

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG ELECTRIC LOGS FILE WATER SANDS LOCATION INSPEC SUB. REPORT/abd.

977807 Location abandoned eff 8.6.97

DATE FILED MAY 23, 1996

LAND: FEE & PATENTED STATE LEASE NO. ML-47105

PUBLIC LEASE NO.

INDIAN

DRILLING APPROVED: JUNE 20, 1996

SPUDED IN:

COMPLETED: 8.6.97 LA PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED: August 6, 1997 LA'D

FIELD: WILDCAT

UNIT:

COUNTY: SEVIER

WELL NO. STATE OF UTAH W 16-24

API NO. 43-041-30029

LOCATION 1472 FSL FT. FROM (N) (S) LINE. 1125 FEL

FT. FROM (E) (W) LINE. NE SE

1/4 - 1/4 SEC. 16

TWP.

RGE.

SEC.

OPERATOR

TWP.

RGE.

SEC.

OPERATOR

22S

5E

16

TEXACO E&P, INC.



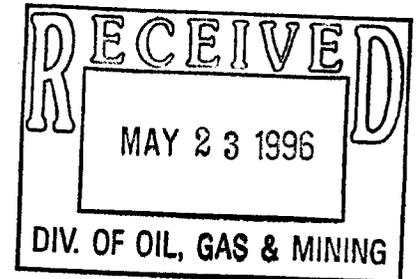
Texaco Exploration and Production Inc

3300 N Butler
Farmington NM 87401

May 17, 1996

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RE: **Application for Permit to Drill (APD)**
State of Utah 'W' No. 16-24 , Surf Loc: 1596' FSL, 607' FEL, Unit I
Sec. 16-T22S-R5E
Sevier County, Utah



Gentlemen:

Texaco Exploration and Production Inc. is seeking approval from the Division of Oil, Gas and Mining to drill an exploratory well to test the Ferron formation. Texaco requests confidential status of this well and all information pertaining to it.

Your attention to this matter is greatly appreciated. If you have any questions concerning this matter please contact me at 505-325-4397, ext. 20.

Sincerely,

Ted A. Tipton
Operating Unit Manager
RSD/s, Attachments

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. Lease Designation and Serial No. **ML-47105**

6. If Indian, Alottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and Number
STATE OF UTAH W

16-24

9. API Well No.

10. Field and Pool, Exploratory Area
WILDCAT

11. SEC., T., R., M., or BLK. and Survey or Area
Sec. 16, Township T22S, Range R5E

12. County or Parish **SEVIER** 13. State **UT**

14. Distance in Miles and Direction from Nearest Town or Post Office*
APPROX. 9 MI. SOUTHWEST OF EMERY, UT

15. Distance From Proposed* Location to Nearest Property or Lease Line, Ft. (also to nearest drig. unit line, if any) **607'**

16. No. of Acres in Lease **1362.67**

17. No. of Acres Assigned To This Well **160 AC.**

18. Distance From Proposed Location* to Nearest Well, Drilling, Completed or Applied For, On This Lease, Ft. **N/A**

19. Proposed Depth **2490'**

20. Rotary or Cable Tools **ROTARY**

21. Elevations (Show whether DF, RT, GR, etc.)
KB **6420'** GR

22. Approx. Date Work Will Start*
6/15/96

23. **PROPOSED CASING AND CEMENT PROGRAM**

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48#	300'	400 SX
12-1/4"	8-5/8"	32#	1910'	620 SX
7-7/8"	5-1/2"	17#	2490'	190 SX

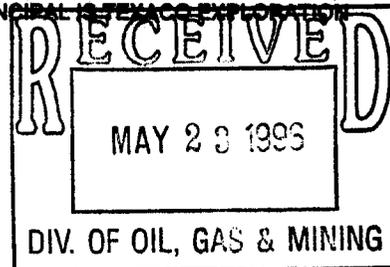
Describe Proposed Program: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured true verticle depths. Give blowout preventer program, if any.

TEXACO EXPLORATION & PRODUCTION, INC. PROPOSES TO DRILL A WELL TO A DEPTH OF 2490' TO TEST THE FERRON SAND AND ASSOCIATED COALS FOR PRODUCTIVE QUANTITIES OF NATURAL GAS. IF THE WELL IS UNPRODUCTIVE, IT WILL BE PLUGGED AND ABANDONED AS PER STATE OF UTAH REQUIREMENTS.

PLEASE BE ADVISED THAT TEXACO EXPLORATION & PRODUCTION, INC. HAS BEEN AUTHORIZED BY PROPER LEASE INTEREST OWNERS TO CONDUCT OPERATIONS ON THE ABOVE MENTIONED LOCATION. TEXACO EXPLORATION & PRODUCTION, INC. AGREES TO BE RESPONSIBLE UNDER THE TERMS AND CONDITIONS OF THE LEASE FOR OPERATIONS CONDUCTED UPON THE LEASE LANDS.

BOND COVERAGE FOR THIS WELL IS PROVIDED BY BOND NO. CO-0058 (NATIONWIDE BOND). THE PRINCIPAL IS TEXACO EXPLORATION & PRODUCTION, INC. VIA SURETY CONSENT AS PROVIDED FOR IN 43 CFR-3104.2.

CONFIDENTIAL



24. (This space for State use only)

SIGNATURE *Ted A. Tipton* TITLE Operating Unit Manager DATE 5/16/96

TYPE OR PRINT NAME Ted A. Tipton

API Number Assigned 43-041-30029 APPROVAL *[Signature]* 6/28/96
Associate Director

T22S, R5E, S.L.B.&M.

TEXACO EXPLR. & PROD., INC.

Well location, STATE OF UTAH "W" #16-24, located as shown in the NE 1/4 SE 1/4 of Section 16, T22S, R5E, S.L.B.&M. Sevier County, Utah.

WEST - 79.48 (G.L.O.)

NORTH - (G.L.O.)

NORTH - (G.L.O.)

16

STATE OF UTAH "W" #16-24
Elev. Ungraded Ground = 6448'

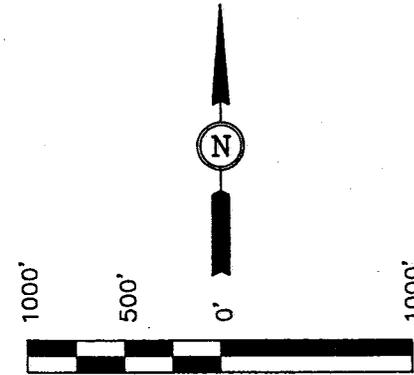
1125'
(Comp.)

1472'
(Comp.)

N82°50'24"W
11,813.2' From
NW Cor. Sec. 24
T22S, R5E, S.L.B.&M.
(2" Pipe, Mound of Stones)

BASIS OF ELEVATION

SPOT ELEVATION NEAR A ROAD INTERSECTION LOCATED IN THE SE 1/4 OF SECTION 15, T22S, R5E, S.L.B.&M. TAKEN FROM THE EMERY WEST QUADRANGLE, UTAH, SEVIER COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6315 FEET.



SCALE

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS, MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Robert L. Gray
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

REVISED: 6-03-96 D.R.B.
REVISED: 4-24-96 D.R.B.

WEST - 79.56 (G.L.O.)

LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

NOTE:
BASIS OF BEARINGS IS A SOLAR OBSERVATION TAKEN IN THE NW 1/4 OF SECTION 24, T22S, R5E, S.L.B.&M.

UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078

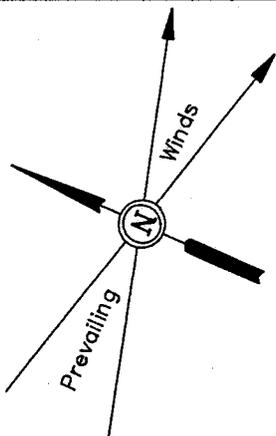
(801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 4-11-96	DATE DRAWN: 4-12-96
PARTY D.A. K.H. D.R.B.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE TEXACO EXPLR. & PROD., INC.	

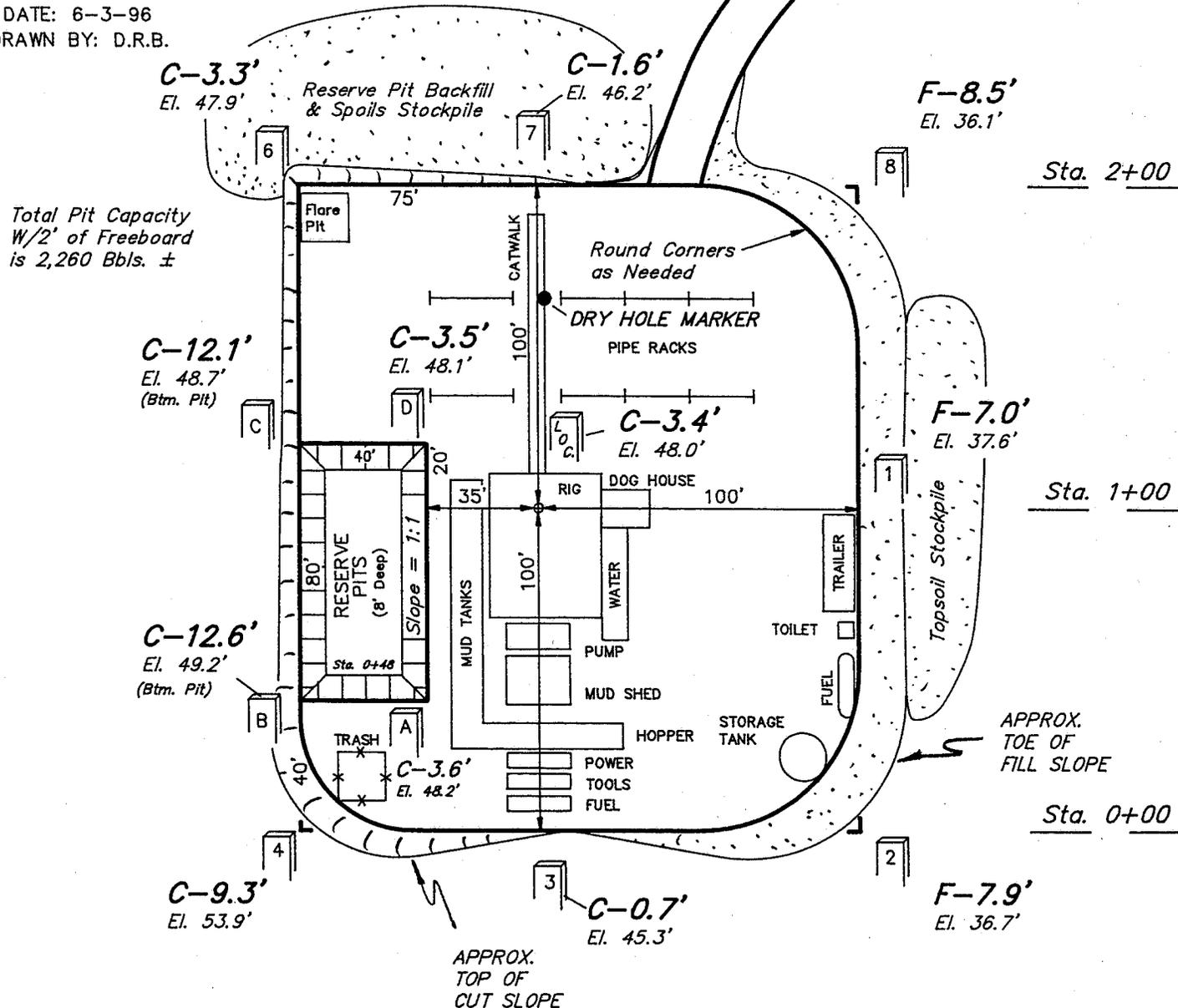
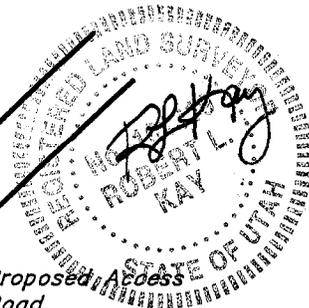
TEXACO EXPLR. & PROD., INC.

LOCATION LAYOUT FOR

STATE OF UTAH "W" #16-24
SECTION 16, T22S, R5E, S.L.B.&M.
1472' FSL 1125' FEL



SCALE: 1" = 50'
DATE: 6-3-96
DRAWN BY: D.R.B.



