Form 3160-5
November 1983)
Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

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

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.)

RECEIVED
DEC 05 1985
BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR: Tenneco Oil Company

3. ADDRESS OF OPERATOR: P. O. Box 3249, Englewood, CO 80155

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 700' FNL, 600' FEL

5. LEASE DESIGNATION AND SERIAL NO.: SF-078329

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Daum LS

9. WELL NO.: 6E

10. FIELD AND POOL, OR WILDCAT: Basin Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 32, T28N R9W

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6315' GL

12. COUNTY OR PARISH: San Juan

13. STATE: NM

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
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	XX	(Other)			
(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.)*

Tenneco requests permission to change the casing program as shown on the attached detailed procedure.

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DEC 11 1985
OIL CON. DIV.
DIST. 3

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

SIGNED Scott McKinney TITLE Senior Regulatory Analyst DATE 12/2/85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
DEC 9 1985
/s/ M. MILLENBACH
AREA MANAGER

*See Instructions on Reverse Side

NMOCC

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

#2509M

TENNECO OIL COMPANY
WESTERN ROCKY MOUNTAIN DIVISION
6162 SOUTH WILLOW DRIVE
ENGLEWOOD, COLORADO 80155

DATE: November 13, 1985

LEASE: Daum LS WELL NO: 6E

LOCATION: 700' FNL, 1600' FEL
Section 32, T28N, R9W
San Juan County, New Mexico
FIELD: Basin Dakota

ELEVATION 6315'(GL)

TOTAL DEPTH: 7010'

PROJECTED HORIZON: Chacra/Dakota Dual

SUBMITTED BY: Chris Purnell DATE: 11-15-85

APPROVED BY: Mark Kangas DATE: 11-15-85

CC: Administration
CRJ Well File
Field File

ESTIMATED FORMATION TOPS

Ojo	1462'	Fresh Water Acquifer
Kirtland	1562'	
Fruitland	2152'	Coal Gas Potential
Pictured Cliffs	2417'	Gas
Lewis	2492'	
Chacra Top	3377'	Gas
Charca Base	3537'	
Cliff House	3997'	Wet
Menefee	4083'	Gas, Water
Point Lookout	4707'	Gas
Mancos	4957'	
Gallup	5882'	Potential Oil Flows
Greenhorn	6652'	
Graneros	6712'	
Dakota	6752'	Gas
TD	7010'	

DRILLING, CASING AND CEMENT PROGRAM

1. MIRURT. Notify MMS of spud.

2. Drill a 12-1/4" hole to ± 280 ft. with a gel water mud.

3. Rig up and run 9-5/8" 36# K-55 ST&C casing to bottom. Cement with Class B + 2% $CaCl_2$ in sufficient quantity (200-250sx) to circulate cement to surface. If conditions warrant the use of loss circulation agents, 1/4 #/sx celloflake may be added. Wait on cement a minimum of 12 hours prior to drilling out.

4. While waiting on cement, screw on a 9-5/8" -8rd X 11"-3M casinghead. NU BOP's. Pressure test casing, blinds, manifold and lines to 1000 psi for 30 minutes. GIH with drill pipe and test the pipe rams in the same manner. Record all tests on the IADC report sheet.

5. Drill out with an 8-3/4" bit, clear water with rapid mud. Drill to ± 3750' or ± 200' below base of Chacra. Mud up prior to reaching intermediate T.D. Circulate at casing point a sufficient time to clean the hole to run casing. GE Department will run logs in intermediate hole.

6. Install casing rams, run 7" 23# K-55 casing equipped with a guide shoe on bottom, float collar one joint up and a stage collar 200' below the Ojo Alamo. Bakerlock from the shoe to the top of the float collar and run casing to bottom. Centralize casing with one centralizer in the middle of shoe joint and then on every other collar for total of 6 centralizers. Place one centralizer above and below the stage tool. Cementing baskets may be used if lost circulation has been encountered.

