

Case 10640

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

*Note to File:*

*The attached sheets were prepared by myself from the OCD well records in Santa Fe and are hereby made a part of the official record in the matter.*

*Michael E. Hager*

*Hearing Examiner*

*3/1/93*

## WELL DATA SHEET

Applicant did not report this  
well data @ hearing!

m.s.

\*\*\*\*\*

OPERATOR: Arapaho Oil & Gas Inc WELL NAME & NO: Levers Well No. 5LOCATION: 660 FEET FROM THE South LINE AND 660 FEET FROM THE West LINE(M) of SECTION 33, TOWNSHIP 16 South, RANGE 29 East, NMPM, Eddy COUNTY, N.M.

\*\*\*\*\*

## SCHEMATIC

Spud. 2/12/78

12" hole to 316'

set 302' 8 5/8" c/c cement

to surface w/115 sks

Top of Grayson 2002'

Top of San Andres 2479'

Primmer 2383'

Livingston

Perforated 2258 to 2266 (March 1981)  
(Primmer)

500 gal HCL - MISC

N<sub>2</sub> & H<sub>2</sub>O Foam Froe550 lbs 75% H<sub>2</sub> 25% H<sub>2</sub>O

25,500 ± in. oil

7 7/8" hole to 2560

set 5 1/2" to 2551'

c/c cement only to 2550'

750 sks (50 sks c/c cut)

Engr Interval

Nov. 1983 Perforated 2480 - 2498  
(Livingston Sand)H<sub>2</sub>O 2000 gal 15% HCL @ 51

BOM 2800 psi

Froes w 37,000 gal oil HCL

H<sub>2</sub>O 50,000 # 10/120 + 11,000 #

10/120

TO - 2560' PL - 2550'

\*\*\*\*\*

OPERATOR: Highland Corporation WELL NAME & NO: Lovers Fid. Well No. 4

LOCATION: 330 FEET FROM THE South LINE AND 660 FEET FROM THE West LINE

(M) OF SECTION 33, TOWNSHIP 16 South, RANGE 29 East, NMPM, Eddy COUNTY, N.M.

\*\*\*\*\*

### PLUGGING DATA

Spud: 1/24/59

Top of Grayburg:

Top of San Andres:

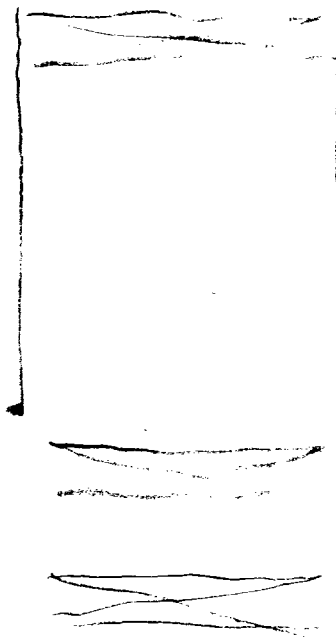
Primer:

Lexington:

8 5/8" casing to 322

50 sks cement 322

### SCHEMATIC



### WELL CONSTRUCTION

20 Sk. plug to surface

W/ regulation marker.

350'-275' Cement Plug

100 sk plug @ 150'-850'

100 sk plug 2250-2150

Mudbed 2250-2250

TL- 2500

# WELL DATA SHEET

33-N Applicant did not report this well data @ hearing!

\*\*\*\*\*

OPERATOR: Acrophe Oil & Gas Inc WELL NAME & NO: Leona No. 5-N

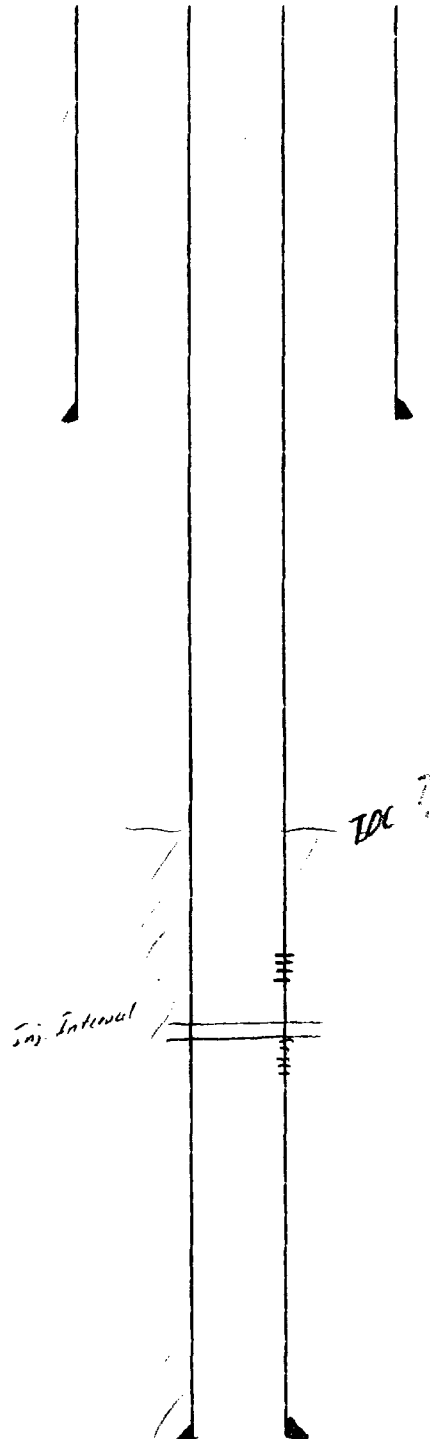
LOCATION: 330 FEET FROM THE South LINE AND 1970 FEET FROM THE West LINE

(N) of SECTION 33, TOWNSHIP 16 South, RANGE 29 East, NMPM, Elly COUNTY, N.M.

\*\*\*\*\*

## SCHEMATIC

Spud: 12/11/58  
 Top of Grayson  
 Top of San Andres  
 Perforated 2365 - 2376  
 Cemented 2470 - 2480  
 8 5/8" @ 312'  
 cemented w/ 75 sacks of cement  
 5 1/2" @ 2502'  
 cemented w/ 150 sacks  
 TOC ?  
 TP-2502'

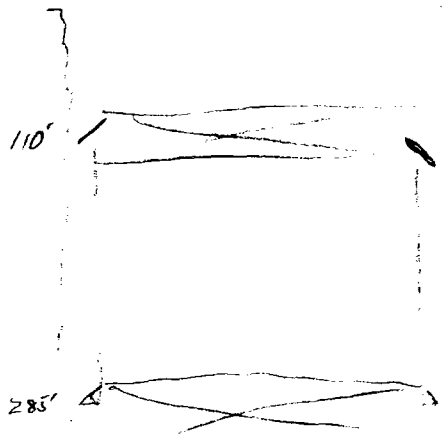


21 1/2\"/>

\*\*\*\*\*

OPERATOR: Highland Corporation WELL NAME & NO: Levers Well No. 3LOCATION: 330 FEET FROM THE ~~South~~ LINE AND 190 FEET FROM THE ~~West~~ LINE  
of SECTION 33, TOWNSHIP 16 South, RANGE 29 East, NMPM, Eddy COUNTY, N.M.

\*\*\*\*\*

SCHEMATICPLUGGING DATAWELL CONSTRUCTIONNo Marker hole or well.8 5/8" casing to 285'No cement recordencountered water @ 285'plugged w/ 8 sb:cut 8 5/8" @ 110'set 5 sb cement

# WELL DATA SHEET

4-C

\*\*\*\*\*

OPERATOR: Dragage Oil & Gas, Inc WELL NAME & NO: Cave State Unit No. 5

LOCATION: 330 FEET FROM THE North LINE AND 1650 FEET FROM THE West LINE

(C) of SECTION 4, TOWNSHIP 17 South, RANGE 29 East, NMPM, Eddy COUNTY, N.M.

\*\*\*\*\*

## SCHEMATIC

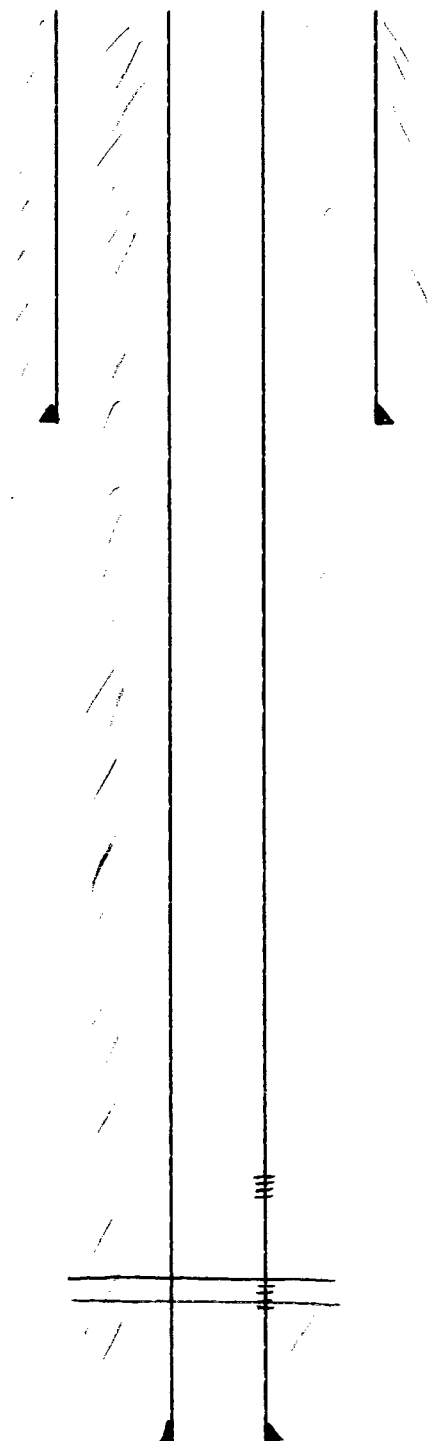
Spud: 4/9/81

12 1/4" hole to 245'

345' at 8 5/8" surface

cemented w/ 225 sks

circulated out 20 sec



Perfs. 2458' - 2519'

22" - 2262'

seal bottom perfs w/ 30000 gal

15% HCl inj. @ 56 bpm @ 2900 psi

top perfs acidized w/ 1500 gal 15% HCl

inj. @ 37 bpm @ 1700 psi

all perfs. flooded w/ 30000 gal. pulled

H<sub>2</sub>O 42,000 gal. @ 1

7 5/8" hole to TD

ran 5 1/2" to 2683

cemented w/ 950 sks

circulated out 20 sec

TD - 2683'

# WELL DATA SHEET

Applicant did not report this  
well data at the 12/17/92  
hearing. mcs.

OPERATOR: Acapato Oil & Gas Inc

WELL NAME & NO: State Well No. 2

LOCATION: 990 FEET FROM THE North LINE AND 1980 FEET FROM THE West LINE

(c) of SECTION 4 , TOWNSHIP 17 South, RANGE 29 East, NMPM, Eddy COUNTY, N.M.

## SCHEMATIC

Spud: 6/20/58 w/ Cable Tool

11" hole to 281'

cemented w/ 100 sac

TOC?

6" hole to 2417'

4 1/2" casing set @ 2414'

cemented w/ 200 lbs. TOC?

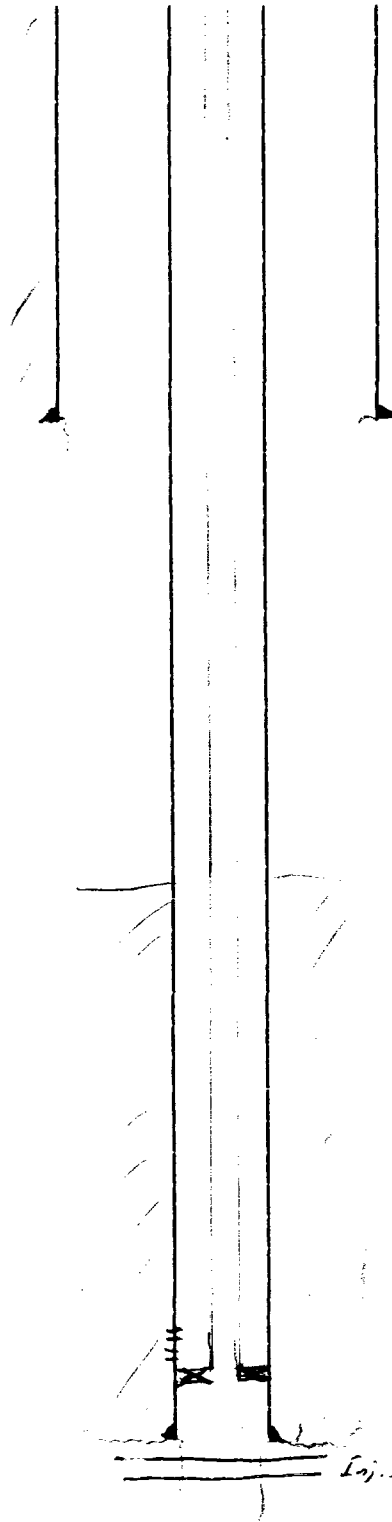
(1979 C-103 reported Surface casing  
+ 4 1/2" TOC @ 1620)

Original Pkts @ 2370-76

sand oil frac. w/ 21,400 gal  
+ 20,000 sac

Packer @ 2372'

Original  
TD-2417'



Well Deepened in 12/1/79  
to 2519

Open hole interval treated  
10,000 gal gel H<sub>2</sub>O +  
10,000 # sand frac

Packer set and left in hole  
@ 2391'

Levinston Sand 2455-2465

Open hole 2417'-2519'

Inj. Interval

## WELL DATA SHEET

\*\*\*\*\*

OPERATOR: Arapaho Oil & Gas, Inc. WELL NAME & NO: Cove State Well No. 1LOCATION: 330 FEET FROM THE Mark LINE AND 330 FEET FROM THE West LINE(0) of SECTION 4, TOWNSHIP 17 South, RANGE 29 East, NMPM, Eddy COUNTY, N.M.

