

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5. Lease Designation and Serial No.
ML 27450 ALL Sec 16
6. If Indian, Allottee or Tribe Name

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work
DRILL DEEPEN PLUG BACK
1b. Type of Well
Oil Well Gas Well Other _____
Single Zone Multiple Zone

7. Unit Agreement Name
8. Farm or Lease Name
Tenneco State **CONG CANYON UNIT**

2. Name of Operator
Tenneco Oil Company

9. Well No.
16-4

3. Address of Operator
P.O. Box 3249, Englewood, Colorado 80155

10. Field and Type of Well
Wildcat
Entrada Test

4. Location of Well (Report location clearly and in accordance with any State requirements.)*
At surface 949.2 FNL, 724.3 FWL **NW NW**
At proposed prod. zone

11. Sec., T., R., M., or Blk. and Survey or Area
Sec. 16, T19S, R23E

14. Distance in miles and direction from nearest town or post office*
See attached.

12. County or Parrish 13. State
Grand Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any) 724.3'
16. No. of acres in lease 2080.63
17. No. of acres assigned to this well 360

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.
19. Proposed depth $\pm 4500'$ **Entrada**
20. Rotary or cable tools Rotary

21. Elevations (Show whether DF, RT, GR, etc.) 5231 GR
22. Approx. date work will start* ASAP

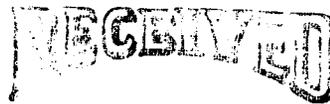
23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
8 3/4"	7"	23# K55	$\pm 300'$	Circulate to surface
6 1/4"	4 1/2"	10.5# K55	$\pm 4500'$	Cover all productive zones

Set 1-3 joints of 9 5/8" casing as conductor.

See attached.

Please expedite.



OCT 17 1980

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING

DATE: 10/24/80
BY: [Signature]

DIVISION OF OIL, GAS & MINING

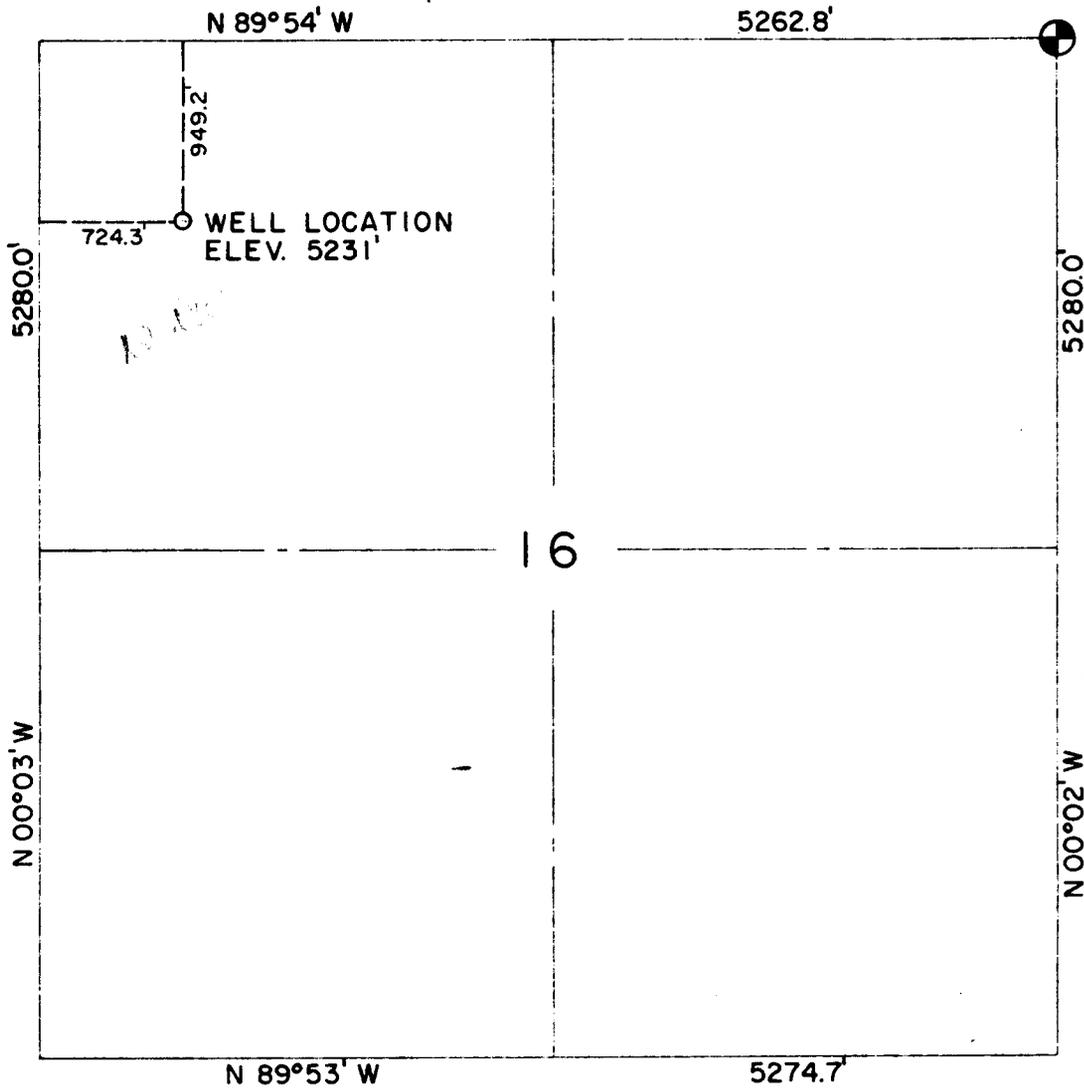
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. Signed: [Signature] M. L. Freeman Title: Staff Production Analyst Date: October 15, 1980

(This space for Federal or State office use)

Permit No. _____ Approval Date _____

Approved by _____ Title _____ Date _____
Conditions of approval, if any:



N

500 0 1000

SCALE 1"=1000'

BRASS CAP SURVEY MONUMENT-1909

BASIS OF BEARING:
SOLAR OBSERVATION

WELL LOCATION
 949.2 FT. S.N.L. - 724.3 FT. E.W.L.
 SECTION 16, T.19 S., R.23 E., SLB & M
 GRAND COUNTY, UTAH

SURVEYOR'S CERTIFICATE

I, Edward A. Armstrong, a registered land surveyor in the State of Utah, do hereby certify that this survey was made under my direct supervision and that this plat represents said survey.