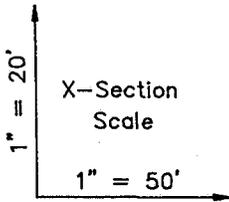
Elev. Ungraded Ground at Location Stake = 6448.0'
Elev. Graded Ground at Location Stake = 6444.6'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (801) 789-1017

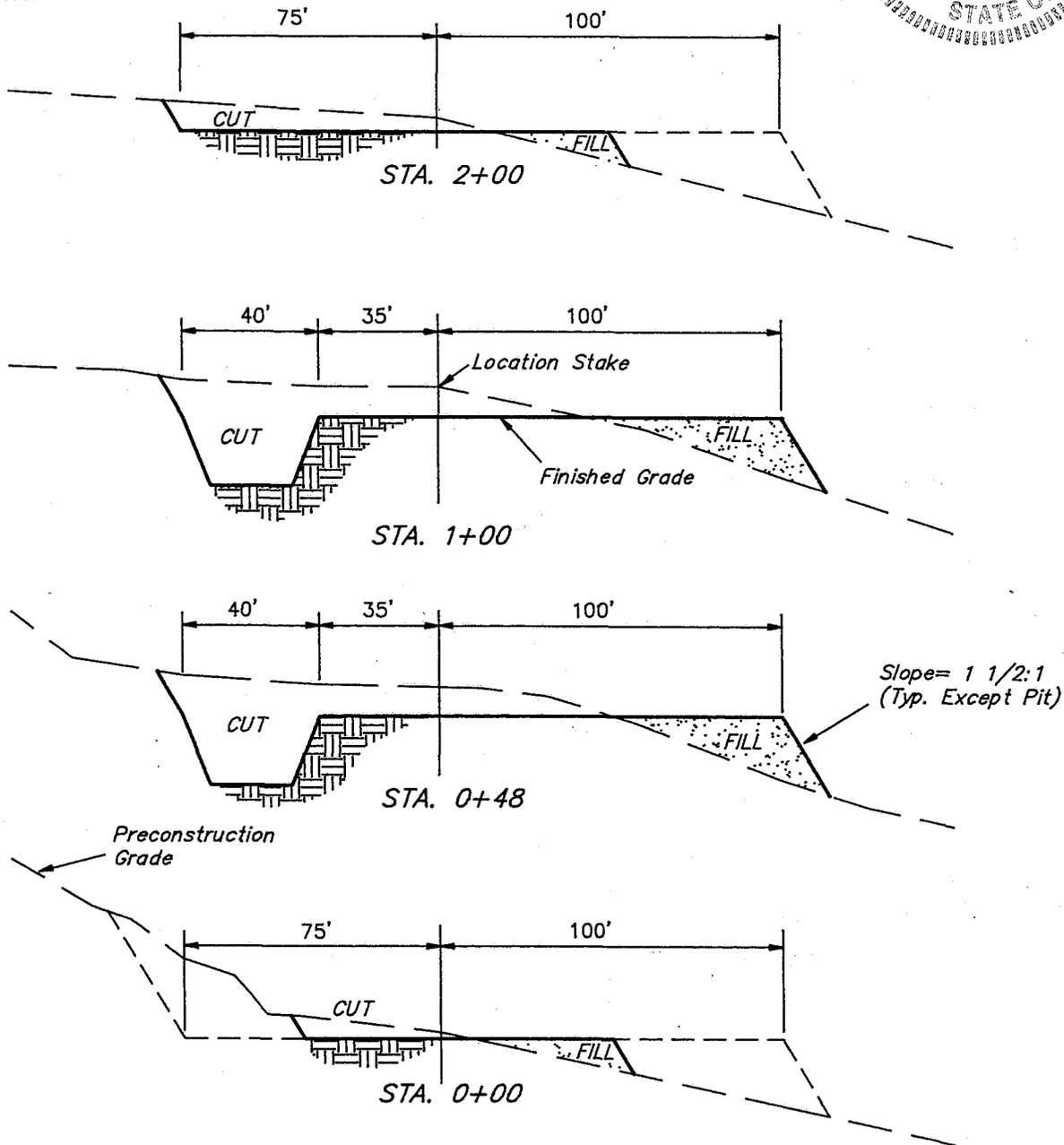
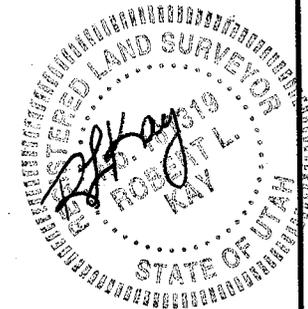
TEXACO EXPLR. & PROD., INC.

LOCATION LAYOUT FOR

STATE OF UTAH "W" #16-24
SECTION 16, T22S, R5E, S.L.B.&M.
1472' FSL 1125' FEL



DATE: 6-3-96
DRAWN BY: D.R.B.

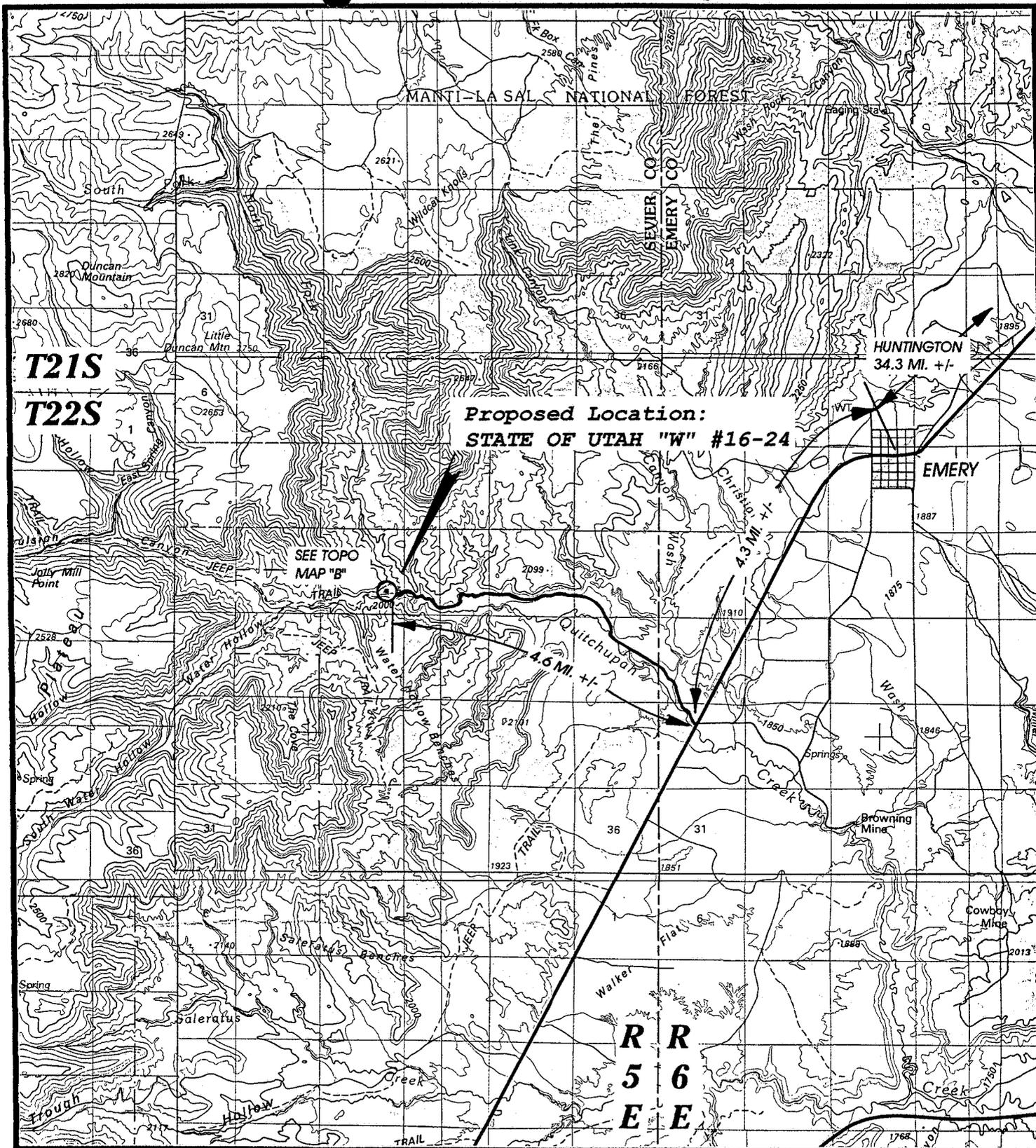


APPROXIMATE YARDAGES

CUT		
(6") Topsoil Stripping	=	570 Cu. Yds.
Remaining Location	=	2,970 Cu. Yds.
TOTAL CUT	=	3,540 CU.YDS.
FILL	=	2,490 CU.YDS.

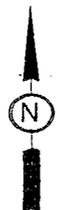
EXCESS MATERIAL AFTER 5% COMPACTION	=	920 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	920 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	=	0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (801) 789-1017



UELS

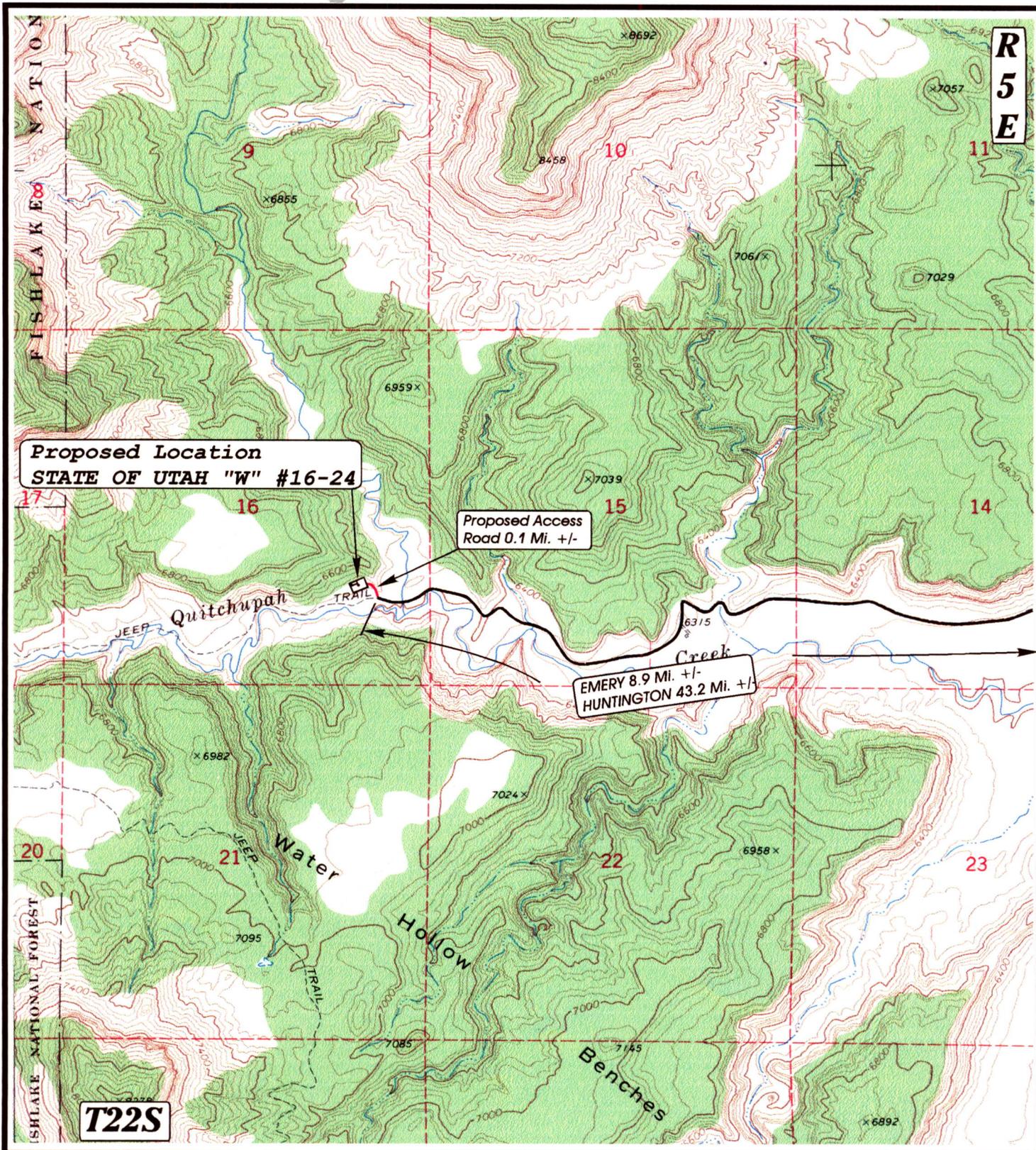
**TOPOGRAPHIC
MAP "A"**
DATE: 4-10-96
Drawn by: D.R.B.
Revised: 6-3-96 D.COX



TEXACO EXPLR. & PROD., INC.

STATE OF UTAH "W" #16-24
SECTION 16, T22S, R5E, S.L.B.&M.
1472' FSL 1125' FEL

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017



**R
5
E**

**Proposed Location
STATE OF UTAH "W" #16-24**

**Proposed Access
Road 0.1 Mi. +/-**

**EMERY 8.9 Mi. +/-
HUNTINGTON 43.2 Mi. +/-**

T22S

UELS

**TOPOGRAPHIC
MAP "B"**

DATE: 4-12-96

Drawn by: D.R.B.

Revised: 6-3-96 D.COX

**UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017**



TEXACO EXPLR.& PROD., INC.

