

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.)

RECEIVED

JAN 16 1986

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR
Tenneco Oil Company

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

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

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

990' FSL, 990' FWL

14. PERMIT NO.

15. ELEVATIONS (Show whether DP, ST, GR, etc.)

5797' GL

5. LEASE DESIGNATION AND SERIAL NO.

SF-078097

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Heaton LS

9. WELL NO.

3

10. FIELD AND POOL, OR WILDCAT

Blanco Mesaverde

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

Sec. 32, T31N R11W

12. COUNTY OR PARISH 13. STATE

San Juan

NM

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other) sidetrack and recomple

PLUG OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANE

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(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 sidetrack and recomple the referenced well according to the attached detailed procedure.

RECEIVED
JAN 24 1986
OIL CON. DIV.
APPROVED

JAN 22 1986
M. MILLENBACH
AREA MANAGER

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

SIGNED

Scott McKinnis

TITLE Senior Regulatory Analyst

DATE 1/13/86

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

NMOCC

4418/3

LEASE HEATON LS

WELL NO. 3

CASING:

9 5/8" OD, 25.4 LB., - CSG. W/ 150 SX

TOC @ SURF. . HOLE SIZE 12 1/4 DATE 3-53

REMARKS _____

7" OD, 23 LB., - CSG. W/ 300 SX

TOC @ 2580 . HOLE SIZE 8 3/4 DATE 4-53

REMARKS _____

4 1/2" OD, 10.5 LB., K-55 CSG. W/ 200 SX

TOC @ 3600 . HOLE SIZE 6 1/4 DATE 12-30-85

REMARKS TOC BY TEMP SURVEY

TUBING:

____ "OD, _____ LB, _____ GRADE, _____ RD, _____ CPLG

LANDED @ ____ . SN, PACKER, ETC. _____

____ "OD, _____ LB, _____ GRADE, _____ RD, _____ CPLG

LANDED @ ____ . SN, PACKER, ETC. _____

FLAG JT.
@ 3707'

PUMP _____ RODS _____ ANCHOR _____

DETAILED PROCEDURE:

① MIRUSU NDWH NUBOP.

② TIH W 2 3/8 TBG & 3 7/8" BIT

③ DRILL OUT TO FLOAT COLLAR @ 5465'. PT
CSG TO 3500 PSI. ROLL HOLE W 1 1/2 KCL
WATER. POOH W TBG & BIT.

④ R U LOGGERS: RUN GR- CCL LOG FROM
PBTD THRU FLAG JT @ 3707' . -

⑤ RIH W TBG & SPOT 500 GALS 7 1/2% DI
HCL AT 4812'. POOH W TBG

⑥ PERFORATE POINT LOOKOUT W 3 1/8" PREMIUM
CHARGE CSG GUNS W 1 JSPF FROM 4596' TO
4702' & 2 JSPF 180° PHASING FOR REST OF
PERFORATIONS AS FOLLOWS:

5067'

5112'

SIDETRACK
@ 3737'

4150'

PROCEDURE - PAGE 2

LEASE NAME: HEATON LS WELL NUMBER: 3

<u>DEPTH INTERVAL</u>	<u>FEET</u>	<u>PERFORATIONS</u>
4596 - 98	2	2
4599 - 4635	36	36
4638 - 41	3	3
4648 - 60	12	12
4663 - 65	2	2
4670 - 76	6	6
4688 - 92	4	4
4696 - 4702	6	6
4768 - 72	4	8
4785 - 92	7	14
4802 - 12	10	20
TOTAL:	92'	113 PERFORATIONS

- ⑦ ACIDIZE PT LOOKOUT DN CSG W 2300 GAL 15% WEIGHTED HCL @ 170 - 1.1 S.G BALL SEALERS. RATE: 35 BPM; MTP: 3000 PSI.
- ⑧ ROUNDTrip W/L JUNK BASKET TO KNOCK OFF; RETRIEVE BALLS.
- ⑨ FRAC PT LOOKOUT W 1% KCL WATER W FRICTION REDUCER AS FOLLOWS: RATE: 90-100 BPM. MTP = 3500 PSI

<u>STAGE</u>	<u>VOL (BBL)</u>	<u>SAND CONC.</u>	<u>SAND #</u>	<u>CUM SAND #</u>
PAD	1150	0	0	0
1	300	0.5 PPG	6300	6300
2	300	1.0 PPG	12600	18900
3	300	1.5 PPG	18900	37800
4	1800	2.0 PPG	151200	189000
FLUSH	60 (10 BBL SHY OF TOP PERF.)			
TOTAL:	3910 BBL	1% KCL WATER	189,000*	20/40 SAND.

