

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 Tenneco Oil Company

3. ADDRESS OF OPERATOR
 720 So. Colorado Blvd., Denver, Colorado 80222

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface 2370.2 FNL, 1746.5 FWL (1747' FWL) SE NW
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 1746.5

16. NO. OF ACRES IN LEASE
 240

17. NO. OF ACRES ASSIGNED TO THIS WELL
 320

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH
 6500

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 7064

22. APPROX. DATE WORK WILL START*
 Sept./Oct. 1980

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 3/4"	7" new	23# K55	±2200'	Circulate to surface
6 1/4"	4 1/2" new	10.5# K55	±6500'	Cover all possible productive zones.

See attached.

Spaced under Cause 165-4 ←

Archaeological survey requested.

Pre-stake attached (requested as 11-4)

APPROVED BY THE DIVISION
OF OIL, GAS, AND MINING

DATE: 10/25/80

BY: *CB Feight*

*Hogle 11-12
1775 FSL
710 FNL
Hennings*

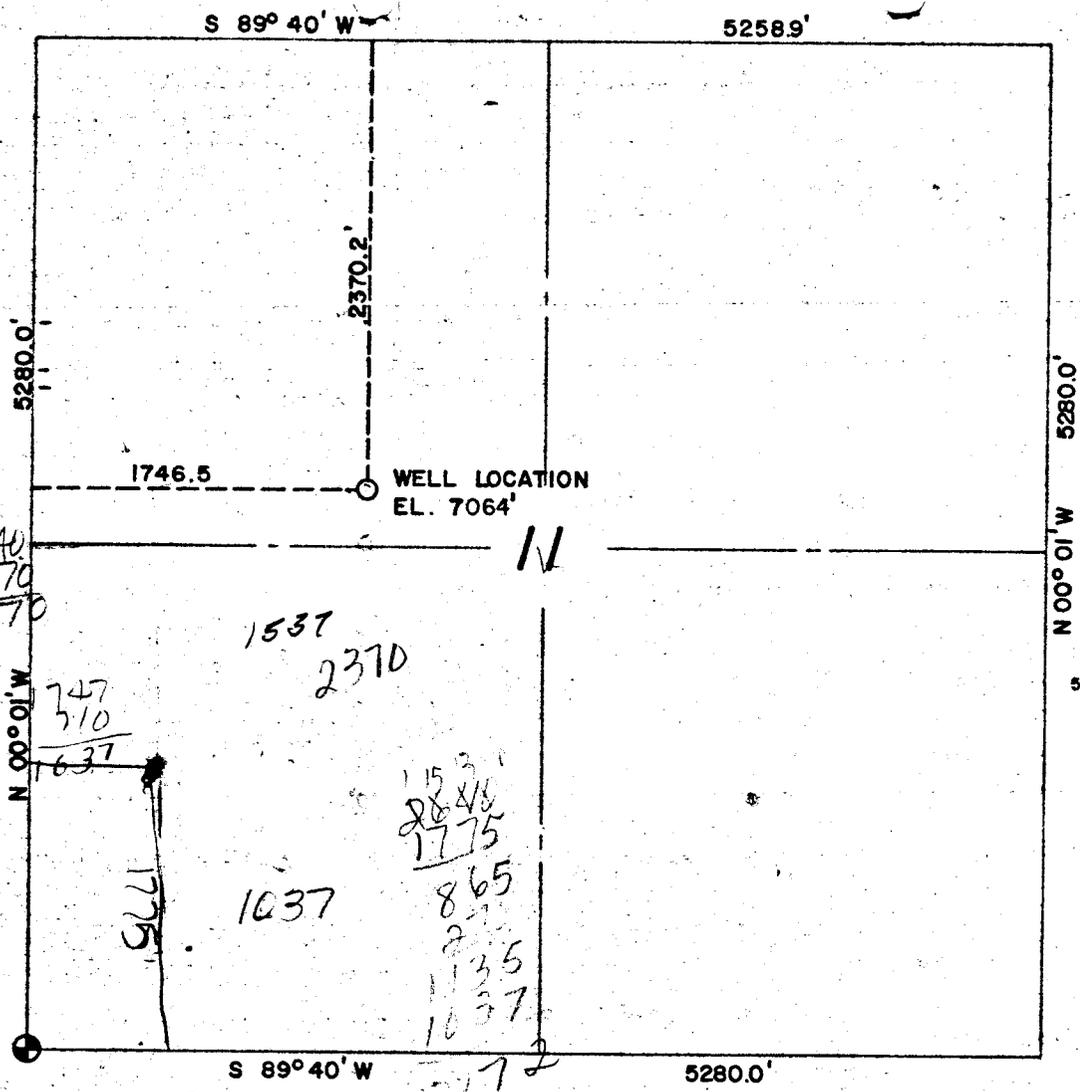
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer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

24. SIGNED *M. L. Freeman* TITLE Staff Production Analyst DATE September 23, 1980

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

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



2840
2370
270

N 00° 01' W

747
510
1637

1775

1537
2370

1037

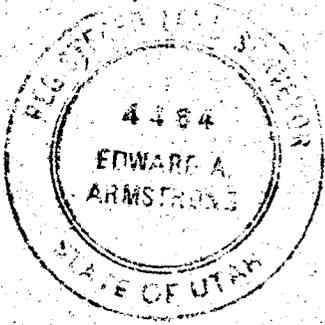
115
284
1775
865
2
1135
1037

WELL LOCATION
 2370.2 FT. S.N.L. - 1746.5 FT. E.W.L.
 SECTION II, T.17 S., R.24 E., S.L.B. & M.
 GRAND COUNTY, UTAH

SURVEYOR'S CERTIFICATE

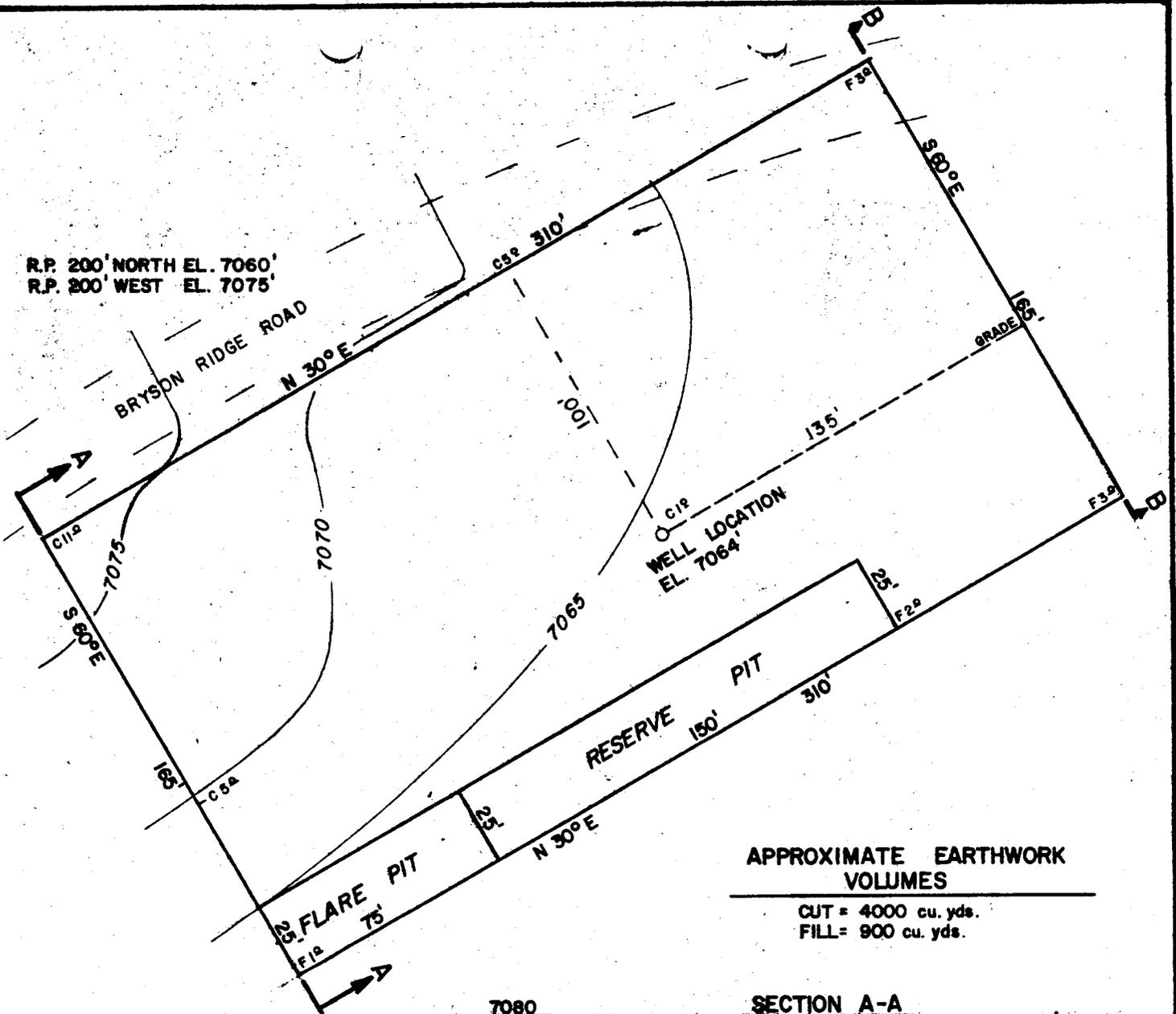
I, Edward A. Armstrong, a registered land surveyor in the State of Utah, do hereby certify that this survey was made under my direct supervision and that this plat represents said survey.

Edward A. Armstrong
 EDWARD A. ARMSTRONG P.E. & L.S. 4464



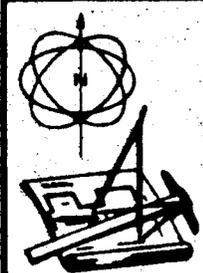
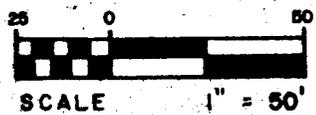
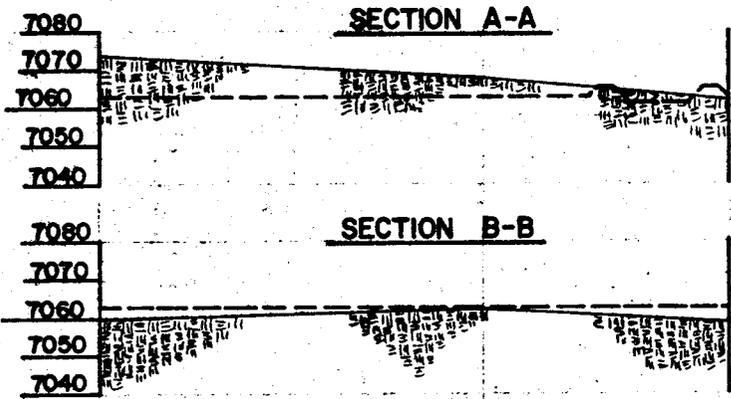
	ARMSTRONG ENGINEERS and ASSOCIATES, INC. ENGINEERING • SURVEYING • SOILS AND CONCRETE TESTING 861 ROOD AVENUE - GRAND JUNCTION, COLORADO 81501 - (303) 245-3861	
	SCALE: 1" = 1000'	TENNECO OIL CO.
	DATE: 9/15/80	USA 11-6
	DRAWN BY: SZH	SHEET 1 of 5
	CHECKED BY: EAA	
DATE OF PLOTTING: 9/10/80		
JOB NUMBER: 802992		

R.P. 200' NORTH EL. 7060'
R.P. 200' WEST EL. 7075'



APPROXIMATE EARTHWORK VOLUMES

CUT = 4000 cu. yds.
FILL = 900 cu. yds.



