P-W

Nogales Oil & Gas Co.
SW/4-SW/4 Sec6-Twp21S-R18E 12-2
Santa Cruz County No Permit

32 x

County ~~Santa Cruz~~

Area Elgin

Lease No.

Well Name Nogales Oil & Gas Company

Location ne ne se ~~SW SW~~ Sec 6 Twp 21S Range 18E Footage from Report (A0-338) 3100 fsl 4700 fwl

Elev ____ Gr ____ KB ____ Spud Date ____ Completed Abandon 1921 Total Depth 1115

Contractor: ____ Approx. Cost $ ____

Drilled by Rotary ____ Cable Tool ✓

| Casing Size | Depth | Cement |
|---|---|---|
| | | |
| | | |
| | | |

Production Horizon ____

Initial Production D&A

REMARKS Log from A.B.M. files

API # 02-023-05002

Elec. Logs ____

Applic to Plug ____ Plugging Record ____ Completion Report ____

Sample Log ____

Sample Descrip. X

Sample Set ____

Cores ____

Water well - accepted by ____

Bond Co. & No. ____

Bond Am't $ ____ Cancelled ____ Date Organization Report ____

Filing Receipt ____ Dated ____ Well Book ____ Plat Book ____

Loc. Plat ____ Dedication ____

PERMIT NUMBER none Date Issued ____

12-2

32 × 1

12-2

NOGALES OIL AND GAS CO.
6-21S-18E
~~COCHISE~~ COUNTY
SANTA
CRUZ

Well on Babocomari land grant near Elgin.
Log data from ABM file.
Completed 1921

| | | |
|---|---|---|
| 0 | 60 | Red gravel |
| 60 | 102 | Red gravel *Pantano Fm Equivalent present below 102' |
| 102 | 146 | Limestone |
| 146 | 214 | Conglomerate |
| 214 | 336 | Conglomerate --very hard |
| 336 | 411 | Layers sandy shale and hard shell |
| 411 | 600 | Varying sand cgl with shale |
| 600 | 605 | Shale |
| 605 | 640 | Harder mixture of shale and sand |
| 640 | 645 | Sticky red clay |
| 645 | 680 | Red shale |
| 680 | 730 | Hard gray sandstone |
| 730 | 745 | Red shale |
| 745 | 790 | Gray sandstone |
| 790 | 820 | Red shale |
| 820 | 880 | Hard gray sandstone |
| 880 | 895 | Red shale |
| 895 | 910 | Sandstone and shale |
| 910 | 930 | Hard gray sandstone |
| 930 | 960 | Red clay and shale |
| 960 | 970 | Red shale |
| 970 | 1010 | Gray sandstone, some lime |
| 1010 | 1020 | Sandstone |
| 1020 | 1040 | Gray sandstone |
| 1040 | 1050 | Red shale |
| 1050 | 1100 | Hard gray sandstone |
| 1100 | 1115 | Shale, very muddy drilling |

* Cretaceous sediments of Bisbee Grp. may be present in lower part of section but cannot be distinguished.

*Information from
Daniel H. Vice, Sept. 14, 1972

ABM, Bull. #116, p. 39+40. G.M. Butler.
clipping dated 12-12-21 states well drilling at over 100' (located two miles north + two miles east of Sonoita).

ABM Bull. #130, p. 43+44 G.M. Butler et al.
Drilled to 1115' "and did not penetrate the valley fill."

Santa C. County COPY



Nogales Oil & Gas Co. (Exact location not available at this time). Well on Babocomari land grant near Elgin. Drilled to depth of 1,115 feet. Operations suspended.

SW1/4 6-21 S-18 E
drilled about 1921

Log of well
(Furnished by Bracey Curtis, Nogales, Arizona)

0 - 60 Red gravel
60-102 Red gravel
102-146 Limestone
146-214 Conglomerate
214-336 Conglomerate - very hard
336-411 Layers sandy shale and hard shell
411-600 Varying sand conglomerate with shale
600-605 Shale
605-640 Harder mixture of shale and sand
640-645 Sticky red clay
645-680 Red shale
680-730 Hard gray sandstone
730-745 Red shale
745-790 Gray sandstone
790-820 Red shale
820-880 Hard gray sandstone
880-895 Red shale
895-910 Sandstone and shale
910-930 Hard gray sandstone
930-960 Red clay and shale
960-970 Red shale
970-1,010 Gray sandstone - some lime
1,010-1,020 Sandstone
1,020-1,040 Gray sandstone
1,040-1,050 Red shale
1,050-1,100 Hard gray sandstone
1,100-1,115 Shale - very muddy drilling