Edward A. Armstrong
 EDWARD A. ARMSTRONG PE & LS 4464

	ARMSTRONG ENGINEERS and ASSOCIATES, INC. ENGINEERING • SURVEYING • SOILS AND CONCRETE TESTING 861 ROOD AVENUE -- GRAND JUNCTION, COLORADO 81501 (303) 245 3861		
	SCALE	1"=1000'	TENNECO OIL
	DATE	9/30/80	TENNECO STATE 16-4
	DRAWN BY	M.E.L.	
CHECKED BY	E.A.A.		JOB NUMBER
DATE OF SURVEY	9/29/80	SHEET 1 of 1	803004

TENNECO OIL COMPANY - 10 POINT PLAN

1. The geological name of the surface formation: Castlegate
- 2 & 3. Estimated Formation Tops:

(See Attached Drilling Procedure)
4. Proposed Casing Program:

(See Attached Drilling Procedure)
5. Blowout Preventors:
Hydraulic double ram. One set of rams will be provided each size drill pipe in the hole. One set of blind rams at all times. Fill line will be 2", kill line will be 2", choke relief line will be 2". BOP's, drills and tests will be recorded in the driller's log. BOP will be tested every 24 hours and recorded in IADC Log.
6. Mud Program: (Sufficient quantity of mud and weight material will be available on location).

(See Attached Drilling Procedure.)
7. Auxiliary Equipment:
 - a. Kelly cock will be in use at all times.
 - b. Stabbing valve to fit drill pipe will be present on floor at all times.
 - c. Mud monitoring will be visual. No abnormal pressures are anticipated.
 - d. Floats at bits.
 - e. Drill string safety valve(s) to fit all pipe in drill string will be maintained on the rig floor while drilling operations are in progress.
8. Coring, Logging, and Testing Program:

(See Attached Drilling Procedure)
9. No abnormal pressures, temperatures or potential hazards such as H₂S are expected to be encountered.
10. The drilling of this well will start approximately (ASAP) and continue for 10 to 12 days.

Your office will be notified of spudding in sufficient time to witness cementing operations. Immediate notice will be given on blowouts, fires, spills, and accidents involving life threatening injuries or loss of life. Prior approval will be obtained before appreciably changing drilling program or commencing plugging operations, plug back work, casing repair work or corrective cementing operations.

TENNECO OIL COMPANY
ROCKY MOUNTAIN DIVISION
PENTHOUSE, 720 SOUTH COLORADO BOULEVARD
DENVER, COLORADO 80222

DRILLING PROCEDURE

DATE: September 4, 1980

LEASE: Long Canyon State

WELL NO.: 16-4

LOCATION: 949.2 FNL, 724.3 FWL
Section 16, T 19S, R 22E
Grand County, Utah

FIELD: Long Canyon

ELEVATION: 5231

TOTAL DEPTH: 4500

PROJECTED HORIZON: Entrada

SUBMITTED BY: Bruce Ladd

DATE: September 4, 1980

APPROVED BY: 

DATE: _____

CC: Administration
DSB Well File
Field File

ESTIMATED FORMATION TOPS

Mesa Verde		
Mancos		
Castlegate	Surface	
Frontier	3276	
Dakota Silt	3526	
Dakota	3651	(Gas)
Morrison	3776	(Water or Gas)
Salt Wash	4151	(Water or Gas)
Entrada	4386	(Water or Gas)
T.D.	4446	

DRILLING, CASING, AND CEMENT PROGRAM

1. MIRURT.
2. Set 1-3 jts. of 9 5/8" casing as needed to be used as conductor pipe.
3. Install casing head and nipple up rotating head and blosie line.
4. Drill 8 3/4" hole to 300' or through the Castlegate Formation.
5. Run 7", 23#, K-55, ST&C surface casing to T.D. Cement with sufficient volume to circulate cement to the surface.
6. WOC. Nipple up BOP's, rotating head, choke manifold, etc. Pressure test BOP's, manifold, etc. to 1000 psi for 15 minutes.
7. TIH and displace water in casing with air. Drill out shoe and dry up hole.
8. Drill 6 1/4" hole to T.D.
9. Log well as per G. E. Department recommendations.
10. If well is productive, run 4 1/2", 10.5#, K-55, ST&C casing to T.D. Cement with sufficient volume to cover all possible productive zones.
11. If the well is non-productive, P & A as per Regulatory Agency Specifications.

CASING PROGRAM

CONDUCTOR:	30' to 125' as needed. 9 5/8", 36#, K-55, ST&C.
SURFACE:	300' ±, 7", 23#, K-55, ST&C
PRODUCTION:	4500' , 4 1/2", 10.5#, K-55, ST&C.

MJD PROGRAM

1. Anticipate drilling entire hole with air.
2. In the event liquids are encountered, mist drilling will be attempted.
3. Should mist drilling be unsuccessful, the hole will have to be mudded up.
4. Also, if gas is encountered in sufficient volume to compromise the safety of the operations, mudding up will be required.
5. If mudding up is necessary, the following guidelines should be followed.
(1) Weight \pm 9.0 ppg. (2) Vis. as needed to clean hole. (3) W.L. 10cc or less.

EVALUATION

Cores and DST's: No cores or DST's are anticipated.