\*\*\*\*\*

## SCHEMATIC

Spud: 11/15/83Top of Greyburg 2000'Top of San Andres 3384'Permit 2372

borehole

12 1/4" hole to 350'Set 8 5/8" casing to 338'Cont w/ 220 sks. circ out 25 sks7 7/8" hole to 500 @ 2540Run 2540' 5" casingremoved w/ 1370 sks. circ out 220 sks

Perf San Andres @

2464' - 2475'Acid w/ 125 gal. 15% HClFree Perfs w/ 60,000 gal.50' w/ 75,000# 20/40,40,000 # 10/20



\*\*\*\*\*

OPERATOR: Arapaho Oil & Gas Inc. WELL NAME & NO: State Well No. 1

LOCATION: 990 FEET FROM THE West LINE AND 660 FEET FROM THE West LINE

(0) OF SECTION 4, TOWNSHIP 17 South, RANGE 29 East, NMPM, Edm. COUNTY, N.M.

\*\*\*\*\*

## SCHEMATIC

Spd: 5/22/58

11" hole to 298'

8 5/8" csg. cemented w/

100 sks.

6" hole (reported) to 2427'

5 1/2" set to 2427

cont. w/ 200 sks 700 ?

7/25/79 C-103 reports

Well is formerly Cave Pool

Unit #6 as to Premier Sand

only. It was completed as a

Premier producer in 1958, T.D.

2436', 8 5/8" set to 298'

& Cement Circulated. 5 1/2" set

to 2027' & Top of cement at

1530 Sct. Perforated 2368'

to 2376'. Connected to

Water Injection well in 1963

& Inj. discontinued in 1976.

Additional Perfs. in Nov.

1979

2107-2120 - 2130-2140 -

2146-2160 - 2181-2195 -

2210-2218 - 2254-2275

405  
WELL DATA SHEET

Applicant did not present this  
data at the 12/17/82 hearing.  
M.S.

\*\*\*\*\*  
 OPERATOR: ArapaGo Oil & Gas Inc WELL NAME & NO: Cave Pool Unit No. 12  
 LOCATION: 1980 FEET FROM THE West LINE AND 660 FEET FROM THE West LINE  
 (E) of SECTION 4 , TOWNSHIP 17 South , RANGE 29 East , NMPM, Eddy, COUNTY, N.M.  
 \*\*\*\*\*

SCHEMATIC

Spud: 5/11/57

Top of Grayburg : 2376'

Top of San Andres : 2405'

9 7/8" hole to 688'

7 5/8" csg. set @ 688'

cemented w/ 350 sks

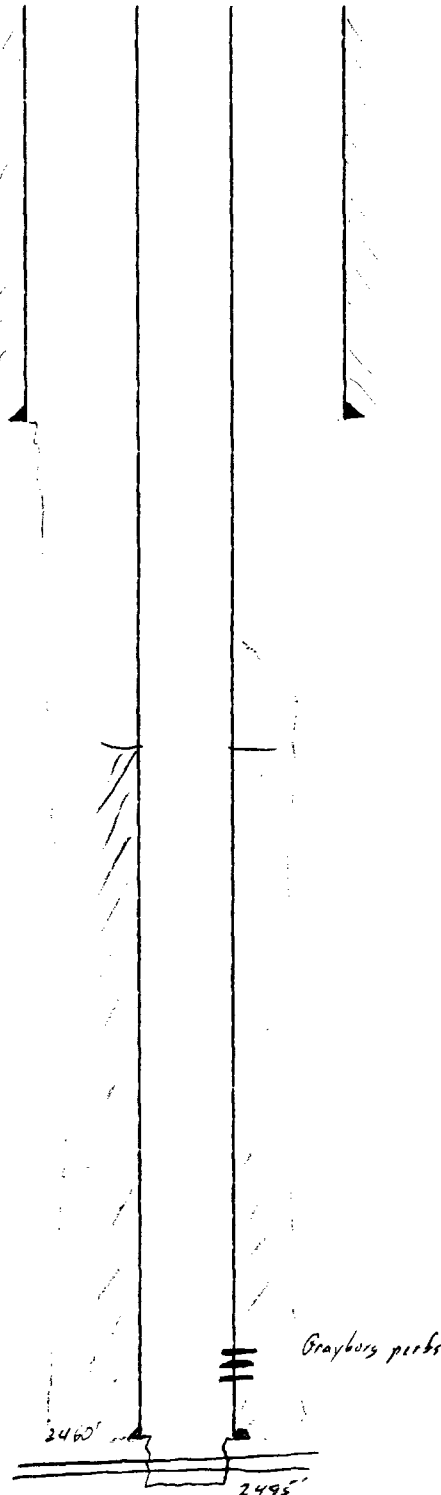
circulated

6 3/4" hole to TD at 2460'

2459' of 4 1/2" csg. set

75 sks TOP @ 1825'

report on temp. log



In 1982 well was

deepened to 2495' to

test Livingston sand.

Entry from the 8/20/83 C-103

" Well was deepened to 2495' and attempt was made to break down formation in Livingston sand. This was not successful so well put well back on as C.P.U. #12 work was completed March 1, 1982 "

No Record of plug back.

Original

Perfs 2375-95

Grayburg perfs.

2460'

2495'

Open hole in San Andres

4-15

\*\*\*\*\*

50000 £ 20/10 s.d.

## WELL DATA SHEET

4-F

\*\*\*\*\*  
OPERATOR: JEM Resources Inc

WELL NAME &amp; NO: Cave Pool Unit Well No. 13

LOCATION: 1980 FEET FROM THE North LINE AND 1980 FEET FROM THE West LINE

(F) of SECTION 4, TOWNSHIP 17 South, RANGE 29 East, NMPM, Eddy COUNTY, N.M.  
\*\*\*\*\*

## SCHEMATIC

Spud: 3/18/57

Top of formation

Top of San Andres 2403

Premise to be @ 2375

PVA June 1976

12" hole to 256'

256' of 8 5/8" int. at

50 sks. and circulated

7 7/8" hole to TD @ 2410

2410' of 5 1/2" int. w/

100 sks.

No TDC reported

Plugged w/ 20 sks @ 2316' - 2096'

Set 35 sks at 1500

Set 35 sks at 150

35 sks at 270

Shot pipe  
@ 1550

Perfs 2376' - 2386'

Well does not penetrate

## 4-K

Applicant did not present this data @ the 12/17/52 Hearing.

OPERATOR: Acropac Drilling WELL NAME & NO: Cave Pool Unit No. 19

LOCATION: 1980 FEET FROM THE South LINE AND 1880 FEET FROM THE West LINE

(K) of SECTION 4, TOWNSHIP 17 South, RANGE 29 East, NMPM, Eddy COUNTY, N.M.

SCHEMATIC

Spvd:

Top of Craymoor 2070

Top of San. Pedro. 2395

Premier

Levingtoni 2467

11" hole to 337'

8 5/8" casing set at 326'

cont w/ 225 lbs circ out 25 lbs

7 7/8" hole to 2501'

4 1/2" casing set @ 2478'

ent. w/ 900 stks.

TOC not reported

Perf. Interval

2370' - 2476'

A/250 30/1; Frac w/ 20, 40, 50, 1.

\*\*\*\*\*  
OPERATOR: JEM Resources Inc.WELL NAME & NO: Cave Pool Unit well No. 2.LOCATION: 1980 FEET FROM THE South LINE AND 660 FEET FROM THE West LINE( L ) of SECTION 4, TOWNSHIP 17 South, RANGE 29 East, NMPM, Eddy COUNTY, N.M.\*\*\*\*\*  
SCHEMATICSpud: 5/9/57Top of Fracture: 2155'Top of San Andres: 2387'Perforated: Aug. 197610" hole to 328'8 5/8" at 328'cemented w/ 300 sks.8" hole at 2354'7" casing to 2354' cement w/ 200 sks.\* Plugged as per C-102 datedAug. 1976: " 8 5/8" set at 328'  
and cemented. 7" set at 2354' & cemented  
w/ 200 sks. T.S. shows top of cement at 930'.  
Open hole from 2354' - 2391'. Base of  
salt at 648. Set 30 sks @ 2300' &  
passed plug at 2114. Shot pipe at 800.  
800 - 700' and could not pump water.  
Shot pipe at 600 & set 35 sks, and see  
35 sacks at 375' and tagged at 230'.  
Set 10 sacks and marked at 231' "Completed in the open-hole  
interval from 2354'  
to 2391'.TD - 2391'

\*\*\*\*\*

OPERATOR: Acapaco Oil & Gas Inc WELL NAME & NO: Wadgers Field 1 Well No. 2LOCATION: 990 FEET FROM THE North LINE AND 330 FEET FROM THE East LINE(A) OF SECTION 5, TOWNSHIP 17 South, RANGE 29 East, NMPM, Eddy COUNTY, N.M.

\*\*\*\*\*

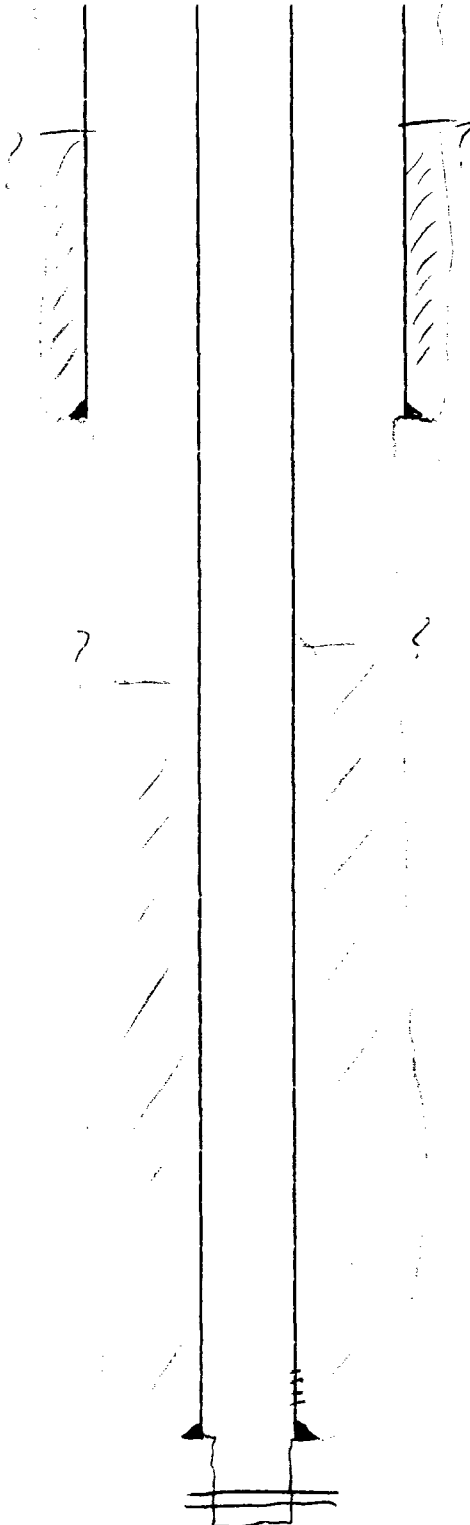
## SCHEMATIC

Spud: 4/19/58Top of Grayberg: 2040Top of San Andres: 2394Premier: 2380' 2363'Lovington: 2450-24608 5/8" csg set @ 203'

cmt. w/ 100 sks. TOC?

4 1/2" csg set @ 2426' (TO)

cmt w/ 200 sks TOC?



Cleaned out old hole TO (2426)  
 + drilled to 2505' left open hole from  
 2426' to 2505'. Had show of CB  
 and Gas at 2450-2460. (Lovington Sand).  
 Treated w/ 500 gal. acid and 30,000  
 w/ 30,000 gal. settled water + 30,000  
 sand

original perforated interval  
 @ 2363-2370'

Present Status well in the Pioneer TA

OPERATOR: Arapaho Oil & Gas, Inc.

WELL NAME & NO: Cave Pool Unit #8

LOCATION: 990 FEET FROM THE North LINE AND 1980 FEET FROM THE East LINE

(6) OF SECTION 5, TOWNSHIP 17 South, RANGE 29 East, NMPM, Eddy COUNTY, N.M.

### SCHEMATIC

Spd: 4/6/57

Top of Grayburg 2040

Top of San Andres 2388

Pioneer 2367-2388

Lexington 2472-2500'

8 5/8" casing set @ 212'

Cemented w/ 100 sacks cement  
to surface.

\* Well was plugged in 1958 as follows:  
2500-2472' 5 sacks cement plug - Lexington  
2390-2362' 5 sacks cement plug - Pioneer  
660-644' 5 sacks cement plug - Base of salt  
215-199' 5 sacks cement plug (Surface casing shoe)  
15' - Surface 5 sacks cement  
Heavy Drilling mud between plugs.