* * * * * * *

*

see Phil —
Should this be in Santa Cruz County — Pan Bore Oil & Gas

No permit

32 ×

The Commanche series south of Greatersville has been greatly distrubed bothn by faulting and igneous intrusives. Several minor northwest trending drag folds, are evident in the section along the east border of the Cretaceous outcrop. They are not extensive and it is doubtful if the Mud Springs Structures can be their equivalent.

FOLDING IN GARDNER CANYON AND THE CAMELLO HILLS.

The Paleozic sediment s at Gardner Canyon form a southeast trending anticline which is thought to continue through the Camelle Hills for some distance. Its genesis was caused by the igneous intrusion of granite.

Faulting Cottonwood Springs Faults

Exposed in the creek bed in the west half of Section 26-19-18 are two faults which are important factors relating to the Mud Springs structures. Progressing south-west from the axis of the Mud Springs anticline, the steep, south-dipping upper Commanch red beds cease abriptly against steep, north-dipping beds of lower Commanche, greenish-bro siltstone and buff sandstones. Because the red beds are normal, the only explanation of th anomaly is by major faulting. The zone of the faulting could not be clearly identified, but disturbed beds and springs were evident.

A little over 400 feet of this point, the lower Commanche beds terminate against Redwall Limestone and a considerable thickness of the lower Commanche is cut out.

It is assumed that these faults are of the high angle type with considerable displacement which have worked synchronously to bring the wide spread exposure of Redwall limestone and the Mustang Mountains and Commanche Hills back into the exposed section.

A similar zone of faulting was observed in the first creek to the east in the south east corner of section 26-19-18-.

The supposed trace of the fault is covered, west from these points, by allivium, but it is believed to continue west, south of the Mud Springs structure.

Three minor north-trending faults cross the Mud Springs anticline and syncline in Section 21 and 28-19-18-, normal to the trend of structural offsetting their axis. They are normal faults.

OIL DEVELOPMENT

In 1921 (?) a concern named the ~~Rogaloe Oil and Gas Company~~ located a well, ~~4700 feet east and 2100 feet south of the northwest corner of Section 6-21-18-, on the Sabotomari Grant.~~ The well drilled to a depth of 1140 ffet, spudding in alluvian and probably entering the lacustrine Eocene. It was reported to have had showings of oil, but this is doubtfull.

