

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office

SANTA FE

Lease No.

078872-A

Unit NE/4 Sec. 28 is the
Designated Drlg. Unit

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	
NOTICE OF INTENTION TO PLUG BACK & TEST CRETACEOUS FRUITLAND SAND	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

BOLACK #1
C SW NE NE

JULY 1, 19 52

Well No. 1 is located 990 ft. from [N] line and 990 ft. from [E] line of sec. 28

NE/4 28
(1/4 Sec. and Sec. No.)

27N
(Twp.)

11W
(Range)

N.M.P.M.
(Meridian)

W. Kutz Canyon
(Field)

San Juan
(County or Subdivision)

New Mexico
(State or Territory)

The elevation of the derrick floor above sea level is 6323' Grd.
6329' K.B.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

(SEE ATTACHED SHEET)

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company THE FRONTIER REFINING COMPANY

Address 410 BOSTON BUILDING

DENVER, COLORADO

By

K. C. Forcade, Geologist

The Bolack #1 well, C-SWNE 28-27N-11W, was completed May 23, 1951 in the Pictured Cliffs at a total depth of 2026' CC for an initial gauge of 1,210 MCF of gas per day. The first production from this well was January 5, 1952 to the El Paso Natural Gas Company and up to the date of June 1, this well has produced a total 168 days and a total volume of 20,403 MCF, for an average of 121 MCF per day.

During the course of the drilling of this well, a blow-out occurred at approximately 1658' in the Fruitland sand, at which point the hole was unloaded of mud by the gas volume present in this sand. After the flow of gas was finally killed with heavy mud, rotary drilling continued to the Pictured Cliffs sand where it was completed. From the Schlumberger electric log of this hole, it would appear that the Fruitland sand occurs from 1643' to 1667' with an approximate thickness of 24 feet.

The British-American #2 Douthit, located in the C-SWNE of Section 27, T. 27 N., R. 11 W., approximately one-half mile east of our #1 Bolack well, is presently producing from the Fruitland sand in amounts anywhere from 12 to 20 million cubic feet per month. By plugging off the Pictured Cliff sand in the #1 Bolack well and perforating the casing opposite the Fruitland sand at depths of approximately 1650', it is felt that the pipeline take from this well might be increased some 5 to 10 times over and above the present take. It is felt that the Fruitland sand area is rather limited; probably in the neighborhood of approximately half a mile wide to 2 to 2½ miles long. However, the 750# BHP is abnormally high compared to the 460# BHP of the Pictured Cliff sand. Naturally, with this limited area, the sand lense will be depleted in relatively short time, and when that occurs we would hope to be able to squeeze off the Fruitland sand and re-open the Pictured Cliff sand and start producing from this zone again. Following is the procedure we submit for your approval to carry on this plug back work:

- (1) Set a drillable plug in 5½" casing at approximately 1800' with 100' of cement on top.
- (2) Perforate 5½" casing at 1650' with a limited number of holes. If well blows dry gas finish shooting remainder of Fruitland sand zone. If well shows water and slight gas after initial shots, these holes will be squeezed with sufficient cement in stages to assure a good behind the casing job. After squeeze the Fruitland sand will be shot in its entirety, 1" tubing run and well placed on production.