(1963) 9-831a Form

Drilled out cement plugs to 2420.  
Set 2 7/8" tubing @ 2443' w/ 230 sacks  
cement. Plug down at 2:30 AM on 9/6/63.  
WOC 24 hrs. Tested casing w/  
6000 # for 15 minutes. Tested OK. Top  
of cement 1675' by temperature  
survey. Perforated Pioneer @ 2368-  
2376, 2382-87 and 2391-94 w/  
2 SSPF. Frac'd Pioneer parts  
w/ 5,000 gal. water, 5000 # mud  
and 250 # Adm. 5th Aqua.  
TR'd prod. as well

category into 9-331-C July 1980.

Well was drilled & abandoned in  
1957. Surface sucker was left on  
at TD was 2471. Well was  
re-entered in 1963 for Water  
Injection for Cave Pool Pioneer  
Water Flood. Drilled out plugs & set  
2 7/8" tubing cemented w/ 200 sacks.  
Temp survey showed TOC @ 1675.  
Perforated from 2368 - 2394.  
Plan to clean out tubing to surface  
(2443), see CIBP #1 app.  
2340 & pressure test tubing.  
Perforated @ approx. 2217 & 2250  
& test for gas.



\*\*\*\*\*

OPERATOR: Arapaho Oil & Gas Inc WELL NAME & NO: Thops State Well No. 1LOCATION: 1650 FEET FROM THE North LINE AND 1650 FEET FROM THE East LINE(6) of SECTION 5, TOWNSHIP 17 South, RANGE 29 East, NMPM, Elk COUNTY, N.M.

\*\*\*\*\*

SCHEMATICSpud: 12/29/83Top of Grayburg: 2036'Top of San Andres: 2400'

Packer:

Leaving:

8 5/8" csg. run w/ 350 sks  
circulated 20 sksPicks: 2453' - 2467'

2500 gal 15% HCl

40,000 # gal sol water  
76,000 # sand

7 1/8" hole to TD @ 2550'

5 1/2" csg. to 2550'

Circulated w/ 335 sks  
Circ. out 125 sks2187-7331 Acid w/ 2250 gal  
15% HCl5000 # gal sol water  
52000 # sand

\*\*\*\*\*

OPERATOR: JEM Resources Inc. WELL NAME & NO: Cave Pool Unit Well No. 11LOCATION: 1980 FEET FROM THE North LINE AND 660 FEET FROM THE East LINE(H) of SECTION 5, TOWNSHIP 17 South, RANGE 29 East, NMPM, Eddy COUNTY, N.M.

\*\*\*\*\*

## SCHEMATIC

Well Currently Pt A End

Spud: 3/27/57Top of Grayburg: 2192'Top of San Andres 2382'

Primeir:

Houston

7 5/8" cas. @ 729'cemented w/ 385 sac  
(circulated).4 1/2" casing set @ 2489'  
cemented w/ 70 sacTDC @ 2100 determined by Temp. Survey

Entry from C-103 dated 12/23/76

7 5/8" set @ 708' w/ 450 sac;  
 4 1/2" set @ 2489' w/ 70 sac. Top  
 perf. 2362' Top of Queen 2350'  
 Set 15 sacks @ 2320' & tugged @ 2128'  
 Shot pipe @ 2100' & could not pull.  
 Squeezed plug and tossed @ 1684'. Shot  
 @ 900' and could not pull. Could  
 not pump in, shot @ 500' and could not  
 pump in or pull. Ran tubing and set  
 plug & tossed @ 345'. Set 10 sacks and  
 marker on top.

Perfs. 2362 - 2382

Fraced w/ 5,000 crude  
 using 18 sand oil Admixture  
 per gallon.

(Well did not penetrate in)  
 Zone.

TD - 2492

\*\*\*\*\*  
 OPERATOR: Arapaho Oil & Gas Inc WELL NAME & NO: Cave State Well No. 2  
 LOCATION: 1650 FEET FROM THE North LINE AND 330 FEET FROM THE East LINE  
 (H) of SECTION 5, TOWNSHIP 17 South, RANGE 29 East, NMPM, Elbert COUNTY, N.M.  
 \*\*\*\*\*

## SCHEMATIC

Spud: 12/11/83

Top of Grayburg: 2041'

Top of San Andres: 2398'

Primer:

Levinston:

12 1/4" hole to 348'

8 5/8" csg. to 387'

completed w/ 481 sks - 30 sks circ

7 7/8" hole to TD @ 2530'

5 1/2" csg. to 2530'

cont w/ 875 sks circ out 200 sks.

Perfs: 2447-2468

2500 gal HCl

5 gal 70000 gal sol gel water

120,000 # sand

\*\*\*\*\*  
 OPERATOR: Arapaho Oil & Gas Inc WELL NAME & NO: Hardin State Well No. 2  
 LOCATION: 2190 FEET FROM THE North LINE AND 990 FEET FROM THE East LINE  
 (H. of SECTION 5, TOWNSHIP 17 South, RANGE 29 East, NMPM, Eddy COUNTY, N.M.  
 \*\*\*\*\*

## SCHEMATIC

Spud: 3/5/85Top of PermianTop of San Andres12 1/4" hole to 350'8 5/8" set @ 345'cut w/ 250 sks - circ out 20 sks.5 1/2" csg. to 2048'cut w/ 500 sks. circ out 75 sks.TD: 2048'Open test w/ parts.1876-84; 1917-26; 1931-1939well did not penetrate the  
Lexington Interval.

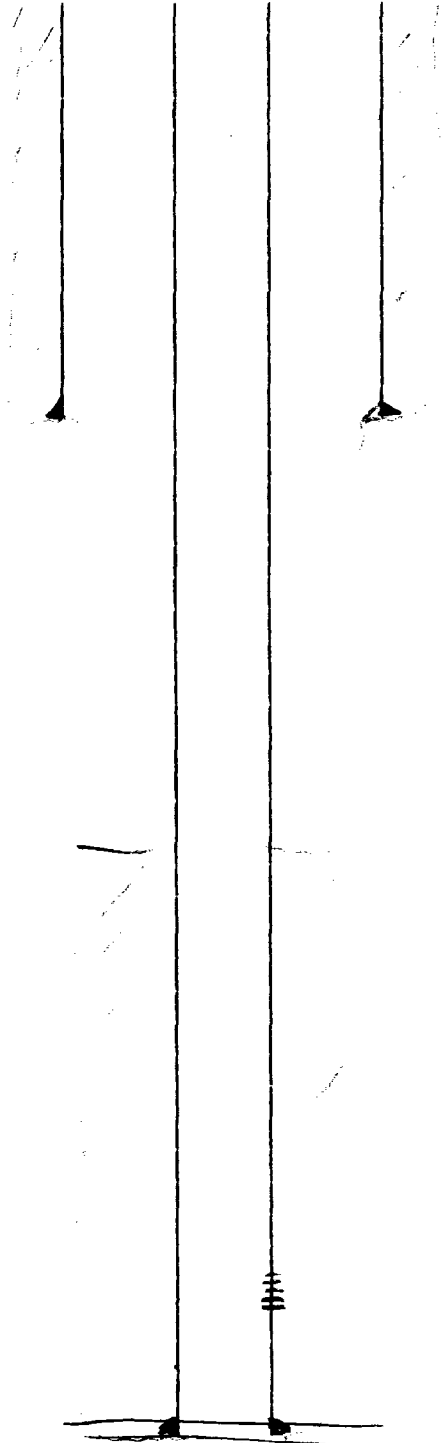
## WELL DATA SHEET

\*\*\*\*\*

OPERATOR: *Arapaho Oil & Gas Inc.*WELL NAME & NO: *Cave Pool Unit #1 No. 21*LOCATION: *1980* FEET FROM THE *South* LINE AND *660* FEET FROM THE *East* LINE(I) of SECTION *5*, TOWNSHIP *17 South*, RANGE *19 East*, NMPM, *Elddy* COUNTY, N.M.

\*\*\*\*\*

## SCHEMATIC

Spud: *3/14/57*Top of *Gravel* *2004*Top of *San Andres* *2394*Primer: *2370 - 2388**Levelling:**7 5/8" csg set @ 710'**cont w/ 350 skt / csg**4 1/2" csg set @ 2495'**cont w/ 50 skt**TDC @ 1925' determined**by temp survey**TD - 2465'**Perf: 2370 - 2388**Inj. Int. probably not  
generated.*

\*\*\*\*\*

OPERATOR: Arapaho Oil & Gas Inc. WELL NAME & NO: Red Twelve State #3LOCATION: 2310 FEET FROM THE South LINE AND 330 FEET FROM THE East LINE(I) OF SECTION 5, TOWNSHIP 17 South, RANGE 29 East, NMPM, Eddy COUNTY, N.M.

\*\*\*\*\*

## SCHEMATIC

Spud: 9/5/84

Top of Grayson

Top of San Andres

Packer

Lorington

12 1/2" hole to 350 ft

8 5/8" csg. to 350

cmt. w/ 350 csg. - circ 35 skt.

to pit.

7 7/8" hole to TD @ 3550'

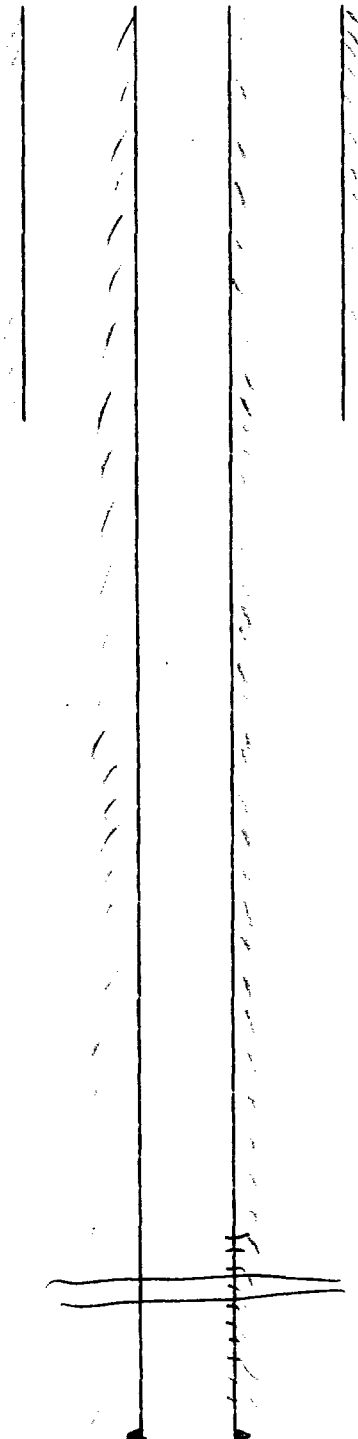
5 1/2" csg to 3550'

cmt. w/ 350 csg. - circ 35 skt.

35 skt.

Pests: 3004-3434

acid: 5500 gal 15% HCl

Gravel: 130,000 gal 4% O  
243,000 # sand

Well Name & No.	Sec.	Unit	Penetrated the Corymbous Jackson Bed	Penetrated the San Andres formation	Penetrated the Jennings Sand	Status of Lougheeta Sand Penetration
Levers #5	33	M	✓	✓	✓	Perf. / Prod.
Levers Rd. #4	33	M	✓	✓	✓	Perf. / Open Hole
Levers #34	33	M	✓	✓	✓	Perf. / Prod.
Levers #3 (GRI)	33	M	✓	✓	✓	Perf. / Prod.
Levers State #5	4	C	✓	✓	✓	Perf. / Prod.
State #2	4	C	✓	✓	✓	Open / Prod.
Levers State #1	4	O	✓	✓	✓	Perf. / Prod.
State #1	4	O	✓	✓	✓	Perf. / Prod.
Levers Rd. Unit #12	4	E	✓	✓	✓	Open / Prod.
Levers State #4	4	F	✓	✓	✓	Perf. / Prod.
Levers Rd. Unit #3 (PMA)	4	F	✓	✓	✓	Perf. / Prod.
Levers Rd. Unit #19	4	K	✓	✓	✓	Perf. / Prod.
Levers Rd. Unit #2 (PMA)	4	L	✓	✓	✓	Perf. / Prod.
Widges Rd. #2	5	A	✓	✓	✓	Open / Prod.
Levers Rd. Unit #8 (PMA)	5	B	✓	✓	✓	Perf. / Prod.
Thomas State #1	5	C	✓	✓	✓	Perf. / Prod.
Levers Rd. Unit #1 (PMA)	5	H	✓	✓	✓	Perf. / Prod.
Levers State Unit #2	5	H	✓	✓	✓	Perf. / Prod.
Levers State #2	5	H	✓	✓	✓	Perf. / Prod.
Levers Rd. Unit #21	5	L	✓	✓	✓	Perf. / Prod.
Levers Rd. Unit #3	5	I	✓	✓	✓	Perf. / Prod.

T 175 - A29E

Sec. 32 Unit A

Highland Top, hours 4

330' x 660' x 110'

Spud: 11/21/59 Permed: Oct/Nov 1964

TD: 2500'

Quartzite from surface casing shoe @ 58' to

TD 2500' : sandstone 2500'-2250'

Current Aug: 2250'-2150'

Production: 2150'-750'

Current Aug: 650-750'

Production: 350'-650'

Current Aug: 275'-350'

Potential Problem

Gravel exposed to int. zone.

