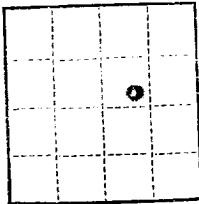


Form 9-331a
(Feb. 1951)



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Santa Fe
Lease No. SF 076847
Unit Chaco Unit #11-00-001-
2026

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	<input checked="" type="checkbox"/>
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	<input type="checkbox"/>
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	<input type="checkbox"/>
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	<input type="checkbox"/>
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	<input type="checkbox"/>
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	<input type="checkbox"/>
NOTICE OF INTENTION TO ABANDON WELL	<u>Perforating and Fracturing</u>	<input checked="" type="checkbox"/>

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

September 10, 1956

Well No. 3 is located 2012 ft. from N line and 2016 ft. from E line of

S4/NE Sec. 21
(1/4 Sec. and Sec. No.)

23N
(Twp.)

8E
(Range)

RSPM
(Meridian)

Alameda
(Field)

San Juan
(County or Subdivision)

New Mexico
(State or Territory)

The elevation of the derrick floor above sea level is 6810 ft. KB

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)

The Chaco Unit No. 3 was drilled to 4770' with a 7-7/8" bit, and cored from 4770' to 5000' with a 7-5/8" bit.

4991' - 5-1/2" 11# J-55 8 rnd. thd. casing was set at 5000' with 200 sacks of regular cement September 2, 1956. There was 1570' of fill-up. The shoe joint was not drilled out.

After 56 hours A.O.C. the casing was perforated from 4958'-4966' with 6 jet shots per foot and this zone was fractured with 260 barrels of crude oil, 14,000# of sand and flushed with 200 barrels of crude.

The formation broke down at 2600 psi with 200 gallons of mud acid ahead of the

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

Company Great Western Drilling Company

Address 211 1/2 West Main Street

Farmington, New Mexico

By [Signature]
Title Div. Prod. Eng.

frac job. The average treating pressure was 2850 psi. Injection rate 30.7 barrels/minute down the casing, shut-in pressure 1000 psi. (9-4-56)

After 10 hours the well was opened up (775 psi) and flowed back 213 barrels in six hours. A bridging plug was set at 4951' and the casing was perforated from 4922'-4930', with 6 jet shots per foot. This zone was treated with 250 barrels of oil, 14,000# of sand and flushed with 225 barrels of oil. The formation broke at 2800 psi and treated at 2200 psi with an injection rate of 39.2 barrels/minute. The shut-in pressure was 1000 psi. (9-5-56)

After seven hours the well was opened up (850 psi) and flowed back 359 barrels in 8 hours. A bridging plug was set at 4914' and the casing was perforated from 4879'-4889', 4894'-4901', and 4903'-4908' with 4 jet shots per foot. These zones were treated with 720 barrels of oil, 38,000# of sand and flushed with 241 barrels of oil. The formation treated at 2200-2300 psi with an injection rate of 44.7 barrels/minute on the treatment and 34.4 barrels/minute on flush. (9-6-56)

After six hours the well was opened up (875 psi) and flowed 548 barrels back in 9 hours. The bridging plugs were drilled out and the tubing run with the perforations from 4860-4863'.

The well is now waiting on a pumping unit. There are 910 barrels of load oil to be recovered.

After 10 hours the well was opened up (1000 psi) and flowed back 813 barrels in six hours. A bridging plug was set at 1000 psi and the casing was perforated from 1000-1050' with 5 jet shots per foot. This zone was treated with 250 barrels of oil, 10% of water and finished with 25 barrels of oil. The formation broke at 2800 psi and treated at 2800 psi with an injection rate of 32.3 barrels/minute. The shut-in pressure was 1000 psi. (9-2-56)

After seven hours the well was opened up (1000 psi) and flowed back 352 barrels in 8 hours. A bridging plug was set at 1000 psi and the casing was perforated from 1000-1050', 1050-1100', and 1100-1150' with 5 jet shots per foot. These zones were treated with 100 barrels of oil, 10% of water and finished with 100 barrels of oil. The formation treated at 2800-3200 psi with an injection rate of 11.7 barrels/minute on the treatment and 10.4 barrels/minute on finish. (9-2-56)

After six hours the well was opened up (1000 psi) and flowed back 516 barrels in 9 hours. The bridging plugs were drilled out and the tubing run with the casing. The well is now waiting on a pressure build-up test to be recovered.

The well is now waiting on a pressure build-up test to be recovered.