

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM-8007

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Union Oil Company of California		8. FARM OR LEASE NAME Federal
3. ADDRESS OF OPERATOR P. O. Box 2620 - Casper, WY 82602		9. WELL NO. 1 (M17)
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1100' FSL & 1185' FWL		10. FIELD AND POOL, OR WILDCAT Basin Dakota
14. PERMIT NO.		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 17, T.25N., R.10W.
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6493' G.L.		12. COUNTY OR PARISH San Juan
		13. STATE New Mexico

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other) Supplementary Well History

(Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

6225' T.D.

Moved out rotary. MIRU service unit. Tripped in with bit and D.C. on 2-3/8" tubing. Tested casing to 750#, O.K. Checked ETD at 6156'. Circulated hole with 140 bbls. 5% KCl water and tested casing to 3000#/30 mins., O.K. Spotted 250 gallons of 15% HCl acid from 6146-5896'. POOH with tubing and bit. Ran PDC log, 6163'-5875'. Perfed Graneros "C", 6142-6146', with 2 spf. No change in F.L. Ran packer on 2-3/8" tubing and set packer at 5872'. Seating Nipple at 5871'.

Swabbed 16-1/2 bbls. load water/2-1/2 hours. F.L. 100-5400' with very slight gas show on last two swab runs. Pressured tubing-casing annulus to 500#. Treated perfs, 6142-6146' with 250 gallons 15% acid. Loaded tubing with 15-1/2 bbls. KCl water. Pressured perfs with formation feeding at 2-1/2 bpm at 2400#, 2 bpm at 1900#, then 3 bpm at 2400-2200#. ISDP 1200#. (15) 200#. Total load 40-1/2 bbls. Swabbed 35 bbls. load water/3-1/4 hours. S.D.O.N.

SITP (20 Hrs) 450#. Bled to zero/1 minute.

Swabbed 5 bbls. load water plus 28 bbls. new fluid/6 hours, cut 5% oil and 2% COM zero solids with trace of gas. F.L. 1500-5000'. Released packer and ran packer to 6142', O.K. P.O.O.H. Ran and set cement retainer on wireline at 6130'.

(CONTINUED ON ATTACHED SHEET)

18. I hereby certify that the foregoing is true and correct

SIGNED

R. G. Ladd, Jr.

TITLE District Drilling Supt.

DATE 4-22-77

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

APR 25 1977

*See Instructions on Reverse Side

U.S. Geological Survey
Sundry Notices
Form 9-331

4-22-77

Union Oil Company of California
Federal Well No. 1-M17
Page 2

Tripped in with 2-3/8" tubing and stinger and stung into retainer at 6130'. Loaded annulus with 5% KCl water and pressured to 2000#. Squeezed perfs, 6142-6146' with 150 sacks class "B" cement to maximum squeeze pressure of 2700# with 122 sacks cement below retainer. Released pressure with no flow back. Pulled tubing to 6110' and spotted 250 gallons 15% HCl acid from 6110' to 5860'. POOH with tubing. Perfed Jicarilla, 6058' and 6061'; Graneros "A" & "B", 6088-6095 & 6098-6110', with 2 spf. No change in F.L. Ran 2-3/8" tubing and set packer at 7591'. S.N. at 5790'. S.D.O.N.

Swabbed 20 bbls. load water/3 hours with no gas. F.L. surface to 5790'. Loaded annulus with 5% KCl water and pressured casing to 1500#. Treated perfs 6058', 6061', 6088-6095', 6098-6110' with 250 gallons of acid that was spotted at 1 bpm at 2100-2300# followed by 24 bbls. 5% KCl water with 3 ball sealers/bbl. at 5 to 4 bpm at 2750-4800# with good ball action and nine 100# breaks. Did not ball out. ISDP 1750#. (20) 450#. Total load 79 bbls. acid and water. Swabbed 40 bbls. load water/3 hours with trace of oil and slight gas cut. F.L. surface to 5300'. S.D.O.N.

SITP (13-1/2 hours) zero. Swabbed 43 bbls. water/10-1/2 hours with rainbow of oil and slight gas cut. F.L. surface to 5600'. Have recovered 79 bbls. of 79 bbls. water load plus 4 bbls. new water.