ARMSTRONG ENGINEERS and ASSOCIATES, INC.
ENGINEERING • SURVEYING • SOILS AND CONCRETE TESTING
861 ROOD AVENUE - GRAND JUNCTION, COLORADO 81501 - (303) 245-3861

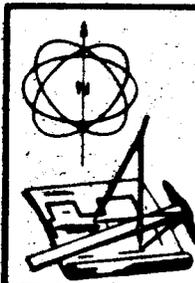
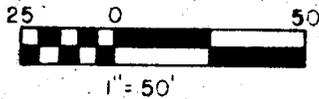
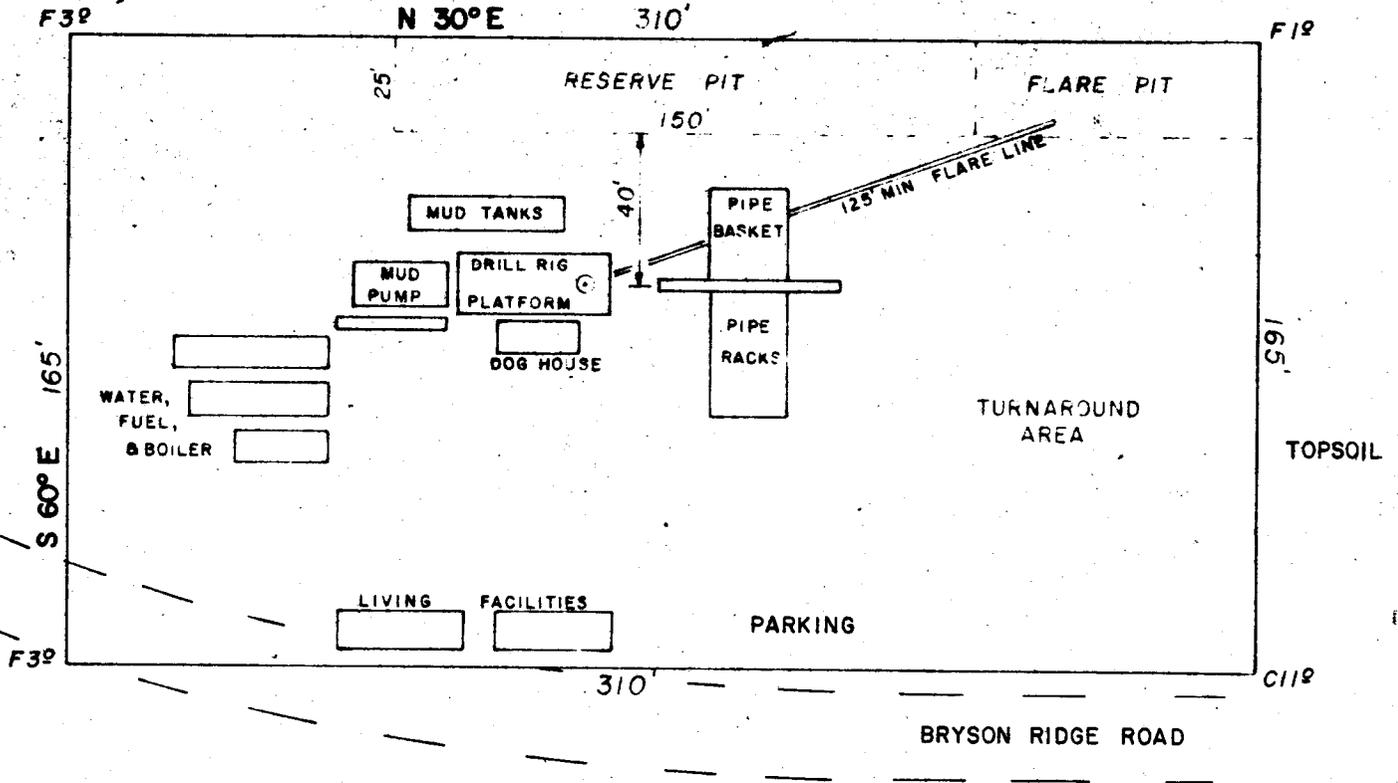
SCALE 1" = 50'
DATE 9/15/80
DRAWN BY SZH
CHECKED BY E.A.A.
DATE 9/10/80

TENNECO OIL CO.
USA 11-6

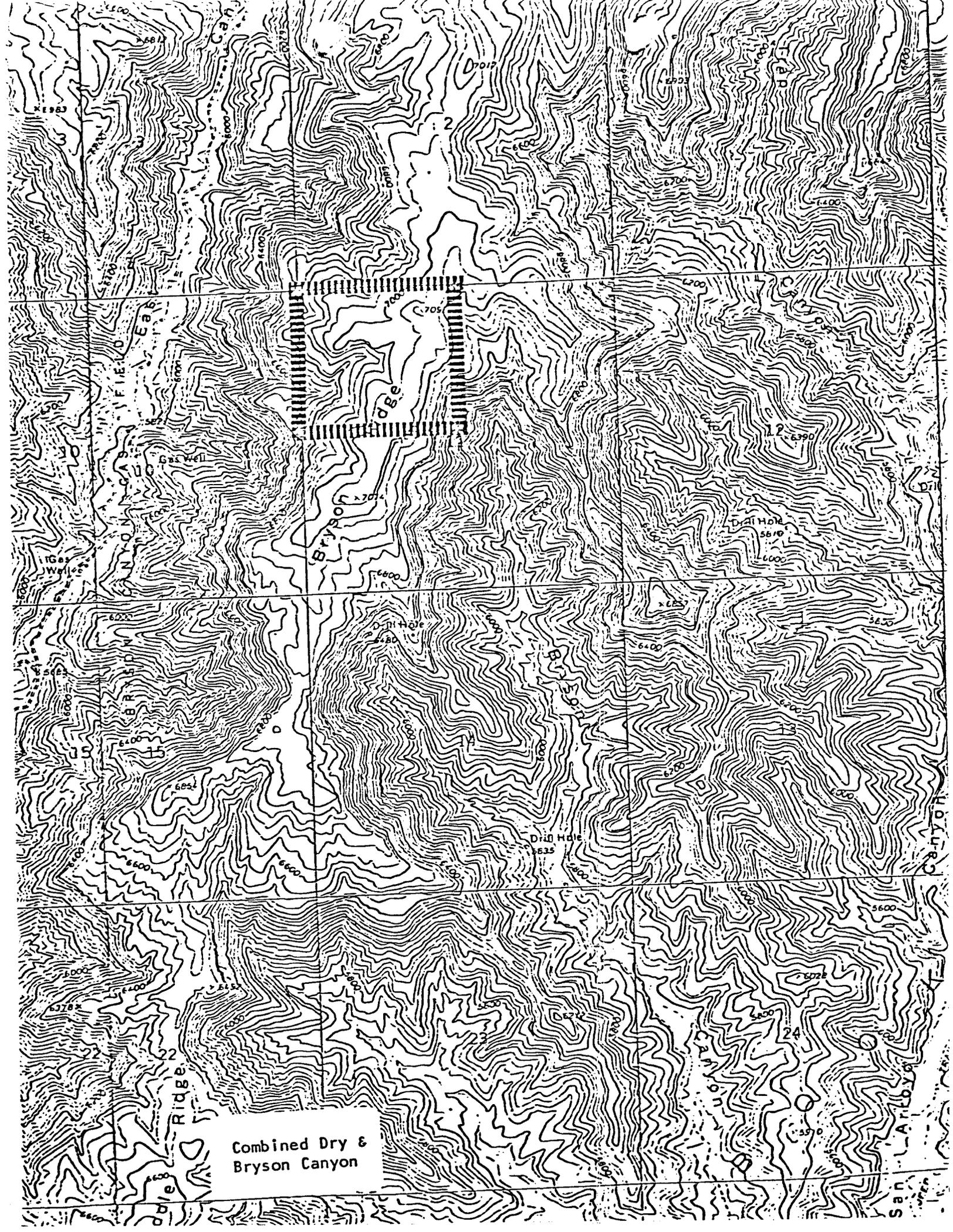
SHEET 2 of 5

JOB NUMBER 802992

RIG LAYOUT



ARMSTRONG ENGINEERS and ASSOCIATES, INC. ENGINEERING • SURVEYING • SOILS AND CONCRETE TESTING 861 ROOD AVENUE • GRAND JUNCTION, COLORADO 81501 - (303) 245-3861	
SCALE 1" = 50' DATE 9/16/80 DRAWN BY SZH CHECKED BY DATE OF ISSUE 9/10/80	TENNECO OIL USA II-6
SHEET 3 of 5	JOB NUMBER 802992



Combined Dry & Bryson Canyon

** FILE NOTATIONS **

DATE: October 10, 1980
OPERATOR: Jenneco Oil Co.
WELL NO: USA 11-6
Location: Sec. 11 T. 17S R. 24E County: Grand

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

API Number 43-019-30726

*Mr. Carr
Must include
by however...*

CHECKED BY:

Petroleum Engineer: _____
*There is a well permitted for 5 1/2 of section the Regs. #11-12
Lee Freeman will obtain consent from affect lands for N 1/2 location 12-15-80*
Director: *OK as per order issued in Cause 165-4 JLD
June 28, 1979 but drilling unit must consist of W 1/2
(at least 200) because well would not be 500' from
unit holding orthonose*
Administrative Aide: *OK per spacing order*

APPROVAL LETTER:

Bond Required: Survey Plat Required:
Order No. 165-4 6/26/79 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 Fed Plotted on Map
Approval Letter Written
Hot Line P.I.

October 17, 1980

Tenneco Oil Company
720 So. Colorado Blvd.
Denver, Colorado 80222

Re: Well No. USA 11-6
Sec. 11, T. 17S, R. 24E
Grand County, Utah

Insofar as this office is concerned, approval to drill the above referred to gas well is hereby granted in accordance with the Order issued in Cause No. 165-4 dated June 26, 1979. **

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 43-019-30726.

**Said approval is contingent that drilling unit must consist of $N\frac{1}{2}$ (stand up) because well would not be 500' from unit boundary otherwise.

Sincerely,

DIVISION OF OIL, GAS, AND MINING

Cleon B. Feight /ka

Cleon B. Feight
Director

/ka
cc: USGS

Tenneco Oil
Exploration and Production
A Tenneco Company



Rocky Mountain Division

P.O. Box 3249
Englewood, Colorado 80155
(303) 740-4800

Delivery Address:
6061 South Willow Drive
Englewood, Colorado

December 15, 1980

Mr. Michael T. Minder
State of Utah Division of Oil & Gas
1588 West North Temple
Salt Lake City, Utah 84116

Re: Tenneco USA 11-6
2370.2 FNL, 1746.5 FWL
Sec. 11, T17S, R24E
Grand County, Utah

Dear Mr. Minder:

The request is submitted in accordance with the order issued in Cause No. 165-4 dated June 26, 1979 Page 5 Part 3. We respectfully request approval of the referenced unorthodox location with a N $\frac{1}{2}$ drilling unit. The existing topography in the E $\frac{1}{2}$ of the section is very uninviting to drilling operations. A letter of concurrence from our partners in the S $\frac{1}{2}$ of said section will be forwarded as soon as received.

Yours very truly,

TENNECO OIL COMPANY

A handwritten signature in cursive script that reads "M. L. Freeman".

M. L. Freeman
Staff Production Analyst



MLF/rr
Encls.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
OIL WELL GAS WELL OTHER
SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
720 So. Colorado Blvd., Denver, Colorado 80222

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 2370.2 FNL, 1746.5 FWL
At proposed prod. zone

DUPLICATE

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15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any)
1746.5

16. NO. OF ACRES IN LEASE
240

17. NO. OF ACRES ASSIGNED TO THIS WELL
320

15. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH
6500

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
7064

22. APPROX. DATE WORK WILL START*
Sept./Oct. 1980

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 3/4"	7" new	23# K55	±2200'	Circulate to surface
6 1/4"	4 1/2" new	10.5# K55	±6500'	Cover all possible productive zones.

See attached.

Spaced under Cause 165-4.

Archaeological survey requested.

Pre-stake attached (requested as 11-4)

RECEIVED

DEC 22 1980

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 M. L. Freeman TITLE Staff Production Analyst DATE September 23, 1980

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY W. W. Mottus TITLE FOR E. W. GUYNN DISTRICT ENGINEER DATE DEC 19 1980
CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

NOTICE OF APPROVAL

*See Instructions On Reverse Side

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A DATED 1/1/80

State Oil & Gas

United States Department of the Interior
Geological Survey
Oil and Gas Operations
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator/Project Name TENNECO USA 11-6

Project Type WILDCAT GAS TEST (UNIT OBLIGATION WELL)

Project Location 2370.2' FWL, 1746.5' FWL, SEC. 11, T17S, R24E, GRAND CO., UTAH

Date Project Submitted SEPTEMBER 26, 1980

FIELD INSPECTION

Date NOVEMBER 6, 1980

Field Inspection
Participants

- BOB MISHLER - TENNECO
- BILL AND MIKE BUNIGER - DIRT CONTRACTOR
- ELMER DUNCAN - BLM
- GLENN DOYLE- USGS

I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.

NOVEMBER 26, 1980
Date Prepared

Glenn M. Doyle
Environmental Scientist

I concur

12/11/80
Date

Ed Lyman
District Supervisor

Rec 12/11/80

COMMON REFERENCE LIST

NEPA Categorical Exclusion Review

1. SMA Input
2. Reviews, reports, or information received from Geological Survey (CD, GD, WRD, TD).
3. Lease Stipulations/Terms
4. Application to Drill
5. Operator correspondence
6. Field observation
7. Private Rehabilitation Agreement

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

Criteria 516 DM 2.3.A	Federal/State Agency			Local and private correspondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
	Corre- spondence (date)	Phone check (date)	Meeting (date)						
1. Public health and safety					1,2			11/6/80	
2. Unique charac- teristics					1,2				
3. Environmentally controversial					1,2				
4. Uncertain and unknown risks						4			
5. Establishes precedents					1,2				
6. Cumulatively significant							6		
7. National Register historic places	1-11/21/80								
8. Endangered/ threatened species	1-11/21/80								
9. Violate Federal, State, local, tribal law						4			3

FROM: : DISTRICT GEOLOGIST E, SALT LAKE CITY, UTAH

TO : DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-13371

OPERATOR: Tenneco Oil Co.

WELL NO. 11-6

LOCATION: SW 1/4 SE 1/4 NW 1/4 sec. 11, T. 17S., R. 24E, SLM
Grand County, Utah

1. Stratigraphy: Operator tops seem reasonable

Mesaverde	surface		
Mancos	1830'		
Castlegate	2080'	Morrison	5825'
Frontier	5345'	Salt Wash	6250'
Dakota Silt	5600'		
Dakota	5710'		

2. Fresh Water:

Fresh water is probable in the Mesaverde. The Castlegate may flow with fresh to useable water. The proposed 2200' surface casing is adequate to protect Castlegate.

3. Leasable Minerals:

Probable coal in the Mesaverde 1250' to 1650'.
(Coal is in Neslen Facies of Price River Member (Formation)).

