flw 12 BO + 12 BLW/2 hrs. 38/64" ch. (Showing
Choke Freezing up)
SI(Malfunction of separator)
30 hr. SITP 5900 SIBHP 7015#/24 hrs. @ 7245' (-20 BLW)

11-28-72 Prep'ing to test - have testing equipment on location
17 hrs. SITP 1200#
Flw 55 BO + 0W 2 hrs. (TUB BOPD)
20/64" Ch. FTP 800#
Flw 50 BO + 0 BW 3 hrs. (444 BOPD)
16/64" Ch. FTP 950# GOR 1504 (600 MCFGPD)
Flw 24 hrs. 12/64" Ch. FTP 1170 BOPD
12/64" Ch. FTP 900# GOR 1520 (600 MCFGPD)

11-29-72 IPF 294 BOPD 90 Hr. GR 45.0°
12/64" Ch. GOR 1500-1 (441 MCFGPD)
FTP 960# SITP 1560# remultiately

WAINOCO #1 PETERSON "A" G. C. M.

DST: 7630-7770, Open :15 Preflow.
GTS: 14 # 864 on 1/4" ch.
Final-open 2 hrs. test.
1:00 - 1.5# - 1.5 MCFGPD
1:30 - 725# - 439 MCFGPD
3:00 - 485# - 526 MCFGPD
Rec. 465' HOCM
Spl. 3% 425# 4.8 Cu. ft. Gas +
200 cc cond. + 600 cc GCM
Condensate Gravity = 60.6 @ 60° F
FP 250-425# ISIP 2561/90 FSIP 2747/3:00

First Gas Kick @ 7707; gd gas thru 7800'

Core: 7724-7784 sd gas kick while coring -
Rec. 60' Sd, Sh, Ls, Dol thin with Tr. Sa
Poor Fl Gas & Stain to 7774'.

DST: 7783-7884 Top 70' Fusselman
Op 16 min Preflow, + 1 hrs. Good blow throughout
GTS @ 2M
Rec. 945' GCM + 150' Fl + 470' GCM
+150 cc Cond. + 2.5 Cu. ft. Gas #1.
Gravity = 60.6° @ 60° F. 1500 cc Cu2 Wtr.
FP 420-1296# ISIP 2861/90 FSIP 2901/3:00

Perf. 7632-35, Th 7695-94, [704-12, 7722-24,
7728-83, 7760, 7766-64,
AC/7801 w/1 gal Phs - 2500 g
Frac w/ 30,000 gal + 20/40 Ch. TPP 3600#
12 hr. ISIP 2401#

POOR PI. TEST - CAOF 7290 MCFD + Est. 36 Bbls Cond./MMCF
Condensate Gr. 70.5° @ 60° F.

Flw Rate	Time	Ch. Size	Flw. Rate	SCP Press.	TP	BHP
SI	90 Hr.	SI			3202	2720
1	1 Hr.	20	1514	203	1424	2720
2	1 Hr.	24	2027	278	1695	2370
3	1 Hr.	28	2816	338	1561	2190
4	1 Hr.	32	3369	393	1443	2080