Loaded tubing and pumped to perfs at 1/2 bpm at 1100#. Ran R.A. tracer survey from 6128' to 5900'. Tracer survey indicated fluid exit out perfs 6098-6110', with some out perfs 6058', 6061' and 6088-6095'. No fluid going above or below perfs. Total load 71 bbls. water. Swabbed 35 bbls. water slightly gas cut/2 hours. F.L. surface to 5500'.

Swabbed 28 bbls. load water/5-1/2 hours slightly gas cut & rainbow oil. F.L. 500-5300'. Recovered 63 bbls. of 71 bbl. water load. Released packer and P.O.O.H. RIH with tubing and packer.

Ran and landed 2-3/8" tubing at 5959.28' with packer at 5952'. S.N. @ 5951'. Sand fraced perfs, 6058', 6061', 6088-6095', 6098-6110', with 40,000 gallons Halliburton Versagel mixed with 3% KCl water and 80,000# of sand down tubing at 8 bpm at 2800-4000#. ISDP 2100#. (15) 1700#. (50) 1600#. Total water load 988 bbls. S.I.O.N.

18 Hr. SITP 525 psi. Bled to zero in one minute. Flowed 111 bbls. load water in 10-3/4 hours. FTP 300# to 50#. Slight gas show. Recovered 111 of 988 bbls. load.

Flowed 6 bbls. load water/13-1/4 hours on 8/64" choke. FTP 160#. Swabbed 247 bbls. load water/9-1/4 hours.

Swabbed 215 bbls. load water, cut 2-5% oil with weak gas show/9-1/2 hours.

U.S. Geological Survey
Sundry Notices
Form 9-331

4-22-77
Union Oil Company of California
Federal Well No. 1-M17
Page 3

Swabbed 138 bbls. load water/6-1/2 hours. F.L. from 1000' and scattered to S.N. at 5951'. Swabbed at average rate of 20 bbls/hour last 4 hours. Well kicked off flowing water and gas. Flowed 63 bbls. water cut 4-5% oil with some gas/3 hours on 1" choke. FTP 50#. Shut in 1/2 hour. SITP 375#. Shut down 24 hours.

Left well open to tank 37 hours with no fluid or gas to surface last 24 hrs. Swabbed 166 bbls. load water plus 39 bbls. slightly gas cut formation water, cut 5% oil and 1% B.S. for 10 hours. F.L. 400-2500' and steady last 5 hours. Swabbed at 18 bbls/hour rate last 5 hours. Recovered 988 bbls. water load plus 39 bbls. new water.

Left well open 14 hours on 10/64" choke with no fluid or gas to surface. Swabbed 130 bbls. formation water, cut 5% oil with slight increase in gas in 7-1/2 hours. F.L. 1500' and scattered to S.N. at 5951'. Swabbed at 17 bbl./hour rate last 5 hours. Well kicked off flowing water and gas. Flowed 23 bbls. formation water, cut 5% oil and gas/1 1/4 hour on 1" choke. FTP 25#. Left well open on 8/64" choke. Found well shut-in in morning. Had flowed 5 bbls. water. SITP 80#. Bled to zero immediately. F.L. at 2500'.

Loaded tubing with 10 bbls. KCl water and released packer. Installed BOP. Ran tubing to 6130' ETD. Washed out one sand bridge, 6110-6111'. Reverse circulated hole with 100 bbls. KCl water. Pulled up and set packer at 5890'. Pressured tubing-casing annulus to 800#, O.K. Schlumberger ran pump in R.A. Tracer Survey while pumping 68 bbls. KCl water at 1/2 to 1 bpm at 500-600#. Log indicated no fluid exit at 6058', 6061'; very slight exit at 6088-95'; major fluid exit at 6100-6110'; with no fluid going up above perfs. Fluid did not appear to be going down below perfs. S.D.O.N.

Released packer. Landed 2-3/8" tubing at 5897.13' with packer at 5890', with 15,000# wt. on packer. Set S.N. at 5889'. Nippled down BOP. Installed Xmas tree. Released rig at 2:00 p.m., 4-21-77.

Shut in pending engineering evaluation.