4. Additional Logs Needed:

Log of cuttings is required through coal zone (1250' to 1650')

5. Potential Geologic Hazards: None expected

6. References and Remarks:

Signature: Gregory W. Wood

Date: 10 - 25 - 80

05 NOV 1980 REC'D

Memorandum

To: District Oil and Gas Engineer, *Glenn* Mr. Edward Guynn

From: Mining, Supervisor, Mr. Jackson W. Moffitt

Subject: Application for Permit to Drill (form 9-331c) Federal oil and gas lease No. U-13371 Well No. 11-6

1. The location appears potentially valuable for:
 - strip mining*
 - underground mining** *coal*
 - has no known potential.

2. The proposed area is
 - under a Federal lease for _____ under the jurisdiction of this office.
 - not under a Federal lease under the jurisdiction of this office.

3. Please request the operator to furnish resistivity, density, Gamma-Ray, or other appropriate electric logs covering all formations containing potentially valuable minerals subject to the Mineral Leasing Act of 1920.

*If location has strip mining potential:

Surface casing should be set to at least 50 feet below the lowest strip minable zone at _____ and cemented to surface. Upon abandonment, a 300-foot cement plug should be set immediately below the base of the minable zone.

**If location has underground mining potential:

The minable zones should be isolated with cement from a point 100 feet below the formation to 100 feet above the formation. Water-bearing horizons should be cemented in like manner. Except for salines or water-bearing horizons with potential for mixing aquifers, a depth of 4,000 feet has been deemed the lowest limit for cementing.

Signed *Allen J. Vance*

05 NOV RECD



United States Department of the Interior

IN REPLY REFER TO

3109
(U-603)

BUREAU OF LAND MANAGEMENT
Moab District
Grand Resource Area
P. O. Box M
Moab, Utah 84532

November 19, 1980

Memorandum

To: Oil & Gas Office, USGS Conservation Division,
P.O. Box 3768, Grand Jct., CO 81501

From: Acting Area Manager, Grand

Subject: Tenneco Oil Company
Tenneco USA 11-6, Lease U-13371
SE/NW Section 11, T. 17 S., R. 24 E., SLB&M
Grand County, Utah

On November 6, 1980, a representative from this office met with Glen Doyle, USGS, and Bob Mischler agent of Tenneco Oil Company for an inspection of the above referenced location. Subject to the attached conditions and an approved Permit to Drill from U.S.G.S., I am approving the surface management portion of the Application for Permit to Drill.

The archaeological requirement has been fulfilled on this location. No threatened or endangered flora or fauna are indicated in the area.

Please forward the enclosed information to Tenneco Oil Company.

M. Scott Parker

Enclosures (3)
1-Reclamation Procedures
2-Seed Mixture
3-Suggested Colors

21 NOV 1980

STANDARD STIPULATIONS FOR OIL & GAS EXPLORATION

Contact this office at least 24 hours prior to beginning construction of access road and pad.

Stockpile the surface six inches of topsoil in a wind-row one-half on the southeast quadrant and one-half on the southwest quadrant of the location.

The upper banks (uphill side) of all cuts will be rounded during construction of the access road and pad.

Notify the BLM District Archaeologist if cultural material from sub-surface deposits is exposed during the operation.

The trash cage will be at the location and fenced with fine mesh wire during drilling operations.

The "blooey" line will be centered and directed into the pit.

If production is obtained, the access road will be upgraded to BLM specifications for long-term roads as outlined in the surface use standards section of the "Oil and Gas" pamphlet (joint BLM, USGS, and USFS publication).

If production is obtained, all production facilities will be painted. (See attached list of suggested colors to use on production facilities).

Rehabilitation of the site and access road will be accomplished in accordance with the enclosed restoration procedures.

Production facilities and pipeline route are approved on this location under lease rights.

As agreed upon at the pre-drill field examination -

1. The Bryson Ridge road, constructed for Tenneco by Bill Bunniger, will provide the access to the location.
2. Tenneco will contact Northwest Pipeline Corporation for an agreement to cross their pipeline along the east side of the road in section 11, and take all precaution needed.

Location -

1. Trees (pinon and juniper) removed from the location will be placed behind the windrowed topsoil in southeast quadrant of the location. This will be done in such a manner as to prevent the trees catching fire from any activity in the flare pit.

2. The reserve pit will be fenced on three sides, during well drilling, with 48 inch high woven wire. It will be fenced on the fourth side prior to moving the rig from the location.

3. If the well is dry the location will be restored as outlined in the abandonment and rehabilitation section of the "Oil & Gas" pamphlet (joint BLM, USGS, and USFS publication).

RECLAMATION PROCEDURES IN GRAND RESOURCE AREA

1. Disk or rip pads and access roads.
 - a. Overlap passes in order to insure complete treatment.
2. Contour pads and access roads.
 - a. Lay berms into centers.
 - b. Use cut material for fill areas.
 - c. Lay stockpiled surface soil over top of pads and spread evenly.
 - d. On highly erosive soils, it may be more beneficial to grade slopes to reduce steepness.
 - e. Do not smooth pads out, leave a roughened surface. On steeper slopes and slopes with clayey soils, scarify or serrate the ground in order to increase water infiltration and reduce erosion.
3. Water bar roads where required by the BLM.

* 2%	Grade	-	200 ft. intervals
2-4%	Grade	-	100 ft. intervals
4-5%	Grade	-	75 ft. intervals
5%	Grade	-	50 ft. intervals

* Actual spacing may vary according to soil stability. Lighter textured soils will require more frequent water bars. When natural drainage ways are present, water bars will be constructed to make maximum use of them. Plan operations so that natural drainage ways do not become blocked.
4. Seed roads and pads in the fall (October through mid-December).

SEED MIXTURE

SPECIES

LBS./AC.

Grasses

Oryzopsis hymenoides	Indian rice grass	1
Hilaria jamesii	Curley grass	1
Agropyron smithii	Western wheatgrass	1

Forbs

Sphaeralcea coccinia	Globemallow	1
----------------------	-------------	---

Browse

Cococarpus montanus	Mtn. mahogany	1
Ephedra nevedensis	Brigham tea	1
Purshia tridentata	Bitterbrush	1
Atriplex canescens	Fourwing saltbush	<u>1</u>
		9



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

SUGGESTED COLORS TO PAINT OIL & GAS PRODUCTION FACILITIES

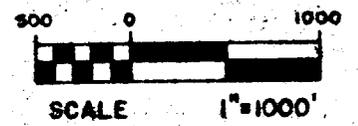
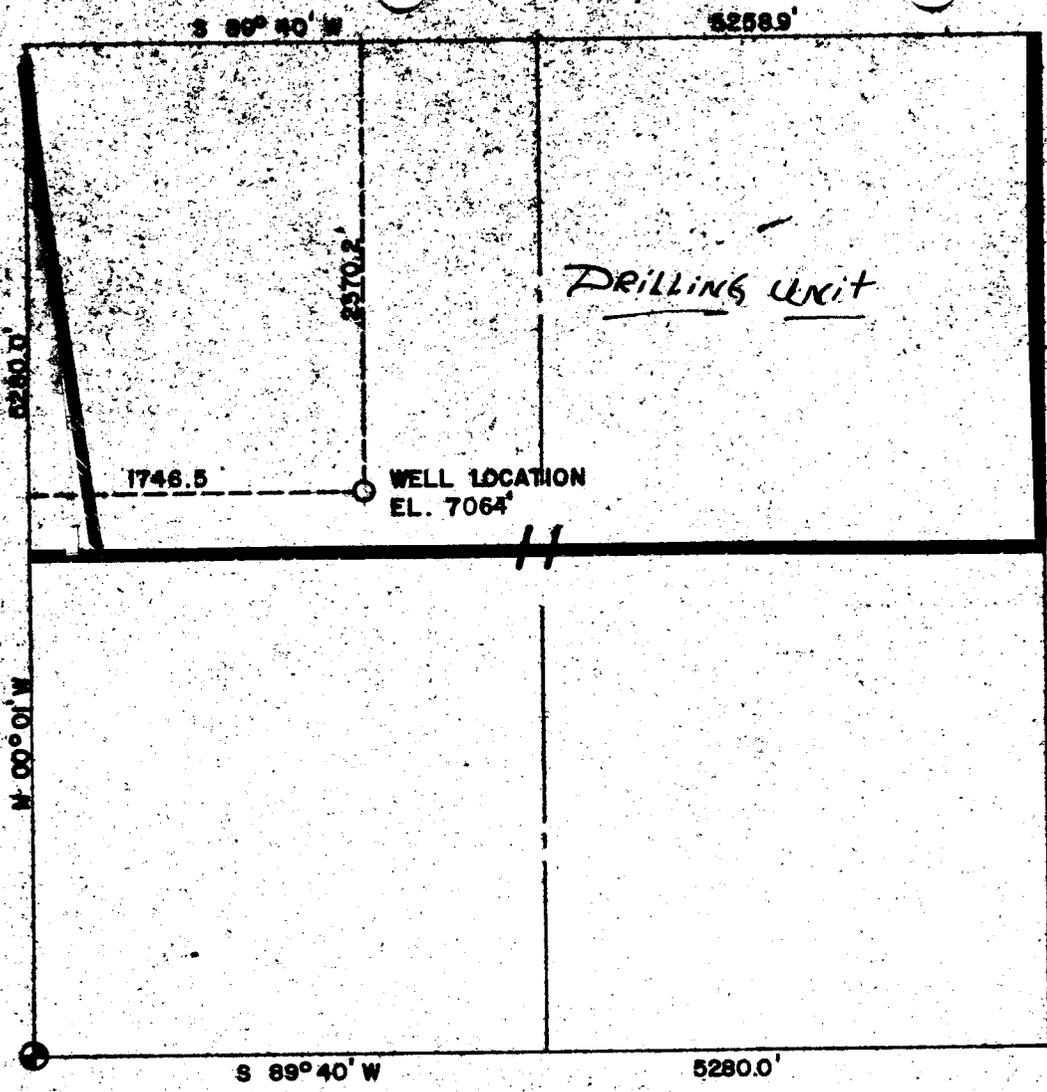
Cisco Desert and Flats below the Bookcliffs:

- Dynasty Green (Sears)
- Tumbleweed (Pratt & Lambert)
- Desert Tan -----
- Sage Gray (Pratt & Lambert)

Bookcliffs Region:

- Sage Gray (Pratt & Lambert)
- Sea Life (Pratt & Lambert)
- Dynasty Green (Sears)

Similar hues other than the ones mentioned above must be approved by the Grand Resource Area Manager.

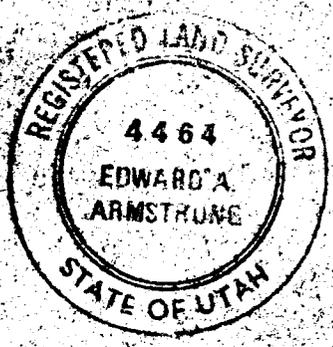


⊕ FOUND U.S.G.L.O.
 BRASS CAP 1929
 BEARINGS BASED ON
 MAGNETIC OBSERVATION
 AT SW COR. SEC. 11
 T. 17S., R. 24 E., SLBGM

WELL LOCATION
 2370.2 FT. S.N.L. - 1746.5 FT. E.W.L.
 SECTION 11, T.17 S., R. 24 E., S.L.B. & 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 P.E. & L.S. 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' DATE 9/15/80	TENNECO OIL CO. USA 11-6
	DRAWN BY SZH CHECKED BY EAA	SHEET 1 of 5
	DATE OF SURVEY 9/10/80	

TENNECO OIL COMPANY - 10 POINT PLAN

1. The geological name of the surface formation:
- 2 & 3. Estimated Formation Tops: mesa verde
 - (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 (Oct./Nov. 1980) 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: February 21, 1980

LEASE: Tenneco USA

WELL NO.: 11-6

LOCATION: 2370.2 FNL, 1746.5 FWL
Sec. 11, T 17S, R 24E
Grand County, Utah

FIELD:

ELEVATION: 7064 GR

TOTAL DEPTH: 6500'

PROJECTED HORIZON: Morrison

SUBMITTED BY: John W. Owen DATE: 2/21/80

APPROVED BY: _____ DATE: _____

JWO/ms

CC: Administrative (D.T. - 1)
DSB Well File
Field File

ESTIMATED FORMATION TOPS

Mesa Verde	Surface
Mancos	1830'
Castlegate	2080' (Water and/or gas)
Frontier	5345'
Dakota Silt	5600'
Dakota	5710' (Gas)
Morrison	5825' (Gas and/or water)
Salt Wash	6250'
Entrada	N/A
T.D.	6500'

1. No abnormal pressure, temperature, or H₂S is anticipated in this well.
2. Reserve pit shall be fenced on three sides during drilling operations.

DRILLING, CASING, AND CEMENT PROGRAM

1. MIRURT.
2. Set 1-3 joints of 9 5/8" casing as needed to be used as conductor pipe.
3. Install casing head and nipple up rotating head and bloopie line.
4. Drill 8 3/4" hole to \pm 2200', 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:	\pm 2200'	7", 23#, K-55, ST&C
PRODUCTION:	6500'	4-1/2", 10.5#, K-55, ST&C

MUD 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. 10 cc or less.

EVALUATION

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

Deviation Surveys:

0-+2200' 2°)
2200'-T.D. 6-1/2°) Surveys to be run every 500' or on trips, whichever comes first. Surveys will be reported on the IADC Drilling Report Sheet.

Maximum allowable deviations:

- (1) 1° per 100' intervals
- (2) 2° at + 2200'
- (3) 6-1/2° at T.D.

Samples: None.

<u>Logs:</u>	SNP/GR)		FDC/CNL)	
	FDC/GR)	Air Drilled	DIL/LL8 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. Preventers 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. George Ramsey (Home) 303-771-3154.
3. John Owen (Home) 303-795-0221.