**STATE OF UTAH "W" #16-24
SECTION 16, T22S, R5E, S.L.B.&M.
1472' FSL 1125' FEL**

SCALE: 1" = 2000'

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. Type of Work **DRILL** **DEEPEN**
 1b. Type of Well **SINGLE ZONE**
OIL WELL **GAS WELL** **OTHER COAL-BED METHANE** **MULTIPLE ZONE**

2. Name of Operator **TEXACO EXPLORATION & PRODUCTION, INC.**

3. Address and Telephone No. **3300 N. Butler Ave., Suite 100 Farmington NM 87401 325-4397**

4. Location of Well (Report location clearly and in accordance with any State requirements. *)
 At Surface Unit Letter **I** : **1596** Feet From The **SOUTH** Line and **607** Feet From The **EAST** Line
 At proposed prod. zone

14. Distance In Miles and Direction from Nearest Town or Post Office*
APPROX. 9 MI. SOUTHWEST OF EMERY, UT

15. Distance From Proposed* Location to Nearest Property or Lease Line, Ft. (also to nearest drlg. unit line, if any) **607'**

18. Distance From Proposed Location* to Nearest Well, Drilling, Completed or Applied For, On This Lease, Ft. **N/A**

21. Elevations (Show whether DF, RT, GR, etc.)
 KB **DF** **6420'** **GR**

5. Lease Designation and Serial No.
ML-47105

6. If Indian, Alottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and Number
STATE OF UTAH 'W'

16-24

9. API Well No.

10. Field and Pool, Exploratory Area
WILDCAT

11. SEC., T., R., M., or BLK. and Survey or Area
 Sec. **16**, Township **T22S**, Range **R5E**

12. County or Parish **SEVIER**

13. State **UT**

17. No. of Acres Assigned To This Well
160 AC.

22. Approx. Date Work Will Start*
6/15/96

23. PROPOSED CASING AND CEMENT PROGRAM

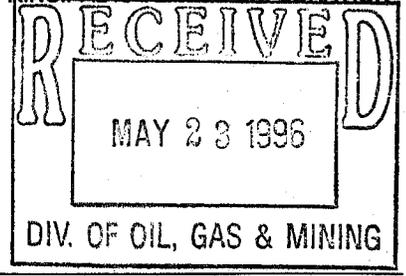
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
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7-7/8"	5-1/2"	17#	2490'	190 SX

Describe Proposed Program: If proposal is to deepen, 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 true verticle depths. Give blowout preventer program, if any.

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BOND COVERAGE FOR THIS WELL IS PROVIDED BY BOND NO. CO-0058 (NATIONWIDE BOND). THE PRINCIPAL IS TEXACO EXPLORATION & PRODUCTION, INC. VIA SURETY CONSENT AS PROVIDED FOR IN 43 CFR-3104.2.



24. (This space for State use only)
 SIGNATURE *Ted A. Tipton* TITLE **Operating Unit Manager** DATE **5/16/96**
 TYPE OR PRINT NAME **Ted A. Tipton**

API Number Assigned. APPROVAL _____

T22S, R5E, S.L.B.&M.

TEXACO EXPLR. & PROD., INC.

Well location, STATE OF UTAH "W" #16-24, located as shown in the NE 1/4 SE 1/4 of Section 16, T22S, R5E, S.L.B.&M. Sevier County, Utah.

WEST - 79.48 (G.L.O.)

NORTH - (G.L.O.)

NORTH - (G.L.O.)

16

STATE OF UTAH "W" #16-24
Elev. Ungraded Ground = 6420'

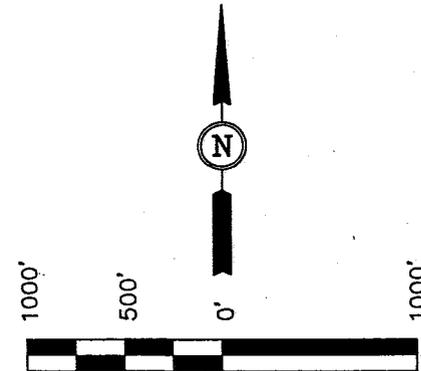
607' (Comp.)

1596' (Comp.)

N81°53'30"W
11,315.3' From
NW Cor. Sec. 24
T22S, R5E, S.L.B.&M.
(2" Pipe, Mound of Stones)

BASIS OF ELEVATION

SPOT ELEVATION NEAR A ROAD INTERSECTION LOCATED IN THE SE 1/4 OF SECTION 15, T22S, R5E, S.L.B.&M. TAKEN FROM THE EMERY WEST QUADRANGLE, UTAH, SEVIER COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6315 FEET.



SCALE

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

ROBERT L. ...
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

REVISED: 4-24-96 D.R.B.

WEST - 79.56 (G.L.O.)

LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

NOTE:
BASIS OF BEARINGS IS A SOLAR OBSERVATION TAKEN IN THE NW 1/4 OF SECTION 24, T22S, R5E, S.L.B.&M.

UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 4-11-96	DATE DRAWN: 4-12-96
PARTY D.A. K.H. D.R.B.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE TEXACO EXPLR. & PROD., INC.	

THIRTEEN POINT SURFACE USE PLAN

OPERATOR: TEXACO EXPLORATION & PRODUCTION, INC.
WELL NAME: STATE OF UTAH 'W' # 16-24
LEASE NUMBER: ML-47105
LOCATION: 1596' FSL - 607' FEL, SECTION 16, T22S/R5E SLPM, SEVIER CO., UTAH

1. EXISTING ROADS.

- A. THE PROPOSED WELL SITE IS LOCATED APPROXIMATELY 9 MILES SOUTHWEST OF EMERY, UTAH.
- B. DIRECTIONS TO THE LOCATION FROM EMERY, UTAH ARE AS FOLLOWS:

FROM EMERY, UTAH, PROCEED SOUTH ON HIGHWAY #10 APPROX. 4.3 MI. TO EXISTING GRAVEL ROAD TO RIGHT(WEST), TAKE THIS ROAD APPROX. 4.7 MI. FOLLOW ROAD FLAGS TO LOCATION.
- C. THIS WELL WILL REQUIRE APPROX. 200' NEW ACCESS ROAD.
- D. MINOR IMPROVEMENT AND GRADING WILL BE NECESSARY ON EXISTING ACCESS ROAD.
- E. ALL EXISTING ROADS WILL BE MAINTAINED AND KEPT IN GOOD REPAIR DURING ALL DRILLING AND COMPLETION OPERATIONS ASSOCIATED WITH THIS WELL.
- F. EXISTING ROADS AND THE EXISTING ACCESS ROAD UNDER THE JURISDICTION OF ANY SURFACE MANAGING AGENCY SHALL BE MAINTAINED IN ACCORDANCE WITH THE STANDARDS OF THE S.M.A.

2. PLANNED ACCESS ROAD.

- A. APPROX. 200' OF NEW ACCESS ROAD IS REQUIRED FOR THE SUBJECT WELL. APPROXIMATELY .5 MI. OF ROUGH GRADED ROAD WILL REQUIRE SOME UPGRADING. THE ROAD WILL BE FLATBLADED WITH A RUNNING SURFACE OF APPROXIMATELY 25 FT.. IF NECESSARY, APPROPRIATE WATER CONTROL CULVERTS WILL BE INSTALLED TO CONTROL EROSION. CONSTRUCTION WILL NOT CHANGE EXISTING DRAINAGE.
- B. THE ROAD WILL BE UPGRADED AND MAINTAINED AS REQUIRED BY THE S.M.A.
- C. MAXIMUM GRADE WILL BE 8%.
- D. TURNOUTS WILL BE CONSTRUCTED AS REQUIRED BY THE S.M.A.
- E. LOW WATER CROSSINGS WILL BE INSTALLED ALONG THE ACCESS WHERE NEEDED.
- F. SURFACING MATERIAL WILL BE DEPENDENT UPON S.M.A. REQUIREMENTS.
- G. GATES AND CATTLEGUARDS WILL BE INSTALLED AS NECESSARY.
- H. SURFACE DISTURBANCE AND VEHICULAR TRAVEL WILL BE LIMITED TO THE APPROVED LOCATION AND APPROVED ACCESS ROUTE. ANY ADDITIONAL AREA NEEDED WILL BE APPROVED IN ADVANCE.

3. **LOCATION OF EXISTING WELLS WITHIN A 1-MILE RADIUS OF THE PROPOSED LOCATION.**

- A. WATER WELLS - UNKNOWN
- B. INJECTION WELLS - NONE
- C. PRODUCING WELLS - NONE
- D. DRILLING WELLS - NONE

4. **LOCATION OF TANK BATTERIES AND PRODUCTION FACILITIES.**

- A. ALL PERMANENT STRUCTURES (ONSITE FOR SIX MONTHS OR LONGER) CONSTRUCTED OR INSTALLED WILL BE PAINTED A NEUTRAL COLOR TO BLEND WITH THE SURROUNDING ENVIRONMENT. FACILITIES REQUIRED TO COMPLY WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) WILL BE EXCLUDED.
- B. IF STORAGE FACILITIES/TANK BATTERIES ARE CONSTRUCTED ON THIS LEASE, THE FACILITY /BATTERY OR THE WELLPAD SHALL BE SURROUNDED BY A CONTAINMENT DIKE OF SUFFICIENT CAPACITY TO CONTAIN AT A MINIMUM, THE ENTIRE CONTENT OF THE LARGEST TANK WITHIN THE FACILITY/BATTERY, UNLESS MORE STRINGENT PROTECTIVE REQUIREMENTS ARE DEEMED NECESSARY BY THE AUTHORIZED OFFICER.
- C. ALL LOADING LINES WILL BE PLACED INSIDE THE BERM SURROUNDING THE TANK BATTERY.
- D. GAS MEASUREMENT DEVICES WILL BE LOCATED IN ACCORDANCE WITH THE REGULATORY BODY.
- E. ALL METER MEASUREMENT FACILITIES WILL CONFORM WITH ONSHORE OIL AND GAS ORDER NO. 4 FOR LIQUID HYDROCARBONS AND ONSHORE OIL AND GAS ORDER NO. 5 FOR NATURAL GAS MEASUREMENT.
- F. ANY NECESSARY PITS WILL BE PROPERLY FENCED TO PREVENT ANY WILDLIFE ENTRY.
- G. ALL SITE SECURITY GUIDELINES IDENTIFIED IN 43 CFR 3162.7 REGULATIONS WILL BE ADHERED TO.
- H. ALL OFF-LEASE STORAGE, OFF-LEASE MEASUREMENT, OR COMMINGLING ON-LEASE OR OFF-LEASE WILL HAVE PRIOR WRITTEN APPROVAL FROM THE AUTHORIZED OFFICER.
- I. ALL ACCESS ROADS WILL BE MAINTAINED AS NECESSARY TO PREVENT EROSION AND ACCOMMODATE YEAR-ROUND TRAFFIC.
- J. THE ROAD WILL BE MAINTAINED IN A SAFE USEABLE CONDITION.
- K. WATER PRODUCED DURING THE TEST PHASE OF THIS WELL WILL BE STORED IN STORAGE TANKS ON LOCATION AND HAULED TO AN APPROVED DISPOSAL SITE. IF THE PROJECT SEEMS VIABLE BASED ON TEST RESULTS, A DISPOSAL METHOD WILL BE SUBMITTED.

5. **LOCATION AND TYPE OF WATER SUPPLY.**

- A. ALL WATER NEEDED FOR DRILLING PURPOSES WILL BE OBTAINED FROM A LOCAL WATER SOURCE. SINCE THIS WELL WILL BE PRIMARILY DRILLED WITH AIR, MINIMAL WATER WILL BE NECESSARY.
- B. WATER WILL BE HAULED TO LOCATION OVER THE ROADS MARKED ON MAPS ATTACHED.
- C. NO WATER WELL IS TO BE DRILLED ON THIS LEASE, WITHOUT PROPER APPROVAL OF DIVISION OF WATER RIGHTS IN PRICE, UTAH.

- D. ALL APPROPRIATE PERMITS WILL BE FILED WITH THE DIVISION OF WATER RIGHTS IN PRICE, UTAH.

6. SOURCE OF CONSTRUCTION MATERIALS.

- A. SURFACE AND SUBSOIL MATERIALS IN THE IMMEDIATE AREA WILL BE UTILIZED.
- B. ANY GRAVEL USED WILL BE OBTAINED FROM A COMMERCIAL SOURCE.
- C. THE USE OF MATERIALS UNDER BLM JURISDICTION WILL CONFORM WITH 43 CFR 3610.2.3.
- D. NO CONSTRUCTION MATERIALS WILL BE REQUIRED TO BE REMOVED FROM FEDERAL LAND AND ALL CONSTRUCTION ITEMS WILL BE PURCHASED FROM A THIRD PARTY.