File:
A 0-338

GEOLOGICAL REPORTS
ON
OIL AND GAS

POSSIBILITIES

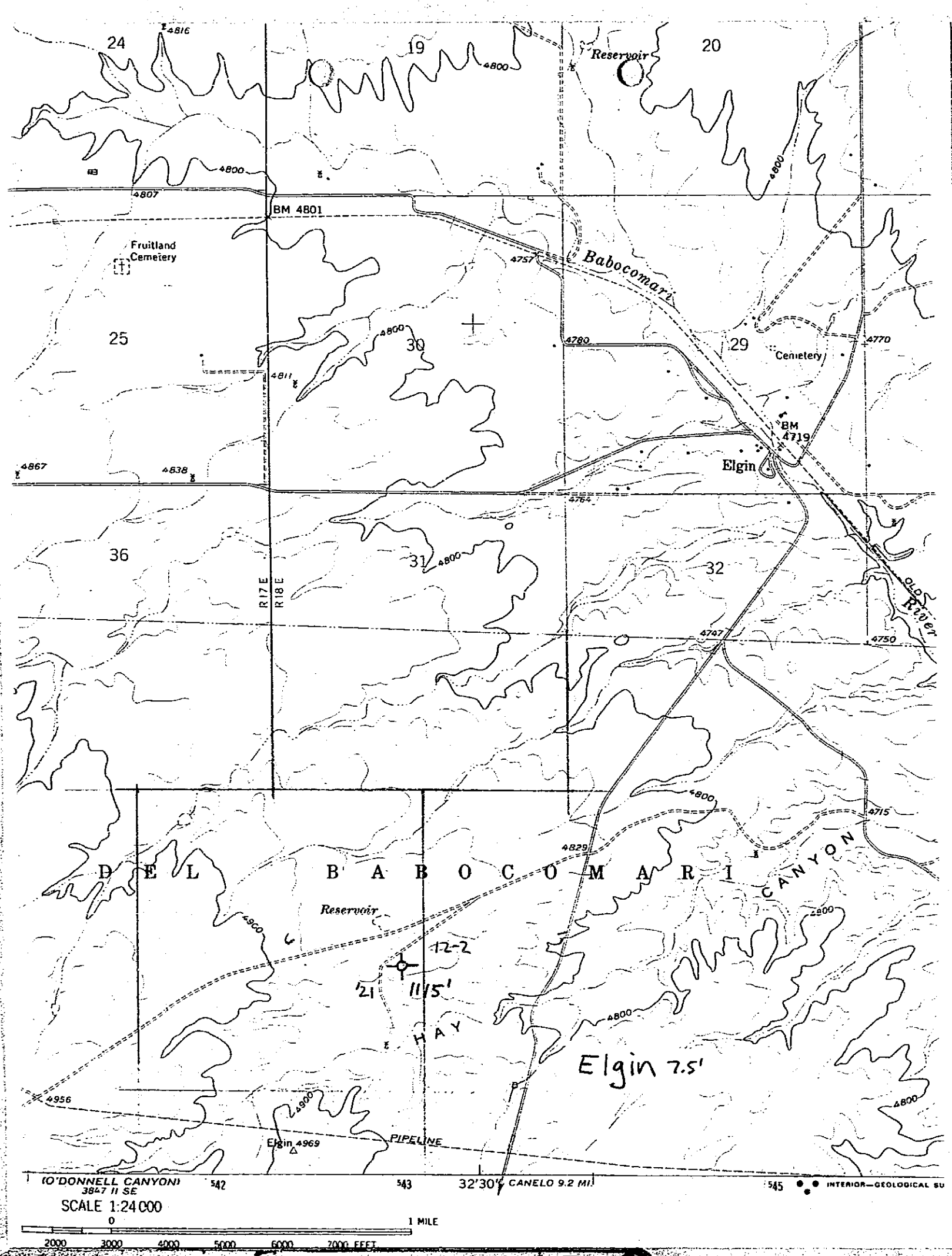
OF THE

CIENAGA, STRUCTURE (also known as Mud Springs or Kleene anticline)