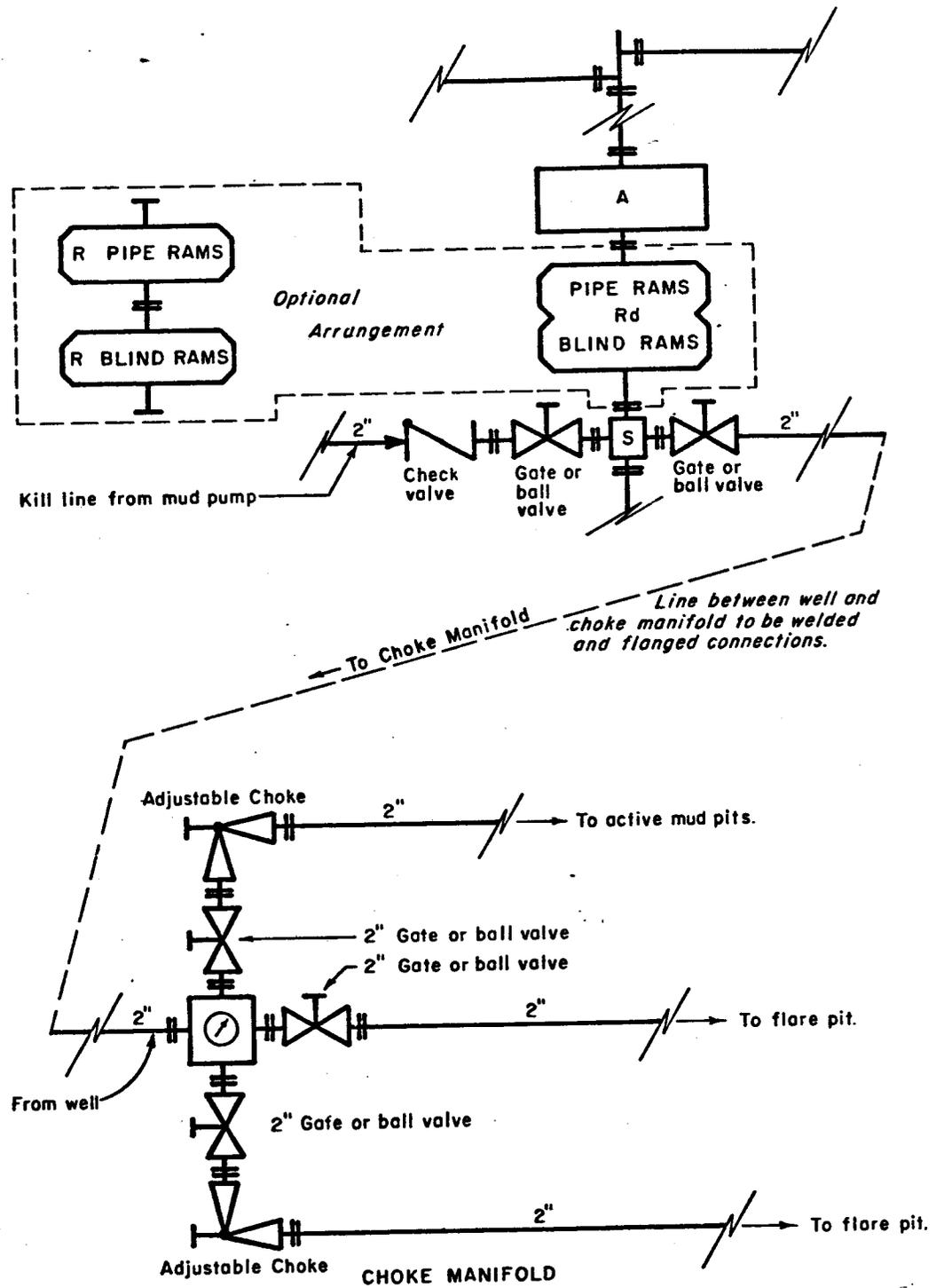
The yellow sheet of the IADC Report is to be filled out completely. The original copy of the drilling time recorder, and copies of any invoices from this well, signed and received for Tenneco Oil Company, will be mailed daily to:

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. George E. Ramsey, Jr., Drilling Engineers Supervisor
3. Mr. John W. Owen, Project Drilling Engineer.
4. 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
CHOKE MANIFOLD

I. EXISTING ROADS

(a) Proposed Well Site Location:

As surveyed by a registered land surveyor, is located 2370.2 FNL, 1746.5 FWL, Sec. 11, T17S, R24E, Grand County, Utah.

(b) Planned Access Route: All existing. See Exhibits III, IV & V.

(c) Access Road Labelled:

Color Code: Red - Improved surfaced roads
Blue - New access road to be constructed. (N/A)

(d) Not applicable, the proposed well is a development well.

(e) The existing roads are show in Exhibits IV & V.

(f) Existing Road Maintenance or Improvement:

The existing road will not require improvement. However, this road, along with the new access road, may require occasional grading to return the road surface to a cross section necessary for proper drainage.

II. PLANNED ACCESS ROUTE

Route Location - (See Exhibits IV & V.)

The access road is existing and was built under the direction of the Bureau of Land Management. This was to gain access to locations in the area, some of which have been drilled.

III. LOCATION OF EXISTING WELLS

The proposed well is a development well. Exhibit VI shows existing wells within a one mile radius.

- A. Water Wells: See Exhibit VI
- B. Abandoned Wells: See Exhibit VI
- C. Temporarily Abandoned Wells: See Exhibit VI
- D. Disposal Wells: See Exhibit VI
- E. Drilling Wells: See Exhibit VI
- F. Producing Wells: See Exhibit VI
- G. Shut-In Wells: See Exhibit VI
- H. Injection Wells: See Exhibit VI
- I. Monitoring or Observation Wells: None.

IV LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

A. Existing facilities within one mile owned or controlled by Lessee/Operator:

- (1) Tank batteries - N/A
- (2) Production facilities - N/A
- (3) Oil Gathering Lines - N/A
- (4) Gas Gathering Lines - N/A
- (5) Injection Lines - N/A
- (6) Disposal Lines - N/A

B. New Facilities in the Event of Production:

1. New facilities: well head, condensate tank, production unit, meter house
2. Dimension of the facilities are shown in Exhibits II & III.
3. Construction will be to strip the topsoil, level drilling pad. Dehydrator pits will be constructed with soil materials native to the site. Construction methods will be employed to assume that no drainage flows are impounded to prevent the loss of any hydrocarbon from the site. This is to be done in a manner to facilitate rapid recovery and clean up.
4. Protective measures to protect wildlife and livestock: Dehydrator pits shall be overhead flagged should any hydrocarbon material be present on the surface. The dehydrator pits shall be fenced to prevent entry of livestock or wildlife.

C. Plan for rehabilitation of disturbed areas no longer needed for operations after construction completed:

Upon completion of well, areas required for continued use will be graded to provide drainage and minimize erosion. Those areas not required for continued usage will be graded to provide drainage and minimize erosion. Those areas unnecessary for use will be graded to blend with the surrounding topography. Topsoil will be replaced on those areas and seeded according to BLM specifications.

V. LOCATION AND TYPE OF WATER SUPPLY

- (a) The water source is from Mr. Spadatore in Sec. 32, T17S, R24E.
- (b) Water Transportation system: Water to be hauled in trucks from ~~near~~ ~~undetermined pick up point.~~ a dirt tank at the above mentioned section.
- (c) Water Wells: None

VI. SOURCE OF CONSTRUCTION MATERIALS

(a) Materials:

Construction materials will consist of soil encountered with the boundaries of the proposed site. Topsoil will be stripped to a depth of six inches and stockpiled in an area that does not interfere with operations.

(b) Land Ownership:

The planned site and access roads lie on Federal land administered by the United States Department of Interior, U.S. Bureau of Land Management.

(c) Materials Foreign to Site: NA

(d) Access road shown under item II

VII. METHODS OF HANDLING WASTE MATERIALS

(a) Cuttings:

Will be contained within the limits of the reserve pit.

(b) Drilling Fluids:

Will be retained in the reserve pit.

(c) Produced Fluids:

No substantial amount of water is expected. The amount of hydrocarbon that may be produced while treating will be retained in the reserve pit. Previous to clean up operations the hydrocarbon materials will be skimmed or removed as the situation would dictate.

(d) Sewage::

Sanitary facilities will consist of at least one chemical toilet. Waste will be contained in a pit and backfilled immediately following the drilling operations.

(e) Garbage:

A burn cage will be constructed and fenced with small mesh wire. The small amount of refuse will be removed upon completion.

(f) Clean up of well site:

After drilling, the surface of the drill pad will be cleaned and graded to accommodate a completion rig. The "mouse hole and rat hole" will be backfilled to prevent injury and hazard for livestock. Reserve pit will be fenced until dry and it can be backfilled and restored to natural terrain.

VIII. ANCILLARY FACILITIES

None required.

IX. WELL SITE LAYOUT

1. See Exhibits
2. Location of pits: Exhibit II
3. Rig Orientation: Exhibit II
4. Pits will be unlined, unless otherwise required.

X. PLANS FOR RESTORATION OF SURFACE

A. Reserve Pit Cleanup:

The pit will be fenced prior to rig release and shall be maintained until clean up. Previous to backfill operation, any hydrocarbon material on the pit surface will be removed. The fluids and solids contained in the pit shall be backfilled with soil excavated from the site and with soil adjacent to the reserve pit. The restored surface of the reserve pit will be contoured to prevent impoundment of any drainage flows. The gradient of the surface will be maintained to prevent sudden acceleration of drainage flows which could cause continued erosion of the surface. Following backfill completion, topsoil removed from the disturbed areas will be replaced in a uniform layer. The reserve pit will be seeded per Bureau of Land Management recommendation during the appropriate season following final restoration of the site.

B. Restoration Plans - Production Developed:

The reserve pit will be backfilled and restored as described under Item A. In addition, those disturbed areas not required for production will be graded to blend with the surrounding topography. Topsoil will be placed on these areas and seeded. The portion of the drill pad required for production and turning areas will be graded to minimize erosion and provide access to production facilities under inclement conditions. Following final improvement and surfacing of that portion of new access road, the topsoil windrowed to each side of the alignment will be placed on the cut slopes. Following depletion and abandonment of the site, restoration procedures will be those that follow under Item C.

C. Restoration Plans - No Production Developed:

Of course the reserve pit will be restored as described above. With no production developed, the entire surface disturbed by construction of the drilling pad will be restored to its natural terrain and reseeded per Bureau of Land Management requirements.

XI. OTHER INFORMATION

A. Surface Description:

The site is atop Bryson Ridge on a rolling mesa top. The principal vegetation is pinon, juniper, mountain Mahogany, cactus, yucca, and native grasses. The soil is sandy, fractured sandstone with sandstone outcrops.

B. Other Surface - Use Activities: The surface is federally owned and managed by the BLM/USGS. The predominant surface use is mineral exploration and production.

C. Proximity of Water, Dwelling, Historical Sites:

1. Water: No reservoirs or live streams in the area.
2. Occupied Dwellings: Not existing.
3. Historical Sites: An Archaeological Reconnaissance has been performed for this location and clearance has been granted.

XII. OPERATOR'S REPRESENTATIVE

Field Personnel who can be contacted concerning compliance of this Surface Use Plan are as follows:

Donald Barnes
720 So. Colorado Blvd.
Denver, Colorado 80222
Office: (303) 758-7130
Extension 212

M. L. Freeman
720 So. Colorado Blvd.
Denver, Colorado 80222
Office: (303) 758-7130
Extension 280

XIII. CERTIFICATION

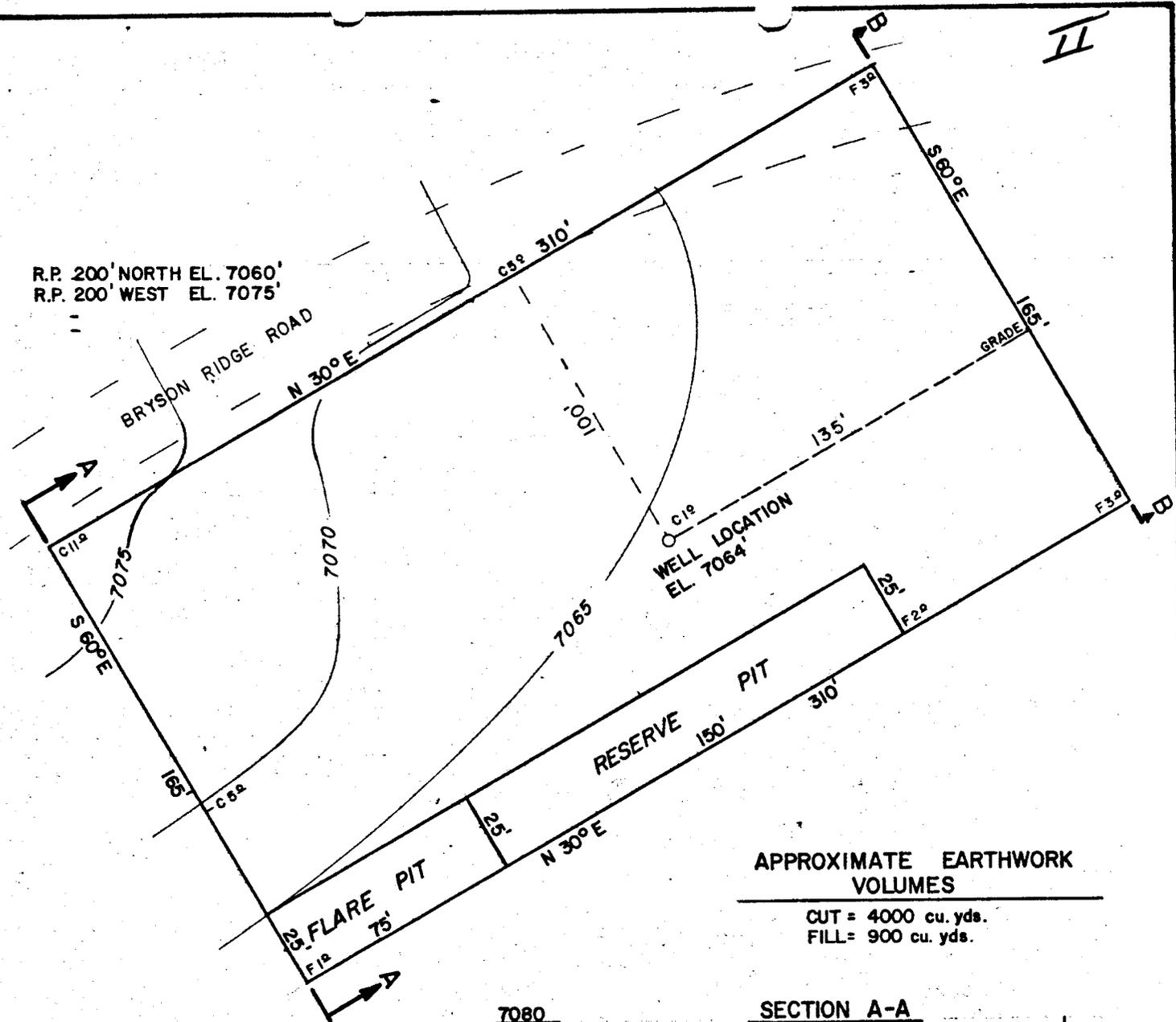
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions as they actually exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the proposed work performed by Tenneco Oil Company and its contractors and sub-contractors will conform to this plan.