7. METHODS OF HANDLING WASTE DISPOSAL.

- A. SINCE THE PROPOSED WELL WILL BE AIR-DRILLED, ONLY A SMALL RESERVE PIT WILL BE NECESSARY. THE RESERVE PIT WILL BE CONSTRUCTED SO AS NOT TO LEAK, BREAK, OR ALLOW DISCHARGE. THE RESERVE PIT WILL BE LINED IF DETERMINED NECESSARY AT THE TIME OF CONSTRUCTION.
- B. IF THE PIT IS LINED, A PLASTIC NYLON REINFORCED LINER WILL BE USED. IT WILL BE A MINIMUM OF 12 MIL THICKNESS WITH SUFFICIENT BEDDING (EITHER STRAW OR DIRT) TO COVER ANY ROCKS. THE LINER WILL OVERLAP THE PIT WALLS AND BE COVERED WITH DIRT AND/OR ROCKS TO HOLD IT IN PLACE. NO TRASH, SCRAP PIPE, ETC., THAT COULD PUNCTURE THE LINER WILL BE DISPOSED OF IN THE PIT.
- C. ALL TRASH WILL BE CONTAINED IN A TRASH CAGE AND ITS CONTENTS REMOVED AT THE END OF DRILLING OPERATIONS AND HAULED TO AN APPROVED DISPOSAL SITE.
- D. AFTER FIRST PRODUCTION, PRODUCED WATER WILL BE CONFINED TO A STORAGE TANK FOR A PERIOD NOT TO EXCEED NINETY (90) DAYS. DURING THE 90-DAY PERIOD, IN ACCORDANCE WITH ONSHORE ORDER NO. 7, AN APPLICATION FOR APPROVAL OF A PERMANENT DISPOSAL METHOD AND LOCATION, ALONG WITH THE REQUIRED WATER ANALYSIS, WILL BE SUBMITTED FOR THE AO'S APPROVAL.
- E. DRILL CUTTINGS ARE TO BE CONTAINED AND BURIED IN THE RESERVE PIT.
- F. ANY SALTS AND/OR CHEMICALS WHICH ARE AN INTEGRAL PART OF THE DRILLING SYSTEM, WILL BE DISPOSED OF IN THE SAME MANNER AS THE DRILLING FLUID.
- G. SEWAGE WILL BE PLACED IN A PORTABLE CHEMICAL TOILET OR HOLDING TANK AND DISPOSED OF IN ACCORDANCE WITH STATE AND COUNTY REGULATIONS.
- H. THE PRODUCED FLUIDS WILL BE PRODUCED INTO A TEST TANK UNTIL SUCH TIME AS CONSTRUCTION OF PRODUCTION FACILITIES IS COMPLETED. ANY SPILLS OF OIL, GAS, SALT WATER OR OTHER PRODUCED FLUIDS WILL BE CLEANED UP.

8. ANCILLARY FACILITIES.

- A. THERE ARE NO AIRSTRIPS, CAMPS, OR OTHER FACILITIES PLANNED DURING THE DRILLING OF THE PROPOSED WELL.

9. **WELL SITE LAYOUT.**

- A. THE RESERVE PIT WILL BE LOCATED ON THE WEST SIDE OF THE LOCATION.
- B. THE STOCKPILED TOPSOIL (FIRST SIX INCHES) WILL BE STORED ALONG THE NORTH AND EAST SIDE OF THE WELLPAD AS SHOWN ON THE RIG LAYOUT.
- C. SEE LOCATION LAYOUT FOR ORIENTATION OF RIG, CROSS SECTION OF DRILL PAD AND CUTS AND FILLS.
- D. THE LOCATION OF MUD TANKS, RESERVE PIT, TRASH CAGE, PIPE RACKS, LIVING FACILITIES AND SOIL STOCKPILES ARE SHOWN ON THE LOCATION LAYOUT.
- E. ALL PITS WILL BE FENCED TO PREVENT WILDLIFE ENTRY.
- F. THE RESERVE PIT FENCING WILL BE ON THREE SIDES DURING OPERATIONS AND ON THE FOURTH SIDE WHEN THE RIG MOVES OFF LOCATION. PITS WILL BE FENCED AND MAINTAINED UNTIL CLEANUP.

10. **PLANS FOR RESTORATION OF SURFACE.**

PRODUCING LOCATION

- A. IMMEDIATELY UPON WELL COMPLETION, THE LOCATION AND SURROUNDING AREA WILL BE CLEARED OF ALL UNUSED TUBING, EQUIPMENT, DEBRIS, MATERIALS, TRASH AND JUNK NOT REQUIRED FOR PRODUCTION.
- B. IMMEDIATELY UPON WELL COMPLETION, ANY HYDROCARBONS ON THE PIT SHALL BE REMOVED IN ACCORDANCE WITH 43 CFR 3162.7-1.
- C. IF A PLASTIC NYLON REINFORCED LINER IS USED, IT SHALL BE TORN AND PERFORATED BEFORE BACKFILLING OF THE RESERVE PIT.
- D. ONCE THE RESERVE PIT IS DRY, THE RESERVE PIT AND THAT PORTION OF THE LOCATION NOT NEEDED FOR PRODUCTION FACILITIES/OPERATIONS WILL BE RECONTOURED TO THE APPROXIMATE NATURAL CONTOURS.
- E. THE LOCATION WILL BE RECLAIMED AND RESEEDED AS REQUESTED BY THE SURFACE MANAGEMENT AGENCY.

DRY HOLE

- F. AT SUCH TIME AS THE WELL IS PLUGGED AND ABANDONED, THE OPERATOR SHALL SUBMIT A SUBSEQUENT REPORT OF ABANDONMENT AND WILL RECLAIM LANDS AS PER GUIDELINES PURSUANT TO AO.

11. **SURFACE OWNERSHIP.**

- A. ACCESS ROADS - ALL EXISTING IMPROVED ROADS ARE COUNTY MAINTAINED AND ENCROACHMENT IS BEING APPLIED FOR. THE EXISTING ACCESS ROAD IS OWNED AND MANAGED BY THE JOHNSON CATTLE CO. AND EASEMENT IS NEGOTIATED, APPROVAL PENDING.
- B. WELLPAD - THE WELLPAD IS LOCATED ON LANDS OWNED AND MANAGED BY STATE OF UTAH.

OWNER ADDRESS:

STATE OF UTAH - SITLA
355 W. NORTH TEMPLE
3 TRIAD CENTER, SUITE 400

12. **OTHER INFORMATION.**

- A. ALL LEASE AND/OR UNIT OPERATIONS WILL BE CONDUCTED IN SUCH A MANNER THAT FULL COMPLIANCE IS MADE WITH ALL APPLICABLE LAWS, REGULATIONS, ONSHORE OIL AND GAS ORDERS, THE APPROVED PLAN OF OPERATIONS, AND ANY APPLICABLE NOTICE TO LESSEES. THE OPERATOR IS FULLY RESPONSIBLE FOR THE ACTIONS OF HIS SUBCONTRACTORS. A COPY OF THESE CONDITIONS WILL BE FURNISHED TO THE REPRESENTATIVE TO INSURE COMPLIANCE.
- D. A COMPLETE COPY OF THE APPROVED APD SHALL BE ON LOCATION DURING CONSTRUCTION OF THE LOCATION AND DRILLING ACTIVITIES.
- E. THERE WILL BE NO DEVIATION FROM THE PROPOSED DRILLING AND/OR WORKOVER PROGRAM WITHOUT PRIOR APPROVAL FROM THE AO. SAFE DRILLING AND OPERATING PRACTICES MUST BE OBSERVED. ALL WELLS, WHETHER DRILLING, PRODUCING, SUSPENDED, OR ABANDONED WILL BE IDENTIFIED IN ACCORDANCE WITH 43 CFR 3162.H.
- F. "SUNDRY NOTICE AND REPORT ON WELLS" (FORM 3160-5) WILL BE FILED FOR APPROVAL FOR ALL CHANGES OF PLANS AND OTHER OPERATIONS IN ACCORDANCE WITH 43 CFR 3162.3-2.
- G. THIS PERMIT WILL BE VALID FOR A PERIOD OF ONE YEAR FROM THE DATE OF APPROVAL. AN EXTENSION PERIOD MAY BE GRANTED, IF REQUESTED, PRIOR TO THE EXPIRATION OF THE ORIGINAL APPROVAL PERIOD.
- H. A CLASS III ARCHAEOLOGY SURVEY WILL BE CONDUCTED BY AN APPROVED ARCHAEOLOGICAL CONSULTANT. THIS SURVEY WILL BE CONDUCTED AT THE TIME OF ON-SITE INSPECTION BY THE S.M.A. A COPY OF THE REPORT WILL BE SUPPLIED TO THE STATE HISTORIC PRESERVATION OFFICE (SHPO).
- I. IF DETERMINED ECONOMIC, A PRODUCTION FLOWLINE AND WATER GATHERING LINE WILL BE PLACED ON LEASE.

13. LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION.

PERMIT MATTERS
TEXACO E. & P., INC.
TED A. TIPTON
3300 N. BUTLER AVE.
FARMINGTON, NM 87401
(505) 325-4397

DRILLING AND COMPLETION MATTERS
TEXACO E. & P., INC.
P.O. BOX 46510
DENVER, CO 80201-6510
(303) 793-4000 MAIN NUMBER
(303) 793-4936 - (W) STEVE GODFREY
(303) 347-0737 - (H)

CERTIFICATION

I HEREBY CERTIFY THAT I, OR PERSONS UNDER MY DIRECT SUPERVISION, HAVE INSPECTED THE PROPOSED DRILLSITE AND ACCESS ROUTE; THAT I AM FAMILIAR WITH THE CONDITIONS WHICH PRESENTLY EXIST; THAT THE STATEMENTS MADE IN THIS PLAN ARE, TO THE BEST OF MY KNOWLEDGE, TRUE AND CORRECT; AND, THAT THE WORK ASSOCIATED WITH THE OPERATIONS PROPOSED HEREIN WILL BE PERFORMED BY TEXACO EXPLORATION & PRODUCTION, INC. AND ITS CONTRACTORS AND SUBCONTRACTORS IN CONFORMITY WITH THE PLAN AND THE TERMS AND CONDITIONS UNDER WHICH IT IS APPROVED.

THIS STATEMENT IS SUBJECT TO THE PROVISIONS OF 18.U.S.C. 1001 FOR THE FILING OF A FALSE STATEMENT.

5/20/94

DATE:

Ted A. Tipton

TED A. TIPTON
OPERATIONS UNIT MANAGER
TEXACO E. & P., INC.

DRILLING PROGRAM

OPERATOR: TEXACO EXPLORATION & PRODUCTION, INC.
WELL NAME: STATE OF UTAH 'W' #16-24
LEASE NUMBER: ML-47105
LOCATION: 1596' FSL - 607' FEL, SECTION 16, T22S/R5E SLPM, SEVIER CO., UTAH

1. **ESTIMATED TOPS OF GEOLOGIC MARKERS.**

THE ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS ARE AS FOLLOWS:

<u>FORMATION</u>	<u>DEPTH</u>	<u>SUBSEA</u>
BLUEGATE	100'	+6345'
FERRON	1910'	+4535'
T.D.	2490'	+3955'

2. **ESTIMATED DEPTHS OF ANTICIPATED OIL, GAS, WATER, OR OTHER MINERAL BEARING ZONES.**

<u>SUBSTANCE</u>	<u>FORMATION</u>	<u>DEPTH</u>
WATER, GAS	FERRON COALS	1910
GAS	FERRON SANDSTONES	1910
OIL	N/A	
OTHER MINERALS	N/A	

ALL FRESH WATER AND PROSPECTIVELY VALUABLE MINERALS ENCOUNTERED DURING DRILLING, WILL BE RECORDED BY DEPTH AND ADEQUATELY PROTECTED. ALL OIL AND GAS SHOWS WILL BE TESTED TO DETERMINE COMMERCIAL POTENTIAL.

ALL WATER SHOWS AND WATER-BEARING SANDS WILL BE REPORTED TO THE UTAH DEPT. OF MINERALS OFFICE ON FORM OGC-8-X. IF NOTICEABLE WATER FLOWS ARE DETECTED, SAMPLES WILL BE SUBMITTED TO THE STATE ALONG WITH ANY WATER ANALYSIS CONDUCTED.

