

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

5. LEASE DESIGNATION AND SERIAL NO.

NM-0557686
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 <input checked="" type="checkbox"/> GAS <input type="checkbox"/> WELL <input type="checkbox"/> WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	2. NAME OF OPERATOR CONTINENTAL oil Company	7. UNIT AGREEMENT NAME SEMU
3. ADDRESS OF OPERATOR Box 460, Hobbs, NM 88240	8. FARM OR LEASE NAME SEMU Penn	9. WELL NO. 3
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1980' FSL & 1980' FWL OF Sec. 23	10. FIELD AND POOL, OR WILDCAT Cass Penn	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 23, T-20S, R. 37E
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3532' DF	12. COUNTY OR PARISH Lea
		13. STATE NM

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 ☐(Other) ☐

Plug & Abandon

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.)

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.)

IT IS Proposed to Plug and Abandon The Subject Well
Due to Mechanical Condition. See Attached Well
History and Recommendation.

Plugging Procedure as Follows:

- (1) Run Tbg open ended to 7680' and Pump 275 SX Class "C" CMT. Pull Tbg and WOC over night. TOP OF Plug AT 4550' Est.
- (2) Run Free Point, cut and Pull 7" OD CSG 2200' Est.
- (3) Run Tbg open ended to 100' Below cut OFF 7" CSG and SPOT 50 SX Class "C" CMT with 2% CaCl₂ From TOP OF Plug to 100' into 9 7/8" CSG. Pull Tbg and WOC.
- (4) Port 9 7/8" CSG AT 1000' with 4 Jet Shots.
- (5) Run Tbg with Pkr set AT 850' and Squeeze w/200 SX Class "C". Displace CMT to ± 925'.
- (6) SPOT 30 SX CMT Plug From 390'-300' inside 9 7/8" CSG.
- (7) SPOT 10 SX Surface Plug and Restore the Surface.

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

SIGNED

Wm. A. Butterfield

TITLE

ADMIN. SUPERVISOR

DATE

1-28-77

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED
AS AMENDED

MAR 2 1977

BERNARD MOROZ
ACTING DISTRICT ENGINEER

*See Instructions on Reverse Side

USGS.(5), NMFU(4), File

Well History and Recommendation

Plug and Abandon SEMU Penn No. 3

The mechanical condition of the SEMU No. 3 precludes the possibility of continuing production from the Cass Penn Pool or shallower producing formations. A casing failure, caused by corrosion and rod wear, was repaired in 1966 by cutting off the oil string just above the top of the cement and running a tapered string of 7", 5 1/2" and 4 1/2" casing. The well was then produced until October 1972 when production had declined to four barrels oil, 184 barrels water pumping from 4500'. It is planned to replace the well by drilling the SEMU No. 97 at a location 282 feet southwest of the SEMU No. 3. It is therefore recommended that the SEMU No. 3 be plugged and abandoned. The following information is in support of the recommendation.

1. Initial completion

Date: May 10, 1945

Total Depth: 7698' Cass Penn

Elevation: 3534' DF

Oil String: 7" at 7655'

Producing Interval: Open hole 7655-7698'

Initial Potential: Flow at rate of 1938 BOPD GOR 396 ft.³/bbl.

2. Remedial Work

1966

Holes in 7" casing repaired. Cut casing at 3242 and pulled. Ran tapered string consisting of 4 1/2" from 7576' to 4628'; 5 1/2" from 4628 to 3175' and 7" from 3175' to surface. Cemented with 375 sx.

1970

Squeezed casing leak after attempting to treat formation with 3000 gallons acid. Treated formation with 1500 gallons acid.

3. Present Status

The well was shut in on 10-9-72. The well was being pumped from 4500' and produced 4 barrels oil with 184 barrels water on last test dated 9-27-72. The pump was set at the bottom of the 5 1/2" casing and was as low as possible.

Cumulative oil production is 804,045 barrels.
Rods and pumping equipment have been removed.

4. Discussion

The well bore is in poor condition due to corrosion and there is probably some formation damage due to fill from scale. A casing inspection log of the 5 1/2" casing in January 1971 found the 5 1/2" casing to be in reasonably good condition and another log on May 9, 1972 found the same casing to be in fair to poor condition. The well was shut in shortly after the last casing inspection log was run because of uneconomical production.

The SEMU No. 2 was recompleted in the Drinkard Pool during 1974 and the same zone is present in the SEMU No. 3. The Drinkard is at 6640' opposite the 4 1/2" and 7" casing in the well. The Drinkard is tight, evidenced by recovery of 730' gas cut mud and 270' salt water on one hour DST, and would require stimulation to be commercial. It is extremely doubtful if the formation could be stimulated because the treatment would fracture the weak cement bond between the two strings of pipe and be lost. The same probability exists for any recompletion attempt in other possible producing zones.

The well should not be saved for salt water disposal possibilities because of its mechanical condition.

5. Recommendation

It is recommended that the SEMU No. 3 be plugged and abandoned according to New Mexico state rules and regulations.

District Engineer
U. S. Geological Survey

Gentlemen:

RE: SEM U. Ponn No. 3 P: A

This refers to the Form 9-331, Sundry Notices and Reports on Wells, accompanying this letter. The undersigned hereby states that he has personally contacted S. W. Cattle Company, the owner of the surface land where the proposed abandonment work is to be conducted and advised him of the proposed work.

It has been agreed, upon abandonment of the well, that the roads shall be (ripped or ~~left intact~~), the pad shall be (ripped or ~~left intact~~) and the surface restored.

Dave Sowers

STATE OF NEW MEXICO
COUNTY OF LEA

Subscribed and sworn to before me this 28 day of Jan, 1977.

Notary Public

My commission expires