- ⑩ RIH W WIRELINE SET TBG RETRIEVABLE BP @ SET @ 4500'
- ⑪ DUMP 2 SX SAND ON RBP, ROLL HOLE W 1% KCL H₂O @ PT TO 3500 PSI.
- ⑫ TIH W 2 3/8 TBG @ SPOT 300 GAL 7 1/2% DI HCL @ 4570' POOH W TBG.

PROCEDURE - PAGE 2LEASE NAME: HEATON LS WELL NUMBER: 3

- ⑬ PERFORATE MENEFFEE W 3 1/8" PREMIUM CHARGE CSG GUN
W 2 JSPF 180° PHASING AS FOLLOWS

DEPTH INTERVAL	FEET	PERFORATIONS
4426 - 30	4	8
4440 - 48	8	16
4487 - 95	8	16
4514 - 118	4	8
4558 - 169	11	22
TOTAL	35'	70 PERFORATIONS

- ⑭ ACIDIZE MENEFFEE DN CSG W 1400 GAL 15% WEIGHTED
HCL & 105- 1.1 SG BALL SEALERS. RATE: 35 BPM ; MTP 3000 PSI.
- ⑮ ROUNDTRIP W/ JUNK BASKET TO KNOCK OFF & RECOVER BALLS.
- ⑯ FRAC MENEFFEE W 1% KCL WATER & 20 LB GEL & 20/40
SAND AS FOLLOWS : RATE: 50-60 BPM ; MTP 3500 PSI.

STAGE	VOL (BBL)	SAND CONC.	SAND (LBS)	CUM SAND (LBS)
PAD	600	Ø	Ø	Ø
1	300	0.5 PPG	6300	6300
2	300	1.0 PPG	12600	18900
3	300	1.5 PPG	18900	37800
4	500	2.0 PPG	42000	79800
FLUSH	60 (10 BBL SHY OF TOP PERE)			
TOTAL:	2060 BBL	1% KCL WATER &	79,800#	20/40 SAND.

- ⑰ RIH W WIRELINE SET TBG RETRIEVABLE BP & SET @ 4240'
- ⑱ DUMP 2 SX SAND ON RBP, ROLL HOLE W 1% KCL H₂O : PT
TO 3500 PSI. PRESSURE TEST 7" x 4 1/2" ANNULUS TO 500 PSI
- ⑲ TIH W 2 3/8 TBG & SPOT 200 GAL 7 1/2% DI HCL @ 4056.
POOH W TBG.
- ⑳ PERFORATE CLIFFHOUSE W 3 1/8" PREMIUM CHARGE CSG.
GUN 1 JSPF AS FOLLOWS:

PROCEDURE - PAGE 2

LEASE NAME: HEATON LS WELL NUMBER: 3

DEPTH INTERVAL	FEET	PERFORATIONS
4013-30	17	17
4034-56	22	22
TOTAL	39'	39 PERFORATIONS

- *22A
- (21) ACIDIZE CLIFFHOUSE DN CSG W 1000 GAL 15% WEIGHTED HCL & 59- 1.1 SG BALL SEALERS. RATE: 35 BPM; MTP 3000 PSI.
- (22) ROUNDTrip W/ JUNK BASKET TO KNOCK OFF & RECOVER BALLS
- (23) FRAC CLIFFHOUSE DN CSG W 1% KCL W FRICTION REDUCER & 20/40 SAND AS FOLLOWS RATE: 40-50 BPM; MTP 3500 PSI.

STAGE	VOL (BBL)	SAND CONC.	SAND (lbs)	CUM SAND (lbs)
DAD	700	0		
1	300	0.5	6300	6300
2	300	1.0	12600	18900
3	300	1.5	18900	37800
4	750	2.0	63000	100800
FLUSH	50 (10 BBL SHY OF TOP PERE.)			
TOTAL: 2400 BBL 1% KCL WATER, 100,800 lbs 20/40 SAND				

- (24) RIH W 2^{3/8} TBG & CLEANOUT TO RBP @ 4240'. LAND TBG AT BOTTOM OF CLIFFHOUSE PERFS. @ 4050'.
- (25) NDBOP: NUWH. SWAB IN WELL IF NECESSARY. FTCU. RDMSU. NOTIFY EPS TO HOOKUP WELL FOR TEST ON CLIFFHOUSE.
- (26) MIRUSU KILL WELL W 1% KCL WATER. NDWH, NUBOP.
- (27) TOOH W TBG. TIH W RETRIEVING HEAD ON TBG & CLEANOUT TO TOP OF RBP @ 4240'. LATCH ONTO RBP & POOH
- (28) TIH W RETRIEVING HEAD ON TBG AND CLEANOUT WITH FOAM TO 2ND RBP @ 4590. LATCH ONTO RBP & POOH.
- (29) TIH W 2^{3/8} TBG & SN 1 JT OFF BOTTOM & CLEANOUT TO PRD W FOAM. LAND TBG IN LOWER PT LOOKOUT PERFS @ 4800' NDBOP: NUWH. KICK WELL AROUND W N₂ IF NECESSARY
- (30) RDMSU. FTCU. SHUT IN FOR AOE.