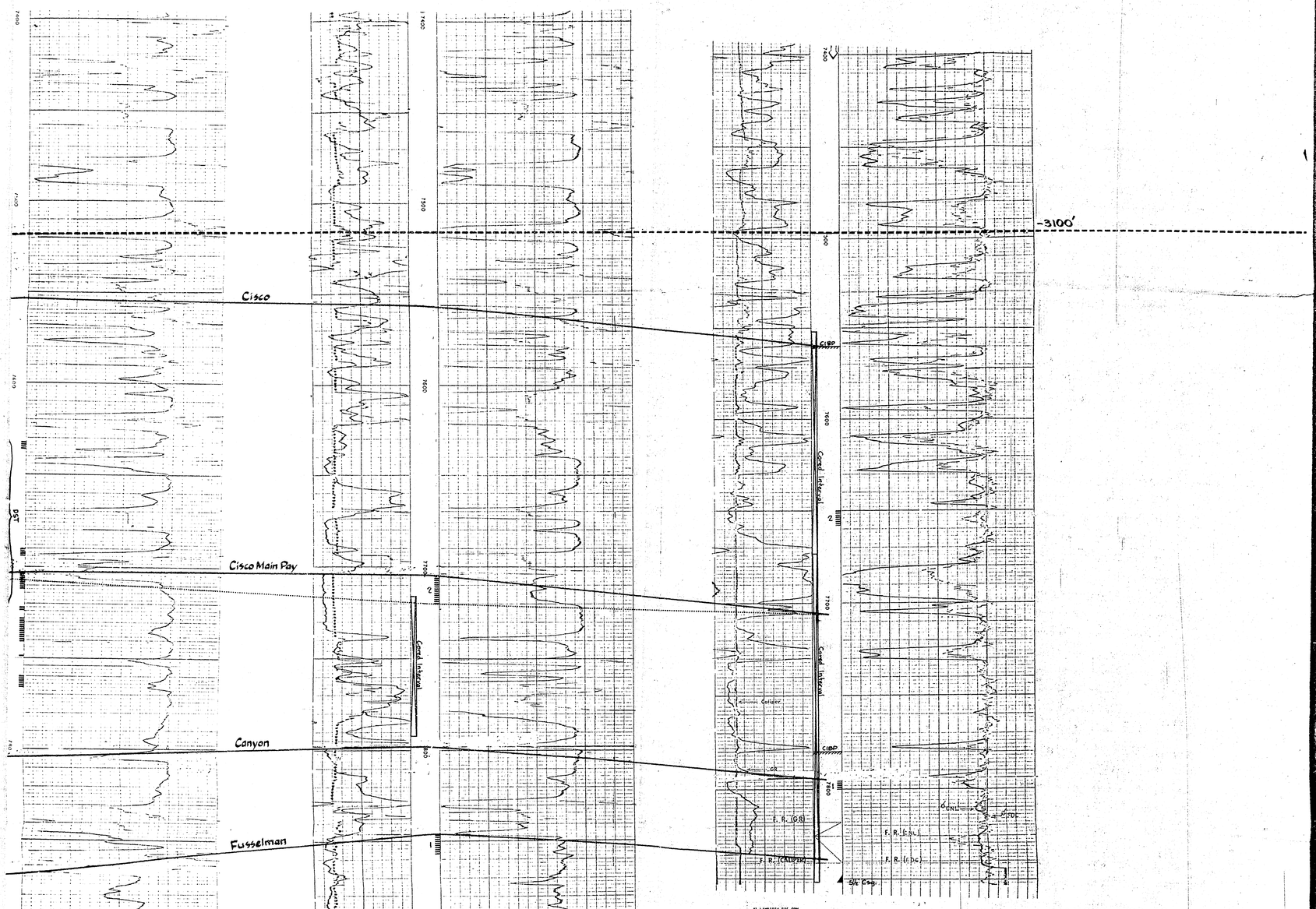
STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

C'

4" GAS COMM No.1
4418'

SWEARINGEN No. 1
Elev. 4416'

LAMBIRTH GAS COMM No.1
Elev. 4397



W. M. S. C. #1

Open 15 mreflow
1 hr. 1/4" ch.
3 hrs. test

IP - 439 MCFGPD
- 526 MCFGPD
MCM
754 # Ø Cu. Ft. Gas *
1,100 cc. GCM
** 1,100 cc. = 600 cc Cut Wtr.
BH ISIP 2969/690 FSIP 2969/913:00

T: 7690-96, 7704-12, 7722-24,
7746, 7760-66,
7774-7800
CIBP@ 7810'
P 2825'

CAOF 7390 MCFD • Cal. 36 Bbls Cond./MMCF
Condensate Gr. 70.3° @ 60° F.

No.	Wh. Size	Flw. Hours	Orif. Press.	TP	BHP
1.	SI			2522	2710
2.	20	3514	202	1614	2420
3.	24	2027	278	1630	2420
4.	28	2916	338	1561	2385
5.	SI	3348	353	1483	2360

AMOCO #1 SWEARINGEN J-10-5S-33-E

Perf. 7847-70 w 2 SPF.
Frac: 500 gals. Sol 5.00 # 44 SLW + 3 BPW 4-1/2 hrs.
12 hr. SI. Swb 20 BO + 12 BW 8 hrs., Swb dwn.
FL entry 1 BPH
Re-Acid 2,500 gals., Flw, est. 2-5 MMCFD + 10 BC
+ 34 BLW/8 hrs. Vac Temp. survey to confirm
communications.
Sq. Perfs. 7847-70 w/ 100 sx.
RD 7751, Perfs 7700-20, Acd. 10,000 gals. Max
Press. 3004, Swb 40 BLW 2 hrs. Well Started flow.
Flw 14.3.55 MMCF/D & 12 BC & 20 BLW 5 hrs.
TFP 1650# - 20/64" Ch., all load rec.

