

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

NMSF078244

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Southern Union 1

9. WELL NO.

1047900

10. FIELD AND POOL, OR WILDCAT

Basin DK/Blanco MV

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

12. COUNTY OR PARISH

San Juan

13. STATE

NM

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 ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

Snyder Oil Corporation

3. ADDRESS OF OPERATOR

P.O. Box 2038 Farmington, NM 87499

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

1090 FSL & 1090 FWL
Section 19, Township 31N, Range 12W

14. PERMIT NO.

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

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)

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.)*

PROPOSE TO PLUG AND ABANDON WELL PER ATTACHED PROCEDURE.

RECEIVED
AUG 14 1995

OIL CON. DIV.
DIST. 3

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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

SIGNED

Wayne L. Converse

TITLE

Engineer

DATE

8-04-95

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

APPROVED

AUG 11 1995

DISTRICT MANAGER

*See Instructions on Reverse Side

NMOCD

PLUG AND ABANDONMENT PROCEDURE

Snyder Oil Company

6-22-95

Southern Union #1-19 (MV/DK)
SW, Sec. 19, T31N, R12W
San Juan County, New Mexico

(All cement volumes use 100% excess outside pipe and 50' inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formations pressure.)

1. Install and/or test rig anchors. Prepare blow pit. Comply to all NMOCD, BLM and Snyder safety rules and regulations. MOL and RUSU. Blow well down; kill with water if necessary.
2. Rig up wireline unit and RIH with gauge ring in 1-1/2" Dakota tubing as deep as possible. If necessary use small (1") tools. ND wellhead and NU BOP and stripping head; test BOP.
3. POH and LD 1-1/4" Mesaverde tubing. Pump down 1-1/2" Dakota tubing, record pressures and rates to determine if pumping into Dakota perforations. If tubing leaks then attempt to pick up on 1-1/2" Dakota tubing and to pull seal assembly from Model D packer at 4587'. If able, then POH and LD tubing. If only able to pull 1-1/2' tubing and not the seal assembly, then PU 2" tubing work string with tubing patch/overshot and recatch the 2-7/8" tubing stub.
4. **Plug #1 (Dakota perfs):** Pump 30 bbls of water down tubing. Mix 50 sxs Class B cement and pump down tubing, displace to 5200' over the Dakota perfs. WOC and then RIH with wireline and tag cement. Pressure test tubing to 1000#.
5. **Plug #2 (Liner top & Mesaverde perfs):** Jet cut 2-3/8" tubing at 5050'. Attempt to pull seal assembly from Model D packer at 4587'. POH and LD seal assembly and other junk. RIH with tubing to 5050'. Pump 20 bbls water down tubing. Mix 149 sxs Class B cement and spot a plug from 5050' to 4563' over Mesaverde perforations. POH and WOC. Tag cement. Pressure test casing to 500#.
6. **Plug #3 (Mesaverde top):** Perforate 3 or 4 squeeze holes at 3810'. Establish rate into squeeze holes if casing tested. PU 7" cement retainer and RIH; set at 3760'. Establish rate into squeeze holes. Mix 55 sxs Class B cement and squeeze 26 sxs cement outside casing from 3810' to 3710' over the Mesaverde top and leave 29 sxs cement inside casing. POH with setting tool. Pressure test casing 500#.
7. **Plug #4 (Pictured Cliff & Fruitland tops):** Perforate 3 or 4 squeeze holes at 2247'. Establish rate into squeeze holes if casing tested. PU 7" cement retainer and RIH; set at 2197'. Establish rate into squeeze holes. Mix 196 sxs Class B cement, squeeze 106 sxs cement outside casing from 2247' to 1832' through squeeze holes and leave 90 sxs cement inside casing. POH and LD tubing.
8. **Plug #5 (Kirtland top & Surface):** Perforate 2 squeeze holes at 486'. Establish circulation out bradenhead. Mix 200 sxs Class B cement from 486' to surface, circulate good cement out bradenhead valve. Shut in well and WOC.
9. ND BOP and cut off wellhead below surface casing flange and install P&A marker with cement to BLM specifications. RD and MOL. Cut off anchors. Restore location per BLM stipulations.