INTERMEDIATE CEMENTING PROGRAM

FIRST STAGE	LEAD	TAIL
Type	65/35/6 + 1/4 #/sx flocele + 2% $CaCl_2$	Cl B + 1/4 #/sx flocele + 2% $CaCl_2$.
Sacks	Theoretical Volume	100 sx
Slurry yield	1.84 cu. ft./sx	1.18 cuft/sx
Mix weight	12.7 ppg	15.6 ppg
Water req's.	9.9 gal/sx	5.20 gal/sx

SECOND STAGE	LEAD	TAIL
Type	65/35/6 + 1/4 #/sx flocele + 2% $CaCl_2$	Cl B + 2% $CaCl_2$ + 1/4 #/sx Flocele
Sacks	75% excess	50 sx
Slurry yield	1.84 cuft/sx	1.18 cuft/sx
Mix weight	12.7 ppg	15.6 ppg
Water req's.	9.9 gal/sx	5.2 gal/sx

Precede the first stage and second stage with 20 bbls chemical wash. Circulate four hours after opening the stage tool. If cement is not circulated to surface run a temperature survey after 8 hours to determine actual TOC as MMS requires. Wait on cement a total of 18 hours (from first plug down) before drilling out beneath casing.

7. Set slips with casing in full tension and cut-off. NU BOE and test as in procedure 4 above. Record tests on IADC report.

8. Drill out, dry up hole and drill a 6-1/4" hole to T.D. surveying as required. If hole becomes wet, switch to foam mist.

9. Log open hole as directed by GE department.

10. If productive, run 4-1/2" 11.6# and 10.5# K-55 casing as a liner. Equip the casing with a float shoe on bottom, a float collar and latch down collar (piggy backed) on the top of the first joint. No threadlock or centralizers are to be used on this arrangement. Hang liner with a 150' lap in the intermediate casing and at least 3' off bottom..

11. Precede cement with 20 barrels of chemical flush. Cement with a lead slurry of 65/35 Poz + 6% gel + .6% fluid loss additive. Tail with 100 sx of Class B + .6% fluid loss additive. Use sufficient quantity ($\pm$ 75% excess) to circulate cement to the liner top.

12. Circulate out the excess cement, LDDP and MORT.

13. In non-productive, P & A as required by USGS.

14. Install tree and fence remainder of reserve pit.

CASING PROGRAM

INTERVAL	LENGTH	SIZE	WEIGHT	GRADE	OPTIMUM MAKE-UP TORQUE
0-280	280	9-5/8	36. #	K-55	STC 4230
0-3750	3750	7	23. #	K-55	STC 3090 LTC 3410
3600-7010	3410	4-1/2	10.5#	K-55	STC 1460
		4-1/2	11.6#	K-55	STC 1700 LTC 1800

MUD PROGRAM

0-280'	Spud mud.
280'-3750'	Low solid, fresh water mud. (Water and Rapid Mud.) Mud up prior to logging and running casing.
3750'-T D	Air - If hole becomes wet switch to foam mist with shale treat, corrosion inhibitor & soap.

EVALUATION

Cores and DST's:

NONE.

Deviation Surveys

1. Survey surface hole at 100' intervals. Maximum allowable deviation at 500' is 1-1/2°

2. From surface to the Mancos formation, deviation surveys must be taken every 500'. In the Mancos/Gallup zones surveys are to be taken every 250'. Record all surveys in IADC Report book. Maximum allowable change in deviation is 1° per 100'. Maximum deviation allowable is 8°.

Samples: As requested by Wellsite Geological Engineer

Logs:
Run # 1: GR-SP-DLL: ICP-Surface Casing: GR-CDL-CNL-Caliper: ICP - (2000' minimum)
Run # 2: GR-DIL: TD-ICP: GR-CDL-Caliper: TD-(2000' minimum)

BLOWOUT EQUIPMENT

11" - 3000 BOP with rotating head to comply with TOC requirements as shown in BOE arrangement, Figure C. Preventers must be checked for operation every 24 hours with each check recorded on the IADC Drilling Report Sheet.

REPORTS

Drilling Reports for the past 24 hours will include depth, footage, time distribution, activity breakdown, mud properties, bit record, bottom hole assembly, types of logs and depths ran, daily and cumulative mud cost, deviation surveys, and other pertinent information to be called into Division Office by 7:30 AM Monday thru Friday.

TENNECO OIL COMPANY
P.O. Box 3249
ENGLEWOOD, COLORADO 80155
PHONE: 303-740-4800

OFFICE DIRECTORY

Charles R. Jenkins	740-2575
Ted McAdam	740-2576
Tom Dunning	740-4813
Mark Kangas	740-4810

In case of emergency or after hours call the following in the preferred order.

(1)	Mark Kangas	740-4810	Office
	Project Drilling Engineer	973-8846	Home
(2)	Ted McAdam	740-2576	Office
	Drilling Engineering Supervisor	978-0724	Home
(3)	Charles R. Jenkins	740-2575	Office
	Division Drilling Engineer	987-2290	Home
(4)	Harry Hufft	771-5257	Home
	Division Production Manager		