TD 8071. Fusselman. PBD 7751
Comp. Date 3-23-72. SI gas until Tpwp 7700, Perf
7695-7720. Cisco Acid 7580 MCFD. Comp: 3138
PSIG at datum -3300. Surface TPC 2017 PSIG.
Four Point Test Flw Rates:

BPF, #GLS	Ch	Flwg MCFD	Time, Hrs.	Fluid BWLS
1773	10/64	3,024	1	9.7
1853	22/64	4,194	1	6.3
1550	26/64	5,107	1	8.6
1490	30/64	5,726	1	9.7

Total of 33 BO + 16 BW (part load + formation w) 8 hrs. GOR 70.5
degrees API at 60 degrees F; gas gr 0.735. Est gross cost $155,000.
FINAL REPORT

#1 LAMBIRTH GAS COM.

10-14-72

Canyon Perf: 7796-7800 w/2 JSPF
Ac/500 gal. 15% Mex 5500#, Min 3700#, AIR 1.7 BPM
ISIP 42 BLW 5 Hrs. Swb. Dry/NO OIT or Gas
10-15-72
Re-Ac/1500 gal. 15% Mex 4300#, Min 4050# AIR 1.7 B/M
ISIP 4200# 10 min SIP 4100#
Swb 8 Flw 42 BLW/1 hr.
(-31 BLW)
SI 12 hrs. TP Closed 1750 Fluid 4300' from surface
Swb. 6 BLW + 1 BO 8 hrs.
(-20 BLW)

Re-Ac/1500 gal. Gel Pad + 2000 gal. 28% acid
Max. 6000#, Min. 5700# AIR 4.7 BPM
ISIP and 15¼ 4 hrs. Rec. 63 BLW
(-73 BLW)
10-17-72 SITP 500 Bled down immed. fluid 4200' from surf.
Swb. 2 BLW w/tr Oil. Swb down by 1 run per hr. (-54 BLW)
1/ hr. SITP 0# 800' fluid in hole
Swb. 4 BLW w/tr Oil (Flow 7)
14 hr. SITP 50# 800' fluid in hole
Swb. 6 BLW w/tr. Oil 4 hrs.
(-44 BLW)

10-23-72

Cisco Set Bridge Plug at 7780' capped w/cmt.
Perf 7658-59 w/ 2 JSPF
Ac/1000 gal. 15% Mex Press 4400#, Min 2000# Ave. 400#
ISIP 3700#, 15 min SIP 1600# AIR 1.5 B/M
Swb 2 hr. and well kicked off
FLW 3 hrs. 6/64" Ch. 40 BLW (heavy spray of W) No Oil
FTP 50-75# (No gas recovery noted w/spray of wtr.)
SI 30 min. TP Closed 400#
(-25 BLW)
10-24-72 SITP closed 2000# Open and bled down
FL 100 MCFGPD + 1 bbl fluid per hr. (19% Oil, 45°GR)
TPP 50-0#
SI 7-12 hrs. TP closed 800#
Opened up and FT 100 MCFGPD + 1 bbl fluid per hr. (19% Oil)
TPP 50-0# TP closed 800#
SI overnight for pressure buildup.

31 hr. SITP 1900# closed
Flw 100 MCF, 400PSI wtr. Oil. No water.
TP 60-0#, 1/4" Ch.

Prep Frac w/1000 gal at increased rate
Max. Min. Ave press 5500#, 1SIP 3900. To min.
SIP 900. 25 Min 0. AIR 4 # 7 BPM
After Ac well kicked off to run and well kicked off.
Flw 8 hrs. TP 50 w/1/2" Ch. 600-800 3/4" Ch.
Est Flw Rate 6500 MCFD

SI overnight Flowed 32 BO and 23 BLW 10 hrs.
Flow rate 4.8 BFPH for 5 hrs. declining to 3 BFPH.
Gas Rate 2940 MCFD Declining to 750 MCFD 30/64" Ch.
TPF 275-NO, oil grav 49.5°API (-80 BLW)