Sec. 4 Unit C

J.E.M. Resources Inc.

Case Start Aug 1964

330' x 660' x 110'

Spud: 4/15/61 TD: 2083

Perms: 2212-2262, 2458-2519

Potential Problem: large zone open

Sec. 4 Unit D

J.E.M. Resources Inc.

Case Start Aug 1964

330' x 660' x 110'

Spud: 4/15/61 TD: 2083

Perms: 2212-2262, 2458-2519

Potential Problem: zone open to Perms

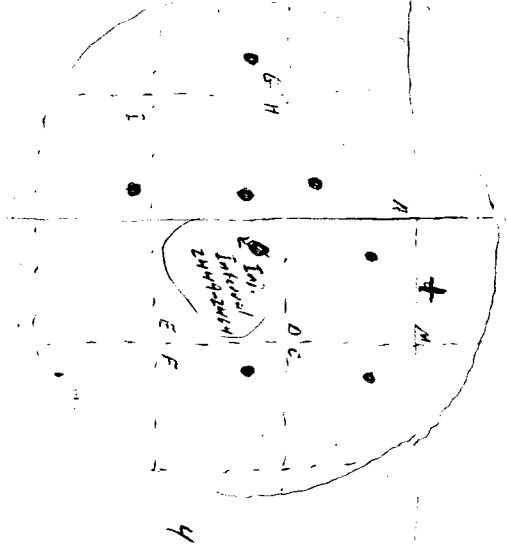
Sec. 4 Unit E

J.E.M. Resources Inc.

Case Start Aug 1964

330' x 660' x 110'

V. AREA OF REVIEW & LEASES



33

Sec. 5 Unit 6  
J.E.M. Resources Inc.  
Case Start Aug 1964  
330' x 660' x 110'  
Spud: 4/15/61 TD: 2500'  
Perms: 2453-2460  
Production: 2453-2460  
32  
Intentional / Open to  
Perms.

Sec. 5 Unit A  
J.E.M. Resources Inc.  
Case Start Aug 1964  
330' x 660' x 110'  
Spud: 4/15/61 TD: 2500'  
Perms: 2453-2460  
Production: 2453-2460  
32  
Intentional / Open to  
Perms.

Sec. 5 Unit H

J.E.M. Resources Inc.

Case Start Aug 1964

330' x 660' x 110'

TD: 2530

5 1/2 production string circulated w/ 8750 lbs

Perms: 2447-2465

Potential Problem: zone open to Perms.

Sec. 5 Unit C

J.E.M. Resources Inc.

Case Start Aug 1964

330' x 660' x 110'

Spud: 4/15/61 TD: 3500'

5 1/2 production string circulated w/ 8750 lbs

Perms: 2447-2465

①

9

T 175 - A29E



CONTINUED

[illegible]

LAND CODES	WELL CODES	DESCRIPTION	DATE	ALLOWABLE	PRODUCTION	GAS PRODUCTION	WATER PRODUCTION	DATE	DISP	CUMULATIVE GAS O/P	OIL RUNS	CUMULATIVE OIL O/P	ENDING OIL STORAGE	LAND CODES	WELL COUNT
6 F		35A 8 17S 29E	73	2400P	73	LAST PRD. DATE 02/75	717 30	3CON	7474	606NRC	350UFS	23			
6 F		41E 8 17S 29E	58	2400P	58	INACTIVE WATER-INJECTION	777 30		190		127 S				
6 F		51M 5 17S 29E	26	2400P	26	INACTIVE WATER-INJECTION	924 30		218		132 S				
6 F		53H 5 17S 29E	213	2400P	213	INACTIVE WATER-INJECTION	987 30		550	142NRC	66 S				
6 F		62 LEASE TOTAL	646	33600	646		9443		114		143 S				
6 F		CAVE 10 STATE 17S 29E	13	2400P	13		862 30	3CON	190		127 S				
6 F		CAVE 2H STATE 17S 29E	17	2400P	17		1102 30		218		132 S				
6 F		CAVE 3E STATE 17S 29E	41	2400P	41		1132 30		550	142NRC	66 S				
6 F		CAVE 4F STATE 17S 29E	10	2400P	10		1221 30		114		143 S				
6 F		DIAMOND 4 STATE 17S 29E	19	2400P	19		1919 30		245		135 S				
6 F		DIAMOND 5 STATE 17S 29E	29	2400P	29		1157 30	1CON	341		102 F				
6 F		HODGES FEDERAL 17S 29E	42	2400P	42	LAST PRD. DATE 03/77	951 30		615	137NRC	100 F				
6 F		LEVERS 33 16S 29E	16	2400P	16		1192 30		509	154NRC	43 F				
6 F		4M 33 16S 29E	58	4800	58		2143		219						
6 F		6L LEASE TOTAL	42	2400P	42		1742 30		417	155NRC	56 S				
6 F		RED 1B STATE 17S 29E	71	2400P	71		1190 30		833		224 S				
6 F		RED 2G STATE 17S 29E	67	2400P	67		3168 28		1026	145NRC	112 S				
6 F		RED 3H STATE 17S 29E	131	2400P	131		2796 30		628		185 S				
6 F		RED 4J STATE 17S 29E	58	2400P	58		927 30								
6 F		RED 5K STATE 17S 29E	49	2400P	49	LAST PRD. DATE 01/85	1782 30		850		270 F				
6 F		RED 6L STATE 16S 29E	26	2400P	26		1625 30		261		42U S				
6 F		RED 7M STATE 16S 29E	75	4800	75		3407	765CON							
6 F		RED 8N STATE 17S 29E	23	2400P	23	LAST PRD. DATE 08/84	1162 30		1339		53 S				
6 F		RED 9P STATE 17S 29E	1300	2400	1300	LAST PRD. DATE 05/89	1162 30				2140				
6 F		RED 10Q STATE 17S 29E	33	2400P	33	*****	*****								
6 F		RED 11R STATE 17S 29E	35	2400P	35	*****	*****								
6 F		RED 12S STATE 17S 29E	45	2400P	45	*****	*****								
6 F		RED 13T STATE 17S 29E	133	7200	133	*****	*****	1912GPM	1389	160NRC	71 F				
6 F		RED 14U STATE 17S 29E	63	2400P	63	*****	*****		833		141 S				
6 F		RED 15V STATE 17S 29E	14	2400P	14	*****	*****	PLUGGED AND ABANDONED	143	160	40 S				
6 F		RED 16W STATE 17S 29E	210	12000	210	*****	*****				252 S				
6 F		RED 17X STATE 17S 29E				*****	*****								
6 F		RED 18Y STATE 17S 29E				*****	*****								
6 F		RED 19Z STATE 17S 29E				*****	*****								
6 F		RED 20AA STATE 17S 29E				*****	*****								
6 F		RED 21BB STATE 17S 29E				*****	*****								
6 F		RED 22CC STATE 17S 29E				*****	*****								
6 F		RED 23DD STATE 17S 29E				*****	*****								
6 F		RED 24EE STATE 17S 29E				*****	*****								
6 F		RED 25FF STATE 17S 29E				*****	*****								
6 F		RED 26GG STATE 17S 29E				*****	*****								
6 F		RED 27HH STATE 17S 29E				*****	*****								
6 F		RED 28II STATE 17S 29E				*****	*****								
6 F		RED 29JJ STATE 17S 29E				*****	*****								
6 F		RED 30KK STATE 17S 29E				*****	*****								
6 F		RED 31LL STATE 17S 29E				*****	*****								
6 F		RED 32MM STATE 17S 29E				*****	*****								
6 F		RED 33NN STATE 17S 29E				*****	*****								
6 F		RED 34OO STATE 17S 29E				*****	*****								
6 F		RED 35PP STATE 17S 29E				*****	*****								
6 F		RED 36QQ STATE 17S 29E				*****	*****								
6 F		RED 37RR STATE 17S 29E				*****	*****								
6 F		RED 38SS STATE 17S 29E				*****	*****								
6 F		RED 39TT STATE 17S 29E				*****	*****								
6 F		RED 40UU STATE 17S 29E				*****	*****								
6 F		RED 41VV STATE 17S 29E				*****	*****								
6 F		RED 42WW STATE 17S 29E				*****	*****								
6 F		RED 43XX STATE 17S 29E				*****	*****								
6 F		RED 44YY STATE 17S 29E				*****	*****								
6 F		RED 45ZZ STATE 17S 29E				*****	*****								
6 F		RED 46AA STATE 17S 29E				*****	*****								
6 F		RED 47BB STATE 17S 29E				*****	*****								
6 F		RED 48CC STATE 17S 29E				*****	*****								
6 F		RED 49DD STATE 17S 29E				*****	*****								
6 F		RED 50EE STATE 17S 29E				*****	*****								
6 F		RED 51FF STATE 17S 29E				*****	*****								
6 F		RED 52GG STATE 17S 29E				*****	*****								
6 F		RED 53HH STATE 17S 29E				*****	*****								
6 F		RED 54II STATE 17S 29E				*****	*****								
6 F		RED 55JJ STATE 17S 29E				*****	*****								
6 F		RED 56KK STATE 17S 29E				*****	*****								
6 F		RED 57LL STATE 17S 29E				*****	*****								
6 F		RED 58MM STATE 17S 29E				*****	*****								
6 F		RED 59NN STATE 17S 29E				*****	*****								
6 F		RED 60OO STATE 17S 29E				*****	*****								
6 F		RED 61PP STATE 17S 29E				*****	*****								
6 F		RED 62QQ STATE 17S 29E				*****	*****								
6 F		RED 63RR STATE 17S 29E				*****	*****								
6 F		RED 64SS STATE 17S 29E				*****	*****								
6 F		RED 65TT STATE 17S 29E				*****	*****								
6 F		RED 66UU STATE 17S 29E				*****	*****								
6 F		RED 67VV STATE 17S 29E				*****	*****								
6 F		RED 68WW STATE 17S 29E				*****	*****								
6 F		RED 69XX STATE 17S 29E				*****	*****								
6 F		RED 70YY STATE 17S 29E				*****	*****								
6 F		RED 71ZZ STATE 17S 29E				*****	*****								
6 F		RED 72AA STATE 17S 29E				*****	*****								
6 F		RED 73BB STATE 17S 29E				*****	*****								
6 F		RED 74CC STATE 17S 29E				*****	*****								
6 F		RED 75DD STATE 17S 29E				*****	*****								
6 F		RED 76EE STATE 17S 29E				*****	*****								
6 F		RED 77FF STATE 17S 29E				*****	*****								
6 F		RED 78GG STATE 17S 29E				*****	*****								
6 F		RED 79HH STATE 17S 29E				*****	*****								
6 F		RED 80II STATE 17S 29E				*****	*****								
6 F		RED 81JJ STATE 17S 29E				*****	*****								
6 F		RED 82KK STATE 17S 29E				*****	*****								
6 F		RED 83LL STATE 17S 29E				*****	*****								
6 F		RED 84MM STATE 17S 29E				*****	*****								
6 F		RED 85NN STATE 17S 29E				*****	*****								
6 F		RED 86OO STATE 17S 29E				*****	*****								
6 F		RED 87PP STATE 17S 29E				*****	*****								
6 F		RED 88QQ STATE 17S 29E				*****	*****								
6 F		RED 89RR STATE 17S 29E				*****	*****								
6 F		RED 90SS STATE 17S 29E				*****	*****								
6 F		RED 91TT STATE 17S 29E				*****	*****								
6 F		RED 92UU STATE 17S 29E				*****	*****								
6 F		RED 93VV STATE 17S 29E				*****	*****								
6 F		RED 94WW STATE 17S 29E				*****	*****								
6 F		RED 95XX STATE 17S 29E				*****	*****								
6 F		RED 96YY STATE 17S 29E				*****	*****								
6 F		RED 97ZZ STATE 17S 29E				*****	*****								
6 F		RED 98AA STATE 17S 29E				*****	*****								
6 F		RED 99BB STATE 17S 29E				*****	*****								
6 F		RED 00CC STATE 17S 29E				*****	*****								
6 F		RED 01DD STATE 17S 29E				*****	*****								
6 F		RED 02EE STATE 17S 29E				*****	*****								
6 F		RED 03FF STATE 17S 29E				*****	*****								
6 F		RED 04GG STATE 17S 29E				*****	*****								
6 F		RED 05HH STATE 17S 29E				*****	*****								
6 F		RED 06II STATE 17S 29E				*****	*****								
6 F		RED 07JJ STATE 17S 29E				*****	*****								
6 F		RED 08KK STATE 17S 29E				*****	*****								
6 F		RED 09LL STATE 17S 29E				*****	*****								
6 F		RED 10MM STATE 17S 29E				*****	*****								
6 F		RED 11NN STATE 17S 29E				*****	*****								
6															

**CAVE GRAYBURG-SAN ANDRES POOL**  
(Formerly Cave-Grayburg Pool)  
Eddy County, New Mexico

Order No. 850, January 1, 1950, Redefining Pool, as Amended by Order No. R-877, September 13, 1956; Order No. R-948, January 30, 1957; Order No. R-982, April 23, 1957; Order No. R-1017, June 28, 1957; Order No. R-1079, October 29, 1957; Order No. R-1105, December 30, 1957; Order No. R-1118, January 28, 1958; Order No. R-1238, August 14, 1958; Order No. R-1397, May 18, 1959; Order No. R-2101, November 1, 1961; Order No. R-3402, May 1, 1968; Order No. R-6810, October 1, 1981.