Southern Union #1-19

CURRENT

Mesaverde & Dakota Dual

SW Sec 19, T-31-N, R-12-W, San Juan County, NM

Today's Date: 6/22/95

Spud: 8/5/57

Completed: 11/25/57

Nacimiento @ Surface

Ojo Alamo - Not Present

Kirtland @ 456'

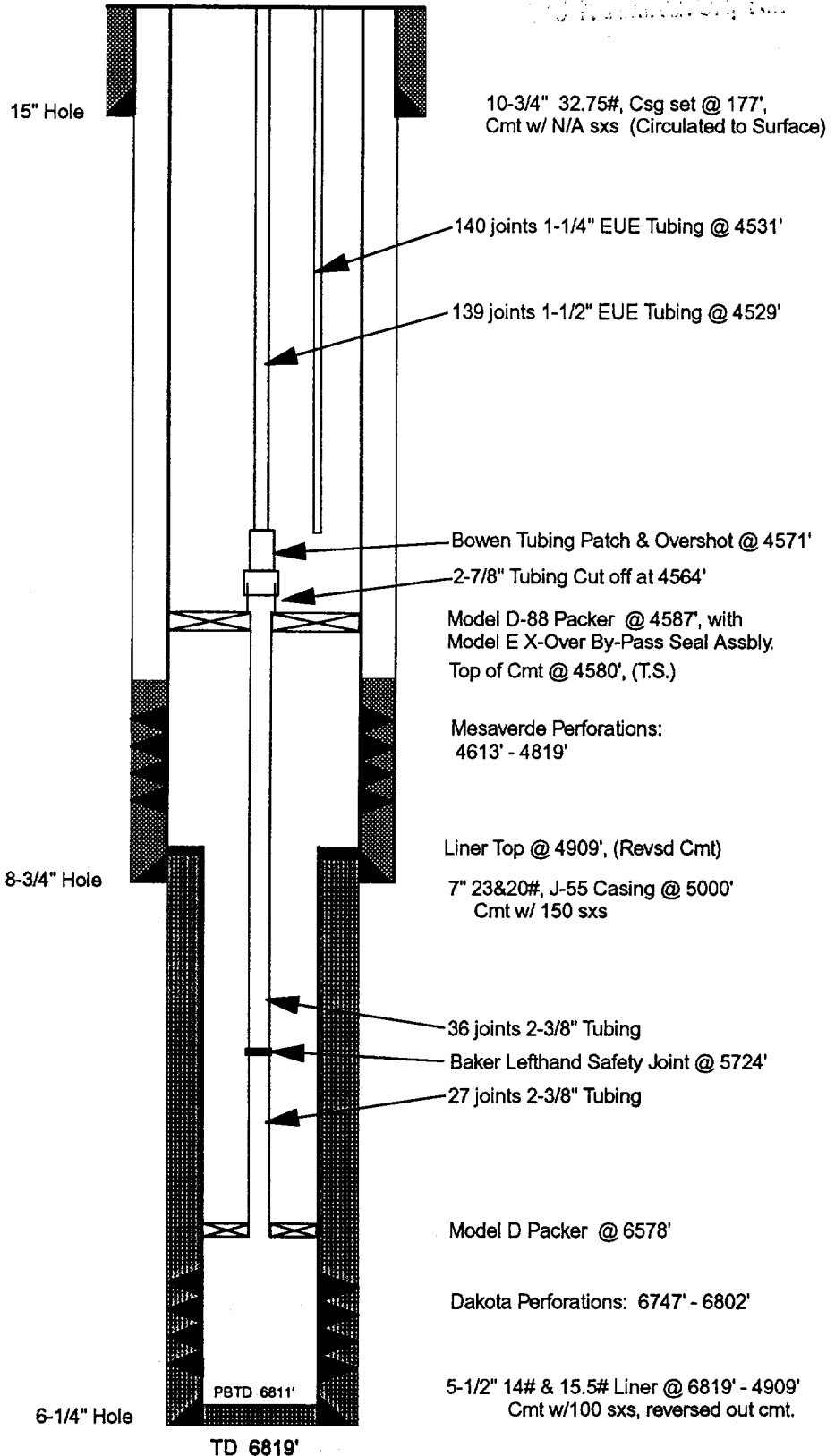
Fruitland @ 1882'

Pictured Cliffs @ 2197'

Mesaverde @ 3760'

Gallup @ 5883'

Dakota @ 6736'