30 hr SITP 1175 BHP 1450 (-73 BLW)

14 hr, BHP 1506 PSI stationary, TPC 1150, opened
on 26/64" Ch with initial Flow rate 1630 MCFD
Declining to 773 MCFPD; 70/64" Ch Flw 26 oil, 7 BLW,
600 MCF
TPF 480?-46#

Flw 26 BO + 2 BLW & 600 MCF Gas
1550 Flw 0 BO & 0 BW 23 hrs. 28/64" Ch
(-48 BLW)

SI 11-10-72 Flw 0 BO & 0 BW & 20 MCF in 24 hrs.
20/64" Ch, TPF 35 PSI (-46 BLW).

SI TPC 720 BSI after 24 hr. SI
760-4Q hr SI 760-72 hr. SI

780 PSI after 96 hr SI

PAR 2-8-75

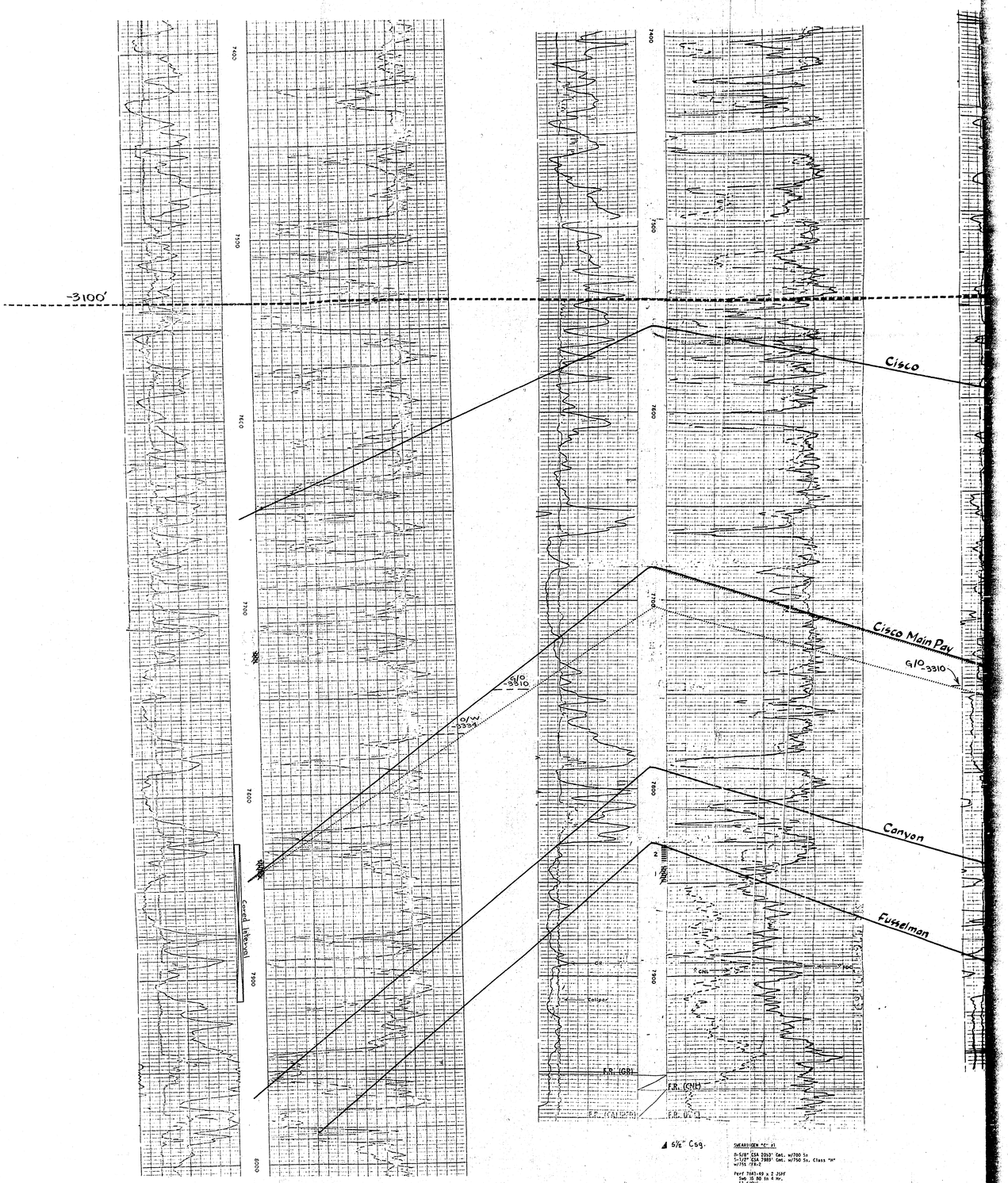
AMOCO PROD. CO.
PETERSON FIELD
ROOSEVELT COUNTY,
NEW MEXICO
STRUCTURAL X-SEC. C-C'
NO HORIZONTAL SCALE
VERTICAL SCALE: 1"=20'