Order No. R-6850 amends Order No. R-6810, effective November 1, 1981, to make the effective date of the extension of the vertical limits of the Cave-Grayburg Pool to include the San Andres formation October 1, 1981.

Pool abolished by Order No. R-8391, February 1, 1987.

**WEST CAVE-SAN ANDRES POOL**  
Eddy County, New Mexico

Order No. R-933, December 28, 1956, Establishing Pool.

T-17-S, R-28-E SE/4 Sec. 12.

**CEDAR HILLS-YATES POOL**  
Eddy County, New Mexico

Order No. R-112, November 20, 1951, Establishing Pool, as Amended by Order No. R-236, December 24, 1952.

T-21-S, R-27-E Sec. 5; N/2 Sec. 8.

**CEDAR POINT-QUEEN POOL**  
Chaves County, New Mexico

Order No. R-842, July 9, 1956, Establishing Pool.

T-15-S, R-30-E SE/4 Sec. 23.

**CHAMBERS-WOLFCAMP POOL**  
Lea County, New Mexico

Order No. R-853, August 10, 1956, Establishing Pool, as Amended by Order No. R-1509, October 26, 1959; Order No. R-4304, June 1, 1972.

Pool abolished by Order No. R-4809, July 1, 1974.

**DAYTON-GRAYBURG POOL**  
Eddy County, New Mexico

Order No. 850, January 1, 1950, Redefining Pool, as Amended by Order No. R-5988, May 1, 1979.

T-18-S, R-26-E S/2 Sec. 23; S/2 Sec. 24; Secs. 25, 26; N/2, W/2 SE/4 Sec. 35.

T-19-S, R-26-E W/2 NE/4, NW/4 SE/4 Sec. 2.

**DAYTON-SAN ANDRES POOL**  
Eddy County, New Mexico

Order No. R-948, January 30, 1957, Establishing Pool, as Amended by Order No. R-1079, October 29, 1957; Order No. R-5309, November 1, 1976.

T-18-S, R-26-E SW/4, E/2 NW/4 Sec. 26; SE/4 SE/4 Sec. 27; E/2 NE/4 Sec. 34; N/2 Sec. 35.

**COMANCHE-SAN ANDRES POOL**  
Chaves County, New Mexico

Order No. 850, January 1, 1950, Redefining Pool, as Amended by Order No. R-6274, March 1, 1980.

T-11-S, R-26-E NW/4 NW/4 Sec. 14; N/2 Sec. 15.

**CORBIN-QUEEN POOL**  
Lea County, New Mexico

Order No. 850, January 1, 1950, Redefining Pool, as Amended by Order No. R-38, December 20, 1950; Order No. R-136, March 20, 1952; Order No. R-286, March 10, 1953; Order No. R-460, May 19, 1954; Order No. R-667, July 27, 1955; Order No. R-738, January 9, 1956; Order No. R-986, April 29, 1957; Order No. R-2101, November 1, 1961; Order No. R-5361, March 1, 1977; Order No. R-5754, July 1, 1978; Order No. R-5838, November 1, 1978; Order No. R-6211, January 1, 1980; Order No. R-8104, January 1, 1986; Order No. R-9287, September 19, 1990.

T-17-S, R-33-E SE/4 Sec. 31; S/2, NE/4 Sec. 32; Secs. 33, 34; W/2 Sec. 35.

T-18-S, R-33-E NW/4 Sec. 5; E/2, SW/4 Sec. 6.

**SOUTH CORBIN-QUEEN POOL**  
Lea County, New Mexico

Order No. R-1017, June 28, 1957, Establishing Pool, as Amended by Order No. R-2651, March 1, 1964; Order No. R-3056, May 1, 1966; Order No. R-9472, April 1, 1991.

T-18-S, R-33-E SW/4 Sec. 26; S/2 Sec. 27; SE/4 Sec. 28; E/2 Sec. 33; N/2 Sec. 34.

**CORBIN-YATES POOL**  
Lea County, New Mexico

Order No. R-175, July 24, 1952, Establishing Pool, as Amended by Order No. R-842, July 9, 1956; Order No. R-8561, January 1, 1988.

T-18-S, R-33-E E/2 Sec. 9; W/2 Sec. 10; S/2, NE/4 Sec. 16; SE/4 Sec. 17; NE/4 Sec. 20.

**CRAWFORD-PENNSYLVANIAN GAS POOL**  
Eddy County, New Mexico

Order No. R-1143, March 25, 1958, Establishing Pool, as Amended by Order No. R-2101, November 1, 1961.

Pool abolished by Order No. R-7315, July 13, 1983.

COUNTY Eddy

POOL Grayburg Jackson Queen-Grayburg-San Andres-  
Seven Rivers

TOWNSHIP 16 South RANGE 29 East NMPM

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

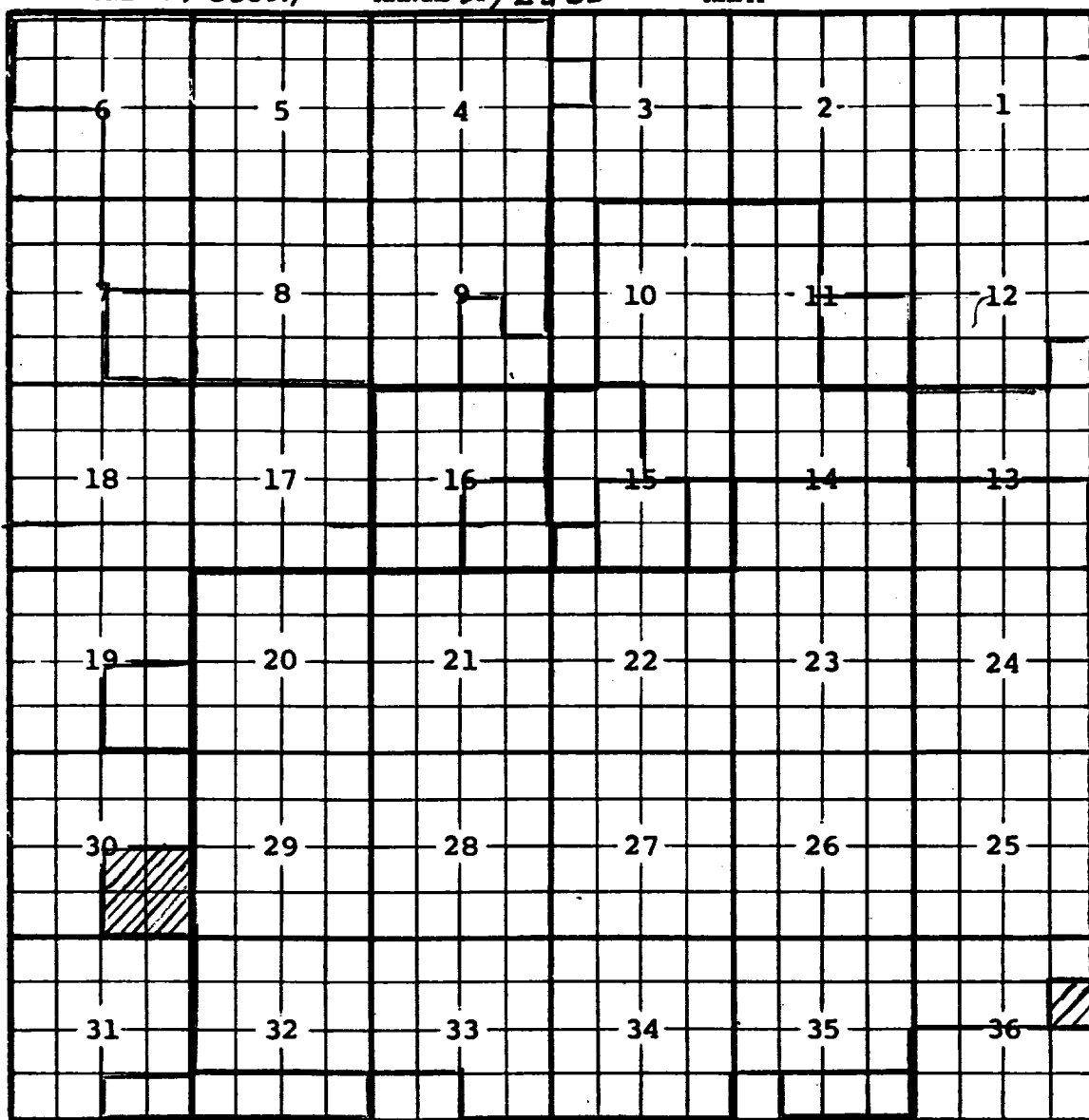
Ext:  $\frac{5}{2} \times \frac{5}{2}$  Sec. 31,  $\frac{5}{2}$  and  $\frac{NE}{4}$  Sec. 33 (A-8391, 1-22-87)

COUNTY EddyPOOL Grayburg-Jackson

(Q-G-SA-SR)

TOWNSHIP 17 SouthRANGE 29 East

NMPM



Description:  $\frac{S}{2}$  Sec. 13;  $\frac{S}{2}$  Sec. 14; All Secs. 20 thru 29;  $\frac{N}{2}$  &  $\frac{N}{2}$   $\frac{S}{2}$  Sec. 32;  
 $\frac{N}{2}$ ,  $\frac{N}{2}$   $\frac{SW}{4}$  &  $\frac{SE}{4}$  Sec. 33; All Sec. 34;  $\frac{N}{2}$  &  $\frac{N}{2}$   $\frac{S}{2}$  Sec. 35;  $\frac{N}{2}$  Sec. 36 (R-850, 1-1-51)  
 Ext:  $\frac{E}{2}$   $\frac{SE}{4}$  Sec. 15 (R-877, 9-13-56) -  $\frac{W}{2}$   $\frac{SE}{4}$  &  $\frac{E}{2}$   $\frac{SW}{4}$  Sec. 15 (R-948, 1-30-57)  
 -  $\frac{SE}{4}$  Sec. 19 (R-1210, 6-26-58) - Vertical limits extended to include  
 Lower San Andres formation (R-1509, 11-1-59)  
 -  $\frac{SE}{4}$  Sec. 30 (R-2313, 10-1-62) Deletion:  $\frac{SE}{4}$   $\frac{NE}{4}$  Sec. 36 (R-2759, 8-3-64)  
 Deletion:  $\frac{SE}{4}$  Sec. 30 (R-2938, 8-1-65)  
 Ext:  $\frac{S}{2}$   $\frac{SE}{4}$  Sec. 31;  $\frac{S}{2}$   $\frac{S}{2}$  Sec. 32 (R-3080, 7-1-66) -  $\frac{SW}{4}$   $\frac{SW}{4}$  Sec. 15;  
 $\frac{S}{2}$   $\frac{SE}{4}$  &  $\frac{SE}{4}$   $\frac{SW}{4}$  Sec. 35 (R-3104, 9-1-66) -  $\frac{SE}{4}$  Sec. 16 (R-3139, 11-1-66)  
 -  $\frac{E}{2}$  &  $\frac{E}{2}$   $\frac{W}{2}$  Sec. 10;  $\frac{W}{2}$  Sec. 11;  $\frac{N}{2}$  Sec. 14;  $\frac{NE}{4}$  Sec. 15 (R-3262, 7-1-67)  
 -  $\frac{N}{2}$  &  $\frac{SW}{4}$  Sec. 16 (R-3402, 5-1-68) -  $\frac{SE}{4}$  Sec. 11;  $\frac{NW}{4}$  &  $\frac{NW}{4}$   $\frac{SW}{4}$  Sec. 15 (R-3455, 8-1-68)  
 -  $\frac{SE}{4}$   $\frac{SE}{4}$  Sec. 12;  $\frac{N}{2}$  Sec. 13 (R-4080, 1-1-71) Vertical Limits Extended To  
 include Seven Rivers Formation except in area of Ften-  
 Seven Rivers Pool (R-5011, 5-6-75)

COUNTY

Eddy

POOL

Cave-Grayburg

ABOLISHED

(Grayburg) &amp; San Andre

TOWNSHIP

16-South

RANGE

29-East

NMFM

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Description:  $\frac{3}{4} \times \frac{3}{4}$  Sec. 31;  $\frac{3}{4} \times \frac{1}{4}$  NE  $\frac{1}{4}$  Sec. 33, (R-1079) (10-29-57)

