

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Tenneco Oil Company	8. FARM OR LEASE NAME Michener A LS
3. ADDRESS OF OPERATOR P. O. Box 3249, Englewood, CO 80155	9. WELL NO. 5A
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1190' FNL, 790' FWL	10. FIELD AND POOL, OR WILDCAT Blanco Mesaverde
14. PERMIT NO.	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 31, T28N R9W
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6316' GL	12. COUNTY OR PARISH San Juan
	13. STATE NM

RECEIVED

DEC 16 1985

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 ☐	(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 according to the attached detailed procedure.

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DEC 20 1985
OIL CON. DIV.
DIST. 3

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

SIGNED Scott McHenry TITLE Senior Regulatory Analyst DATE 12/9/85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

#2541M

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

DATE: December 6, 1985

LEASE: Michener A LS WELL NO: 5A

LOCATION: 1190' FNL, 790' FWL FIELD: Blanco Mesaverde
Section 31, T28N, R9W
San Juan County, New Mexico

ELEVATION 6319' (GL)

TOTAL DEPTH: 5150'

PROJECTED HORIZON: Mesaverde

SUBMITTED BY: Tom Dunning

DATE: 12-6-85

APPROVED BY: Mark Kangas

DATE: Dec 6, 1985

CC: Administration
CRJ Well File
Field File

ESTIMATED FORMATION TOPS

Ojo	1436'	Fresh Water Aquifer
Kirtland	1566'	
Fruitland	2136'	
Pictured Cliffs	2401'	
Lewis	2471'	
Chacra	3376'	Gas
Cliff House	3956'	Gas
Menefee	4021'	Gas, Water
Point Lookout	4681'	Gas
Mancos	4991'	
TD	5150'	

DRILLING, CASING AND CEMENT PROGRAM

1. MIRURT. Notify MMS of spud.
2. Drill a 12-1/4" hole to $\pm$ 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 $\pm$ 2950' or 500' into the Lewis Shale. 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 and float collar one joint up. 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. Cementing baskets may be used if lost circulation has been encountered.

INTERMEDIATE CEMENTING PROGRAM

<u>FIRST STAGE</u>	<u>LEAD</u>	<u>TAIL</u>
Type	65/35/6 + 1/4 #/sx flocele + 2% CaCl_2	C1 B + 1/4 #/sx flocele + 2% CaCl_2 .
Sacks	100% excess	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

Precede the first stage with 20 bbls chemical wash. 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 12 hours (from 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.
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 (piggybacked) 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 wash. Cement with a lead slurry of 65/35 Poz + 6% gel + .6% fluid loss additive. Tail with 150 sx of Class B + .6% fluid loss additive. Use sufficient quantity (+ 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

<u>INTERVAL</u>	<u>LENGTH</u>	<u>SIZE</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>OPTIMUM MAKE-UP TORQUE</u>
0-280	280	9-5/8	36. #	K-55	STC 4230
0-2950	2950	7	23. #	K-55	STC 3090 LTC 3410
2800-5150	2350	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'-2950'	Low solid, fresh water mud. (Water and Rapid Mud.) Mud up prior to logging and running casing.
2950'-T D	Gas - If mud up is required, add 3% KCL to system. If mist up is required, add shale inhibitor + 3% KCl

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'. 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		