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
Amoco EXHIBIT NO. 7
CASE NO. 4962 Reopened
Submitted by Amoco
Hearing Date 8/5/77

B

SWEARINGEN "C" No. 2
Elev. 4434'

SWEARINGEN "C" No. 1
Elev. 4439'



SWEARINGEN "C" NO. 2

8-5/8" CSA 1562 w/200 Sx
4-1/2" CSA 8477' w/975 Sx Class "H" +.75% CFR-2

Perf 8313-8316 w/2JSPF
Acid 1000 Gal. 15% LSTNE
Twinsand C SD w 57 BLW w 314 BW (40 Hrs.)

CIBP @ 8050 w/35' Cement Cap

Perf. 7935'-7945' w/2 JSPF
Acid 1000 Gal. 15% NE
Re-Acid 5,050 Gal. 15% NE

CIBP @ 7700' w/35' Cement Cap

Perf. 7276-78 w/2 JSPF
Acid 1000 Gal. 15% NE

Completed As Dry Hole 2 SI 6-2-76
TD 8050'
PBTD 7735'

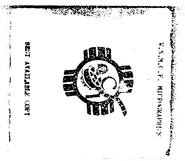
SWEARINGEN "C" #1

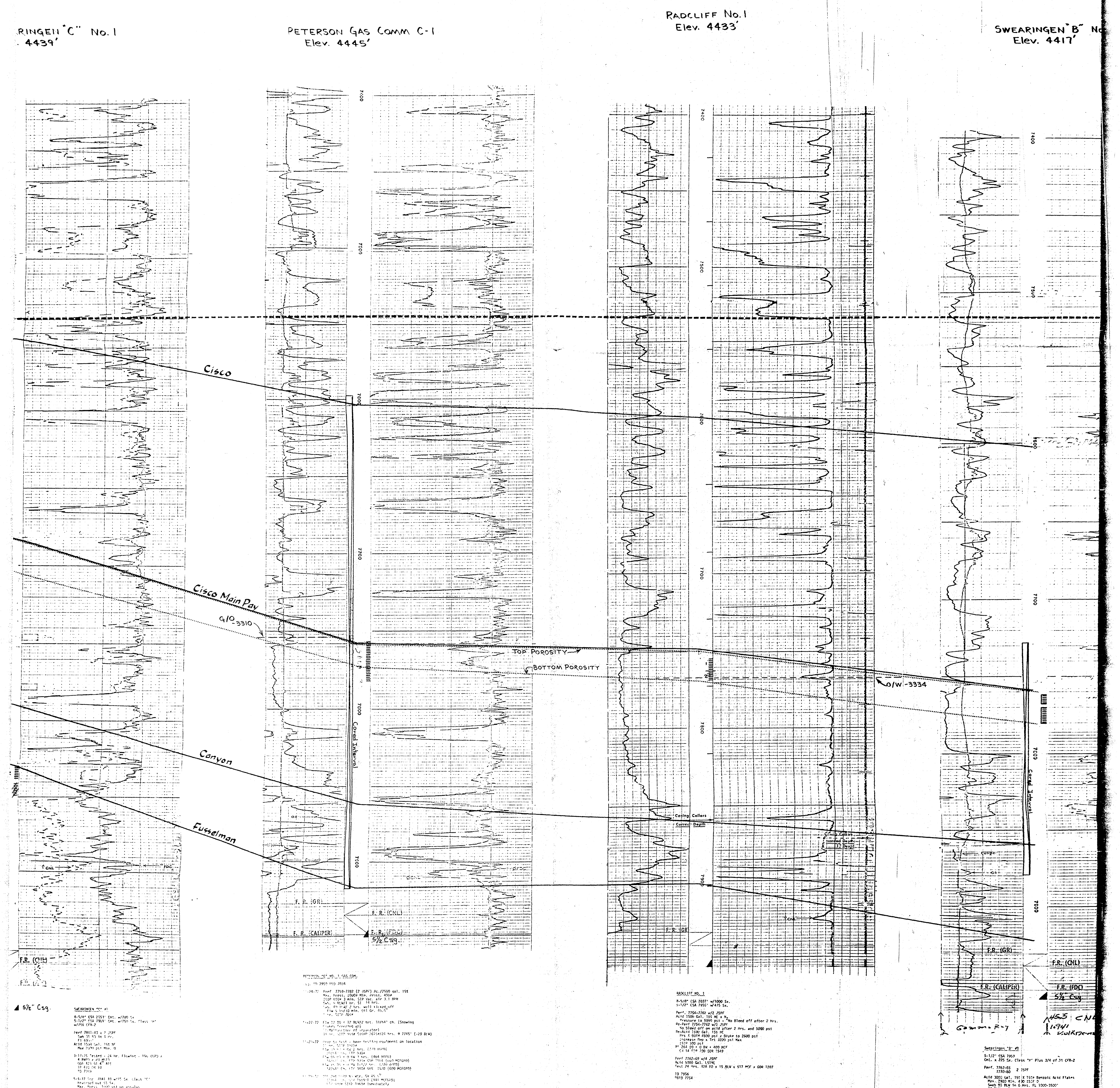
8-5/8" CSA 2053' Cmt. w/700 Sx
4-1/2" CSA 7989' Cmt. w/750 Sx. Class "H"
w/75% CFR-2