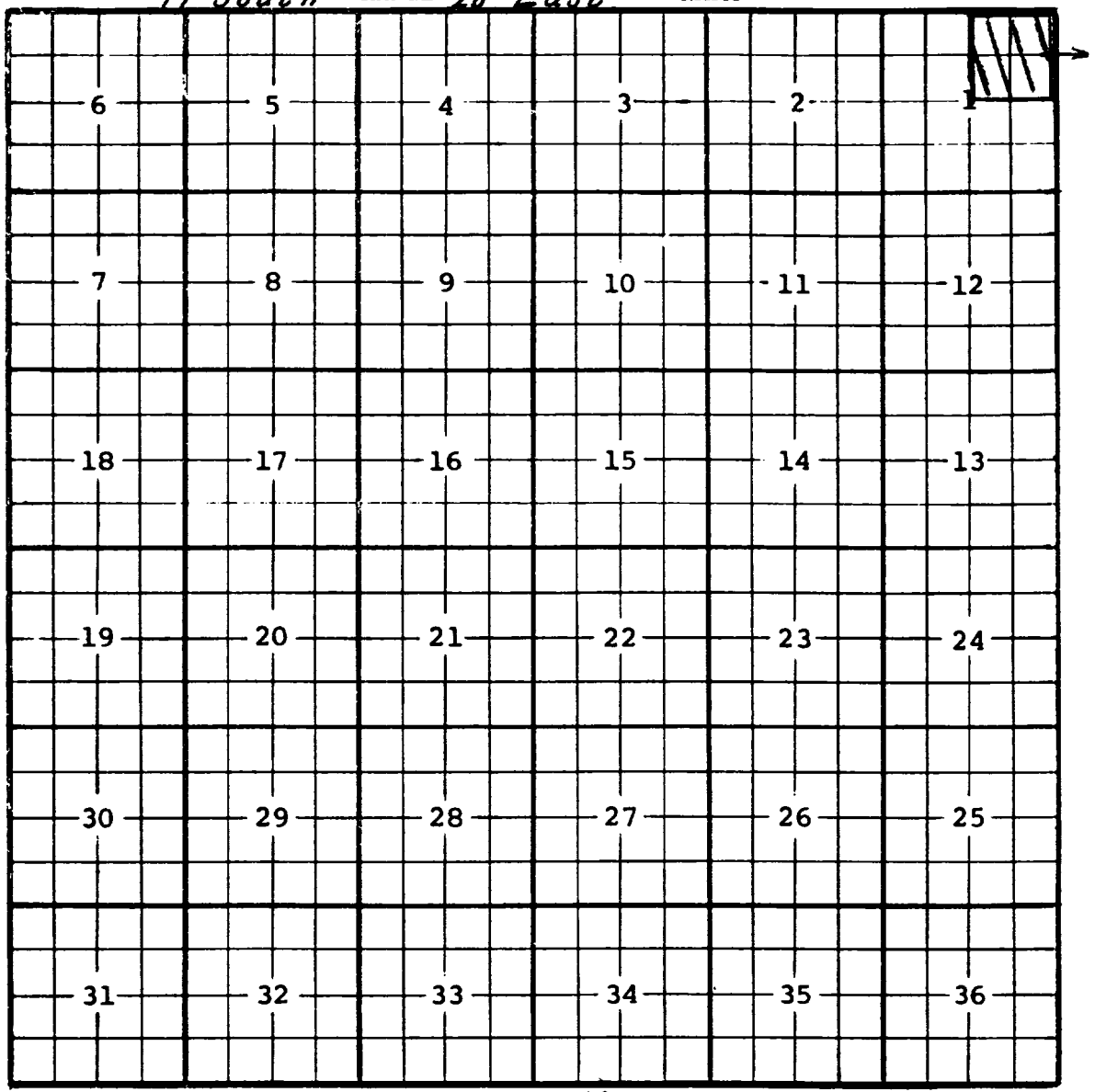
Ext. Vertical limits to San Andreas (R-6724, 7-16-81)

Abolish (R-8381, 1-22-87)

(R-6810)

ABOLISHED

COUNTY Eddy POOL Cave-Grayburg-San Andreas(Grayburg)  
TOWNSHIP 17-South RANGE 28-East NMPM



Ext: <sup>NE</sup>/<sub>4</sub> Sec. 1, (R-1079, 10-29-57). Ext. Vert. limits to San Andreas  
(R-<sup>6810</sup>~~6224~~, 7-16-81)  
Abolish (R-8391, 1-22-87)

ABOLISHED

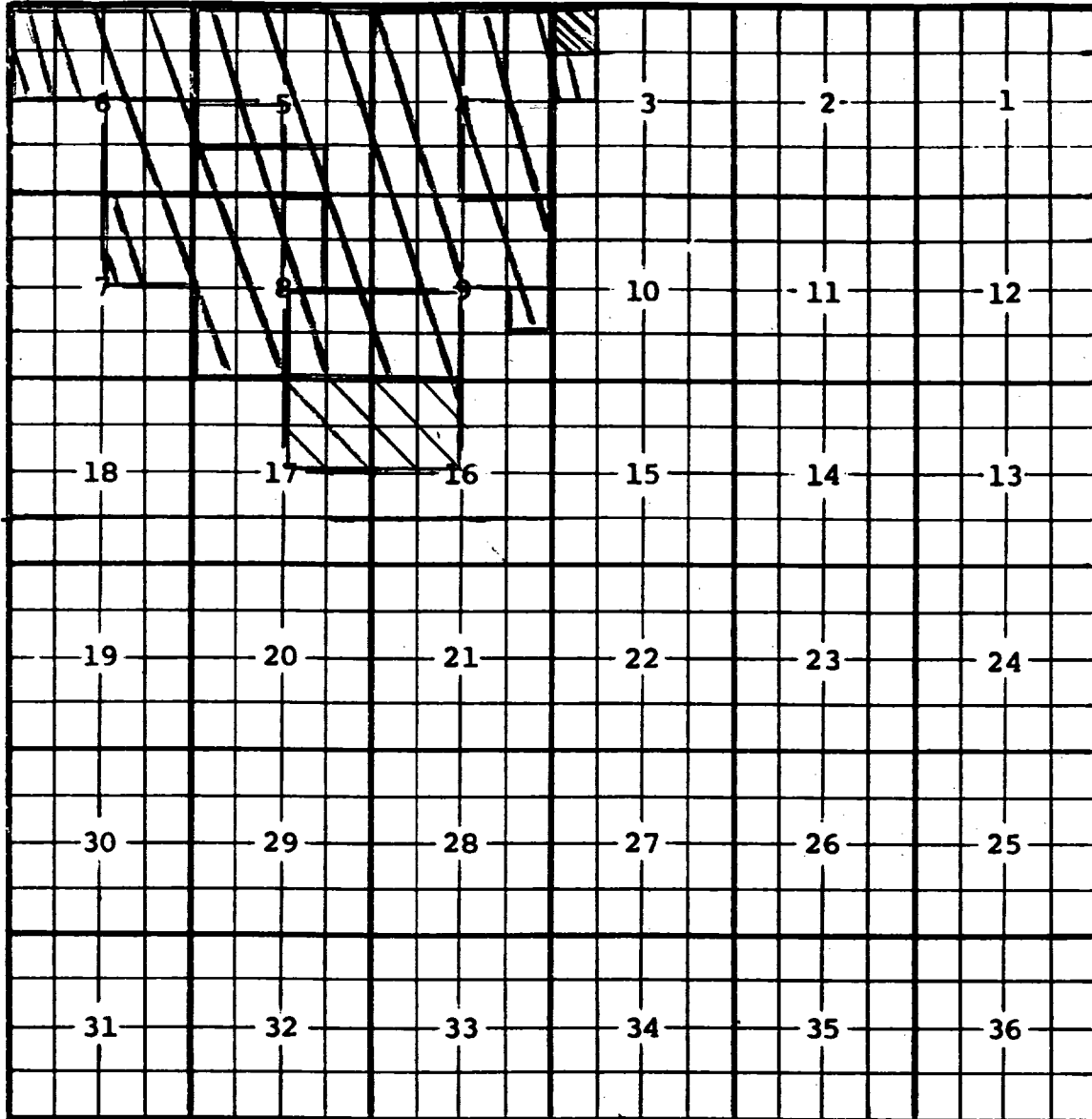
COUNTY Eddy

POOL Cave - Grayburg - San Andreas

TOWNSHIP 17 South

RANGE 29 East

NMPM



Description:  $\frac{SE}{4}$  Sec. 8;  $\frac{SW}{4}$  Sec. 9;  $\frac{NW}{4}$  Sec. 16;  $\frac{NE}{4}$  Sec. 17

Ext:  $\frac{NE}{4}$  Sec. 7;  $\frac{W}{2}$  Sec. 8 (R-877, 9-13-56) -  $\frac{SW}{4}$  Sec. 5;  $\frac{WNE}{4}$  Sec. 8 (R-948, 1-30-57)

-  $\frac{N}{2}$   $\frac{SW}{4}$   $\frac{SW}{4}$   $\frac{SE}{4}$  Sec. 5 (R-987, 4-23-57) -  $\frac{W}{2}$  Sec. 4;  $\frac{N}{2}$   $\frac{NNE}{4}$   $\frac{SE}{4}$   $\frac{SE}{4}$  Sec. 5;

$\frac{E}{2}$   $\frac{NE}{4}$  Sec. 8;  $\frac{N}{2}$  Sec. 9 (R-1017, 6-28-57) -  $\frac{WNE}{4}$  Sec. 4;  $\frac{N}{2}$  Sec. 6 (R-1079, 10-29-57)

-  $\frac{SE}{4}$  Sec. 6 (R-1105, 12-30-57) -  $\frac{E}{2}$   $\frac{NE}{4}$  Sec. 4 (R-1118, 1-28-58) -  $\frac{SE}{4}$  Sec. 4 (R-1238, 9-1-58)

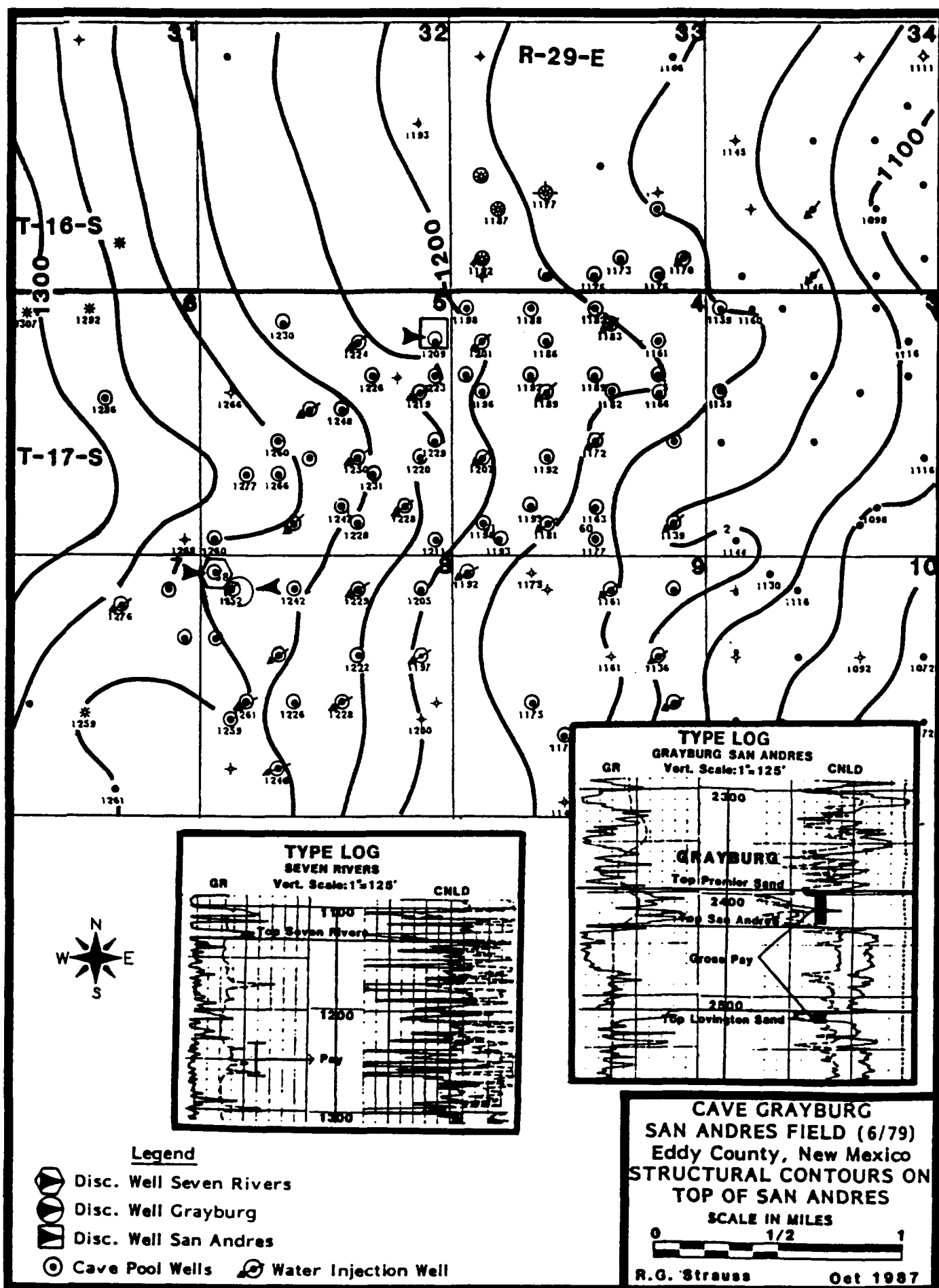
-  $\frac{W}{2}$   $\frac{SW}{4}$  Sec. 3 (R-1397, 6-1-59) - Deletion:  $\frac{NW}{4}$   $\frac{NW}{4}$  Sec. 3 (R-2101, 11-1-61)

Ext:  $\frac{NE}{4}$   $\frac{SE}{4}$  Sec. 9 (R-2101, 11-1-61) - Deletion:  $\frac{NW}{4}$  Sec. 16;  $\frac{NE}{4}$  Sec. 17 (R-3402, 5-1-66)

Ext: Vertical limit S.A. - (R-6724, 7-16-81)

Abolish (R-8391, 1-22-87) <sup>6810</sup>





# ROSWELL GEOLOGICAL SOCIETY SYMPOSIUM - 1988

**Author:** R. G. Strauss      **Field Name:** Cave Grayburg San Andres (Oil)  
**Affiliation:** Phillips Petroleum Company      **Location:** T.16 and 17S., R.28 and 29E  
**Date:** October 2, 1987      **County & State:** Eddy County, New Mexico

**Discovery Well:** Kincaid and Watson No. 1-D, Humble State. 660' FNL, 660' FWL, Sec. 8, T.17S., R.29E. Compl. 4/13/56. T.D. 2,380'.