3. **BOP EQUIPMENT.**

TEXACO'S MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL EQUIPMENT ARE AS FOLLOWS:

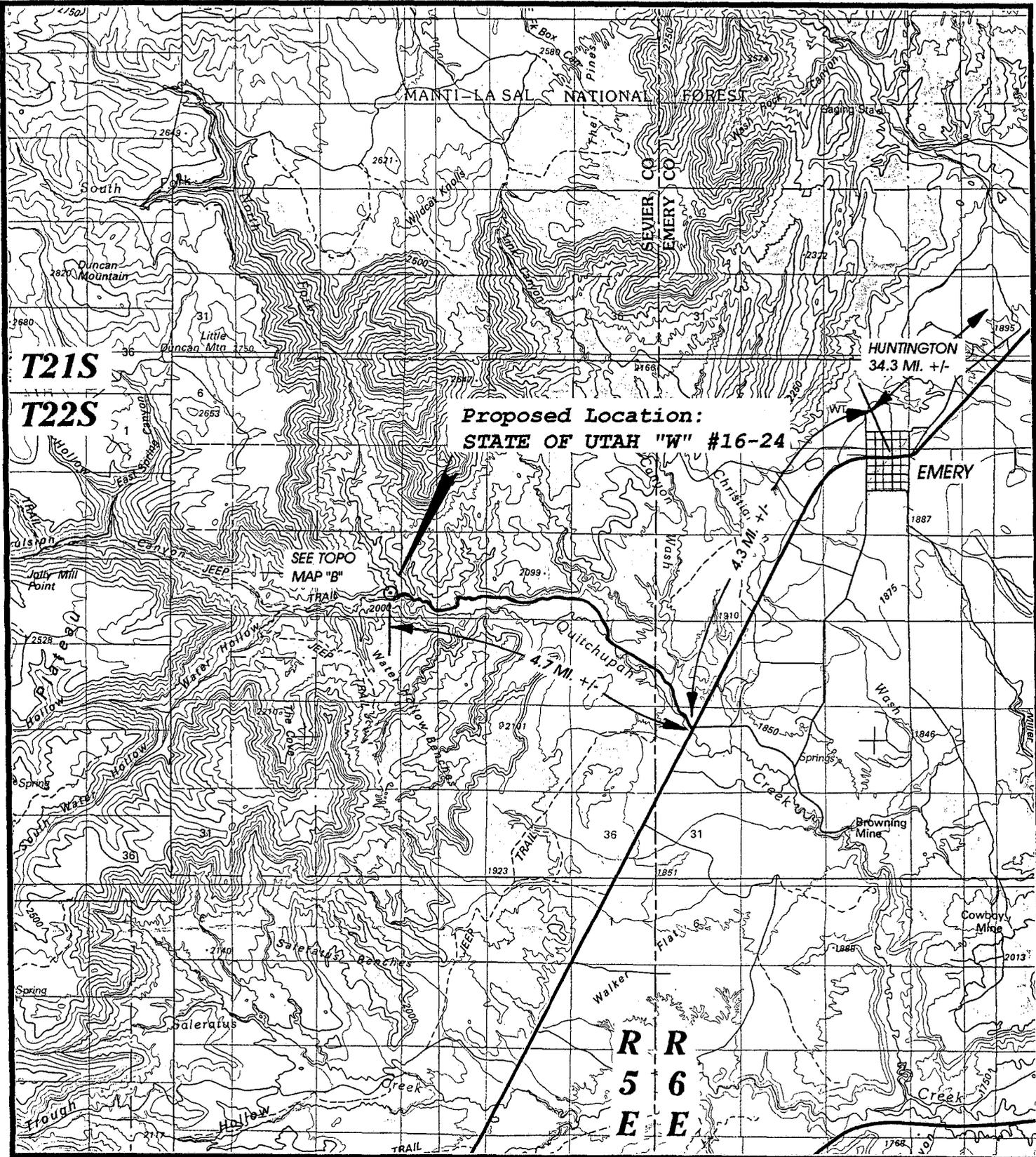
RAM TYPE: 11" HYDRAULIC DOUBLE, 2000 PSI W.P.

RAM TYPE PREVENTERS AND ASSOCIATED EQUIPMENT SHALL BE TESTED TO APPROVED STACK WORKING PRESSURE IF ISOLATED BY TEST PLUG OR TO 70 PERCENT OF INTERNAL YIELD PRESSURE OF CASING. PRESSURE SHALL BE MAINTAINED FOR AT LEAST 10 MINUTES OR UNTIL REQUIREMENTS OF TEST ARE MET, WHICHEVER IS LONGER. IF A TEST PLUG IS UTILIZED, NO BLEED-OFF PRESSURE IS ACCEPTABLE. FOR A TEST NOT UTILIZING A TEST PLUG, IF A DECLINE IN PRESSURE OF MORE THAN 10 PERCENT IN 30 MINUTES OCCURS, THE TEST SHALL BE CONSIDERED TO HAVE FAILED. VALVE ON CASING HEAD BELOW TEST PLUG SHALL BE OPEN DURING TEST OF BOP STACK.

ANNULAR TYPE PREVENTERS (IF USED) SHALL BE TESTED TO 50 PERCENT OF RATED WORKING PRESSURE. PRESSURE SHALL BE MAINTAINED AT LEAST 10 MINUTES OR UNTIL PROVISIONS OF TEST ARE MET, WHICHEVER IS LONGER.

AS A MINIMUM, THE ABOVE TEST SHALL BE PERFORMED:

- A. WHEN INITIALLY INSTALLED;
- B. WHENEVER ANY SEAL SUBJECT TO TEST PRESSURE IS BROKEN



T21S
T22S

Proposed Location:
STATE OF UTAH "W" #16-24

R R
5 6
E E

UELS

TOPOGRAPHIC
MAP "A"
DATE: 4-10-96
Drawn by: D.R.B.
Revised: 4-24-96 D.R.B.



TEXACO EXPLR. & PROD., INC.
STATE OF UTAH "W" #16-24
SECTION 16, T22S, R5E, S.L.B.&M.
1596' FSL 607' FEL

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017

- C. FOLLOWING RELATED REPAIRS; AND
- D. AT 30 DAY INTERVALS

VALVES SHALL BE TESTED FROM WORKING PRESSURE SIDE DURING BOPE TESTS WITH ALL DOWNSTREAM VALVES OPEN.

WHEN TESTING THE KILL LINE VALVE(S), THE CHECK VALVE SHALL BE HELD OPEN OR THE BALL REMOVED.

ANNULAR PREVENTERS (IF USED) SHALL BE FUNCTIONALLY OPERATED AT LEAST WEEKLY.

PIPE AND BLIND RAMS SHALL BE ACTIVATED EACH TRIP, HOWEVER, THIS FUNCTION NEED NOT BE PERFORMED MORE THAN ONCE A DAY.

A BOPE PIT LEVEL DRILL SHALL BE CONDUCTED WEEKLY FOR EACH DRILLING CREW.

PRESSURE TESTS SHALL APPLY TO ALL RELATED WELL CONTROL EQUIPMENT.

ALL OF THE ABOVE DESCRIBED TESTS AND/OR DRILLS SHALL BE RECORDED IN THE DRILLING LOG. TEST CHARTS, WITH INDIVIDUAL TEST RESULTS IDENTIFIED, SHALL BE MAINTAINED ON LOCATION WHILE DRILLING AND SHALL BE MADE AVAILABLE TO A BLM REPRESENTATIVE UPON REQUEST. PRESSURE TESTS SHALL APPLY TO ALL RELATED WELL CONTROL EQUIPMENT.

BOP SYSTEMS SHALL BE CONSISTENT WITH API RP53. PRESSURE TESTS WILL BE CONDUCTED BEFORE DRILLING OUT FROM UNDER CASING STRINGS WHICH HAVE BEEN SET AND CEMENTED IN PLACE. BLOWOUT PREVENTER CONTROLS WILL BE INSTALLED PRIOR TO DRILLING THE SURFACE CASING PLUG AND WILL REMAIN IN USE UNTIL THE WELL IS COMPLETED OR ABANDONED. PREVENTERS WILL BE INSPECTED AND OPERATED AT LEAST DAILY TO ENSURE GOOD MECHANICAL WORKING ORDER, AND THIS INSPECTION WILL BE RECORDED ON THE DAILY DRILLING REPORT. PREVENTERS WILL BE PRESSURE TESTED BEFORE DRILLING CASING CEMENT PLUGS.

THE UTAH DEPT. OF MINERALS OFFICE SHALL BE NOTIFIED, AT LEAST 24 HOURS PRIOR TO INITIATING THE PRESSURE TEST, IN ORDER TO HAVE A REPRESENTATIVE ON LOCATION DURING PRESSURE TESTING.

- A. THE SIZE AND RATING OF THE BOP STACK IS SHOWN ON THE ATTACHED DIAGRAM. ALTHOUGH A RIG HAS NOT BEEN CHOSEN TO DRILL THIS WELL, MOST OF THE EQUIPMENT FOR THIS DEPTH OF HOLE IN THE AREA USE A 11", 2000 PSI WORKING PRESSURE BLOWOUT PREVENTER.
- B. A CHOKE LINE AND A KILL LINE ARE TO BE PROPERLY INSTALLED. THE KILL LINE IS NOT TO BE USED AS A FILL UP LINE.
- C. THE ACCUMULATOR SYSTEM SHALL HAVE A PRESSURE CAPACITY TO PROVIDE FOR REPEATED OPERATION OF HYDRAULIC PREVENTORS.
- D. DRILL STRING SAFETY VALVE(S), TO FIT ALL TOOLS IN THE DRILL STRING, ARE TO BE MAINTAINED ON THE RIG FLOOR WHILE DRILLING OPERATIONS ARE IN PROGRESS.

4. CASING AND CEMENTING PROGRAMS.

- A. THE DEPT. OF MINERALS OFFICE SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE RUNNING AND CEMENTING OF ALL CASING STRINGS, IN ORDER TO HAVE A REPRESENTATIVE ON LOCATION WHILE RUNNING AND CEMENTING ALL CASING STRINGS.
- B. THE PROPOSED CASING AND CEMENTING PROGRAM SHALL BE CONDUCTED AS APPROVED TO PROTECT AND/OR ISOLATE ALL USABLE WATER ZONES, POTENTIALLY PRODUCTIVE ZONES, LOST CIRCULATION ZONES, ABNORMALLY PRESSURED ZONES, AND ANY PROSPECTIVELY VALUABLE DEPOSITS OF MINERALS. ANY ISOLATING MEDIUM OTHER THAN CEMENT SHALL RECEIVE APPROVAL PRIOR TO USE. THE CASING SETTING DEPTH SHALL BE CALCULATED TO POSITION THE CASING SEAT OPPOSITE A COMPETENT FORMATION WHICH WILL CONTAIN THE MAXIMUM

PRESSURE TO WHICH IT WILL BE EXPOSED DURING NORMAL DRILLING OPERATIONS. DETERMINATIONS OF CASING SETTINGS DEPTH SHALL BE BASED ON ALL RELEVANT FACTORS, INCLUDING; PRESENCE/ABSENCE OF HYDROCARBONS; FRACTURE GRADIENTS; USABLE WATER ZONES; FORMATION PRESSURES; LOST CIRCULATION ZONES; OTHER MINERALS; OR OTHER UNUSUAL CHARACTERISTICS. ALL INDICATIONS OF USABLE WATER SHALL BE REPORTED.

- C. CASING DESIGN SHALL ASSUME FORMATION PRESSURE GRADIENTS OF 0.44 TO 0.50 PSI PER FOOT FOR EXPLORATORY WELLS (LACKING BETTER DATA).
- D. CASING DESIGN SHALL ASSUME FRACTURE GRADIENTS FROM 0.70 TO 1.00 PSI PER FOOT FOR EXPLORATORY WELLS (LACKING BETTER DATA).
- E. CASING COLLARS SHALL HAVE A MINIMUM CLEARANCE OF 0.422 INCHES OF ALL SIDES IN THE HOLE/CASING ANNULUS, WITH RECOGNITION THAT VARIANCES CAN BE GRANTED FOR JUSTIFIED EXCEPTIONS.
- F. ALL WAITING ON CEMENT TIMES SHALL BE ADEQUATE TO ACHIEVE A MINIMUM OF 500 PSI COMPRESSIVE STRENGTH AT THE CASING SHOE PRIOR TO DRILLING OUT.
- G. ALL CASING EXCEPT THE CONDUCTOR CASING, SHALL BE NEW OR RECONDITIONED AND TESTED, USING CASING THAT MEETS OR EXCEEDS API STANDARDS FOR NEW CASING.
- H. THE SURFACE CASING SHALL BE CEMENTED BACK TO SURFACE EITHER DURING THE PRIMARY CEMENTING JOB OR BY REMEDIAL CEMENTING.
- I. ALL INDICATIONS OF USABLE WATER SHALL BE REPORTED TO THE AUTHORIZED OFFICER PRIOR TO RUNNING THE NEXT STRING OF CASING OR BEFORE PLUGGING ORDERS ARE REQUESTED, WHICHEVER OCCURS FIRST.
- J. THE SURFACE CASING SHALL HAVE CENTRALIZERS ON THE BOTTOM THREE JOINTS OF CASING (A MINIMUM OF ONE CENTRALIZER PER JOINT, STARTING WITH THE SHOE JOINT), THEN EVERY FOURTH JOINT OF CASING UP TO THE BOTTOM OF THE CELLAR.
- K. TOP PLUGS SHALL BE USED TO REDUCE CONTAMINATION OF CEMENT BY DISPLACEMENT FLUID. A BOTTOM PLUG OR OTHER ACCEPTABLE TECHNIQUE, SUCH AS A SUITABLE PREFLUSH FLUID, INNER STRING CEMENT METHOD, ETC. SHALL BE UTILIZED TO HELP ISOLATE THE CEMENT FROM CONTAMINATION BY THE MUD FLUID BEING DISPLACED AHEAD OF THE CEMENT SLURRY.
- L. ALL CASING STRINGS BELOW THE CONDUCTOR SHALL BE PRESSURE TESTED TO 0.22 PSI PER FOOT OF CASING STRING LENGTH OR 1500 PSI, WHICHEVER IS GREATER, BUT NOT TO EXCEED 70 PERCENT OF THE MINIMUM INTERNAL YIELD. IF PRESSURE DECLINES MORE THAN 10 PERCENT IN 30 MINUTES, CORRECTIVE ACTION SHALL BE TAKEN.
- M. ON ALL EXPLORATORY WELLS, AND ON THAT PORTION OF ANY WELL APPROVED FOR A 5M BOPE SYSTEM OR GREATER, A PRESSURE INTEGRITY TEST OF EACH CASING SHOE SHALL BE PERFORMED. FORMATION AT THE SHOE SHALL BE TESTED TO A MINIMUM OF THE MUD WEIGHT EQUIVALENT ANTICIPATED TO CONTROL THE FORMATION PRESSURE TO THE CASING DEPTH OR AT TOTAL DEPTH OF THE WELL. THIS TEST SHALL BE PERFORMED BEFORE DRILLING MORE THAN 20 FEET OF NEW HOLE.
- N. THE PROPOSED CASING PROGRAM WILL BE AS FOLLOWS:

