

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.
5. LEASE DESIGNATION AND SERIAL NO.
L.M. Phillips No. 1
SF 078063
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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 ☐ GAS ☐
WELL WELL OTHER **Water Injector**

2. NAME OF OPERATOR

Shell Oil Company

3. ADDRESS OF OPERATOR

1700 Broadway, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

1980' FNL & 1980' FWL Sec. 19

T25N, R11W, San Juan County, New Mexico

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

6448.9 KB

7. UNIT AGREEMENT NAME

Carson Unit

8. FARM OR LEASE NAME

9. WELL NO.
22-19

10. FIELD AND POOL, OR WILDCAT

Bisti

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Sec. 19, T25N, R11W

12. COUNTY OR PARISH

13. STATE

San Juan

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 ☐

FRACTURE TREAT ☐

MULTIPLE COMPLETE ☐

SHOOT OR ACIDIZE ☐

ABANDON* ☐

REPAIR WELL ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

REPAIRING WELL ☐

FRACTURE TREATMENT ☐

ALTERING CASING ☐

SHOOTING OR ACIDIZING ☐

ABANDONMENT* ☐

(Other) ☐

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

(Other) **Plug Back & Recomplete in Pictured Cliffs**

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.) *

Recompletion Operations Conducted as per attached Prognosis

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

SIGNED

TITLE **Division Operations Engineer** DATE **10/14/75**

(This space for Federal or State office use)

APPROVED BY

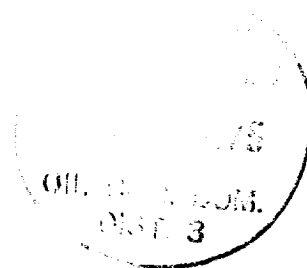
TITLE

DATE

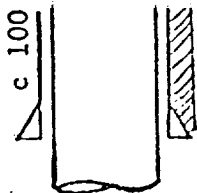
CONDITIONS OF APPROVAL, IF ANY:

cc: Oil and Gas Conservation Commission-New Mexico

*See Instructions on Reverse Side



8# 8-5/8#
J-55 108'



ALBUQUERQUE PRODUCTION
CARSON UNIT 22-19
1980' FNL & 1980' FWL
SECTION 19, T25N, R11W, NMPM
BISTI FIELD
SAN JUAN CO., NEW MEXICO

Existing Perfs

Proposed perfs:

PERTINENT DATA:

ELEV: 6448.9' KB
KB-GL: 9.1'
TD: 5030'
PBTD: 5027'

Pictured Cliffs

Completion date: 4/3/60

1218' - 1224'

1234' - 1244'

AFE (P&A Gallup):
EST. Cost (P&A Gallup): \$12,500
AFE (Recompl. in Pictured Cliffs):
Shell's Share: 100%

← CIGR @ 1305'
for cmt'g.

← W.S.O. holes
@ 1335'

Note: All depths refer to SP log dated 3/19/60.

CURRENT STATUS:

T.A.'d

PROPOSED WORK:

P&A the Gallup prod. interval. Perforate, frac. treat and test the Pictured Cliffs gas interval for productivity

← CIGR @ 4790'
for Gallup
sqz.

PROCEDURE:

1. Move in WOR.
2. Install and test BOP and Safety equipment.
3. Run casing scraper on tubing to \pm 4800'.
4. Run CIGR on tubing. Set CIGR at 4790'. Pressure test casing to 1250 psi.
5. Pump 100 sx. reg. cement with 4% gel below retainer to squeeze Gallup perfs.
6. Unsting from retainer and pull tubing.
7. Run GR-Neutron PDC log from 1,500' to surface.
8. Run squeeze gun and perforate 4 opposed W.S.O. holes at 1335'.
9. Run CIGR on tubing and set at 1305' \pm .

4868'
4888'
4898'
4905'
4934'
4942'
4952'
4962'
4968'
4980'

9.5# 4-1/2"
J-55 5027'

TD: 5030

10. Attempt circulation to surface with mud containing 2% KCL and 12#/1000 gal. CaCl.
11. Follow mud with 140 sx. reg. Class "A" cement containing 20% Diacel D followed by 70 sx. reg. Class "A" cement containing 4% gel. and Flocele. Cement at minimum pumping pressure required. Displace cement to tubing tail and unsting from retainer. Circulate hole with clean water containing 2% KCL and 12#/1000 gal. CaCl. W.O.C. 7 days.
12. Run a CBL from \pm 1305' to 8-5/8" casing shoe at 108' at 0 psi. Rerun at 1,000 psi if bonding across proposed recompletion intervals (1218-1224' and 1234-1244') is doubtful.
13. Run a casing carrier gun charged with 19 gram Densi jets or DML jets and perforate the Pictured Cliffs intervals 1,218' to 1,224' and 1,234' to 1,244' with 4 jets/ft.
14. Run tubing to 1200' and swab test well until gas flow is established (if any). Obtain natural flow test if possible not to exceed 3 hours.
15. Leave tubing at 1200'.
16. Rig up Dowell (et al) and Foam-Frac^R treat the Pictured Cliffs down the tubing and the casing simultaneously as follows:
 - 1.) Pump 2,000 gal. of foam pad.
 - 2.) Pump 2,000 gal. of foam with .6 PPG 20-40 sd.
 - 3.) Pump 2,000 gal. of foam with 1.2 PPG 20-40 sd.
 - 4.) Pump 25,000 gal. of foam with 1.5 PPG 20-40 sd.
 - 5.) Pump 1,000 gal. of foam with .6 PPG 10-20 sd.
 - 6.) Pump 1,000 gal. of foam with 1.2 PPG 10-20 sd.
 - 7.) Pump 10,000 gal. of foam with 1.5 PPG 10-20 sd.
 - 8.) Flush to perfs.

Note: Foam should be 70 quality (70% N₂, 30% water) at BHFP conditions. Foam should contain surfactant (F52B), and water should contain 2% KCL and 12#/1000 gal. CaCl.

Total calc. water for frac. treatment is 313 bbls. (have two 200 bbl. tanks on location for storage).

Total frac. treatment is 43,000 gal. with 41,000 # 20-40 sd. and 16,800# 10-20 sd.

Est. pumping rate: 18 BPM.

Est. wellhead treating pressure: 1,400 psi.

17. Swab and/or flow test to clean up to pit and establish flowing rate and FP at various choke sizes. Obtain gas sample for analysis.
18. After well cleans up and if fluid buildup occurs, run pressure bomb and obtain 24 hours SI bottom hole pressure (est. to be \pm 200 psi) buildup.
19. Shut-in well and obtain SIP at various times after well is tested.

Note: Send or contact J. R. Brew at the Houston Office (Ph. 713-220-1763) concerning test results and procedure changes which may be required during testing.

Contact C. O. Collins at the Houston Office (Ph. 713-220-1309) for changes which may be required in the Recompletion procedure.

Frac. treatment arrangements have been arranged with Dowell (Farmington, N. M.), Newsco and Minerals Management Inc. (Ph. 303-571-1111 in Denver ... Mr. Bill Abbott, Mr. Roland Blaurer or Mr. Hershell Vaughn). Notify Dowell (Farmington) and Minerals Management Inc. (Denver) one week in advance of recompletion as to date, timing, etc. An Engineer from Minerals Management Inc. will go on job location.

The approval of the District Engineer, State of New Mexico is required prior to plugging back, recompleting, etc. Approval from the State is also required to test to pit and flare prod. gas.

COC:maf

Div. O. E. _____

Approved: _____
Production Superintendent