## **Exploration Method Leading to Discovery:**

**Pay Zone:** 2,383'-2,402': 70 BOPD.

**Formation Name:** Grayburg (Premier Sand) **Depth & Datum Discovery Well:** 2,432' (+1,252')

**Lithology Description:** Sand, fine-v. fine gr., gray-brown.

**Approximate average pay:** 40 gross 25 net      **Productive Area** 2,250 acres

**Type Trap:** Stratigraphic.

## **Reservoir Data:**

12-29 % Porosity 1.5-150 Md Permeability 32-47 % Sw 14-18 % So  
oil: 36° API gravity.

**Gas:**

**Water:** \_\_\_\_\_ Na+K \_\_\_\_\_ Ca \_\_\_\_\_ Mg \_\_\_\_\_ Cl \_\_\_\_\_ SO<sub>4</sub> \_\_\_\_\_ CO<sub>2</sub> or HCO<sub>3</sub> \_\_\_\_\_ Fe

**Specific Gravity** \_\_\_\_\_ **Resistivity** .045 ohms @ 99 °F

**Initial Field Pressure:** 1,000 psi @ \_\_\_\_\_ datum      **Reservoir Temp.** \_\_\_\_\_ °F

**Type of Drive :** Solution gas.

**Normal Completion Practices:** Drill through the Grayburg-San Andres, run production casing, perforate, acidize with 3,000 gals. acid, frac with 200,000 lbs. sand, complete.

**Type completion:**

**Normal Well Spacing** 40 Acres

**Deepest Horizon Penetrated & Depth:** Morrow Formation 10,670' (-6,986'). Harvey E. Yates No. 1 Arco "8" St. Com.

**Other Producing Formations in Field:** Seven Rivers and San Andres.

Originally designated Cave Grayburg (12/56). Redesignated Cave Grayburg

**Production Data:** San Andres (12/81). Abolished 2/87. Production shown only through December 1986.

YEAR	TYPE	No. of wells # yr. end		PRODUCTION OIL IN BARRELS GAS IN MMCF		YEAR	TYPE	No. of wells # yr. end		PRODUCTION OIL IN BARRELS GAS IN MMCF	
		Prod.	S.I. or Abd.	ANNUAL	CUMULATIVE			Prod.	S.I. or Abd.	ANNUAL	CUMULATIVE
79	OIL	17	34	3,523	2,227,499	83	OIL	21	34	13,103	2,270,766
	GAS			3			GAS			67	
80	OIL	17	34	6,610	2,234,109	84	OIL	38	37	42,312	2,313,078
	GAS			2			GAS			199	
81	OIL	20	35	11,967	2,246,076	85	OIL	38	44	40,341	2,353,419
	GAS			48			GAS			202	
82	OIL	20	34	11,587	2,257,663	86	OIL	39	47	26,777	2,380,196
	GAS			106			GAS			136	

NEW MEXICO OIL CONSERVATION COMMISSION									
Highland Corporation			4-A		Levers		33-168-29E		
Company		Well No.		Lease		S-T-R			
Location	330	Fr.	S	L	660	fr.	W	L	County Eddy
Spud	1-26-59	Comp.		3-17-59		Field		Cave	
Total Depth	2500 MAXX 11	P. B.		Top Pay		Size	CSG.	RECORD Depth	Sax
I. P.						8 5/8	318		50
Ch.	on	Tbg. @		Press: T.					
C.	Pkr.	Gor.		Gr.					
<b>TEMPORARILY ABANDONED</b>									
						Smp1 FORMATION RECORD			
						Elev. 77		T	
						T X 265'		T	
						T Q 1655		T	
						BX		T	
						T GB1795		T	
						T SA2401		T	
						T		T	
						T		T	
						T		T Gr.	
Treatments Shows: S/G 2200-03									

7336 - ARTESIA PRINTING CO.

NEW MEXICO OIL CONSERVATION COMMISSION									
Highland Corp.			3-82		Levers		33-168-29E		
Company		Well No.		Lease		S-T-R			
Location	330	Fr.	S	L	1970	fr.	W	L	County Eddy
Spud	11-29-58	Comp.		1-25-59		Field		Cave	
Total Depth	2503 11	P. B.		2420		Top Pay	2366	Size	CSG. RECORD Depth
I. P. F.	200 BO 24 hrs.							8-5/8	318
Ch.	3/8"	on		Tbg. @		Press: T.		5 1/2	2503
C.		Pkr.		Gor.		Gr.		35.8	125
Perfor: 20H 2366-76									
						8/3 FORMATION RECORD			
						Elev. 3585 DF		T	
						T X 300		T	
						T		T	
						BX 390		T	
						T Q 1580		T	
						Pre-2366		T	
						Low. ad.		T	
						T 2472		T	
						T		T Gr.	
Treatments 30,000 SDF 2366-76									
Shows: S/O-OW 1167-76, S/O 2202-13, S/O									
2370-87 bail 55 gal. f 10 gal BS 1 hr.									

7336 - ARTESIA PRINTING CO.

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR  
THE PURPOSE OF CONSIDERING:

CASE No. 2702  
Order No. R-2384

APPLICATION OF CONTINENTAL OIL  
COMPANY FOR APPROVAL OF THE CAVE  
POOL UNIT AGREEMENT, EDDY COUNTY,  
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on November 20, 1962, at Santa Fe, New Mexico, before Elvis A. Utz, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 5th day of December, 1962, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Utz, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Continental Oil Company, seeks approval of the Cave Pool Unit Agreement covering 1,960 acres, more or less, of Federal and State lands in portions of Townships 16 and 17 South, Range 29 East, NMPM, Eddy County, New Mexico.

(3) That approval of the proposed Cave Pool Unit Agreement will in principle tend to promote the conservation of oil and gas and the prevention of waste.

IT IS THEREFORE ORDERED:

(1) That the Cave Pool Unit Agreement is hereby approved.

(2) That the plan under which the unit area shall be operated shall be embraced in the form of a unit agreement for the development and operation of the Cave Pool Unit Area, and such plan shall be known as the Cave Pool Unit Agreement Plan.

(3) That the Cave Pool Unit Agreement Plan is hereby approved in principle as a proper conservation measure; provided, however, that notwithstanding any of the provisions contained in said unit agreement, this approval shall not be considered as waiving or relinquishing, in any manner, any right, duty, or obligation which is now, or may hereafter be, vested in the Oil Conservation Commission of New Mexico by law relative to the supervision and control of operations for the exploration and development of any lands committed to the Cave Pool Unit, or relative to the production of oil or gas therefrom.

(4) (a) That the unit area shall be:

NEW MEXICO PRINCIPAL MERIDIAN

EDDY COUNTY, NEW MEXICO  
TOWNSHIP 16 SOUTH, RANGE 29 EAST  
Section 33: S/2 SE/4

TOWNSHIP 17 SOUTH, RANGE 29 EAST  
Section 3: SW/4 NW/4  
Section 4: All  
Section 5: E/2, E/2 SW/4, SE/4 NW/4  
Section 7: N/2 NE/4  
Section 8: N/2, N/2 SW/4, SE/4 SW/4,  
NW/4 SE/4  
Section 9: NW/4 NW/4, N/2 NE/4, SE/4 NE/4,  
NE/4 SE/4

containing 1,960 acres, more or less.

(b) That the unit area may be enlarged or contracted as provided in said plan; provided, however, that administrative approval for expansion or contraction of the unit area must also be obtained from the Secretary-Director of the Commission.

(5) That the unit operator shall file with the Commission an executed original or executed counterpart of the Cave Pool Unit Agreement within 30 days after the effective date thereof. In the event of subsequent joinder by any party or expansion or contraction of the unit area, the unit operator shall file with the Commission within 30 days thereafter counterparts of the unit agreement reflecting the subscription of those interests having joined or ratified.

(6) That this order shall become effective upon the approval of said unit agreement by the Commissioner of Public Lands for the State of New Mexico and the Director of the United States Geological Survey, and shall terminate ipso facto upon the termination of said unit agreement. The last unit operator shall notify the Commission immediately in writing of such termination.

-3-

CASE No. 2702

Order No. R-2384

(7) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

TOM BOLACK, Chairman

E. S. WALKER, Member

A. L. PORTER, Jr., Member & Secretary

S E A L

esr/

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR  
THE PURPOSE OF CONSIDERING:

CASE No. 2703  
Order No. R-2385

APPLICATION OF CONTINENTAL OIL COMPANY  
FOR A WATERFLOOD PROJECT AND A CENTRAL  
TANK BATTERY, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on November 20, 1962, at Santa Fe, New Mexico, before Elvis A. Utz, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 5th day of December, 1962, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Utz, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the Cave Pool Unit Agreement has been approved by the Commission by Order No. R-2384; that the Cave Pool Unit Area comprises 1,960 acres, more or less, of State and Federal lands in Townships 16 and 17 South, Range 29 East, NMPM, Cave Pool, Eddy County, New Mexico, as more fully described in said order.

(3) That the applicant, Continental Oil Company, seeks permission to institute a waterflood project in the Cave Pool Unit Area by the injection of water into the Premier Sand of the Grayburg formation through 26 injection wells located within said unit area.

(4) That the applicant further seeks authority to commingle all production in the Cave Pool Unit Area into a central tank battery to be located in the southeast corner of the NW/4 SE/4 of Section 5, Township 17 South, Range 29 East.

*Also see  
R-2837*

(5) That the wells in the project area are in an advanced stage of depletion and should properly be classified as "stripper" wells.

(6) That approval of the waterflood project will not cause damage to producing formations in the area or otherwise cause waste if the well casing on all injection wells is tested to withstand 2000 pounds psi prior to injection.

(7) That approval of the waterflood project will not cause damage to producing formations in the area or otherwise cause waste if injection into all wells that will not withstand 2000 pounds psi casing pressure is accomplished through tubing installed in a packer with injection below the packer.

(8) That the waterflood project should be approved and should be governed by the provisions of Rule 701.

(9) That the applicant should be granted authority to commingle all production from the waterflood project into a central tank battery as all production will be within the Cave Pool Unit Area.

IT IS THEREFORE ORDERED:

(1) That the applicant, Continental Oil Company, is hereby authorized to institute a waterflood project in the Premier Sand of the Grayburg formation in the Cave Pool Unit Area by the injection of water through the following-described 26 wells:

TOWNSHIP 17 SOUTH, RANGE 29 EAST, NMPM, EDDY COUNTY,  
NEW MEXICO

CONTINENTAL OIL COMPANY

State "EE" 4 Well No. 1, Unit N, Section 4  
State "EE" 4 Well No. 2, Unit F, Section 4  
State P-4 Well No. 3, Unit B, Section 4  
State U-4 Well No. 1, Unit H, Section 4  
State U-5 Well No. 1, Unit J, Section 5  
State U-5 Well No. 2, Unit H, Section 5  
State U-8 Well No. 2, Unit H, Section 8  
State U-9 Well No. 2, Unit B, Section 9  
State U-9 Well No. 4, Unit I, Section 9  
State T-8 Well No. 1, Unit B, Section 8  
State KE-9 Well No. 1, Unit D, Section 9  
State KD-4 Well No. 1, Unit D, Section 4  
State KD-4 Well No. 3, Unit J, Section 4  
State KC-5 Well No. 3, Unit P, Section 5  
State KC-5 Well No. 4, Unit F, Section 5  
State KF-5 Well No. 1, Unit N, Section 5  
Hodges 5 Well No. 1, Unit B, Section 5



KINCAID & WATSON DRILLING COMPANY

Humble State Well No. 1, Unit D, Section 8  
Humble State Well No. 4, Unit F, Section 8  
Humble State Well No. 5, Unit B, Section 7  
Atlantic State Well No. 2, Unit L, Section 8  
Atlantic State Well No. 3, Unit J, Section 8  
Atlantic State Well No. 4, Unit N, Section 8

BILL A. SHELTON OIL PROPERTIES

Gulf State "E" Well No. 4, Unit P, Section 4

SKELLY OIL COMPANY

Hobbs "H" Well No. 1, Unit L, Section 4

TOWNSHIP 16 SOUTH, RANGE 29 EAST, NMPM, EDDY COUNTY,  
NEW MEXICO

WESTERN DEVELOPMENT COMPANY

Dale Federal Well No. 2, Unit P, Section 33

(2) That the casing in all injection wells shall be tested to withstand 2000 pounds psi casing pressure prior to injection.

(3) That injection into all wells that will not withstand casing pressure of 2000 pounds psi shall be accomplished through tubing installed in a packer with injection below the packer.

(4) That the applicant, Continental Oil Company, is hereby authorized to commingle all production from the aforesaid waterflood project in the Cave Pool Unit Area into a central tank battery to be located in the southeast corner of the NW/4 SE/4 of Section 5, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico.