DATE: September 23, 1980



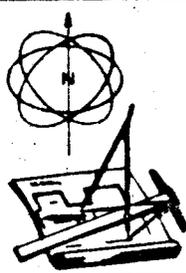
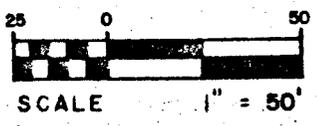
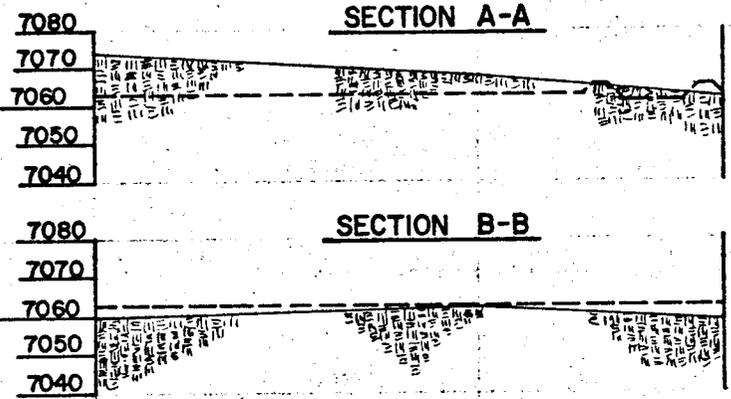
M. L. Freeman
Staff Production Analyst

R.P. 200' NORTH EL. 7060'
R.P. 200' WEST EL. 7075'



APPROXIMATE EARTHWORK VOLUMES

CUT = 4000 cu. yds.
FILL = 900 cu. yds.



ARMSTRONG ENGINEERS and ASSOCIATES, INC.
ENGINEERING • SURVEYING • SOILS AND CONCRETE TESTING
861 ROOD AVENUE - GRAND JUNCTION, COLORADO 81501 - (303) 245-3861

SCALE 1" = 50'
DATE 9/15/80
DRAWN BY SZH
CHECKED BY E.A.A.
DATE OF REVISION 9/10/80

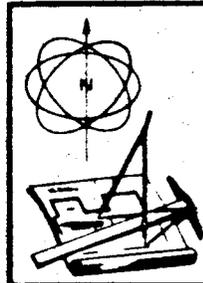
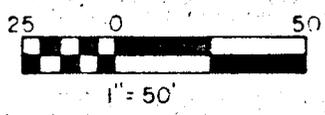
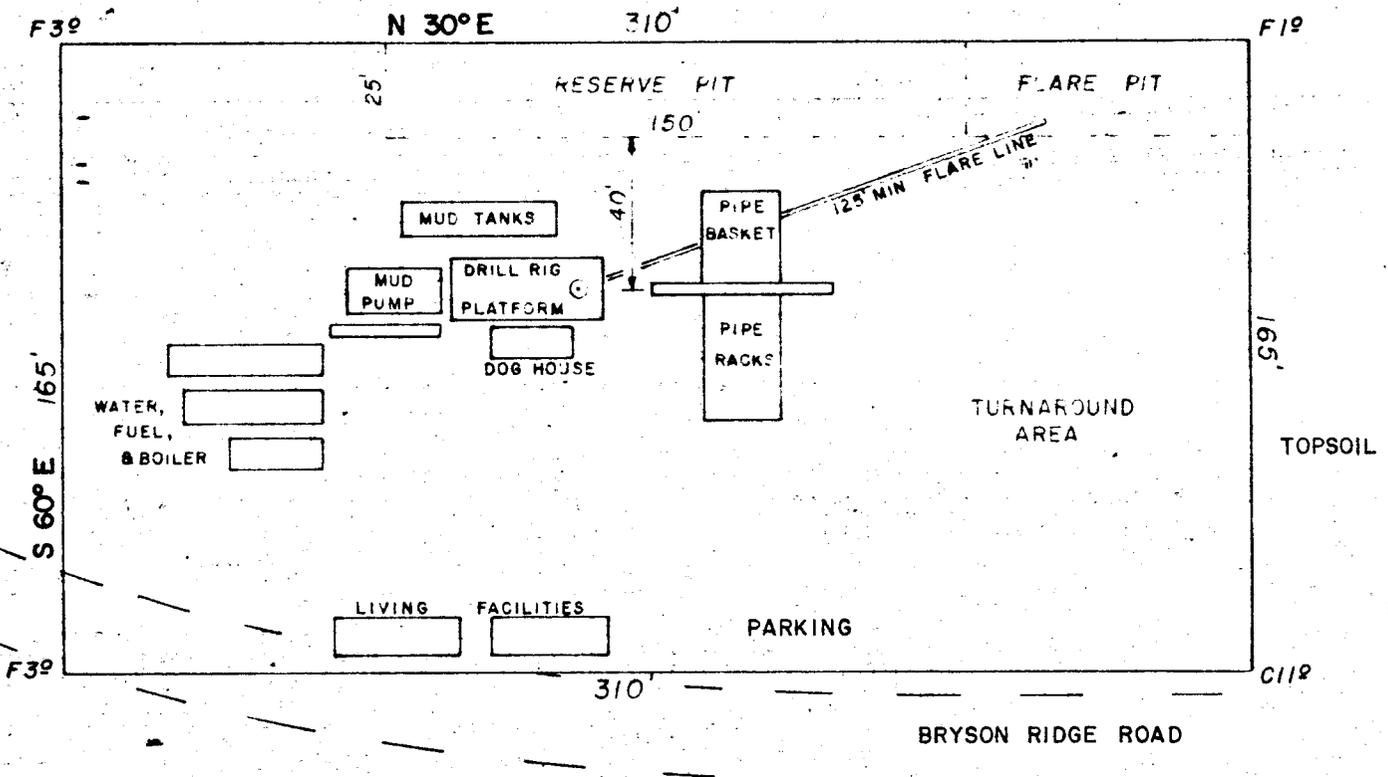
TENNECO OIL CO.
USA II-6

SHEET 2 of 5

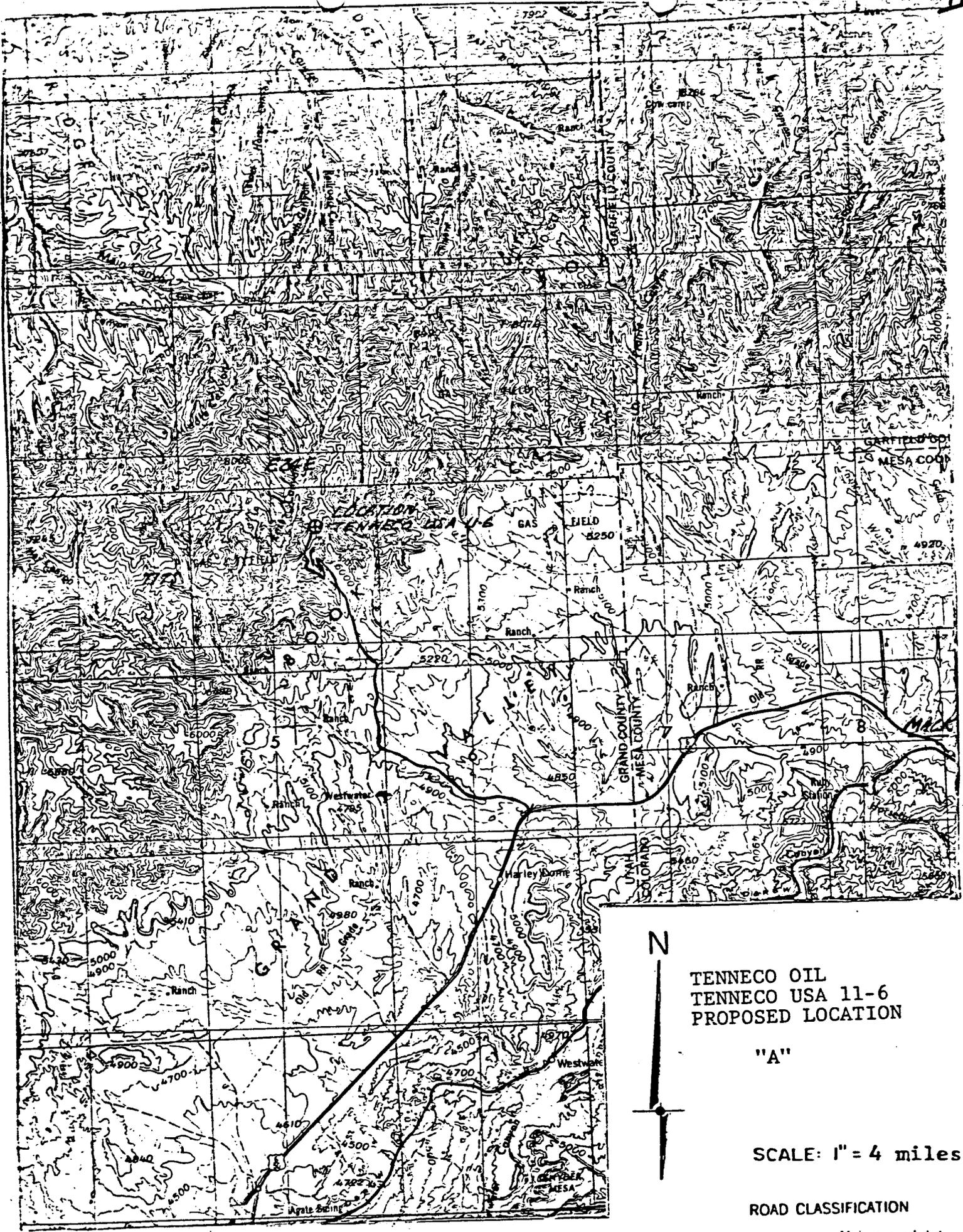
JOB NUMBER
802992

RIG LAYOUT

III



ARMSTRONG ENGINEERS and ASSOCIATES, INC. ENGINEERING • SURVEYING • SOILS AND CONCRETE TESTING 861 ROOD AVENUE • GRAND JUNCTION, COLORADO 81501 - (303) 245-3861	
SCALE 1" = 50' DATE 9/16/80 DRAWN BY SZH CHECKED BY DATE OF REVISION 9/10/80	TENNECO OIL USA II-6
SHEET 3 of 5	JOB NUMBER 802992