Perf 7043-49 & 2 JSPF
Swb 15 BO in 4 Hr.
TD 8100
Acid 1000 Gal. 15% NE
Max 7000 psi Min. 0

3-17-76 Tested - 24 Hr. Flowing - 396 BOPD x
4 BWPD x 88 BOPD
GOR 423 SI.GAS MCFD
IP 410 CH 10
TD 7989

5-4-77 Sqz. 7043-49 w/75 Sx Class "C"
Reversed out 55 Sx.
Max. Press. 1000 psi on annulus
Perf 7034-38 w/2 JSPF
Acid 1000 Gal 15% NE
Tested 164 FSTD @ 70 BWPD & 100 MCFD





BEST AVAILABLE COPY

B'

PETERSON GAS Comm C-1
Elev. 4445'

PADCLIFF No. 1
Elev. 4433'

SWEARINGEN "B" No. 1
Elev. 4417'

-3100'

TOP POROSITY

BOTTOM POROSITY

O/W -3334

Cored Interval

Casing Collars

Correct Depth

F. R. (GR)

F. R. (CNL)

F. R. (CALIPER)

F. R. (FDC)
5½ Csg.

F.R. (GR)

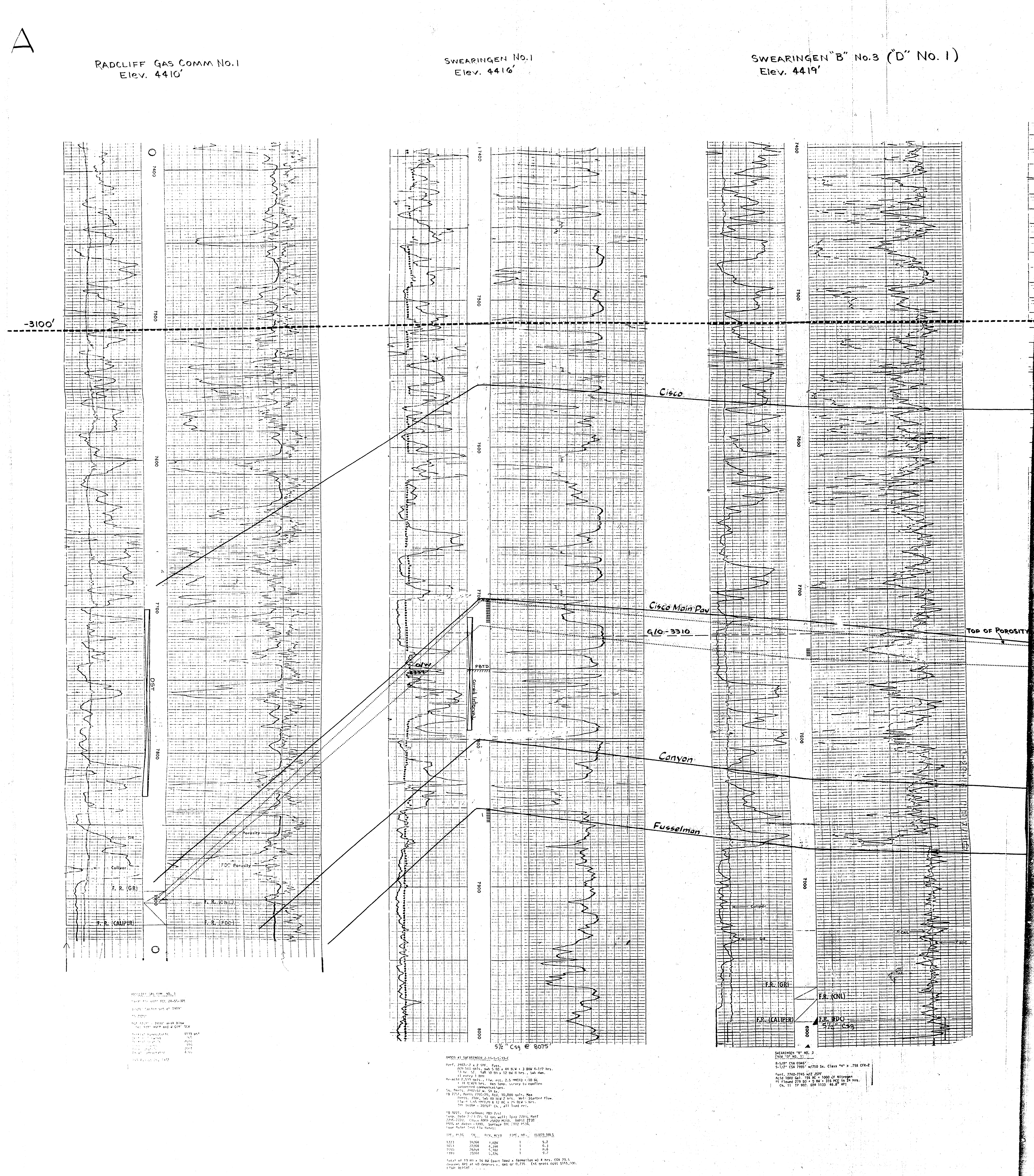
F.R. (CNL)

F.R. (CALIPER)

F.R. (FDC)
5½ Csg.