Southern Union #1-19

Proposed P & A

Mesaverde & Dakota Dual

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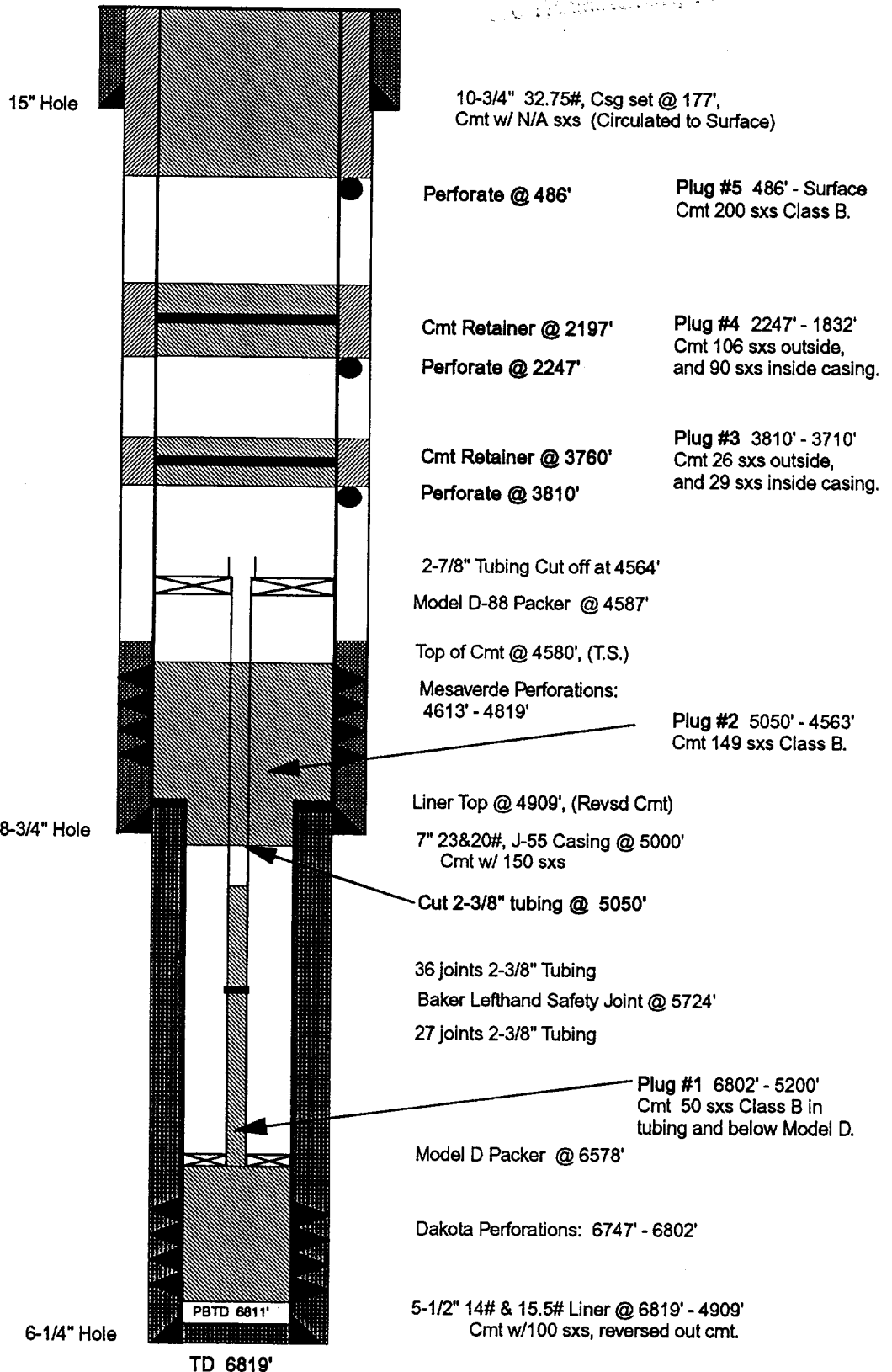
Fruitland @ 1882'

Pictured Cliffs @ 2197'

Mesaverde @ 3760'

Gallup @ 5883'

Dakota @ 6736'



UNITED STATES DEPARTMENT OF THE INTERIOR

**BUREAU OF LAND MANAGEMENT
FARMINGTON DISTRICT OFFICE**

1235 La Plata Highway
Farmington, New Mexico 87401

**Attachment to Notice of
Intention to Abandon**

**Re: Permanent Abandonment
Well: 1 Southern Union**

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Leases."

2. **Mike Flaniken** with the Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 599-8907.

3. The following modifications to your plugging program are to be made (when applicable):

1) Displace the Dakota cement plug to approximately 6200', cut off tubing at approximately 5950' and spot a cement plug from 5933' to 5833 inside the casing. (top of Gallup at 5883')

2.) Extend surface cement plug from 486'-0' to 506'-0'. (top of Kirtland at 456')