Deviation Surveys:

- 0- 300' 2 1/2^o) Surveys to be run every 500' or on trips, whichever comes
300'-4500' 5^o) first. Record surveys on IADC Drilling Report Sheet.
Maximum allowable deviations: (1) 1^o change per 100' intervals
(2) 2 1/2^o at surface casing setting depth.
(3) 5^o at T.D.

In the event that the maximum allowable deviations are exceeded, the Denver Office of Tenneco Oil Company will be notified immediately.

Samples: NONE.

Logs:

SNP/GR)		FDC/CHL)	
FDC/GR)	Air drilled.	DIL/LLB w/SP)	Mud Drilled.
DIL)			

BLOWOUT EQUIPMENT

1. Double ram hydraulic with pipe and blind rams operated by an accumulator.
2. Rotating head on air/mist holes.
3. Preventors must be checked for operation every 24 hours. This check MUST BE 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, daily and cumulative mud costs, plus any other pertinent information, will be called into Tenneco Oil Company, Denver, Colorado, between 7:30 a.m. and 8:00 a.m.

1. 303-758-7130 (Office) Don Barnes
303-758-7287 (Office) Don Barnes' private line, Monday-Friday (before 7:45 a.m.)
303-936-0704 (Home) Don Barnes, weekends and holidays.
2. John Owen (Home) 303-795-0221

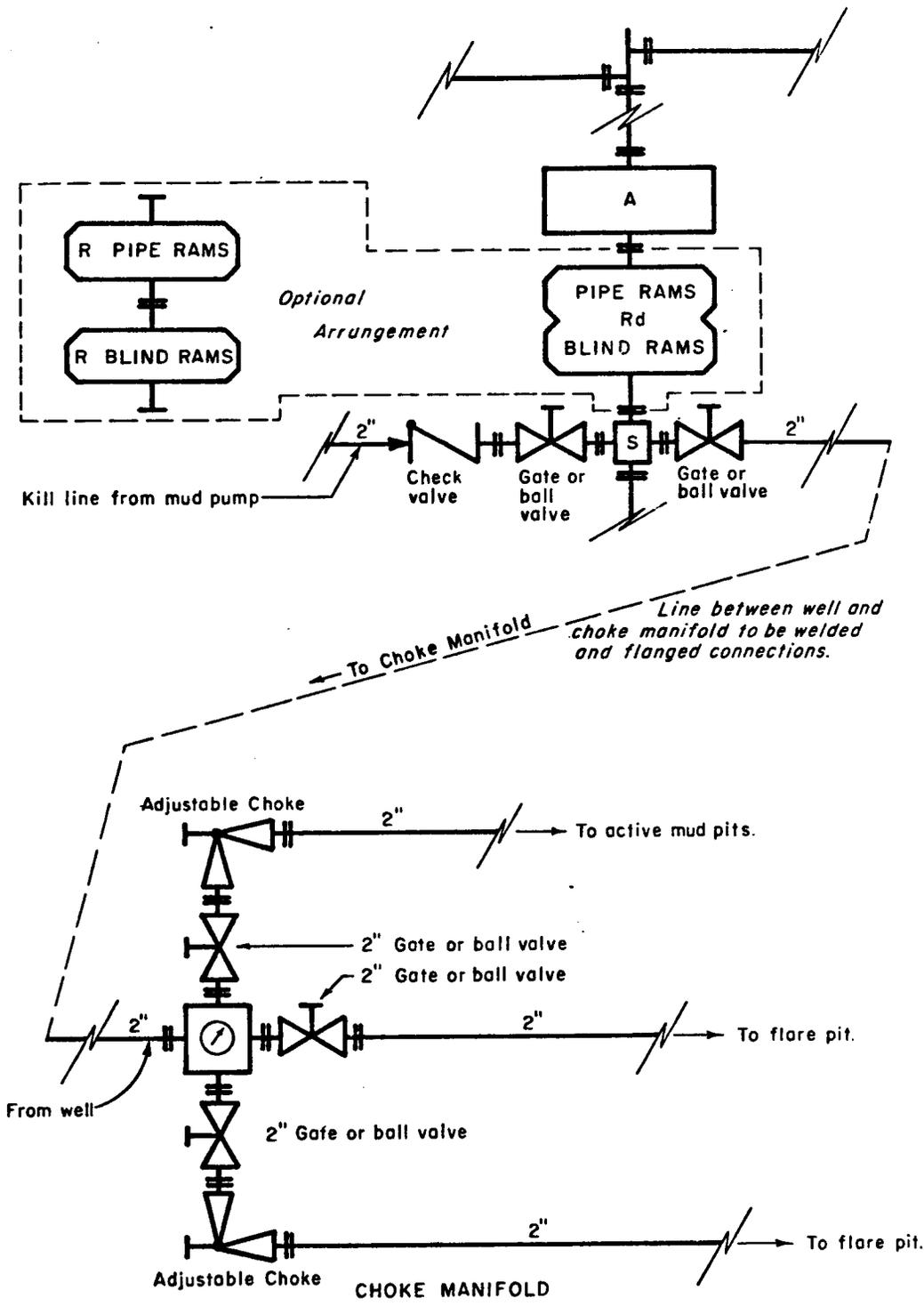
The yellow sheet of the IADC Report is to be filled out completely. The original copy of the drilling time recorder, and copies of any invoices from this well, signed and received for Tenneco Oil Company, will be mailed daily to:

TENNECO OIL COMPANY
ROCKY MOUNTAIN DIVISION
PENTHOUSE, 720 SOUTH COLORADO BOULEVARD
DENVER, COLORADO 80222

ATTENTION: Drilling Department

IN CASE OF EMERGENCY, NOTIFY THE FOLLOWING:

1. Mr. Don Barnes, Division Drilling Engineer.
2. Mr. John W. Owen, Project Drilling Engineer.
3. Mr. Mike Lacey, Division Production Manager (Home 303-979-0509).