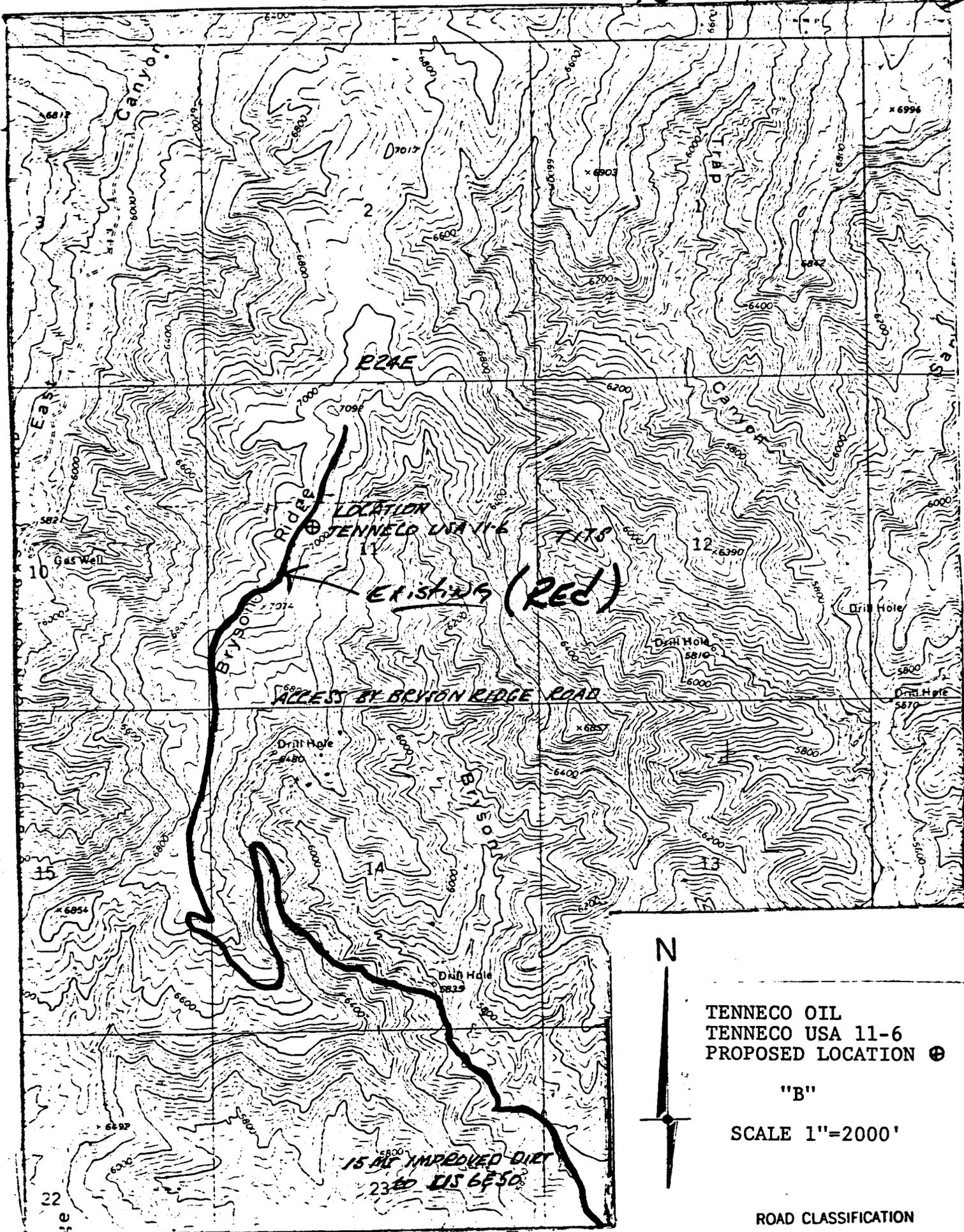
TENNECO OIL
 TENNECO USA 11-6
 PROPOSED LOCATION

"A"

SCALE: 1" = 4 miles

ROAD CLASSIFICATION

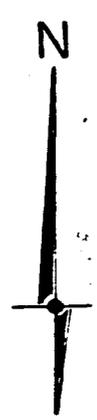
Light-duty _____ Unimproved dirt



LOCATION
 TENNESSEE USA 11-6
 11
 Existing (Red)

ACCESS BY BRYSON RIDGE ROAD

15' IMPROVED DIRT
 23' DIRT 6' 50'



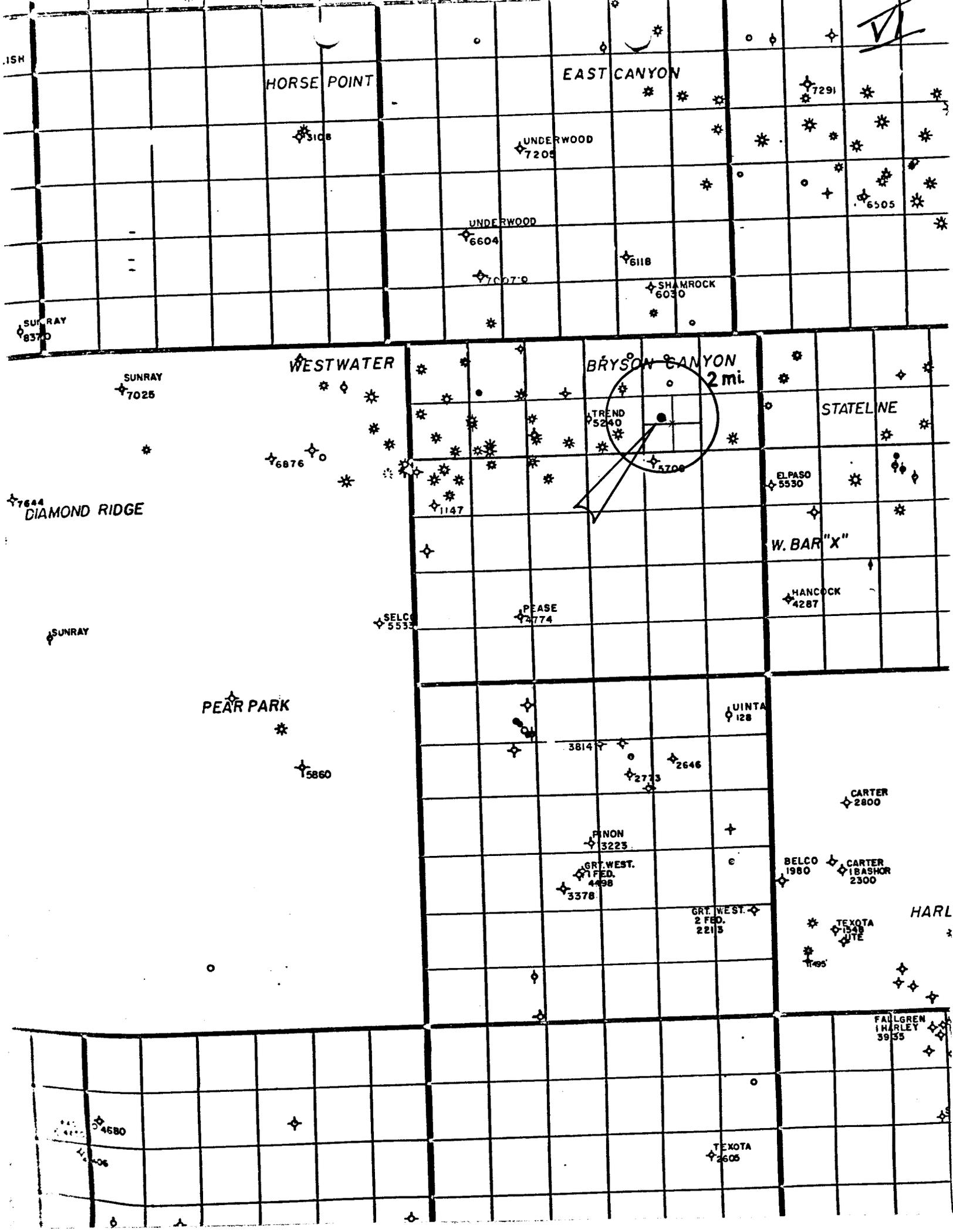
TENNECO OIL
 TENNECO USA 11-6
 PROPOSED LOCATION ⊕

"B"

SCALE 1"=2000'

ROAD CLASSIFICATION

Light-duty. ————— Unimproved dirt - - - - -



V

15H

HORSE POINT

EAST CANYON

3108

UNDERWOOD
7205

7291

6505

UNDERWOOD
6604

6118

SHAMROCK
6030

SUNRAY
8370

SUNRAY
7025

WESTWATER

BRÝSON CANYON
2 mi.

STATELINE

TREND
5240

6876

5708

ELPASO
5530

7644
DIAMOND RIDGE

1147

W. BAR "X"

SUNRAY

SELCO
5535

PEASE
4774

HANCOCK
4287

PEAR PARK

UINTA
128

5860

3814

2646

2773

CARTER
2800

PINON
3223

GR. WEST.
1 FED.
4498
3378

BELCO
1980

CARTER
1BASHOR
2300

GR. WEST.
2 FED.
2215

TEXOTA
1548
UTE
1195

HARL

4580

TEXOTA
2605

FALLGREN
HARLEY
3935

PALMER OIL & GAS COMPANY

P.O. Box 2564
BILLINGS, MONTANA 59103
(406) 248-3151

April 10, 1979

U. S. Geological Survey
8440 Federal Building
Salt Lake City, Utah 84138

Re: Preliminary Environmental Review
Federal #11-4
NW $\frac{1}{4}$ Section 11-T17S-R24E
Grand County, Utah

Gentlemen:

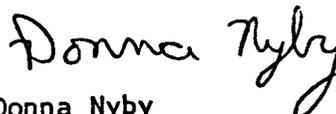
This letter is to request a preliminary environmental review prior to staking a well in the NW $\frac{1}{4}$ of Section 11, Township 17 South, Range 24 East, Grand County, Utah.

Attached hereto is a copy of the U.S.G.S. "Dry Canyon & Bryson Canyon" Quadrangles of this area.

Thank you.

Sincerely,

PALMER OIL & GAS COMPANY



Donna Nyby
Drilling Department

dln

Enclosure

cc: Bureau of Land Management
P. O. Box 970
Moab, Utah 84532

Tenneco Oil
Exploration and Production
A Tenneco Company



Rocky Mountain Division

P.O. Box 3249
Englewood, Colorado 80155
(303) 740-4800

RECEIVED
JAN 12 1980

Delivery Address:
6061 South Willow Drive
Englewood, Colorado

RECEIVED
JAN 15 1981
DIVISION OF
OIL, GAS & MINING

December 29, 1980

LAND MANAGEMENT
Mr. H. W. Dougherty
77 North Oak Knoll Avenue
Pasadena, CA 91101

RE: Waiver of Right of Protest
Tenneco USA 11-6 Well
Township 17 South, Range 24 East
Grand County, Utah

Dear Mr. Dougherty:

Tenneco has proposed the drilling of the captioned well at a location 1746.5' FWL, 2370.2' FNL of Section 11, Township 17 South, Range 24 East, Grand County, Utah. Utah State Spacing Order No. 165-4, establishing two 320-acre spacing units for the section, stipulates that the location "should not be located nearer than 500 feet from the spacing unit boundary, and should not be nearer than 1600 feet from a well producing from existing wells in adjacent spacing units." The provision further provides for "exceptions to the well location limitation set forth herein...for topographic reasons."

The sited location for the Tenneco USA 11-6 is nearer than 500 feet to the southern boundary of the proposed N $\frac{1}{2}$ spacing unit. Tenneco requests that you, in your capacity as attorney-in-fact for the several joint owners with Tenneco in the S $\frac{1}{2}$ of Section 11, waive any right of objection that you might have to the proposed location.

Please indicate your waiver of that right of objection in the space provided below and return one copy of this letter to the undersigned.

Thank you for your continued cooperation.

Very truly yours,

TENNECO OIL COMPANY

Steven R. Dunn
Project Landman

SRD:pjs

Tenneco USA 11-6 Well

The undersigned, as attorney-in-fact for the persons listed on the attached page, hereby waives any right to objection to the proposed unorthodox location of said well.

H. W. Dougherty 1-5-81

Owners as Tenants-in-Common

Of Lease No. USA SL-071172

H. W. Dougherty
James E. Hogle & George H. Hogle,
dba Hogle Brothers, a partnership
James Kemper
Mervyn LeRoy
Mary C. Jones
James D. Stewart
Vernon Barrett
Frank C. Hubbard
Gyte Van Zyl
Mrs. Florence Wellborn
James D. Doggett & Margaret Doggett
Richard C. Jones
Thore Brekke
Mrs. Kathryn P. LeRoy
Mrs. Louise O. Dougherty
Charles T. Erickson
Robert Fullerton III
James Ivers, Jr.
Mrs. Claire C. Martin
Gordon E. MacCaul & Lucille MacCaul
Neil D. McCarthy
Martin A. Samuelson
Albert C. Smith & Mary Smith
Mary Smith, Trustee for Albert G. Smith,
Wayne J. Smith, Richard C. Smith
Robert P. Strub
Vernon O. Underwood
Jane Fagan Olds
Paul Irving Fagan III
Helene Fagan
Thomas M. & Emily M. Cooper
Estate of Vera A. Beale, deceased,
Patricia Jo Burke, Executrix
Alice P. Egolf
Investment Operating Corporation
Fred L. Jones
Philip H. Spaulding
Michael S. Spaulding
Mary A. Sweeney
Ray D. Vining

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C 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. See space 17 below.)

AT SURFACE: 2370.2' FNL, 1746.5' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	<input type="checkbox"/>	<input checked="" type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>
(other) Commence drilling operations		

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.)*

5/24/81 - MIRURT. Spud well 5/24/81 w/Atco rig #5. Test BOPE. Pick up drill collars.

5/24/81 - Set 167' 9-5/8" 36# K-55 STC set @ 160'. Cmt w/75 sx Class H w/2% CACL2 and 1/4#/sk Celloflake. Plug down. Circ cmt to surface. WOC. Drill ahead.

5/25/81 - Drill 8-3/4" hole, went to mud mist @ 1738'.

5/27/81 - Drill to 2217'. Blow hole dry. Short trip. TOOH. Run 56 jts 7" 23# K-55 STC csg. Shoe @ 2217'. Cmt w/400 sx 50/50 POZ w/4% gel, 10% salt, .03% NFR-1, 2% CACL2 and 1/4#/sk Celloflake. Tail w/100 sx Class H w/2% CACL2 and 1/4#/sk Celloflake. Plug down. Circ cmt to surface. NUBOPs. Pressure test to 1000 PSI for 15 mins. Drill out shoe. Dry up hole. Resume drilling.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Casley TITLE Asst.Div.Adm.Mgr. DATE 6/2/81

(This space for Federal or State office use)

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

5. LEASE
U-18371

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Tenneco USA

9. WELL NO.
11-6

10. FIELD OR WILDCAT NAME
Morrison

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 11, T16S, R24E

12. COUNTY OR PARISH
Grand

13. STATE
Utah

14. API NO.
J44-019-30726

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7064' gr.
DIVISION OF
OIL, GAS & MINING

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

Tenneco Oil
Exploration and Production
A Tenneco Company



Rocky Mountain Division

P.O. Box 3249
Englewood, Colorado 80155
(303) 740-4800

Delivery Address:
6061 South Willow Drive
Englewood, Colorado

June 10, 1981

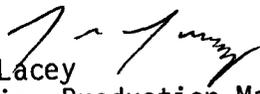
State of Utah
Division of Oil & Gas
1588 W. North Temple
Salt Lake City, UT 84116

Re: Tenneco USA 11-6
NW/4 Sec. 11, T17S, R24E
Grand County, Utah

Gentlemen,

↑
We request that any information concerning the captioned well remain confidential.