(5) That the subject waterflood project shall be governed by the provisions of Rule 701, including the allowable provisions thereof, and including the provisions with respect to expansion of the waterflood project.

(6) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

-4-

CASE No. 2703

Order No. R-2385

DONE at Santa Fe, New Mexico, on the day and year herein-  
above designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

TOM BOLACK, Chairman

E. S. WALKER, Member

A. L. PORTER, Jr., Member & Secretary

S E A L

esr/

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR  
THE PURPOSE OF CONSIDERING:

CASE NO. 5461  
Order No. R-5011

NOMENCLATURE

APPLICATION OF GENERAL AMERICAN  
OIL COMPANY FOR POOL EXTENSION,  
EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on April 30, 1975,  
at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 6th day of May, 1975, the Commission, a  
quorum being present, having considered the testimony, the  
record, and the recommendations of the Examiner, and being  
fully advised in the premises,

FINDS:

(1) That due public notice having been given as required  
by law, the Commission has jurisdiction of this cause and the  
subject matter thereof.

(2) That the applicant, General American Oil Company,  
seeks the extension of the vertical limits of the Grayburg  
Jackson (Queen-Grayburg-San Andres) Pool, Eddy County, New  
Mexico, to include the Seven Rivers formation excepting that  
area of said Grayburg Jackson Pool overlain by the Fren-Seven  
Rivers Pool.

(3) That the Seven Rivers formation overlying the Grayburg  
Jackson Pool in the horizontal area of the proposed extension  
consists of thin porosity and permeability zones often holding  
marginally economic reserves of hydrocarbons.

(4) That the evidence presented shows that it is  
uneconomical to attempt to drill to, complete, and produce  
the subject Seven Rivers formation as a single completion.

(5) That the evidence presented shows that it is  
uneconomical to attempt to complete the subject Seven Rivers  
formation dually with the Grayburg Jackson zones.

(6) That the evidence presented shows that the subject Seven Rivers formation can be completed and efficiently and economically produced by extending the vertical limits of the Grayburg Jackson Pool as proposed.

(7) That the nature and conditions of the Seven Rivers and Grayburg Jackson reservoirs and fluids are such that the vertical limits of the Grayburg Jackson Pool may be extended as proposed without causing waste.

(8) That the Fren-Seven Rivers Pool is an old established pool with very low marginal production.

(9) That to avoid problems associated with diverse ownership between existing completions in the Fren-Seven Rivers Pool and the Grayburg Jackson Pool and to maintain historical production statistics, the vertical limits of the Grayburg Jackson Pool should not be extended to include the Seven Rivers formation in that area of said pool overlain by the Fren-Seven Rivers Pool.

(10) That the North Fren Yates-Seven Rivers Associated Pool consisting of the SE/4 and E/2 SW/4 of Section 9, Township 17 South, Range 30 East, NMPM, Eddy County, New Mexico, should be abolished.

(11) That approval of the subject application will result in the recovery of hydrocarbons which would not otherwise be produced, will prevent waste and will not violate correlative rights.

(12) That the application to extend the vertical limits of the Grayburg Jackson Pool as proposed should be approved.

IT IS THEREFORE ORDERED:

(1) That the vertical limits of the Grayburg Jackson (Queen-Grayburg-San Andres) Pool, as previously established and defined by Commission order, are hereby extended to include the Seven Rivers formation excepting in that area where said pool is overlain by the Fren-Seven Rivers Pool.

(2) That the North Fren Yates-Seven Rivers Associated Pool is hereby abolished.

(3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

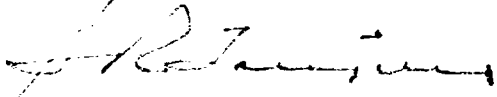
-3-

Case No. 5461

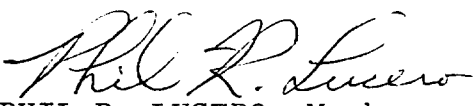
Order No. R-5011

DONE at Santa Fe, New Mexico, on the day and year herein-  
above designated.

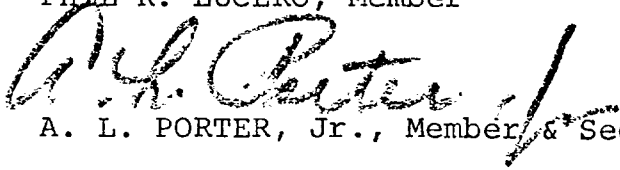
STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION



I. R. TRUJILLO, Chairman



PHIL R. LUCERO, Member



A. L. PORTER, Jr., Member & Secretary

S E A L

dr/

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
DIVISION FOR THE PURPOSE OF  
CONSIDERING:

CASE NO. 9069  
Order No. R-8391

THE APPLICATION OF THE OIL CONSERVATION  
DIVISION UPON ITS OWN MOTION FOR AN  
ORDER CREATING, ABOLISHING, AND  
EXTENDING CERTAIN POOLS IN CHAVES AND  
EDDY COUNTIES, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on January 21, 1987, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this 22nd day of January, 1987, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

(1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) There is need for the creation of a new pool in Eddy County, New Mexico, for the production of gas from the Wolfcamp formation, said pool to bear the designation of Dayton-Wolfcamp Gas Pool. Said Dayton-Wolfcamp Gas Pool was discovered by the Marathon Oil Company Ralph Nix Well No. 1 located in Unit J of Section 29, Township 18 South, Range 26 East, NMPM. It was completed in the Wolfcamp formation on October 11, 1986. The top of the perforations is at 6,349 feet.

(3) There is need for the creation of a new pool in Eddy County, New Mexico, for the production of oil from the Bone Spring formation, said pool to bear the designation of Getty-Bone Spring Pool. Said Getty-Bone Spring Pool was discovered by the TXO Production Corporation Williamson Federal Well No. 5 located in Unit B of Section 15, Township

20 South, Range 29 East, NMPM. It was completed in the Bone Spring formation on May 17, 1985. The top of the perforations is at 7,200 feet.

(4) There is need for the creation of a new pool in Eddy County, New Mexico, for the production of oil from the Wolfcamp formation, said pool to bear the designation of South Parkway-Wolfcamp Pool. Said South Parkway-Wolfcamp Pool was discovered by the Conoco Inc. Tuesday A Federal Well No. 1 located in Unit E of Section 3, Township 20 South, Range 29 East, NMPM. It was completed in the Wolfcamp formation on June 26, 1986. The top of the perforations is at 9,310 feet.

(5) There is need for the creation of a new pool in Eddy County, New Mexico, for the production of gas from the Morrow formation, said pool to bear the designation of North Sand Dunes-Morrow Gas Pool. Said North Sand Dunes-Morrow Gas Pool was discovered by the Union Oil Company Barclay State Well No. 1 located in Unit I of Section 2, Township 23 South, Range 31 East, NMPM. It was completed in the Morrow formation on May 4, 1986. The top of the perforations is at 14,062 feet.

(6) There is need for the abolishment of the Cave Grayburg-San Andres Pool in Eddy County, New Mexico, in order to place the abolished acreage in the Grayburg Jackson Seven Rivers-Queen-Grayburg-San Andres Pool.

(7) There is need for certain extensions to the East Carlsbad-Wolfcamp Gas Pool, the North Cemetery-Atoka Gas Pool, the North Dagger Draw-Upper Pennsylvanian Pool, the Empire-Atoka Gas Pool, the Happy Valley-Morrow Gas Pool, the North Illinois Camp-Morrow Gas Pool, the Indian Basin-Morrow Gas Pool, the Otis-Morrow Gas Pool, the East Ross Draw-Delaware Pool, the Shugart Yates-Seven Rivers-Queen-Grayburg Pool, and the East Shugart-Delaware Pool, all in Eddy County, New Mexico, and the Diablo-San Andres Pool in Chaves County, New Mexico.

IT IS THEREFORE ORDERED THAT:

(a) A new pool in Eddy County, New Mexico, classified as a gas pool for Wolfcamp production is hereby created and designated as the Dayton-Wolfcamp Gas Pool, consisting of the following described area:

TOWNSHIP 18 SOUTH, RANGE 26 EAST, NMPM  
Section 29: S/2

(b) A new pool in Eddy County, New Mexico, classified as an oil pool for Bone Spring production is hereby created and designated as the Getty-Bone Spring Pool, consisting of the following described area:

TOWNSHIP 20 SOUTH, RANGE 29 EAST, NMPM  
Section 15: NE/4

(c) A new pool in Eddy County, New Mexico, classified as an oil pool for Wolfcamp production is hereby created and designated as the South Parkway-Wolfcamp Pool, consisting of the following described area:

TOWNSHIP 20 SOUTH, RANGE 29 EAST, NMPM  
Section 3: NW/4

(d) A new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production is hereby created and designated as the North Sand Dunes-Morrow Gas Pool, consisting of the following described area:

TOWNSHIP 23 SOUTH, RANGE 31 EAST, NMPM  
Section 2: E/2

(e) The Cave Grayburg-San Andres Pool in Eddy County, New Mexico, consisting of the following described area:

TOWNSHIP 16 SOUTH, RANGE 29 EAST, NMPM  
Section 31: S/2 S/2  
Section 33: S/2 and NE/4

TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM  
Section 1: NE/4

TOWNSHIP 17 SOUTH, RANGE 29 EAST, NMPM  
Section 3: SW/4 NW/4  
Sections 4 and 5: All  
Section 6: N/2 and SE/4  
Section 7: NE/4  
Section 8: All  
Section 9: N/2, SW/4, and NE/4 SE/4

is hereby abolished.

(f) The Grayburg Jackson Seven Rivers-Queen-Grayburg-San Andres Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 16 SOUTH, RANGE 29 EAST, NMPM  
Section 31: S/2 S/2  
Section 33: S/2 and NE/4



Case No. 9069  
Order No. R-8391

TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM  
Section 1: NE/4

TOWNSHIP 17 SOUTH, RANGE 29 EAST, NMPM  
Section 3: SW/4 NW/4  
Sections 4 and 5: All  
Section 6: N/2 and SE/4  
Section 7: NE/4  
Section 8: All  
Section 9: N/2, SW/4, and NE/4 SE/4

(g) The East Carlsbad-Wolfcamp Gas Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 22 SOUTH, RANGE 27 EAST, NMPM  
Section 28: All

(h) The North Cemetery-Atoka Gas Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 19 SOUTH, RANGE 25 EAST, NMPM  
Section 15: W/2  
Section 22: W/2  
Section 27: W/2

(i) The North Dagger Draw-Upper Pennsylvanian Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 19 SOUTH, RANGE 25 EAST, NMPM  
Section 19: NE/4

(j) The Diablo-San Andres Pool in Chaves County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 10 SOUTH, RANGE 27 EAST, NMPM  
Section 27: SW/4 NW/4, E/2 NW/4, and  
SW/4

(k) The Empire-Atoka Gas Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM  
Section 26: All

(l) The Happy Valley-Morrow Gas Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 22 SOUTH, RANGE 26 EAST, NMPM  
Section 27: All

(m) The North Illinois Camp-Morrow Gas Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 18 SOUTH, RANGE 28 EAST, NMPM  
Section 7: N/2

(n) The Indian Basin-Morrow Gas Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM  
Section 32: All

(o) The Otis-Morrow Gas Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 22 SOUTH, RANGE 27 EAST, NMPM  
Section 24: W/2

(p) The East Ross Draw-Delaware Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 26 SOUTH, RANGE 30 EAST, NMPM  
Section 25: S/2  
Section 26: SE/4

(q) The Shugart Yates-Seven Rivers-Queen-Grayburg Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 18 SOUTH, RANGE 30 EAST, NMPM  
Section 26: NW/4

(r) The East Shugart-Delaware Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 18 SOUTH, RANGE 31 EAST, NMPM  
Section 13: SE/4  
Section 24: SE/4

Case No. 9069  
Order No. R-8391

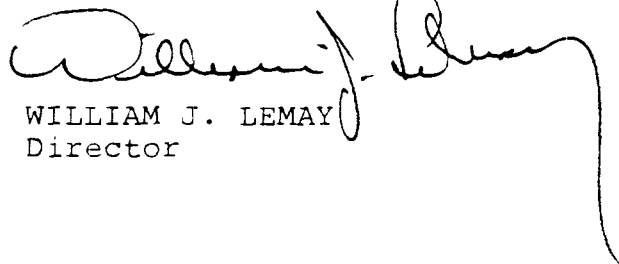
IT IS FURTHER ORDERED THAT:

(1) Pursuant to Section 70-2-18, NMSA 1978, contained in Chapter 271, Laws of 1969, any well which, by virtue of any of the above pool extensions, is subject to pool rules providing for spacing or proration units larger than the one which is presently dedicated thereto, shall have 60 days from the effective date of this order in which to file new Forms C-102 dedicating a standard unit for the pool to said well, or to obtain a non-standard unit approved by the Division. Pending such compliance, the well shall receive a maximum allowable in the same proportion to a standard allowable for the pool that the acreage dedicated to the well bears to a standard unit for the pool. Failure to file Form C-102 dedicating a standard unit to the well or to obtain a non-standard unit approved by the Division within said 60-day period shall subject the well to cancellation of allowable.

(2) The effective date of this order and all creations, abolishments, and extensions included herein shall be February 1, 1987.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION



WILLIAM J. LEMAY  
Director

S E A L

fd/