<u>PURPOSE</u>	<u>DEPTH</u>	<u>HOLE SIZE</u>	<u>O.D.</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>TYPE</u>	<u>NEW OR USED</u>
SURFACE	0-300'	17-1/2"	13-3/8"	48#	H-40	ST&C	NEW
INTERMEDIATE	0-1910'	12-1/4"	8-5/8"	32#	K-55	LT&C	NEW
PRODUCTION LINER	1710'-2490'	7-7/8"	5-1/2"	17#	N-80	LT&C	NEW

- O. CASING DESIGN SUBJECT TO REVISION BASED ON GEOLOGIC CONDITIONS ENCOUNTERED.
- P. THE CEMENT PROGRAM WILL BE AS FOLLOWS:

<u>SURFACE</u>	<u>TYPE AND AMOUNT</u>
0-300'	CEMENT TO SURFACE WITH 400 SX CLASS 'G' CEMENT WITH 2% CaCl ₂ AND 1/4#/SK FLOCELE. 15.8 PPG, 1.15 CU FT./SK
<u>INTERMEDIATE</u>	<u>TYPE AND AMOUNT</u>
LEAD 1410'-0'	CEMENT TO SURFACE WITH 220 SX CLASS 'G' CEMENT WITH 12% GEL, AND 1% SALT. 11.0 PPG, 3.91 CU FT/SK
TAIL 1910'-1410'	CEMENT WITH 210 SX RFC 10-1 BLEND. 14.2 PPG, 1.61 CU FT/SK
<u>PRODUCTION LINER</u>	<u>TYPE AND AMOUNT</u>
2490'-1710'	CEMENT TO 200' ABOVE INTERMEDIATE SHOE(TOC @+/- 1710') WITH 190 SX CEMENT RFC 10-1 BLEND. 14.2 PPG, 1.61 CU FT/SK

- Q. THE DEPT. OF MINERALS OFFICE SHOULD BE NOTIFIED, WITH SUFFICIENT LEAD TIME, IN ORDER TO HAVE A REPRESENTATIVE ON LOCATION WHILE RUNNING AND CEMENTING ALL CASING STRINGS.
- R. AFTER CEMENTING, BUT BEFORE COMMENCING ANY TEST, THE CASING STRING SHALL STAND CEMENTED UNTIL THE CEMENT HAS REACHED A COMPRESSIVE STRENGTH OF AT LEAST 500 PSI AT THE SHOE. WOC TIME SHALL BE RECORDED IN THE DRILLER'S LOG.
- S. THE FOLLOWING REPORTS SHALL BE FILED WITH THE DEPT OF MINERALS WITHIN 30 DAYS AFTER THE WORK IS COMPLETED.
 - 1. PROGRESS REPORTS, FORM 3160-5 (FORMERLY 9-331) "SUNDRY NOTICES AND REPORTS ON WELLS", MUST INCLUDE COMPLETE INFORMATION CONCERNING:
 - A. SETTING OF EACH STRING OF CASING, SHOWING THE SIZE, GRADE, WEIGHT OF CASING SET, HOLE SIZE, SETTING DEPTH, AMOUNTS AND TYPES OF CEMENT USED, WHETHER CEMENT CIRCULATED OR THE TOP OF THE CEMENT BEHIND THE CASING, DEPTH OF CEMENTING TOOLS USED, CASING TEST METHOD AND RESULTS, AND THE DATE WORK WAS DONE. SHOW THE SPUD DATE ON THE FIRST REPORT SUBMITTED.
- T. AUXILIARY EQUIPMENT TO BE USED IS AS FOLLOWS:
 - 1. KELLY COCK
 - 2. NO BIT FLOAT IS DEEMED NECESSARY.
 - 3. A SUB WITH A FULL OPENING VALVE.

5. **MUD PROGRAM**

A. THE PROPOSED CIRCULATING MEDIUMS TO BE EMPLOYED IN DRILLING ARE AS FOLLOWS:

<u>INTERVAL</u>	<u>MUD TYPES</u>	<u>MUD WEIGHT</u>	<u>VISC.</u>	<u>F/L</u>	<u>PH</u>
0-1910'	AIR	--	--	--	--
1910'-2490'	FRESH WATER GEL	8.6/8.9	--	--	--

IF TOO MUCH WATER IS ENCOUNTERED TO AIR DRILL, A FRESH WATER GEL MUD SYSTEM WILL BE UTILIZED BEFORE 1910'. AFTER SETTING INTERMEDIATE CASING STRING AT 1910', MUD SYSTEM WILL BE SWITCHED TO FRESH WATER GEL MUD.

B. THE RIG IS NOT EQUIPPED WITH AN AUTO-IGNITOR OR DEBUSTER EQUIPMENT.

C. HAZARDOUS SUBSTANCES SPECIFICALLY LISTED BY THE E.P.A. AS A HAZARDOUS WASTE OR DEMONSTRATING A CHARACTERISTIC OF A HAZARDOUS WASTE WILL NOT BE USED IN DRILLING, TESTING OR COMPLETION OPERATIONS. DUE TO POTENTIAL CONTAMINATION OF USABLE QUALITY WATER AQUIFERS, CHROMATES ARE BANNED FROM FEDERAL LEASES.

6. **EVALUATION PROGRAM.**

THE ANTICIPATED TYPE AND AMOUNT OF TESTING, LOGGING AND CORING ARE AS FOLLOWS:

A. NO DRILL STEM TESTS (DST) ARE ANTICIPATED, HOWEVER, IF DST'S ARE RUN, THE FOLLOWING REQUIREMENTS WILL BE ADHERED TO:

INITIAL OPENING OF DST TOOLS SHALL BE RESTRICTED TO DAYLIGHT HOURS, UNLESS SPECIFIC APPROVAL TO START DURING OTHER HOURS IS OBTAINED FROM THE AUTHORIZED OFFICER. HOWEVER, DST'S MAY BE ALLOWED TO CONTINUE AT NIGHT IF THE TEST WAS INITIATED DURING DAYLIGHT HOURS AND THE RATE OF FLOW IS STABILIZED AND IF ADEQUATE LIGHTING IS AVAILABLE (I.E. LIGHTING WHICH IS ADEQUATE FOR VISIBILITY AND VAPOR-PROOF FOR SAFE OPERATIONS). PACKERS CAN BE RELEASED, BUT TRIPPING SHALL NOT BEGIN BEFORE DAYLIGHT, UNLESS PRIOR APPROVAL IS OBTAINED FROM THE AUTHORIZED OFFICER. CLOSED CHAMBER DST'S MAY BE ACCOMPLISHED DAY OR NIGHT.

A DST THAT FLOWS TO THE SURFACE WITH EVIDENCE OF HYDROCARBONS SHALL BE EITHER REVERSED OUT OF THE TESTING STRING UNDER CONTROLLED SURFACE CONDITIONS. THIS WOULD INVOLVE PROVIDING SOME MEANS FOR REVERSE CIRCULATION.

SEPARATION EQUIPMENT REQUIRED FOR THE ANTICIPATED RECOVERY SHALL BE PROPERLY INSTALLED BEFORE A TEST STARTS.

ALL ENGINES WITHIN 100 FEET OF THE WELLBORE THAT ARE REQUIRED TO "RUN" DURING THE TEST SHALL HAVE SPARK ARRESTERS OR WATER COOLED EXHAUSTS.

B. THE LOGGING PROGRAM WILL CONSIST OF A GR-LDT-CNL FROM 910'-2490'. A HIGH RESOLUTION COAL LOG WILL BE RUN FROM 1910'-2490'. A GR-SFL-DIL LOG WILL BE RUN FROM 300'-2490'.

C. WELL WILL BE CORED FROM APPROXIMATELY 1910' TO 2240' IN THE FERRON INTERVAL.

D. WHETHER THE WELL IS COMPLETED AS A DRY HOLE OR AS A PRODUCER, "WELL COMPLETION AND RECOMPLETION REPORT AND LOG" (FORM 3160-4) WILL BE SUBMITTED NOT LATER THAN 30 DAYS AFTER COMPLETION OF THE WELL OR AFTER COMPLETION OF OPERATIONS PERFORMED, IN ACCORDANCE WITH 43 CFR 3164. TWO COPIES OF ALL LOGS, CORE DESCRIPTIONS, CORE ANALYSES, WELL-TEST DATA, GEOLOGIC SUMMARIES, SAMPLE DESCRIPTION, AND ALL OTHER

SURVEYS OR DATA OBTAINED AND COMPILED DURING THE DRILLING, WORKOVER, AND/OR COMPLETION OPERATIONS, WILL BE FILED WITH FORM 3160-4. SAMPLES (CUTTINGS, FLUIDS, AND/OR GASES) WILL BE SUBMITTED WHEN REQUESTED BY THE AUTHORIZED OFFICER (AO).

E. THE ANTICIPATED COMPLETION PROGRAM IS AS FOLLOWS:

SET 5-1/2" PRODUCTION LINER. PERFORATE AND FRACTURE TREAT FERRON FORMATION. FLOW TEST.

7. **ABNORMAL PRESSURES AND H2S GAS.**

A. NO ABNORMAL CONDITIONS ARE ANTICIPATED; FORMATION IS SLIGHTLY OVER-PRESSURED. THE ESTIMATED BOTTOM-HOLE PRESSURE IS 1545 PSI. NO ABNORMAL TEMPERATURES ARE ANTICIPATED.

B. NO HYDROGEN SULFIDE GAS IS ANTICIPATED.

8. **NOTIFICATION REQUIREMENTS AND OTHER INFORMATION.**

A. SHOULD THE WELL BE SUCCESSFULLY COMPLETED FOR PRODUCTION, THE AO WILL BE NOTIFIED WHEN THE WELL IS PLACED IN A PRODUCING STATUS. SUCH NOTIFICATION WILL BE SENT BY TELEGRAM OR OTHER WRITTEN COMMUNICATIONS, NOT LATER THAN 5 DAYS FOLLOWING THE DATE ON WHICH THE WELL IS PLACED ON PRODUCTION.

B. PRODUCTION DATA SHALL BE REPORTED TO THE MMS PURSUANT TO 30 CFR 216.5 USING FORM MMS/3160.

C. THE DATE ON WHICH PRODUCTION IS COMMENCED OR RESUMED WILL BE CONSTRUED FOR OIL WELLS AS THE DATE ON WHICH LIQUID HYDROCARBONS ARE FIRST SOLD OR SHIPPED FROM A TEMPORARY STORAGE FACILITY, SUCH AS A TEST TANK, AND FOR WHICH A RUN TICKET IS REQUIRED TO BE GENERATED OR, THE DATE ON WHICH LIQUID HYDROCARBONS ARE FIRST PRODUCED INTO A PERMANENT STORAGE FACILITY, WHICHEVER FIRST OCCURS; AND FOR GAS WELLS AS THE DATE ON WHICH ASSOCIATED LIQUID HYDROCARBONS ARE FIRST SOLD OR SHIPPED FROM A TEMPORARY STORAGE FACILITY, SUCH AS A TEST TANK, AND FOR WHICH A RUN TICKET IS REQUIRED TO BE GENERATED OR THE DATE ON WHICH GAS IS FIRST MEASURED THROUGH PERMANENT METERING FACILITIES, WHICHEVER FIRST OCCURS.

D. PURSUANT TO NTL-4A, LESSEES OR OPERATORS ARE AUTHORIZED TO VENT/FLARE GAS DURING INITIAL WELL EVALUATION TEST, NOT EXCEEDING A PERIOD OF 30 DAYS OR THE PRODUCTION OF 50 MMCF OF GAS, WHICHEVER OCCURS FIRST. AN APPLICATION MUST BE FILED WITH THE DISTRICT ENGINEER AND APPROVAL RECEIVED, FOR ANY VENTING/FLARING OF GAS BEYOND THE INITIAL 30 DAY OR AUTHORIZED TEST PERIOD.