Sincerely,


J.M. Lacey
Division Production Manager

JML/DRB/tkp



JUN 10 1981

DIVISION OF
OIL, GAS & MINING

Confidential

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Tenneco Oil Company

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

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2370.2' FNL & 1746.5' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
U-13371

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Tenneco USA

9. WELL NO.
11-6

10. FIELD OR WILDCAT NAME
Morrison

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 11, T17S R24E

12. COUNTY OR PARISH
Grand

13. STATE
Utah

14. API NO.
43-019-30726

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7064' gr.

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	<input type="checkbox"/>	<input checked="" type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>
(other)		

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

DIVISION OF
OIL, GAS & MINING

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.)*

6/6/81. Drilled to TD of 5963' 6/5/81. TIH. Log well. Circ. Laid down drill pipe and collars.

6/7/81. Ran 138 jts of 4½" 10.5# K-55 STC csg set @ 5933. Cmt w/125sx Class H w/10% THC-60, 10% KCL, 5% salt and .05% NFRT (modified self-stress cmt). Plug down. Circ cmt to ± 2200'. Float held. NDBOPS. NU Xmas tree and pressure test to 1800 PSI for 15 mins. Release rig 6/7/81.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct
SIGNED Carly J. Stettin TITLE Asst. Dic. Adm. Mgr DATE 6-10-81

(This space for Federal or State office use)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil well gas well other

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Tenneco Oil Company

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

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2370.2' FNL 1746.5' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input checked="" type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>
(other)	<input type="checkbox"/>	<input type="checkbox"/>

5. LEASE
U-13371

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. NAME OR LEASE NAME
Tenneco USA

9. WELL NO.
11-6

10. FIELD OR WILDCAT NAME
Morrison

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 11, T17S R24E

12. COUNTY OR PARISH | 13. STATE
Grand | Utah

14. API NO.
43-019-30726

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7064' gr.

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)*

6/12/81 - MIRUSU. Install anchors. NUBOPE. Picked up and talleed in hole w/tbg. Tagged PBTD. Rolled hole w/2% KCL water. Pressure test csg to 4000 PSI for 30 mins. POOH w/tbg. Perforated w/3-1/8" csg gun @ 2 JSPF as follows: 5828-36', 5718-22'. RIH w/pkr and 10 stands.

6/13/81 - Set pkr @ 5569'. Acidize w/500 gals 7-1/2% MSR acid and 40 balls. Ball off @ 4600 PSI. AIP: 3000 PSI, AIR: 4 BMP, ISIP: 700 PSI. Surge balls, release pkr and run past perfs. POOH w/tbg and pkr. RIH w/2-3/8" tbg and F nipple to 5319'. Foam frac w/75% quality foam and 42,000# 20/40 sand. AIR: 16 BPM, AIP: 2900 PSI (tbg) ISIP: 2100 PSI, 15 min SIP: 1700 PSI. Turned well to pit thru 1/2" top bull plug. Land tbg @ 5817'. NDBOP. NUWH. Flow well to pit to clean up. RDMOSU.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Carley Hoffman TITLE Asst. Div. Adm. Mgr. DATE 6/18/81

(This space for Federal or State office use)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

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Tenneco Oil Company

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

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2370.2 FNL 1746.5 FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
U-13371

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT-NAME

8. FARM OR LEASE NAME
Tenneco USA

9. WELL NO.
11-6

10. FIELD OR WILDCAT NAME
Morrison Test

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 11, T17S R24E

12. COUNTY OR PARISH
Grand

13. STATE
Utah

14. API NO.
43-109-30726

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7064' gr.

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TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
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SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other) Set surface	<input type="checkbox"/>		<input type="checkbox"/>

(NOTE: Report results of multiple completion or zone changes on Form 9-330.)

NOV 04 1981
DIVISION OF OIL, GAS & MINING

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.)*

Spud at 8:30 a.m. 12/30/80

Drilled 155' 12-1/4" hole. Ran 4 jts 9-5/8", 36#, K-55 ST&C csg shoe at 154' G.L., cemented to surface with 75 sxs, Class G neat, cement with 2% CACl 1/4#/sx Celloflake surface plug down at 1:30 p.m. 157.7' Total 9-5/8" set. Attached field ticket and invoice.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED [Signature] TITLE Admin. Supv. DATE 11-2-81

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

INVOICE

ALLWESTERN

ALLWESTERN DRILLING CONTRACTORS

PHONE (801) 789-1773

P.O. BOX 414
VERNAL, UTAH 84078

INVOICE NO. 1283

DATE 12/31/80

TO: Tenneco Oil and Gas
P.O. Box 3249
Englewood, CO 80155

YOUR ORDER NO.

LOCATION: Tenneco USA 11-6

VENDOR FILE

ITEMS UNPAID 30 DAYS AFTER 1ST BILLING
ARE SUBJECT TO AN INTEREST CHARGE OF
1% MONTHLY OR AN ANNUAL PERCENTAGE
RATE OF 12%.

Tenneco USA 11-6 TERMS

WORK TICKET NO.	DESCRIPTION	PER. FT.	RATE	TOTAL
1256	Furnish men and equipment to drill 155' of 12 1/4" hole @ \$24.50/ft. 7 hrs. travel to and from location @ \$165.00/hr 2 days subsistence @ \$35.00/day/man (4 men) JAN 5 Run 4 jts owner casing (157.70) set @ 154'			\$ 3,797.50 1,155.00 280.00 N/C \$ 5,232.50
	TOTAL 01740 AFB (432)		1-351	COMPT JKH
	APPROVED FOR PAYMENT (ACCOUNTING) <i>B. Plutz</i>			



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

February 24, 1982

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

Re: Well No. USA #11-6
Sec. 11, T. 17S, R. 24E
Grand County, Utah
(December 1981- January 1982)

Gentlemen:

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

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.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

A handwritten signature in cursive script that reads "Cari Furse".

Cari Furse
Clerk Typist

Tenneco Oil Exploration and Production

A Tenneco Company

Western Rocky Mountain Division

P.O. Box 3249
Englewood, Colorado 80155
(303) 740-4800

Delivery Address:
6061 South Willow Drive
Englewood, Colorado

April 14, 1982

Minerals Management Service
2000 Administration Bldg.
1745 W. 1700 South
Salt Lake City, UT 84104

Attn: Ed Guynn

RE: TOC USA 11-6
Completion Report

Dear Mr. Guynn:

Tenneco completed the above referenced well on June 26, 1981. The completion report was not submitted before this time due to the confidential and proprietary nature of the information which it contains.

Tenneco still considers the information contained in this report as confidential and proprietary and asks that you regard same as such.

If we can be of any further assistance, please do not hesitate to contact this office.

Very truly yours,

TENNECO OIL COMPANY



Denise Wilson
Production Analyst

DW:jt

Enclosure

cc: State of Utah Natural Resources & Energy
Oil, Gas & Mining
Attn: Cari Furse
4241 State Office Building
Salt Lake City, UT 84114



**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-B355.5

6

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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 _____

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)*
At surface 2370.2' FNL 1746.5' FWL

At top prod. interval reported below *SE NW*

At total depth Same as above

14. PERMIT NO. *43-019-30726* DATE ISSUED *10-15-80*

5. LEASE DESIGNATION AND SERIAL NO.
U-13371

6. IF INDIAN, ALLUTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Tenneco USA

9. WELL NO.
11-6

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Morrison Undesignated

12. COUNTY OR PARISH
Grand 13. STATE
UT

Sec. 11, T17S R24E

15. DATE SPUNDED *5/24/81* 16. DATE T.D. REACHED *6/5/81* 17. DATE COMPL. (Ready to prod.) *6/26/81* 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* *7076' gr.* 19. ELEV. CASINGHEAD *7064' gr.*

20. TOTAL DEPTH, MD & TVD *5963' KB* 21. PLUG, BACK T.D., MD & TVD *5878' KB* 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)*
5718-5836' KB Morrison 25. WAS DIRECTIONAL SURVEY MADE
No

26. TYPE ELECTRIC AND OTHER LOGS RUN
Dual induction - SFL, Compensated Neutron Formation Density 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
9-5/8"	36#	160' KB	12-1/4"	75 sx C1-H	
7"	23#	2217' KB	8-3/4"	400 sx 50/50 POZ, 100 sx C1-H	
4-1/2"	10.5#	5933' KB	6-1/4"	125 sx C1-H	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	30. TUBING RECORD
					SIZE: <i>2-3/8"</i> DEPTH SET (MD): <i>5817' KB</i> PACKER SET (MD):

31. PERFORATION RECORD (Interval, size and number)

<i>5718-22' KB</i>	<i>2 JSPF</i>
<i>5828-36' KB</i>	<i>(12' - 24 holes)</i>

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
<i>5718-5836' KB</i>	<i>500 gal 7-1/2% MSR acid & 40 balls. 84,000 gal 75% quality foam & 42,000# 20/40 SD</i>

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
<i>6/14/81</i>	<i>Flowing</i>	<i>Shut-in</i>					
DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
<i>6/26/81</i>	<i>24 hrs.</i>	<i>1/4" orifice</i>	<i>587 MCFD</i>		<i>587 MCFD</i>		
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
<i>480 psi</i>	<i>750 psi</i>			<i>587 MCFD</i>			

34. DISPOSITION OF GAS (Solid, used for fuel, vented, etc.) *To be sold* TEST WITNESSED BY

35. LIST OF ATTACHMENTS
Electric logs forwarded by Schlumberger

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

SIGNED *Denise Wilson* TITLE *Production Analyst* DATE *4/14/82*

*(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: "Sacks 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.)

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	GEOLOGIC MARKERS
Dakota	5710'	5850'	Sand, shale, water, gas	Mancos B	2730
Morrison	5850'	TD	Shale, sand, water	Frontier	5320
				Dakota Silt	5590

38.

GEOLOGIC MARKERS

DESCRIPTION, CONTENTS, ETC.

BOTTOM

TOP

FORMATION

39.

MEAS. DEPTH

TRUM VERT. DEPTH

TOP

NAME

40.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input checked="" type="checkbox"/>		<input type="checkbox"/>
(other)			

5. LEASE
U-13371

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Tenneco USA

9. WELL NO.
11-6

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Morrison

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Sec. 11, T17S, R24E

12. COUNTY OR PARISH | 13. STATE
Grand | UT

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7064' GR .

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Tenneco respectfully requests permission to plug and abandon the referenced well, as per attached detailed procedure.

ACCEPTED
APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 02/21/83
BY: [Signature]

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Ken Russell TITLE Sr. Production Analyst DATE March 9, 1983
Ken Russell

(This space for Federal or State office use)

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

WELL NO. 11-6

9-5/8" OD, 36 LB, CSG.W/ 75 SX

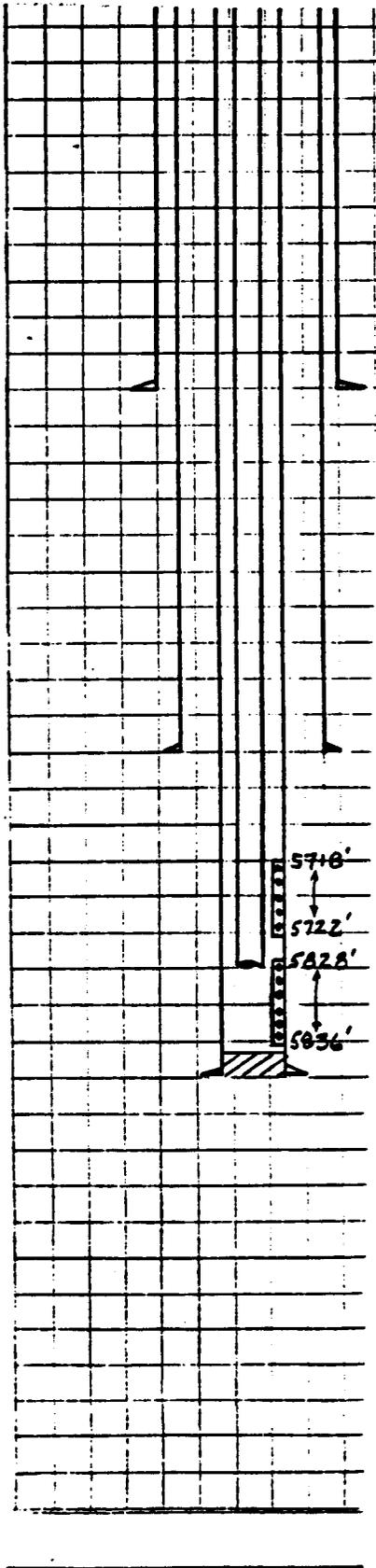
TOC @ surface

7" OD, 23 LB, CSG.W/ 500 SX

TOC @

4-1/2" OD, 10.5 LB, CSG.W/ 125 SX

TOC @

DETAILED PROCEDURE:

1. MIRUSU. Kill well if necessary. Remove wellhead and install BOPE.
2. POOH w/2-3/8" tbg.
3. PU a cmt retainer for 4-1/2" 10.5# K-55 ST&C csg. RIH on 2-3/8" tbg to 5550' KB and set retainer. Load annulus w/water and press test retainer to 500 psig. PU on tbg and press test tbg to 1500 psig. Sting out of retainer and establish reverse circulation. Sting back into retainer and establish rate into perms.
4. Pump 75 sx Class H w/0.4% Halad 9. Pump until 1500 psig is encountered or 1 bbl cmt is left to displace. Sting out of retainer and reverse tubing clean. Displace hole w/10 ppg mud. POOH w/tbg.
5. MIRUWL. RIH to 4900' KB and cut csg w/WL chemical cutter for 4-1/2" 10.5# casing. TOC @ 5030.
6. RU casing crew. POOH, break out and lay down 4-1/2".
7. PU 2-3/8" tbg, openended and RIH to 100' below casing stub and spot a 200' cement plug (35 sx) across the stub.
8. PUH w/2-3/8" tbg to 2320' and spot a 200' Class "H" cmt plug (55 sx) across the 7" csg stub, located @ 2230'.
9. PUH w/2-3/8" tbg to 100' and circulate cmt to surface w/regular Class "H" cmt. POOH w/tbg.
10. Place a 4" P&A marker @ surface, orange peeled @ the top stating well name, number, section, tnsnp, range, and date of P&A.
11. Transfer all salvaged tbg and casing to TOC yard. Fill in all pits and restore location to original condition.