4418/4

PROCEDURE - PAGE 2

LEASE NAME: HEATON LS WELL NUMBER: 3

22A T1H W FULLBORE PKR ON 2³/₈ TBG & SET PKR @
4000'. SWAB IN CLIFFHOUSE. CALL IN SWABBING
RESULTS TO DENVER PRIOR TO FRACING CLIFFHOUSE.

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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 Heaton LS	
3. ADDRESS OF OPERATOR P. O. Box 3249, Englewood, CO 80155		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 990' FSL, 990' FWL		10. FIELD AND POOL, OR WILDCAT Mesaverde	
14. PERMIT NO.		15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5797' GL	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 32, T31N R11W	
		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:

TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐
REPAIR WELL	☐	CHANGE PLANE	☐
(Other)	☐		☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
(Other) Sidetrack	☐		☐

(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.)*

12/14/85 Move to well site & RU.

12/15/85 RU. Kill well w/1% KCl wtr. NDWH. NUBOP's. Pull 2-3/8" tbg - parted @ 4033'. Lay dn 129 jts tbg. BU 2-7/8" DP. POOH. RIH w/HOWCO cmt retainer on wireline. Set @ 3737'. TIH w/stinger on DP.

12/16/85 Rig up HOWCO. Load hole and circ out drip. Press tst csg and retainer to 950 psi, o.k. Sting into retainer press up to 2500 psi. Unable to break dn. POOH w/Howco stinger. Press tst BOPS to 1000 psi, o.k. Thaw out pmp. Pick up DC & RIH w/bit #1. RIH. Rig repairs - pmp. RIH to 3737'. DO retainer and push to 4042'.

12/17/85 POOH to 3740'. Survey. POOH. RIH openended to 4040'. Plug #1. Etab circ. Pmp 50 sxs (59 Ft3) Class B w/2% CaCl2. CIP @ 12:15 p.m. Pull to 3755' and reverse out trace of cmt. POOH. Rig up GO and set CIBP @ 3737'. PU whipstock and RIH to 3737'. Set whipstock and shear off. Mill from 3721' to 3723' w/pilot mill. Circ hole clean. POOH. PU speed mill. RIH 20 stds. Cut and slip drilling line. RIH @ 6:00 a.m.

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

SIGNED

Senior Regulatory Analyst

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

DATE

OIL CON 2/DW5

DIST. 3

ACCEPTED FOR RECORD

JAN 09 1985

*See Instructions on Reverse Side

NMOCC

FARMINGTON RESOURCE AREA

BY E-7B

12/18/85 TIH w/mill & mill from 3729-31'. TF mill #3 & stabilizer. Mill to 3735', lost mill. POOH & PU overshot. Recover fish, PU 10 PC, reamer & bit.

12/19/85 TIH w/drlg assy. Unable to get by junk. TOOH. PU flat btm mill. TIH. Drill by junk. TOOH. PU drlg assy. TIH. Blow hole dry.

12/23/85 TOOH to log. Repair rotary drive, tirp hole. Drlg survey. TOOH to log @ 5130.

12/24/85 RU Wellex. Ran DIL and special density log from 5130-3920'. RIH, Blow holw. LDDP & DC. Run csg; 122 jts (5127.53') 4-1/2", 10.5#, K-55 ST&C csg to 5122-lost 10' of hole to 5112' while working pipe (shoe @ 5112', FC @ 5065' w/ flan jt @ 3707'. Cmt'd 4-1/2" csg @ 5112'. Pmp'd 20 bbls chemical wash followed by 200 sxs (236ft³) Class B w/.6% CFR-2. Displace w/81 bbls of 1% KCl wtr. Did not bump. o.k. CIP @ 3:45 a.m. 12/25/85. NDBOP's. Set slips. Cut off 4-1/2" csg. Install packoff. Suspend operations @ 6:00 a.m. 12/25/85.

RECEIVED
JAN 13 1986
OIL CON. DIV.
DIST. 3

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

SIGNED

John McKinnis

TITLE Senior Regulatory Analyst

DATE

1/3/86

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