AMOCO PROD. CO.
PETERSON FIELD
ROOSEVELT COUNTY,
NEW MEXICO
STRUCTURAL X-SEC. B-B'
NO HORIZONTAL SCALE
VERTICAL SCALE: 1"=20'

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
AMOCO EXHIBIT NO. 6
CASE NO. 4962 (REOPENED)
Submitted by AMOCO
Hearing Date 8-3-77


A
RADCLIFF GAS COMM No. 1
Elev. 4410'
SWEARINGEN No. 1
Elev. 4416'
SWEARINGEN "B" No. 3 ("D" No. 1)
Elev. 4419'
-3100'
Cisco
Cisco Main Pay
G/O -3310
TOP OF POROSITY
Canyon
Fusselman
O/W
PBTD
Cored Interval
DST
F.R. (GR)
F.R. (CALIPER)
F.R. (CNL)
F.R. (FDC)
5½" Csg @ 8075'
7400
7500
7600
7700
7800
7900
8000

A

ARINGEN "B" No.3 ("D" No. 1)
v. 4419'

SWEARINGEN "B" No. 4
Elev. 4426'

SWEARINGEN "B" No.1
Elev. 4417'

-3100'

TOP OF POROSITY

BOTTOM OF POROSITY

O/W - 3334

F.R. (GR)

