

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R250.4.
Approval expires 12-31-60.

Indian Agency Hicarilla Apache

Tribe of Indians

Allottee Sec. 18, T-26N, R-4W
N.M.P.M. Rio Arriba, Cty.
Lease No. New Mexico
Contract #103

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 REDRILL 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	<u>Supplemental Report of Completion</u>	<u>XX</u>

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

November 5, 1962

Well No. 5-N is located 1650 ft. from N line and 1190 ft. from E line of sec. 18

SE 1/4, NE 1/4 Sec. 18 26-N 4-W N.M.P.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Tapasite - Pictured Cliffs Rio Arriba New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6718 ft. G.L.

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)

1. Drilled to T.D. of 7915.
2. Ran 137 jts. 5 1/2" O.D., 15.50#, J-55 as a liner. Bottom liner at 7905' R.K.B. Top of liner at 3503' R.K.B. Cemented w/100 cu. ft. 20% Diacel "D", 250 cu. ft. 10% Diacel "D", and 100 cu. ft. latex. Plug down at 11:15 A.M. 8-25-62.
3. Ran temperature survey at 8:00 p.m. 8-25-62. Top cement at 5150' R.K.B.
4. Set Packer at 3866'. Squeeze top of liner w/75 sks cement 2 1/2 cu. cts. Job complete 2:00 a.m. 10-30-62. Max squeeze pressure 3000 psi.
5. Clean out to top of liner @ 3503' R.K.B. Pressure up on casing to 1500 psi. pressure held.
6. Clean out to P.B.T.D. of 7800'. Pressure up on casing to 3000 psi. for 30 min. Pressure held, 5:00 p.m., 9-1-62.
7. Perf. 2 shots/ft. 7740-7757', 7702-7732.
8. Sand-Water free w/25,000#, 20-40 sand and 28,560 gallons water.

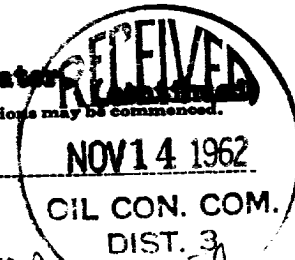
I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company SOUTHERN UNION PRODUCTION COMPANY

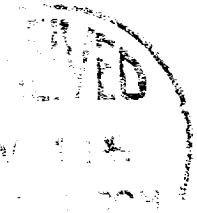
Address P. O. Box 808

Farmington, New Mexico

By L. S. Mennink
Title Area Superintendent



9. Set Bridge Plug at 7690'.
10. Perf. 2 shots/ft. 7572-7580, 7586-7595, 7606-762h, 764h-766h, 7656-7658½,
Sand-water frac with 75,000# 20-40 sand and 53,298 gallons water.
11. Drill Bridge Plug @ 7690'. Clean out to P.B.T.D. 7800'. Dakota Dry.
12. 9-7-62. Set Baker Model B cement retainer at 7375'. Cemented Dakota perfs.
w/75 sks. Reg. cement. Max. pressure 2800 psi. Dropped shut off plug in retainer.
Job complete 8:45 p.m. 9-7-62. Pressure test casing to 3000 psi for 10 minutes.
Pressure held O.K.
13. Perf 1 shot/ft. 7086-7090 and 7183-7186 w/Torpedo jet. Sand-water frac w/40,000#
20-40 sand and 45,360 gallons 15 Hcl. acid water. Test well. Toxic non-commercial.
14. Set Baker Model B Bridge plug at 6900'. Cement w/75 sks reg. cement. Max pressure
2500 psi. Job complete 11:00 P.M. 9-9-62.
15. Perf. 4980-4981 for Squeeze of Cliff House. Set Baker full bore packer at 4690'.
Squeeze w/75 sks reg. cement. Max sq. pressure 3000#. Job complete 8:00 P.M.
9-10-62.
16. Perf. Point Lookout. 5547-5563'. Frac w/50,000# sand and 37,500 gallons water.
Set Bridge plug at 5250'. Perfs 5018-23, 5048-56, 5075-91, 5108-16, 5139-54,
Frac w/57,000# sand and 38,640 gallons water. Frac completed 12:00 P.M. 9-11-62.
17. Drill out Bridge Plug at 5250 ft. Clean out to 5700 ft. Test well.
18. Set Baker Model "D" Packer at 4860'. Temp. Ab. Mesaverde. Perf. 2 shots/ft.
3378-3400. Sand-water frac w/50,000# 20-40 sand and 51,680 gallons water. Test
well.
19. Set Baker full bore packer at 3235'. Squeeze with 200 sks. neat cement. Squeezed
off at 3000 psi. Drilled out cement.
20. Pressured up to 1500 psi, pump in at 1900 psi. Set Mag. Retainer at 3298'.
Cement w/50 sks pozzix. Max. pressure 1800 psi. Job complete at 5:00 A.M.
9-19-62. Re-squeeze with 75 sks. pozzix, with retainer set at 3298'. Max pressure
3800 psi.
21. Drilled out squeeze, pressured up to 3500 psi. Pressure held O.K.
22. Perf. 2 shots/ft. 3380-3400'. Sand-water frac w/40,000# sand and 44,000 gallons
water. Complete job 3:00 P.M., 9-21-62.
23. Ran 107 jts. 1½" RUE, 2.90# tubing. Landed at 3365 RKB. Swabbed well in and let
well blow to clean up. Well complete as Pictured Cliffs Prod. 9-28-62.
Shut well in.



1. The first part of the report deals with the general situation of the country and the progress of the work of the Commission. It is a summary of the work done during the year and is intended to give a general impression of the work of the Commission.

2. The second part of the report deals with the work of the Commission in the various fields of its activity. It is a detailed account of the work done in each of the fields and is intended to give a detailed impression of the work of the Commission.

3. The third part of the report deals with the financial situation of the Commission. It is a summary of the financial work done during the year and is intended to give a general impression of the financial situation of the Commission.

4. The fourth part of the report deals with the administrative work of the Commission. It is a summary of the administrative work done during the year and is intended to give a general impression of the administrative situation of the Commission.

5. The fifth part of the report deals with the work of the Commission in the various fields of its activity. It is a detailed account of the work done in each of the fields and is intended to give a detailed impression of the work of the Commission.

6. The sixth part of the report deals with the financial situation of the Commission. It is a summary of the financial work done during the year and is intended to give a general impression of the financial situation of the Commission.

7. The seventh part of the report deals with the administrative work of the Commission. It is a summary of the administrative work done during the year and is intended to give a general impression of the administrative situation of the Commission.

8. The eighth part of the report deals with the work of the Commission in the various fields of its activity. It is a detailed account of the work done in each of the fields and is intended to give a detailed impression of the work of the Commission.

9. The ninth part of the report deals with the financial situation of the Commission. It is a summary of the financial work done during the year and is intended to give a general impression of the financial situation of the Commission.

10. The tenth part of the report deals with the administrative work of the Commission. It is a summary of the administrative work done during the year and is intended to give a general impression of the administrative situation of the Commission.