- All equipment to be 3,000 psi working pressure except as noted.
- Rd Double ram type preventer with two sets of rams.
 - R Single ram type preventer with one set of rams.
 - S Drilling spool with side outlet connections for choke and kill lines.
 - A Annular type blowout preventer.

ARRANGEMENT B
TENNECO OIL COMPANY
ROCKY MOUNTAIN DIVISION
REQUIRED MINIMUM
BLOWOUT PREVENTER AND
CHOKER MANIFOLD
 J. MAGILL 10-26-79 EVI

** FILE NOTATIONS **

DATE: October 21, 1980
OPERATOR: Jenneco Oil Company
WELL NO: Long Camp State 16-4
Location: Sec. 16 T. 19S R. 23E County: Grand

File Prepared: Entered on N.I.D.:
Card Indexed: Completion Sheet:

API Number 43-019-30735

CHECKED BY:

Petroleum Engineer: _____

Director: Approved 10-24-80 as topo exception under Rule C-3(c), Jenneco controls all of Section 16.

Administrative Aide: _____

APPROVAL LETTER:

Bond Required: Survey Plat Required:
Order No. _____ O.K. Rule C-3
Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site
Lease Designation Plotted on Map
Approval Letter Written
Hot Line P.I.

October 27, 1980

Tenneco Oil Company
P. O. Box 3249
Englewood, Colorado 80155

Re: Well No. State 16-4
Sec. 16, T. 19S, R. 23E
Grand County, Utah

Insofar as this office is concerned, approval to drill the above referred to GAS well on said unorthodox location is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer
Office: 533-5771
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-019-30735.

Sincerely,

DIVISION OF OIL, GAS, AND MINING

L. B. Feight
Cleon B. Feight
Director

/ka
cc: Donald Prince



DEV. DRLG. P & A
 WC DRLG. CONST.
 RECOMPLETION

AFE NO. _____

FIELD GRAND COUNTY, UTAH LEASE LONG CANYON STATE 16-4 WELL NO. _____

DATE	DEPTH	DETAIL OF OPERATION	
03/14/81	3437	6 days from spud	Footage last 24 hours 1164
		AART: Drilling	OA: ---
		DMP @ SP (air) Mud Wt 8.3 Vis 40 PH 10 Bit #2 Sz 6 1/4 Type FDT	
		S/N AX7742 Jets open Ft 3037 Hrs 55 Cum Hrs 84 Ft/Hr 56.78 Bit #2	
		Wt on bit 8/10 RPM 70/80 GPM 1100 PSI 105 DP Sz 3 1/2 DC #16 OD	
		4 3/4 x 2 1/4 BHA Lngth 482.92 Eff Wt 21,500 Depth 2500 Angle	
		2 Depth 3023 Angle 3	daily Cumulative
		Drilling Cost	20,170 118,711
		Evaluation Cost	500 2,500
		Total Cost	60,670 121,211
03/15/81	3697	7 days from spud	Footage last 24 hours 260
		AART: TOH	OA: TFNB. Drill Hole wet work tight
		hole TOH. Drilling with air mist. Mud Wt 8.3 Vis 40 PH 10 Bit #2	
		Sz 6 1/4 Tyep FDT S/N AX7742 Jets open Depth out 3487 Ft 3087	
		Hrs 56 Cum Hrs 84 Ft/HR 36.75 Cond Dull T-5 B-7 G-1/4 Bit #3	
		Sz 6 1/4 Type J-33 S/N CS068 Jets open Ft 210 Hrs 7 Cum Hrs 91	
		Ft/HR 30 Bit #2/3 Wt on bit 8/10 RPM 70/80 PSI 125 DP Sz 3 1/2	
		DC #16 OD 4 3/4 x 2 1/4 BHA Lngth 482.92 Eff Wt 21,500 Depth 3457	
		Angle 2 3/4	Daily Cumulative
		Drilling Cost	5,371 123,375
		Evaluation Cost	500 3,000
		Total Cost	5,871 126,375

DEV. DRLG. P & A
 WC DRLG. CONST.
 RECOMPLETION _____

AFE NO. _____

FIELD GRAND COUNTY, UTAH LEASE LONG CANYON UNIT STATE 16-4 WELL NO. _____

DATE	DEPTH	DETAIL OF OPERATION	
03/21/81	4167	13 days from spud	Footage last 24 hours 99
		AART: Drilling	OA: Drilling break 4130-4137 11/min/ft
		4 min/ft. No gas increase. 3 units background. DMP @ SP Mud Wt 8.9	
		Vis 46 API WL 6 Solids 4.2 Gels 5/8 PV 18 YP 14 PH 8.5 Sand 1/4	
		API Cake 2/32 PV/YP Ratio 1.28 Cl ppm 5100 Ca ppm 80 Bit #5	
		Sz 6 1/4 Type F-4 S/N BN7258 Jets open Ft 304 Hrs 42 1/2 Cum Hrs	
		166 Ft/Hr 5.2 Bit #5 Wt on bit 15 RPM 60 Stroke Lngth 14	
		SPM 50 Liner 5 1/2 GPM 268 PSI 400 Ann Vel 211/343 DP Sz 3 1/2	
		DC #16 OD 4 3/4 x 2 1/4 BHA Lngth 482 Eff Wt 18,000 Daily Mud	
		Cost 1086 Cumulative Mud Cost 6957	Daily Cumulative
		Drilling Cost	7,591 164,589
		Evaluation Cost	500 6,000
		Total Cost	8,091 170,589
03/22/81	4273	14 days from spud	Footage last 24 hours 106
		AART: Drilling	OA; 80% Red Shale 18% Sand 2% Gr Shale
		DMP @ SP Mud Wt 9.2 Vis 49 API WL 14 Solids 6.5 Gels 8/20 PV 16	
		YP 10 PH 10.0 Sand 1/2 API Cake 2/32 PV/YP Ratio 1.6 Cl ppm 5,000	
		Ca ppm 100 Bit #5 Sz 6 1/4 Type F-4 S/N BN7258 Jets open Ft 410	
		Hrs 65 Cum Hrs 188 1/2 Ft/Hr 4.7 Bit #5 Wt on bit 15 RPM 60	
		Stroke Lngth 14 SPM 50 Liner 5 1/2 GPM 268 PSI 400 Ann Vel 211/	
		343 DP Sz 3 1/2 DC #16 OD 4 3/4 x 2 1/4 BHA Lngth 482 Eff	
		Wt 18,000 Daily Mud Cost 1333 Cumulative Mud Cost 8290	
		Drilling Cost	Daily Cumulative 7,835 172,424
		Evaluation Cost	500 6,500
		Total Cost	8,335 178,924

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

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.)