6

UNIT STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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1. oil well gas well other

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Tenneco Oil Company

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Box 3249, Englewood, CO 80155

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AT TOTAL DEPTH:

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TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
(other)		

5. LEASE U-13371 SERVICE OIL & GAS OPERATIONS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. LEASE AGREEMENT NAME ¹⁴¹⁹⁸³
CA-CR # 226
SALT LAKE CITY, UTAH

8. FARM OR LEASE NAME
Tenneco USA

9. WELL NO.
11-6

10. FIELD OR WILDCAT NAME
Morrison

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 11, T17S, R24E

12. COUNTY OR PARISH Grand 13. STATE UT

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7064' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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 respectfully requests permission to plug and abandon the referenced well, as per attached detailed procedure.

TENNECO FOLLOWED THE OUTLINED PROCEDURE.

RECEIVED

JUL 5 1984

DIVISION OF OIL
GAS & MINING

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Ken Russell TITLE Sr. Production Analyst DATE March 9, 1983

APPROVED BY E. W. Gynn (This space for Federal or State office use) TITLE District Oil & Gas Supervisor DATE APR 4 1983

CONDITIONS OF APPROVAL, IF ANY:

Vopa.

LONE MOUNTAIN PRODUCTION COMPANY

P.O. Box 3394
408 Petroleum Building
Billings, Montana 59103-3394
(406) 245-5077

RECEIVED
AUG 21 1986

**DIVISION OF
OIL, GAS & MINING**

August 18, 1986

Bureau of Land Management
Grand Resource Area
Moab, Utah 84532

Re: Federal No. 11-6
SE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 11- T17S-R24E
Grand County, Utah

Gentlemen:

Lone Mountain Production Company has acquired operations of this well from Quinoco. The well was completed but never produced due to logging off problems.

We propose to work the well over and place it on production. A sundry notice outlining our plans is enclosed in triplicate.

No new surface disturbance will occur.

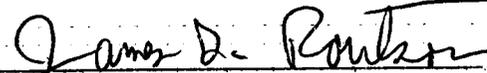
Designation of Operator forms are enclosed or are being sent to the BLM directly.

We plan to do this work in early September, so your expedient approval would be appreciated.

Should you have any questions, please do not hesitate to call.

Very Truly Yours,

Lone Mountain Production Company


James G. Routson

cc: Utah Division Oil, Gas, and Mining
Attention: Ron Firth

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

082892

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		5. LEASE DESIGNATION AND SERIAL NO. U-13371
2. NAME OF OPERATOR LONE MOUNTAIN PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 3394, 408 Petroleum Bldg., Billings, MT 59103-3394		7. UNIT AGREEMENT NAME NONE
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2370' FNL, 1746' FWL		8. FARM OR LEASE NAME Federal
14. PERMIT NO. 43-019-30726	15. ELEVATIONS (Show whether DF, WT, OR, etc.) 7052 GL, 7063 KB	9. WELL NO. 11-6
		10. FIELD AND POOL, OR WILDCAT Bryson Canyon
		11. SEC., T., R., M., OR BLEK. AND SURVEY OR AREA SE 1/4 NW 1/4 Sec. 11- T17S-R24E
		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"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input checked="" type="checkbox"/>	MULTIPLE COMPLETION <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input checked="" 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) <input type="checkbox"/>	

(Other) Change of Operator (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.)*

Lone Mountain Production Company is taking over operations of this well from Quinoco. We propose to set a cast iron bridge plug at 5820' above the Morrison perforations 5828 - 5838. We will squeeze the Dakota perforations 5718 - 5722 with 100 sacks low fluid loss Class "G" cement. We intend to perforate the Dakota 5760-5800 with 1SPF, acidize with 600 gallons, and foam frac with 20,000# 100 mesh sand and 80,000 # 20-40 sand in 78,000 gallons 75% quality foam.

No new surface disturbance will occur. A Flowback pit will be dug on the existing location. Designation of operator forms enclosed.

RECEIVED
AUG 21 1986

DIVISION OF
OIL, GAS & MINING

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

SIGNED James B. Poyntson TITLE Petroleum Engineer DATE August 18, 1986

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ ACCEPTED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING

Federal approval of this action is required before commencing operations.

*See Instructions on Reverse Side DATE: 8-26-86

BY: John K. Dupa

7-24-86

Norm,

Inspection report &
photograph in 1984 showed
this as an unplugged
well. I'm not sure when
Quinoco became operator
but they apparently
operated the well since
1984. Anyway, it is
obviously not plugged
as we were led to
believe.

- JRB

Pam,

Please "reactivate" this well.
Route for necessary action.

Indy,

Norm
9-24

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPI
(Other instructions
verse side)

101531

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

5. LEASE DESIGNATION AND SERIAL NO

U-13371

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

NONE

8. FARM OR LEASE NAME

FEDERAL

9. WELL NO.

11-6

10. FIELD AND POOL, OR WILDCAT

BRYSON CANYON

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

SE/4NW/4 SEC. 11-T17S, R24E

14. PERMIT NO.

43-019-30726

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

7052 GL, 7063 KB

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:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL 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 and 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.)*

SET CIBP @ 5820'. SQUEEZED PERFORATIONS 5718-5722 WITH 25 SACKS CLASS "G" CEMENT. PERFORATED DAKOTA 5760-5800, 1 SPF, 41 SHOTS TOTAL. ACIDIZED 5760-5800 WITH 600 GALLONS 15% HCL. SWABBED AND TESTED RATES VARYING FROM 40-100 MCFD, 2.5 BWPH. RECOVERED FRAC SAND IN SWAB CUPS. SHUT WELL IN FOR EVALUATION OF WATER SHUT OFF.

DUE TO POOR WEATHER AND MUDDY ROADS, WE HEREBY REQUEST A TEMPORARY SHUT IN STATUS FOR THIS WELL FOR A PERIOD NOT TO EXCEED 1 YEAR - ADDITIONAL WORK WILL BE PERFORMED NEXT SUMMER.

RECEIVED
OCT 02 1986

DIVISION OF
OIL, GAS & MINING

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

SIGNED

James S. Rouben

TITLE PETROLEUM ENGINEER

DATE SEPTEMBER 30, 1986

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate
(Other instructions on
reverse side)

Budget Bureau No. 1004-0135
Fiscal Year August 31, 1985
CLASSIFICATION AND SERIAL NO

U-13371

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

NONE

8. FARM OR LEASE NAME

FEDERAL

9. WELL NO.

11-6

10. FIELD AND POOL, OR WILDCAT

BRYSON CANYON

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

SE/4NW/4 SEC. 11-T17S, R24E

12. COUNTY OR PARISH

GRAND

13. STATE

UTAH

14. PERMIT NO.

43-019-30726

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

7052 GL, 7063 KB

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.)*

SET CIBP @ 5820'. SQUEEZED PERFORATIONS 5718-5722 WITH 25 SACKS CLASS "G" CEMENT. PERFORATED DAKOTA 5760-5800, 1 SPF, 41 SHOTS TOTAL. ACIDIZED 5760-5800 WITH 600 GALLONS 15% HCL. SWABBED AND TESTED RATES VARYING FROM 40-100 MCFD, 2.5 BWPH. RECOVERED FRAC SAND IN SWAB CUPS. SHUT WELL IN FOR EVALUATION OF WATER SHUT OFF.

DUE TO POOR WEATHER AND MUDDY ROADS, WE HEREBY REQUEST A TEMPORARY SHUT IN STATUS FOR THIS WELL FOR A PERIOD NOT TO EXCEED 1 YEAR - ADDITIONAL WORK WILL BE PERFORMED NEXT SUMMER.

RECEIVED
DEC 08 1986

DIVISION OF
OIL, GAS & MINING

RECEIVED
OCT 13 86
LONE MOUNTAIN
PRODUCTION CO

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

SIGNED

James B. Roubicek

TITLE PETROLEUM ENGINEER

DATE SEPTEMBER 30, 1986

(This space for Federal or State office use)

APPROVED BY

Steve Rodine

TITLE District Manager

DATE 10/8/86

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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.

COMPANY: Lone Mountain Prod Co UT ACCOUNT # N7210 .SUSPENSE DATE:

TELEPHONE CONTACT DOCUMENTATION

CONTACT NAME: Jim

CONTACT TELEPHONE NO.: 1-406-245-5077

SUBJECT: Any prod from Ukta or Muna?

(Use attachments if necessary)

RESULTS: per Jim at Lone Mountain - They re-entered and perf'd
higher in Ukta. the well was a dry hole for them.
Jim also indicated that the well never produced
prior to their takeover & re-entry

Never any production from this well.
(Use attachments if necessary)

CONTACTED BY: UC

DATE: 12-17-86

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

Budget Bureau Form 1094-01
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or re-completion of a different reservoir.
Use "APPLICATION FOR PERMIT—" for proposals.)

5. LEASE DESIGNATION AND SERIAL NO

U-13371

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

040712

7. UNIT AGREEMENT NAME

None

8. FARM OR LEASE NAME

Federal

9. WELL NO.

11-6

10. FIELD AND POOL, OR WILDCAT

Bryson Canyon

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

SE 1/4 NW 1/4 Sec. 11-T17S, R24E

1. OIL WELL GAS WELL OTHER

MAR 27 1987

2. NAME OF OPERATOR

Lone Mountain Production Company

DIVISION OF

OIL, GAS & MINING

3. ADDRESS OF OPERATOR

408 Petroleum Building, P. O. Box 3394, Billings, Montana 59103

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

At surface

2370' FNL, 1746' FWL

14. PERMIT NO.

43-019-30726

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

7052' GL, 7063' KB

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

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)

Temporary abandonment

X

(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.)*

We hereby request that this well be placed in a temporarily abandoned status. We have evaluated the results of our work last fall and have determined it would be too risky to attempt a water shut off. We are applying to drill another well in the spacing unit and will plug this well when we have a rig in the area, probably June, 1987. Plugging orders will be requested at a later date.

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

SIGNED James D. Rutter

TITLE Petroleum Engineer

DATE March 25, 1987

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

ACCEPTED BY THE STATE
DATE _____
OF UTAH DIVISION OF
OIL, GAS, AND MINING

Federal approval of this action
is required before commencing
operations.

*See Instructions on Reverse Side

DATE 4-6-87
BY: John R. Dyer

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE
(Other instructions on reverse side)

Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO

U-13371

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

060810

6
SOW

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
Lone Mountain Production Company

3. ADDRESS OF OPERATOR
408 Petroleum Building, P.O. Box 3394, Billings, Montana 59103

4. LOCATION OF WELL. (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
2370' FNL, 1746' FWL

7. UNIT AGREEMENT NAME
None

8. FARM OR LEASE NAME
Federal

9. WELL NO.
11-6

10. FIELD AND POOL, OR WILDCAT
Bryson Canyon

11. SEC., T., R., M., OR BLK. AND SURVY OR ARRA
SE 1/4 NW 1/4 Sec. 11-T17S, R24E

12. COUNTY OR PARISH
Grand

13. STATE
Utah

14. PERMIT NO.
43-019-30726

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
7052' GL, 7063' KB

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <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.)*

The Federal No. 11-6 well was plugged and abandoned as follows:

- Plug No. 1: 20 sacks, 5800'-5600'.
Shot 4 1/2" casing off at 2500'.
- Plug No. 2: 15 sacks, 2550'-2450'.
- Plug No. 3: 10 sacks, 2270'-2170'.
- Plug No. 4: 10 sacks at surface.

Regulation Dry Hole Marker installed.

Finished plugging at 5:00 P. M., May 30, 1987.

Plugging witnessed by Jim Munroe, BLM, Moab.

Plugging orders received from Steve Jones, BLM, Moab, on April 27, 1987.

Location will be recontoured and seeded in the Fall, 1987.

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 6-8-87

BY: John R. Lane

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

SIGNED James D. Roberts

TITLE Petroleum Engineer

DATE June 1, 1987

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

*See Instructions on Reverse Side

RECEIVED
JUN 03 1987

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.

DIVISION OF
OIL, GAS & MINING