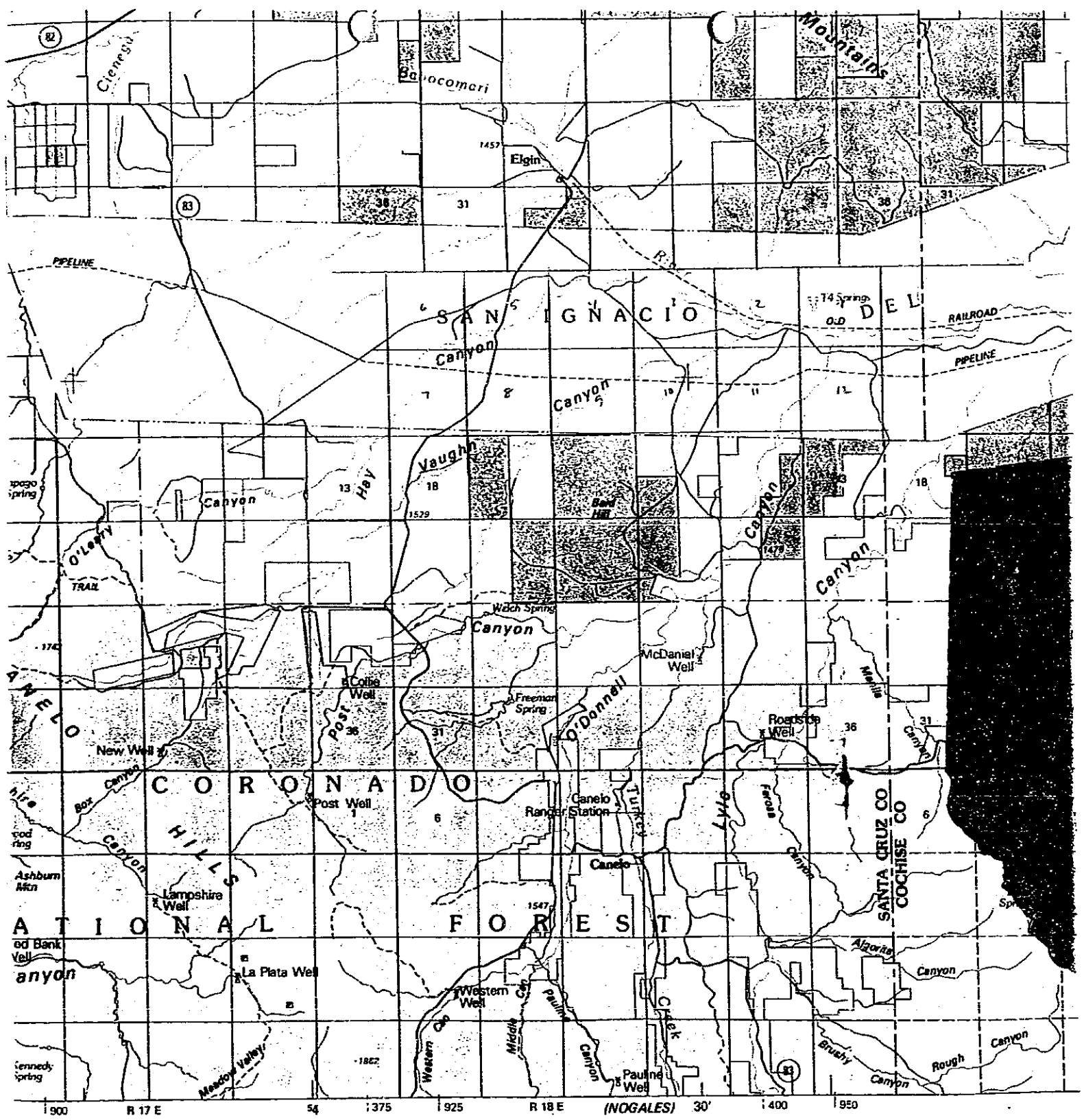
IN

PIMA COUNTY, ARIZONA.
(and Santa Cruz Co)

32 × 1


24
19
20
Reservoir
4816
4800
4807
BM 4801
Fruitland Cemetery
Babocomari
4757
25
30
29
4780
4770
Cemetery
4811
BM 4719
Elgin
4867
4838
4764
36
31
32
R17E
R18E
OLD River
4747
4750
4715
4829
DEL BABOCOMARI CANYON
Reservoir
4960
12-2
21
1115'
HAY
Elgin 7.5'
4956
4900
Elgin 4969
PIPELINE
(O'DONNELL CANYON)
3847 II SE
542
543
32°30'
CANELO 9.2 MI
545
INTERIOR—GEOLOGICAL SU
SCALE 1:24 000
0
1 MILE
2000
3000
4000
5000
6000
7000 FEET

32 ×




SCALE 1:100 000

KILOMETERS

MILES

FEET

ELEVATIONS SHOWN IN METERS

NATIONAL GEODETIC VERTICAL DATUM OF 1929

12½°
22 MILS

GNETIC NORTH
TER OF SHEET

State of Arizona
# Arizona Geological Survey
845 North Park Avenue, #100
Tucson, Arizona 85719
(602) 882-4795

Fife Symington
Governor

Larry D. Fellows
Director and State Geologist

July 3, 1995

file 12-2

Ms. Elizabeth Coffman
Dwight's EnergyData, Inc.
4350 Will Rogers Parkway, Suite 101
Oklahoma City, OK 73108

Dear Ms. Coffman:

I have enclosed the information in our well-file numbers 10-18, 10-19, 12-2, 13, 46, 347, and 548 in response to your recent letter. The information in these early well files is very meager, including only a cover sheet as in 10-18 and 10-19. The information in 13, 46, 347, and 548 is a little better, and was made from the best available data (such as onion-skin paper, etc.). As a result, give me a call if some of the information is difficult to read and I will try to help you from the original material.

Let me know if I may be of further assistance.

Sincerely,

Steve Rauzi

Steven L. Rauzi
Oil & Gas Program Administrator

Enclosures

32 ×