<p>1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/></p> <p>2. NAME OF OPERATOR Tenneco Oil Company</p> <p>3. ADDRESS OF OPERATOR P.O. Box 3249, Englewood, CO</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 949.2' FNL, 724.3' FWL</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. ML-27450</p> <p>6. IF INDIAN, ALLOTTED OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME</p> <p>8. FARM OR LEASE NAME Long Canyon Unit State</p> <p>9. WELL NO. 16-4</p> <p>10. FIELD AND POOL, OR WILDCAT Wildcat Entrada</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 16, T19S, R23E</p> <p>12. COUNTY OR PARISH 13. STATE Grand Utah</p>
<p>14. PERMIT NO.</p>	<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5231' gr.</p>	

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) <input type="checkbox"/>		(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.)*

03/19/81. Tenneco proposes to drill the above-referenced well to 4,800', another 300' deeper than was specified on the Application for Permit to Drill.

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING
DATE: 5-1-81
BY: M.S. Winder

18. I hereby certify that the foregoing is true and correct
SIGNED William H. Kugler TITLE Asst. Div. Adm. Mgr. DATE 03/23/81

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

**STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING**

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS <small>(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.)</small>		5. LEASE DESIGNATION AND SERIAL NO. ML-27450
1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Tenneco Oil Company		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P.O. Box 3249, Englewood, CO		8. FARM OR LEASE NAME Long Canyon Unit State
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 949.2' FNL, 724.3' FWL		9. WELL NO. 16-4
14. PERMIT NO.		10. FIELD AND POOL, OR WILDCAT Wildcat Entrada
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 5231' gr.		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 16, T19S, R23E
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		12. COUNTY OR PARISH 18. STATE Grand Utah

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REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	(Other) <input type="checkbox"/>	
<small>(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>			

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03/19/81. Tenneco proposes to drill the above-referenced well to 4,800', another 300' deeper than was specified on the Application for Permit to Drill.

**APPROVED BY THE DIVISION
OF OIL, GAS, AND MINING**
 DATE: 5-1-81
 BY: M. J. Munder

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

SIGNED William J. Hughto TITLE Asst. Div. Adm. Mgr. DATE 03/23/81

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:

MAR 27 1981

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

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. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. ML 27450	
2. NAME OF OPERATOR Tenneco Oil Company		6. IF INDIAN, ALLOTTED OR TRIBE NAME	
3. ADDRESS OF OPERATOR Box 3249, Englewood, CO 80155		7. UNIT AGREEMENT NAME Long Canyon Unit	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 949.2' FNL, 724.3' FWL		8. FARM OR LEASE NAME Long Canyon Unit	
14. PERMIT NO.		9. WELL NO. 16-4	
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 5231' gr.		10. FIELD AND POOL, OR WILDCAT Wildcat Entrada	
		11. SEC., T., R., M., OR BLE. AND SUBVY OR ABBA Sec 16, T19S, R23E	
		12. COUNTY OR PARISH Grand	13. STATE Utah

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Commence drilling operations</u> <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(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.)*

3/9/81. MIRURT. Spud well 9:00 A.M. 3/8/81. NU flow line. Drilling ahead. TOH to pick up bore hole drill collars, drill to 63', wet, could not drill w/air so went to airmist drill.

3/11/81. Drill to 400'. RU and run 10 jts (408.31') 7" 23# csg. w/shoe @ 397', float collar @ 355'. Cmt w/85 sx Class B w/3% CACL₂ and 1/4#/sk of Flocele. Circulate. Plug down. WOC. Pressure test well head to 1000 PSI. NUBOPS.

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

SIGNED [Signature] TITLE Asst. Div. Adm. Mgr. DATE 3/23/81

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:



DEV. DRLG. P & A
 WC DRLG. CONST.
 RECOMPLETION

AFE NO. _____

FIELD DOUGLAS CREEK ARCH LEASE LONG CANYON WELL NO. 16-4

DATE	DEPTH	DETAIL OF OPERATION
1981 4/3 cont'd		Released pkr & retrieved BP. POOH. RIH w/tbg & F nipple to 3500' to swb. Swbd dn csg. Had inflow of 200' between runs. SD 30 mins. Had 200' of inflow again. Made 1 swb run. SD 30 mins. Had 220' of inflow. Made 1 run. SDON. Daily Cost: \$5,848 Cum Cost: \$294,197
4/4/ PBTB 4364		AART: Rig up to frac.
TD 4412		OA: SICP 260 psi. SITP 20 psi. Made one swab run and found fluid at 3100'. Seating nipple at 3500'. Lowered seating nipple to 3870 and swabbed well down. Shut in 1 1/2 hrs. 50' inflow. Made one swab run. Shut in 2 hr. 50' inflow. Made one swab run. Shut in 2 hrs. 50' inflow. Made one swab run and shut well in. Csg pressure at shut in of 120 psi. SDON Daily Cost: \$1,325 Cum Cost: \$295,522
4/5		AART: Shut down for Sunday. OA: SICP 220 psi. Slight blow on tbg. Made one swab run and hit gas. Cut fluid at 500' above seating nipple. Swabbed an estimated 2 bbls. Well flowed gas for 20 mins. and died. Pulled tbg to 3100' for frac. Frac'd Dakota w/30, 240 gal foam and 35,700 #20/40 sand at 12 BPM with 2000 psi on csg & 2650 psi on tbg. Casing ISIP 1900 psi. 15 min. SIP. 1400 psi. Opened well to pit after 1 hr. SDON. Daily Cost: \$29,681 Cum Cost: \$325,203
4/6		AART: Swabbing OA: Shut down for Sunday. Well open to pit. Check at 10:30 a.m. and well had a slight gas blow and unloading some wtr to pit. Daily Cost: \$225 Cum Cost \$325,428