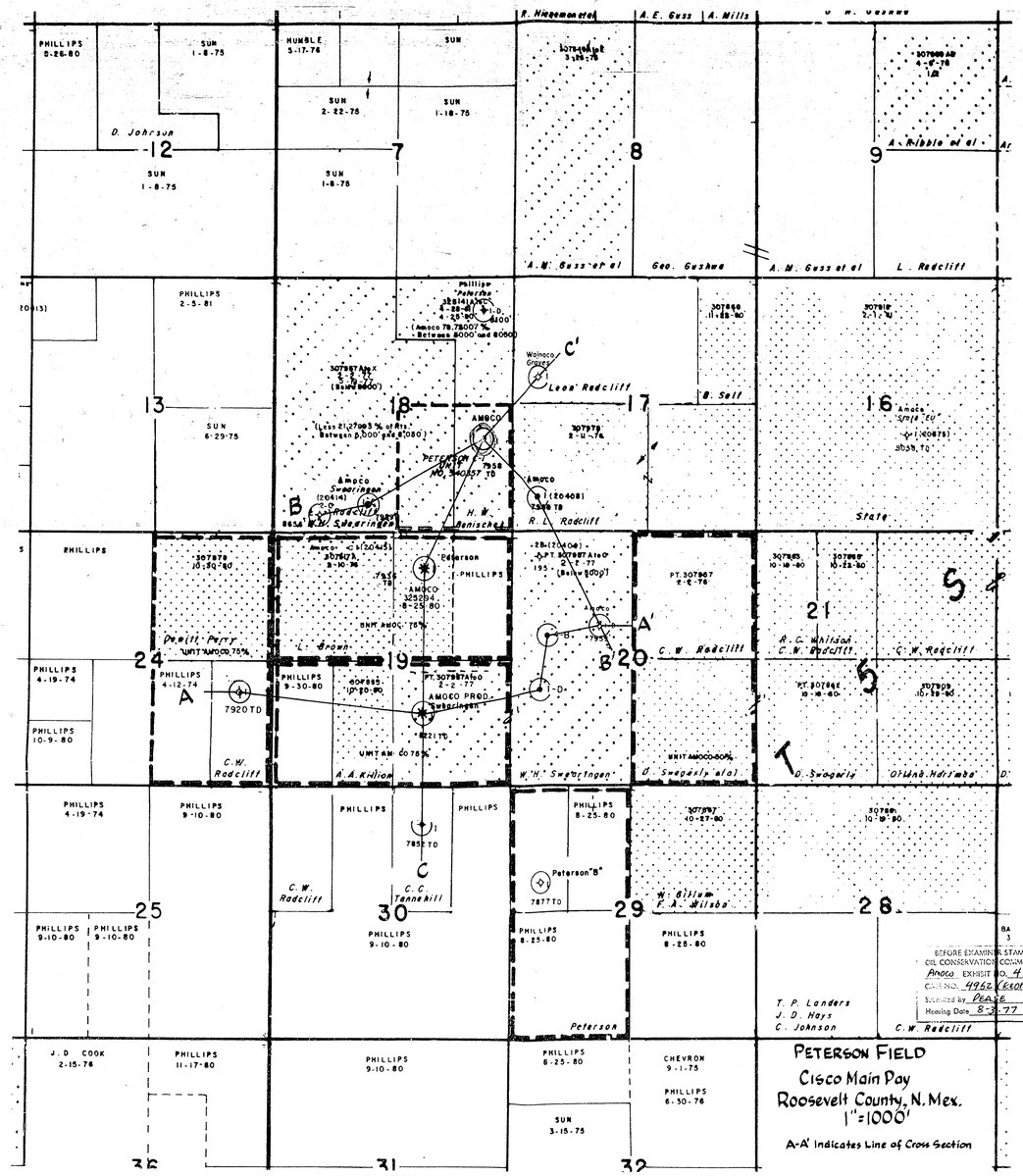
F.R. (CNL)

F.R. (CALIPER)

F.R. (FDC)
5½" Csg.

AMOCO PROD. CO.
PETERSON FIELD
ROOSEVELT COUNTY,
NEW MEXICO
STRUCTURAL X-SEC. A-A'
NO HORIZONTAL SCALE
VERTICAL SCALE: 1" = 20'

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
Amoco EXHIBIT NO. 5
CASE NO. 4962 Reopened
SUBMITTED BY Amoco
Hearing Date 8/3/77



BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
Amoco EXHIBIT NO. 4
CASE NO. 4956 (reopened)
Submitted by Peace
Hearing Date 8-3-77

PETERSON FIELD

Cisco Main Pay
Roosevelt County, N. Mex.
1"=1000'

A-A' Indicates Line of Cross Section

N.M.O.C.D. RECORDS
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