

6 - USGS

1 - McHugh

1 - File

Form Approved.  
Budget Bureau No. 42-R1424

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other

2. NAME OF OPERATOR

J. P. MC HUGH

3. ADDRESS OF OPERATOR

P.O. Box 208 Farmington, NM 87401

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 1710' FNL - 1120' FEL

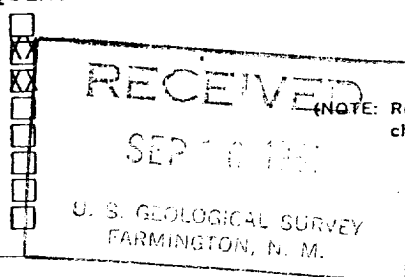
AT TOP PROD. INTERVAL: N/A

AT TOTAL DEPTH: N/A

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:  
TEST WATER SHUT-OFF ☐  
FRACTURE TREAT ☐  
SHOOT OR ACIDIZE ☐  
REPAIR WELL ☐  
PULL OR ALTER CASING ☐  
MULTIPLE COMPLETE ☐  
CHANGE ZONES ☐  
ABANDON\* ☐  
(other) ☐

SUBSEQUENT REPORT OF:



5. LEASE Contract #98  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache  
7. UNIT AGREEMENT NAME  
8. FARM OR LEASE NAME Apache  
9. WELL NO. #3E  
10. FIELD OR WILDCAT NAME Basin Dakota, WH Gallup  
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 19 T26N R3W  
12. COUNTY OR PARISH Rio Arriba  
13. STATE NM  
14. API NO.  
15. ELEVATIONS (SHOW DF, KDB, AND WD) 7013' GR

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.)\*

See attached reports for perfs 9-11 & 9-12  
acid/frac 9-11 & 9-12  
tubing 9-14-81

Received permission to downhole commingle Basin Dakota & Wildhorse Gallup zones 7-1-81, Order No. R-6721.



Subsurface Safety Valve: Manu. and Type

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

SIGNED Thomas A. Dugan TITLE Petroleum Engineer DATE 9-15-81

(This space for Federal or State office use)

APPROVED BY  
CONDITIONS OF APPROVAL, IF ANY:

TITLE DATE

\*See Instructions on Reverse Side

NMOCC

BY

JEROME P. McHUGH  
Apache #3E  
Page #5

5-13-81 Closed stage tool w/ 2000 psi. Held OK. P.O.B. at 12:00  
(cont.) midnight. Opened stage tool at 3816'. Circ. 2 hrs w/ rig pump.  
Cemented 3rd stage w/ 10 bbls mud flush followed by 400 sx 65-35  
plus 12% gel # 1# flocele per sk followed by 50 sx class "B"  
w/ 1# flocele per sk. (Total cement slurry 1107 cu.ft.)  
Good mud returns throughout job. Maximum cementing pressure  
900 psi. Closed stage tool w/ 2500 psi. Held OK. Estimated  
cement top 600'. Job complete at 3:00 a.m. 5-13-81. Set 4 1/2"  
csg. slips. Cut off csg. and released rig at 5:00 a.m. 5-13-81.

#### DAILY REPORT

9-8-81 Move in and rig up MTK double pulling unit. N.D. well head.  
Nipple up B.O.P. Start in hole w/ 3-7/8" mill and tbg.  
Shut down because of bad weather.

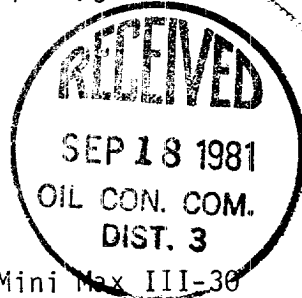
9-9-81 Finish picking up tbg. Tag top D.V. tool at 3843'. Wait 2 hrs  
on water truck. Drlg. cement and D.V. tool. Go in hole t/ tbg.  
and tag up at 6074'

9-10-81 Drlg. cement and D.V. tool at 6074'. Go in hole w/ tbg. Clean  
out to 8100' RKB. Press. test to 3800 psi. OK Spot 250 gal  
7 1/2% HCL across Dakota. P.O.H.

9-11-81 Finish P.O.H. Ran GR-CCL from PBTD 8093' to 7238'.  
Perforate Dakota 7882-90, 8014-18, 8025-27, 8054-74', total 20  
holes. Attempt breakdown formation. Wouldn't break down.  
Pump 4500 psi at 43 BPM. Pumped 250 gals 15% HCL and dropped 35  
ball sealers. Displaced w/ 3500 psi at 28 BPM. Reached Maximum  
pressure of 4500 psi. Ran 4 1/2" junk basket. Retrieved 31 ball  
sealers (19 hits). Fraced Dakota as follows:  
15,000 gal Mini Max III-30 w/ 20% Condensate - pad  
20,000 gal Mini Max III-30 w/ 20% Condensate w/ 1#/gal 20-40 sand  
20,000 gal Mini Max III-30 w/ 20% Condensate w/ 1 1/2#/gal 20-40 sand  
15,000 gal Mini Max III-30 w/ 20% Condensate w/ 2#/gal 20-40 sand  
10,000 gal Mini Max III-30 w/ 20% Condensate w/ 2#/gal 10-20 sand  
5,334 gal flush

ISDP 1900 psi  
15 min - 1800 psi  
Max. treating press 3400 psi  
Min. treating press 3000 psi  
Ave. treating press 3300 psi at 28 BPM

Totals: 80,000# 20-40 sand 85,334 gals Mini Max III-30  
20,000# 10-20 sand 112 gals Aquaflo  
1500 gals condensate 112 gals Fracide  
60# breaker



Continued

JEROME P. McHUGH  
Apache #3E  
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9-11-81 Left well shut in 4 hrs. Gel had not broken near surface. Couldn't  
(Cont.) go down hole w/ perforating gun. Shut down for rest of night.

9-12-81 Went in hole w/ perforating gun. Perforated Gallup 7418-30, 1 SPF  
total 12 holes. Rig down Jetronics. Spot 250 gal. 15% HCL across  
perfs. Wait 30 min. Fraced well as follows:

6,000 gal Mini Max III-30 w/ 20% Condensate - pad  
12,000 gal Mini Max III-30 w/ 20% Condensate w/ 1#/gal 20-40 sand  
16,000 gal Mini Max III-30 w/ 20% Condensate w/ 2#/gal 20-40 sand  
6,000 gal Mini Max III-30 w/ 20% Condensate w/ 2½#/gal 20-40 sand  
4,956 gal Mini Max-III-30 - flush

ISDP 1000 psi  
15 min 750 psi  
Max treating press 3000 psi  
Min treating press 2500 psi  
Ave treating press 2600 psi at 41 BPM

Totals: 40,000 gals MiniMax III-30  
59,000# 20-40 sand  
40 gal Aquaflo  
40 gal Fracide  
15,000 gal condensate  
55# breaker

Shut well in over weekend.

9-14-81 Opened well up. Unloaded small amount of fluid. Went to hole w/  
tbq. Tag sand at 8-84'. Landed tubing as follows:

251 jts. 1½ OD, 2.9#, V-55, 10 Rd, EUE tbq.  
T.E. 8057.72 set at 8065' RKB.

Nippled down BOP. Nippled up well head. Pump out tbq. plug.  
Rig down MTK. Prepare to move to Apache #5E.