- DEV. DRG. P & A
 WC DRG. CONST.
 RECOMPLETION

AFE NO. _____

FIELD DOUGLAS CREEK ARCH LEASE LONG CANYON WELL NO. 16-4

DATE	DEPTH	DETAIL OF OPERATION
1981 4/7	PBTD 4364	AART: Swabbing.
	TD 4412	OA: Well dead on tbg. IFL 2000'. Casing pressure 200 psi. Blow down casing and lower tubing at 3593. Estimate by pit volume that 140 bbls of 180 bbl load flowed back after frac. Made 7 swab runs and well started flowing. Gas hard to light. Well flowed 15 min. and died. Made another swab run and recovered 1/2 bbl and well flowed 15 min. and died. Csg pressure 80 psi. Made one swab run and recovered no fluid. Wait one hr and made one run and recovered no fluid. Slight blow on tbg and csg pressure 80 psi. Gas would not burn without a constant supply of flame. Wait 2 hrs. and made another swab run. Recover at most .2 of bbl and wellhead slight flow and csg pressure 80 psi. Shut in well and SDON. Total swab recovery estimated at 14 bbls.
		Daily Cost: \$1,425 Cum Cost: \$326,853
4/8	PBTD 4364	AART: Swabbing.
	TD 4412	OA: SICP 430. SITP 350. Flowing tbg to pit and unload 1 bbl oil and 1 bbl wtr. Flow for 30 min. and csg pressure dropped to 100 psi. Make one swab run and well is dry. Wait 1 3/4 hr. and make one swab run. Recovered approx. .2 bbl Wait one hr and make one run and recover .2 of bbl. Place on test with 1/4" orifice with 13 psig flowing tubing pressure. Rate is 38 MCFPD with csg pressure of 80 psi. After 1 hr. rate dropped to 29 MCFPD with a flowing tubing pressure of 7 psig. Make one swab run and recover .2 of bbl. Wait 2 hrs and make one swab run and recover approx. 0.2 of barrel. Csg pressure 80 psi. SDON.
		Daily Cost: \$1,425 Cum Cost: \$328,278

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

ML-27450

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.)

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Long Canyon Unit State

9. WELL NO.

16-4

10. FIELD AND POOL, OR WILDCAT

Wildcat Entrada

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

Sec 16 T19S R23E

12. COUNTY OR PARISH 13. STATE

Grand

Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
Box 3249 Englewood, Colorado 80155

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface 949.2' FNL 724.3' FWL

14. PERMIT NO.

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

5231' gr

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)

FULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

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.)*

- 3/25/81. Logging TIH. Circ and condition hole. POOH. Laid down drill pipe.
- 3/26/81. RU and run 98jts of 4½" 10.5# csg. Landed @ 4404' KB. Cmt w/230sx. Class-H w/10% THC-60, 10% salt, 3% KCL and .5% NFR-1.
- 3/13/81. MIRUSU. RIH w/2-3/8" tbg and 3-3/4" bit. Tagged cmt @ 4364'. Circ'd hole w/2% KCL water. Pressure test csg to 4000PSI. Tested OK. Swabbed down to 3100'. POOH w/tbg and bit
- 4/2/81. RU and perf'd Dakota 3581-86, 3434-39', RIH w/pkr and bridge plug and isolate perfs 3581-86'. Pumped 250 gals 7½% MSR acid and 15 balls sealers. Balled off to 4000PSI. ISIP: 1400PSI Release pkr and moved down hole to engage bridge plug. Latched onto BP. POOH.
- 4/3/81. RIH w/pkr and new bridge plug to isolate perfs 3434-39'. Spotted 250 gals 7½% MSR acid and 15 ball sealers. Rate: 1½ BPM @ 3400PSI. ISIP: 700PSI. Released pkr and retrieved bridge plug. POOH RIH w/tbg and F nipple to 3500. Swabbed down csg. Had inflow. Shut well in at CP of 120PSI.
- 4/5/81. SICP: 220PSI. slight blow on tbg. Made 1 swab run and bit gas cut fluid @ 500' above SN, swabbed 2bbls. Well flowed gas and died. Pulled tbg to 3100' for frac. Frac'd Dakota w/ 30,240 gals 70% quality and 35,700# 20/40 sand @ 12 BPM w/2100 PSI on csg and 2650PSI on tbg. Csg. ISIP: 1900PSI, 15 mins SIP: 1400PSI opened well to pit after 1 hr.

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

SIGNED

Carol J. Williams

TITLE Asst. Div. Adm. Mgr.

DATE April 16, 1981

(This space for Federal or State office use)

APPROVED BY

E. W. Gynn

TITLE

FOR E. W. GYNN
DISTRICT ENGINEER

DATE APR 28 1981

oper.