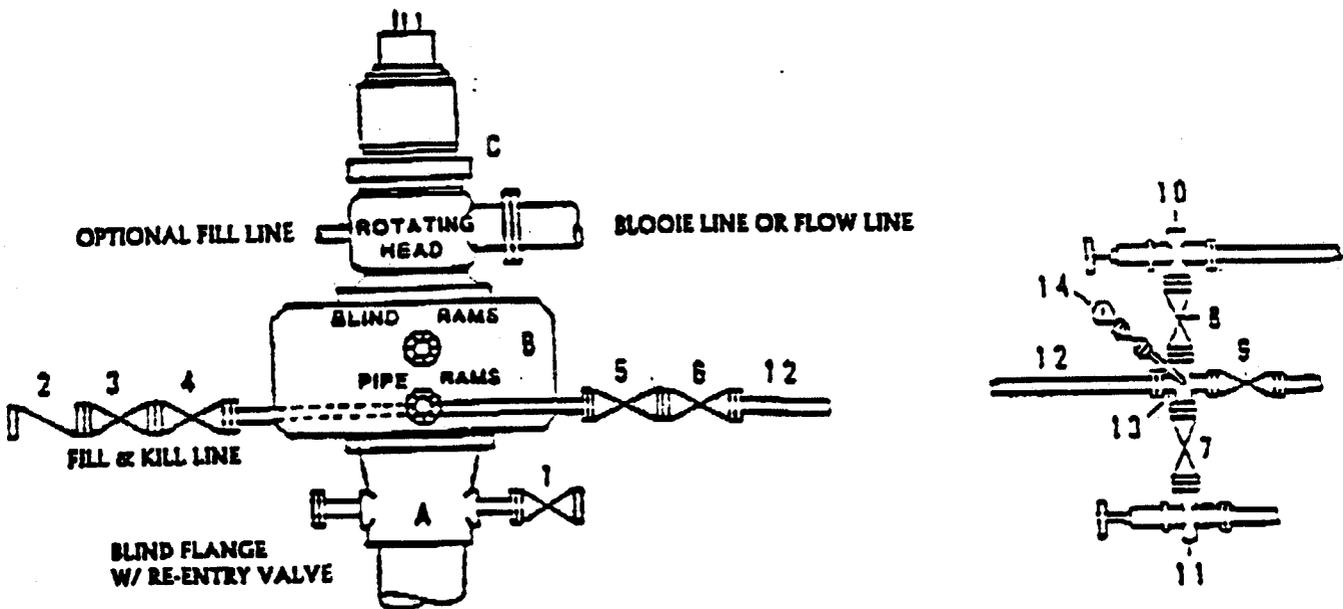
E. GAS PRODUCED FROM THIS WELL MAY NOT BE VENTED OR FLARED BEYOND AN INITIAL AUTHORIZED TEST PERIOD OF 30 DAYS OR 50 MMCF FOLLOWING ITS COMPLETION, WHICHEVER OCCURS FIRST, WITHOUT THE PRIOR WRITTEN APPROVAL OF THE AUTHORIZED OFFICER. SHOULD GAS BE VENTED OR FLARED WITHOUT APPROVAL BEYOND THE AUTHORIZED TEST PERIOD, THE OPERATOR MAY BE DIRECTED TO SHUT-IN THE WELL UNTIL THE GAS CAN BE CAPTURED OR THE OPERATOR SHALL BE REQUIRED TO COMPENSATE THE LESSOR FOR THAT PORTION OF THE GAS VENTED OR FLARED WITHOUT APPROVAL WHICH IS DETERMINED TO HAVE BEEN AVOIDABLY LOST.

F. A SCHEMATIC FACILITIES DIAGRAM AS REQUIRED BY CFR 3162.7-2, 3162.7-3 AND 3162.7-4 SHALL BE SUBMITTED TO THE APPROPRIATE DISTRICT OFFICE WITHIN 30 DAYS OF INSTALLATION OR FIRST PRODUCTION, WHICHEVER OCCURS FIRST. ALL SITE SECURITY REGULATIONS AS SPECIFIED IN 43 CFR 3162.7 AND ONSHORE ORDER NO. 3 SHALL BE ADHERED TO. ALL PRODUCT LINES ENTERING AND LEAVING HYDROCARBON STORAGE TANKS WILL BE EFFECTIVELY SEALED IN ACCORDANCE WITH 43 CFR 3162.7-4.

- G. SECTION 102(B)(3) OF THE FEDERAL OIL AND GAS ROYALTY MANAGEMENT ACT OF 1982, AS IMPLEMENTED BY THE APPLICABLE PROVISIONS OF THE OPERATING REGULATIONS AT TITLE 43 CFR 3162.4-1(C), REQUIRES THAT "NOT LATER THAN THE 5TH BUSINESS DAY AFTER ANY WELL BEGINS PRODUCTION ON WHICH ROYALTY IS DUE ANYWHERE ON A LEASE SITE OR ALLOCATED TO A LEASE SITE, OR RESUMES PRODUCTION IN THE CASE OF A WELL WHICH HAS BEEN OFF PRODUCTION FOR MORE THAN 90 DAYS, THE OPERATOR SHALL NOTIFY THE AUTHORIZED OFFICER BY LETTER OR SUNDRY NOTICE, FORM 3160-5, OR ORALLY TO BE FOLLOWED BY A LETTER OR SUNDRY NOTICE, OF THE DATE ON WHICH SUCH PRODUCTION HAS BEGUN OR RESUMED."
- H. DRILLING WILL COMMENCE AS SOON AS POSSIBLE, UPON APPROVAL OF THIS APPLICATION.
- I. IT IS ANTICIPATED THAT THE DRILLING OF THIS WELL WILL TAKE APPROXIMATELY 8 DAYS.
- J. NO LOCATION WILL BE CONSTRUCTED OR MOVED, NO WELL WILL BE PLUGGED WITHOUT PRIOR APPROVAL OF THE AO. IF OPERATIONS ARE TO BE SUSPENDED, PRIOR APPROVAL OF THE AO WILL BE OBTAINED AND NOTIFICATION GIVEN BEFORE RESUMPTION OF OPERATIONS.
- K. IMMEDIATE REPORT: SPILLS, BLOWOUTS, FIRES, LEAKS, ACCIDENTS, OR ANY OTHER UNUSUAL OCCURRENCES SHALL BE PROMPTLY REPORTED IN ACCORDANCE WITH THE REQUIREMENTS OF NTL-3A OR ITS REVISION.
- L. IF A REPLACEMENT RIG IS USED FOR COMPLETION OPERATIONS, ALL CONDITIONS OF THIS APPROVED PLAN ARE APPLICABLE DURING ALL OPERATIONS CONDUCTED WITH THE REPLACEMENT RIG.
- M. PURSUANT TO ONSHORE ORDER NO. 7, WITH THE APPROVAL OF THE DISTRICT ENGINEER, PRODUCED WATER MAY BE TEMPORARILY DISPOSED OF INTO UNLINED PITS FOR A PERIOD OF UP TO 90 DAYS. DURING THE PERIOD SO AUTHORIZED, AN APPLICATION FOR APPROVAL OF THE PERMANENT DISPOSAL METHOD, ALONG WITH THE REQUIRED WATER ANALYSIS AND OTHER INFORMATION, MUST BE SUBMITTED TO THE DISTRICT ENGINEER.
- N. NO WELL ABANDONMENT OPERATIONS WILL BE COMMENCED WITHOUT THE PRIOR APPROVAL OF THE AO. IN THE CASE OF NEWLY DRILLED DRY HOLES OR FAILURES, AND IN EMERGENCY SITUATIONS, ORAL APPROVAL WILL BE OBTAINED FROM THE AO. A "SUBSEQUENT REPORT OF ABANDONMENT" FORM 3160-5, WILL BE FILED WITH THE AO WITHIN 30 DAYS FOLLOWING COMPLETION OF THE WELL FOR ABANDONMENT. THIS REPORT WILL INDICATE WHERE PLUGS WERE PLACED AND THE CURRENT STATUS OF SURFACE RESTORATION. FINAL ABANDONMENT WILL NOT BE APPROVED UNTIL THE SURFACE RECLAMATION WORK REQUIRED BY THE APPROVED APD OR APPROVED ABANDONMENT NOTICE HAS BEEN COMPLETED TO THE SATISFACTION OF THE AO OR HIS REPRESENTATIVE, OR THE APPROPRIATE SURFACE MANAGING AGENCY.



TYPICAL 2000 p.s.i.
BLOWOUT PREVENTER SCHEMATIC
FOR AIR DRILLING



DRILLING CONTROL

MATERIAL LIST*

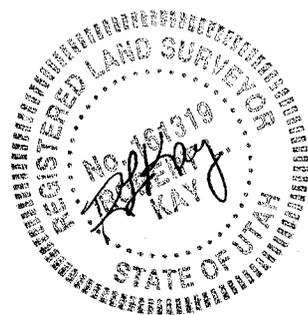
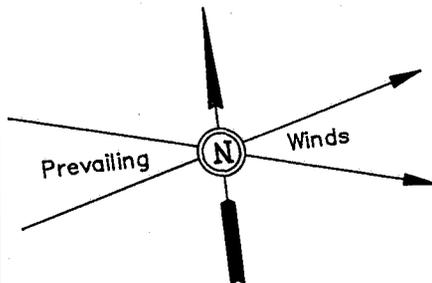
- A Texaco Wellhead.
- B 2000# W.P. Dual ram type preventer, hydraulic operated with 1" steel, 2000# W.P. control lines (where sub-structure height is adequate, 2 - 2000# W.P. single ram type preventers may be utilized).
- C Rotating head with extended Bleed Line (optional fill up outlet).
- 1, 3, 4 2" minimum 2000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve.
- 2 2" minimum 2000# W.P. back pressure valve.
- 5, 6, 9 2" minimum 2000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve.
- 12 2" minimum schedule 80, Grade "B", seamless line pipe.
- 13 2" minimum x 2" minimum 2000# W.P. flanged cross.
- 10, 11 2" minimum 2000# W.P. adjustable choke bodies.
- 14 Cameron Mud Gauge or equivalent (location optional in choke line).
- 15 2" minimum 2000# W.P. flanged or threaded full opening steel gate valve, or Halliburton Lo Torc Plug valve.

*(OR EQUIVALENT)

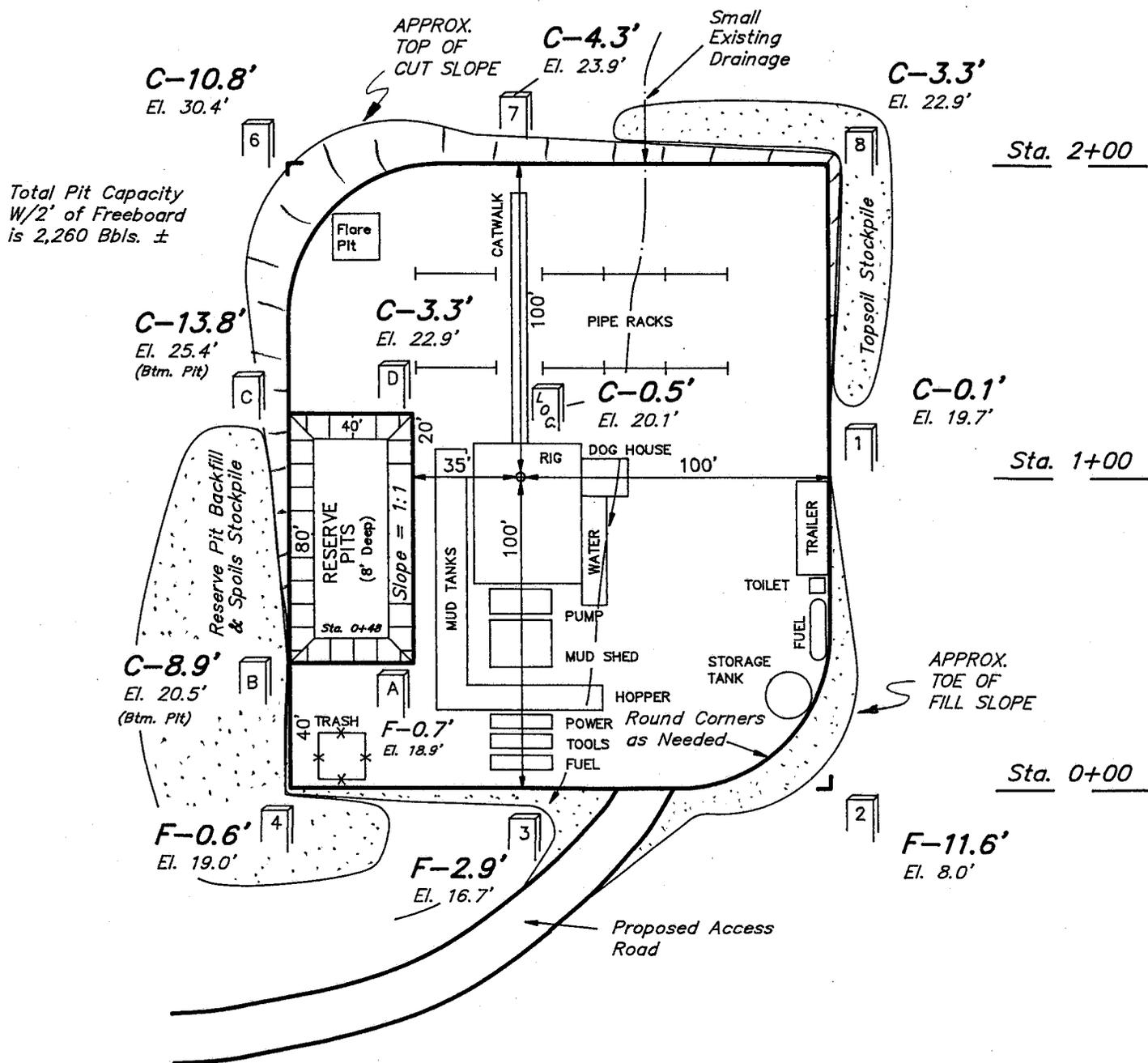
TEXACO EXPLR. & PROD., INC.