OIL, GAS, AND MINING BOARD

SCOTT M. MATHESON
Governor

CHARLES R. HENDERSON
Chairman

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

JOHN L. BELL
C. RAY JUVELIN
THADIS W. BOX
MAXILIAN A. FARBMAN
EDWARD T. BECK
E. STEELE McINTYRE

CLEON B. FEIGHT
Director

October 14, 1981

Long Canyon Un. 16-4
16-195-23E
Grand

Tenneco Oil Company
P. O. Box 3249
Englewood, CO 80155

NOV 09 1981

Re: See Attached Sheet

DIVISION OF
OIL, GAS & MINING

Gentlemen:

Our records indicate that you have not filed the monthly drilling reports for the months indicated above on the subject wells.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1B, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS, AND MINING

Terri Reid

TERRI REID
CLERK TYPIST

Enclosure

RECEIVED

OCT 19 1981

TENNECO OIL CO.
DENVER

Well No. Federal #33-15
Sec. 33, T. 16S, R. 24E
Grand County, Utah
(September 1980 Thru September 1981)

Well No. State #16-4 ✓
Sec. 16, T. 16S, R. 26E
Grand County, Utah
(September 1980 Thru September 1981)

Well No. Long Canyon Unit State #16-4
Sec. 16, T. 19S, R. 23E
Grand County, Utah
(April 1981 Thru September 1981)

NOV 09 1981

8 MINN.

**STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING**

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

<p>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.)</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. ML 27450</p>
<p>1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER</p>		<p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p>
<p>2. NAME OF OPERATOR Tenneco Oil Company</p>		<p>7. UNIT AGREEMENT NAME</p>
<p>3. ADDRESS OF OPERATOR Box 3249 Englewood, Colorado 80155</p>		<p>8. FARM OR LEASE NAME Long Canyon Unit State</p>
<p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 949.2' FNL 724.3' FWL</p>		<p>9. WELL NO. 16-4</p>
<p>14. PERMIT NO.</p>		<p>10. FIELD AND POOL, OR WILDCAT Wildcat Entrada</p>
<p>15. ELEVATIONS (Show whether SP, NT, OR, etc.) 5231' gr.</p>		<p>11. SEC., T., R., M., OR BLK. AND SUBST OR ARRA Sec 16 T19S R23E</p>
<p>16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data</p>		<p>12. COUNTY OR PARISH 13. STATE Grand Utah</p>

RECEIVED
NOV 09 1981
DIVISION OF OIL, GAS & MINING

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDISE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(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.)*

4/8/81. Due to low production potential Tenneco has shut-in the above referenced well pending further evaluation to plug and abandon or other beneficial use.

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

SIGNED <u><i>[Signature]</i></u>	TITLE <u>Asst. Div. Adm. Mgr.</u>	DATE <u>April 16, 1981</u>
(This space for Federal or State office use)		
APPROVED BY <u><i>[Signature]</i></u>	FOR <u>E. W. GUYNN</u> DISTRICT ENGINEER	DATE <u>APR 28 1981</u>

CONDITIONS OF APPROVAL, IF ANY:

Open

DIVISION OF OIL, GAS AND MINING

PLUGGING PROGRAM

NAME OF COMPANY: Tennaco

WELL NAME: Unit State 16-4

SECTION 16 TOWNSHIP 19S RANGE 23E COUNTY Grand

VERBAL APPROVAL GIVEN TO PLUG AND ABOVE REFERRED TO WELL IN THE FOLLOWING MANNER:

TOTAL DEPTH: 4412 - 4264' PBTD

CASING PROGRAM:

FORMATION TOPS:

7', 23# @ 397' circ. to surf 85 sx.
4 1/2" 10.5# @ 4404' (230 sx TOC 3290')
Perf. 3581 - 3586'
3434 - 3439'

Macos	2390' - 2440'
Dakota	3500' - 3715'
Morrison	3910' - 4020'
Entrada	4270' - TD

PLUGS SET AS FOLLOWS:

1. 3334' cmt. ret. 75 sxs.
50 sxs. into perfs.
2. 3190' part casing @ 3290' - 3090'
3. 2500' - 2300' 50 sx.
4. 500 - 300'
5. 100' - surface

The interval between plugs shall be filled with a 9.2#, 50 vis. fresh water gel based mud; erect regulation dryhole marker; clean up, grade and restore the location ; and notify this Division when the location is prepared for inspection.

DATE 11-20-81

SIGNED MTM

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SEE IT IN TRIPLICATE*
(Other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.
ML-27450

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Long Canyon Unit State

9. WELL NO.
16-4

10. FIELD AND POOL, OR WILDCAT
Wildcat Entrada

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 16, T19S R23E

12. COUNTY OR PARISH
Grand

13. STATE
Utah

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
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 949.2' FNL 724.3' FWL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, OR, etc.)
5231' gr.

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(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.)*

12/2/81 - Tenneco proposes to plug and abandon the above referenced well in accordance with the attached detailed procedures.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 12-29-81
BY: Original Signed by C. B. Feight

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

SIGNED Saundra Peron TITLE Production Analyst DATE 12/2/81

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

WELL NO. 16-2

7 "OD, 23 LB, CSG.W/ 85 SX
 TOC @ surface

4-1/2 "OD, 10.5 LB, CSG.W/ 230 SX
 TOC @

DETAILED PROCEDURE

1. MIRUSH. Kill well if necessary. Remove WH & install BOPE.
2. POOH w/tbg.
3. PU a cmt ret for 4-1/2", 10.5# csg. RIH to 3334' & set. Load annulus w/wtr & PT ret to 500 psig. PU on tbg & test tbg to 2000 psig. Sting out of ret & est. reverse circ. Sting into ret & est. rate into perfs.
4. Pmp 75 sxs Class "H" w/.4% Halad 9. Pmp until 1500 psig is encountered or 1 bbl cmt is left in tbg. At 1 bbl cmt left to displace, sting out of retainer & reverse tbg clean. Displace hole w/10 ppg mud. POOH w/tbg.
5. MIRUWL. RIH to 3190' & cut csg w/WL chemical cutter for 4-1/2", 10.5# csg. TOC @3290'.
6. RU csg crew. POOH. Break out & lay dn 4-1/2".
7. PU 2-3/8" tbg open ended & RIH to 100' below csg stub & spot a 200' cmt plug (35 sxs) across the stub. PUH to 2500' & spot a 200' plug (50 sxs) across Mancos.
8. PUH w/tbg to 500' (base of 7" surface @397') & spot a 200' plug across the base of the 7" surface using 50 sxs Class "H".
9. PUH w/tbg to 100' & circ cmt to surface. POOH w/tbg.
10. Place 4" P&A marker @ surface stating well name, number, section, township & range & date P&A'd.
11. Remove all equip & haul to TOC yard. Fill in all pits & restore location to original.

STATE OF UTAH
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL, GAS, AND MINING

5. LEASE DESIGNATION AND SERIAL NO. ML-27450
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME Long Canyon Unit
9. WELL NO. 16-4
10. FIELD AND POOL, OR WILDCAT Wildcat Entrada
11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA Sec. 16, T19S, R23E
12. COUNTY OR PARISH Grand
13. STATE Utah

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 <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> 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 949.2 FNL, 724.3 FWL
14. PERMIT NO.
15. ELEVATIONS (Show whether DF, ST, OR, etc.) 5231' gr.

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(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.)*

12/2 - OA: MIRUSU, NDWH, NUBOP. Tallyed out of hole w/tbg. RIH to 3334' Set cmt retainer. PT csg. to 1000 psi. PT tbg. to 2000 psi. Stung out of retainer. Established reverse circ. Stung into retainer.

12/3 - OA: Established rate into perfs 3 BPM @1500 psi. Pmpd 75 sxs Class G cmt w/.4% Halad 9 @3 BPM & 2200 psi. Pmpd until 1 bbl. left in tbg. Stung out of retainer. Reverse circ'd tbg clean. Displaced hole w/10 ppg mud. POOH w/tbg. NDBOP, NDWH. MIRUWL. RIH to 3190'. Cut csg. w/jet cutter. Unable to pull csg. RIH w/freepoint. Csg. free @2700'

12/4 - OA: RIH w/freepoint tool. Csg. free @2775'. POOH w/freepoint. RIH w/jet cutter. Cut csg. @2775'. MIRU csg crew. POOH w/csg. Picked up 2-3/8" tbg & RIH to 2875' Spotted 200' plug w/50 sxs. PUH w/tbg. to 500' Spotted 200' plug, 50 sxs. PUH to 100', pmpd cmt to surface. POOH w/tbg. Placed P&A marker.

APPROVED BY THE STATE
 OF UTAH DIVISION OF
 OIL, GAS, AND MINING
 DATE: 12/14/81
 BY: CB Feybert

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

SIGNED [Signature] TITLE Production Analyst DATE 12/7/81

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:

OIL & GAS CONSERVATION COMMISSION

4

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

5. LEASE DESIGNATION AND SERIAL NO.
ML-27450

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Long Canyon Unit

9. WELL NO.
16-4

10. FIELD AND POOL, OR WILDCAT
Wildcat Entrada

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 16, T19S, R23E

12. COUNTY OR PARISH
Grand

13. STATE
Utah

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other plug & abandon

2. NAME OF OPERATOR
Tenneco Oil Company

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 949.2' FNL, 724.3 FWL

At top prod. interval reported below

At total depth

NW NW

14. PERMIT NO. 43-019-30735 | DATE ISSUED 10-24-80

15. DATE SPUDDED 3/8/81 | 16. DATE T.D. REACHED 3/26/81 | 17. DATE COMPL. (Ready to prod.) P&A'd 12/4/81 | 18. ELEVATIONS (DF, RKB, RT, GB, ETC.)* 5231' gr. | 19. ELEV. CASINGHEAD --

20. TOTAL DEPTH, MD & TVD 4412' | 21. PLUG, BACK T.D., MD & TVD 4364' | 22. IF MULTIPLE COMPL., HOW MANY* -- | 23. INTERVALS DRILLED BY ROTARY TOOLS 0'-TD | CABLE TOOLS --

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 3434'-3586' Dakota | 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN CBL, GR, DI-SFL *misc* | 27. WAS WELL CORED No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
7"	23#	397'	8-3/4"	85 sx CL-B w/3% CACL, & 1/4# sk flocele.	
4-1/2"	10.5#	4404'	6-1/4"	230 sx CL-H w/additives	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number) 3434'-3586'

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3434'-3586'	Acidize w/250 gals 7 1/2% MSR acid & 15 balls slrs. Frac'd Dakota w/240 gals 70% quality & 35.700# 20/40 sand.

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY

35. LIST OF ATTACHMENTS
Electric logs to be forwarded by Schlumberger.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED [Signature] TITLE Production Analyst DATE 12/7/81

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Nacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Spud in Mancos Shale	3434'	3577'	<p style="text-align: center;">37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES</p>
Dakota Silt	3577'	3706'	
Dakota Sandstone	3706'	4223'	
Morrison	4223'	TD	
Entrada			

NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH
38. GEOLOGIC MARKERS		



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

January 13, 1982

Tenneco Oil Company
P. O. Box 3249
Englewood, Colorado 80155

Re: Well No. Rattlesnake Canyon Unit #2-12
Sec. 2, T. 19S, R. 19E
Grand County, Utah

Well No. State #14-4
Sec. 14, T. 19S, R. 20E
Grand County, Utah

Well No. Long Canyon State #16-4
Sec. 16, T. 19S, R. 23E
Grand County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office December 17, 1981, from above referred to wells, indicates the following electric logs were run: Sonic, CBL, DI-- #14-4, GR, CBL, CCL, VDL-- #16-4, CBL, GR, DI-SFL. As of todays date, this office has not received these logs: #2-12, CBL-- #14-4, CBL, CCL, VDL-- #16-4. CBL.

Rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires that a well log shall be filed with the Commission together with a copy of the electric and radioactivity logs.

Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cari Furse
Clerk Typist