LOCATION LAYOUT FOR

**STATE OF UTAH "W" #16-24
SECTION 16, T22S, R5E, S.L.B.&M.
1596' FSL 607' FEL**



SCALE: 1" = 50'
DATE: 4-12-96
DRAWN BY: D.R.B.
REVISED: 4-24-96 D.R.B.



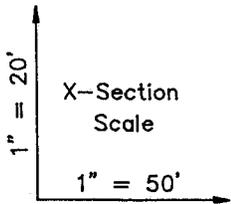
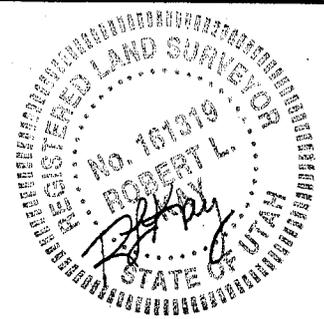
Elev. Ungraded Ground at Location Stake = **6420.1'**
Elev. Graded Ground at Location Stake = **6419.6**

TEXACO EXPLR. & PROD., INC.

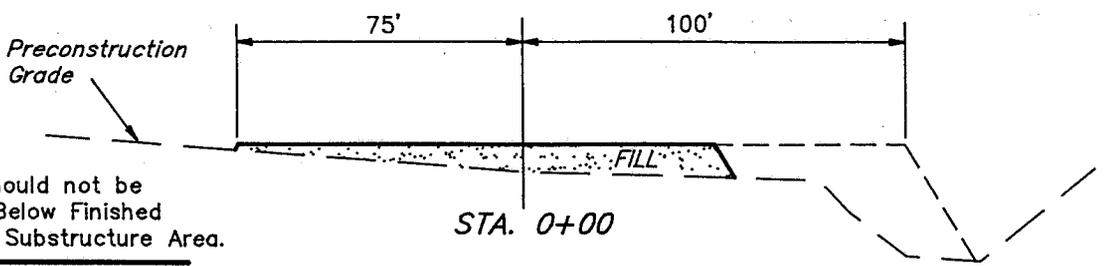
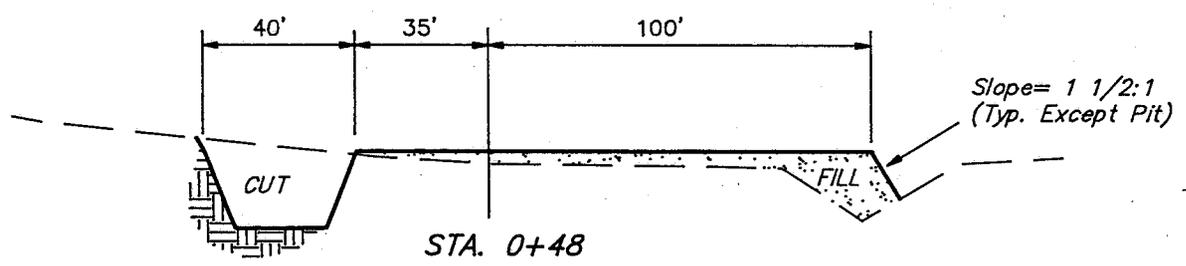
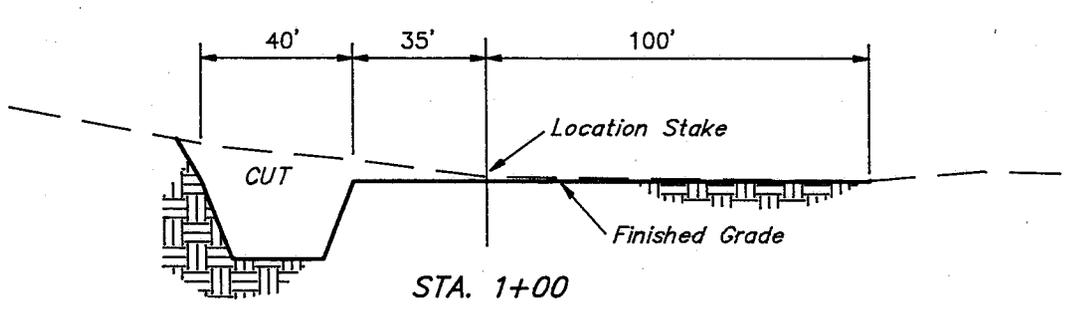
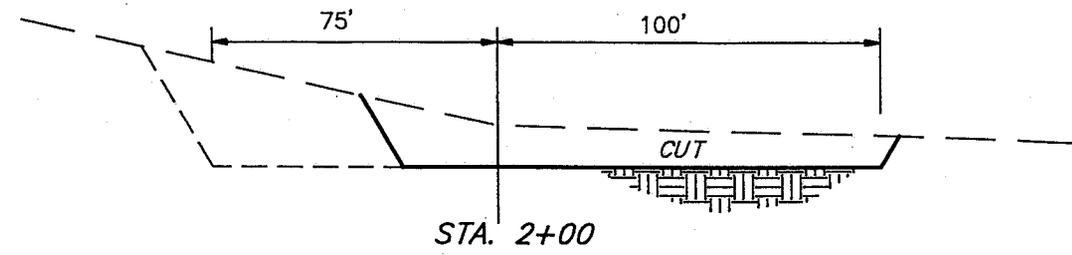
TYPICAL CROSS SECTIONS FOR

STATE OF UTAH "W" #16-24
SECTION 16, T22S, R5E, S.L.B.&M.

1596' FSL 607' FEL



DATE: 4-12-96
DRAWN BY: D.R.B.
REVISED: 4-24-96 D.R.B.



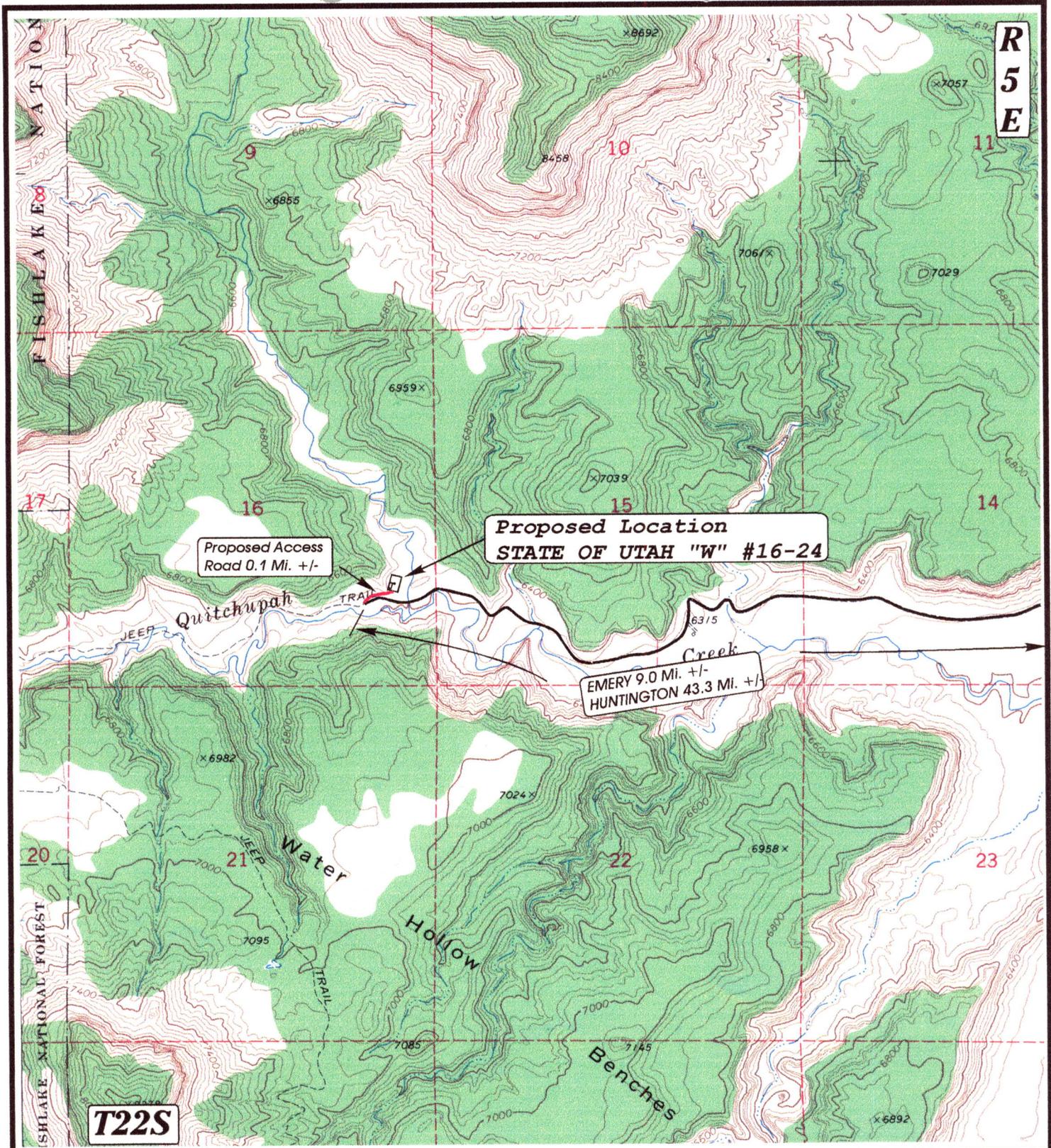
NOTE:
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 650 Cu. Yds.
Remaining Location	= 2,970 Cu. Yds.
TOTAL CUT	= 3,620 CU.YDS.
FILL	= 1,530 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	= 2,010 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 1,000 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 1,010 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (801) 789-1017



**TOPOGRAPHIC
MAP "B"**

DATE: 4-12-96

Drawn by: D.R.B.

Revised: 4-24-96 D.R.B.

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85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017



TEXACO EXPLR.& PROD., INC.

STATE OF UTAH "W" #16-24
SECTION 16, T22S, R5E, S.L.B.&M.
1596' FSL 607' FEL

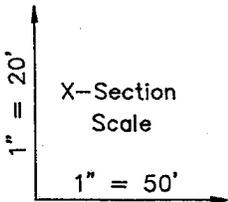
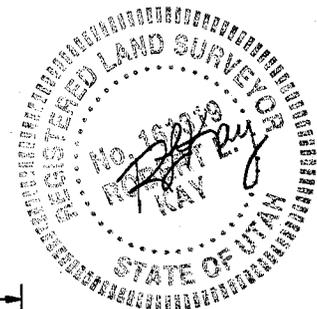
SCALE: 1" = 2000'

TEXACO EXPLR. & PROD., INC.

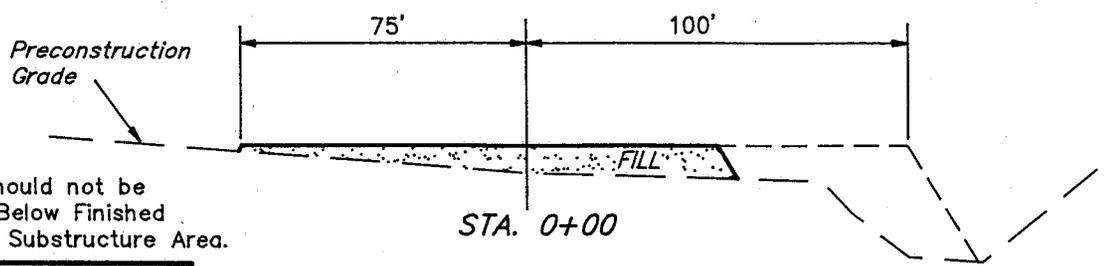
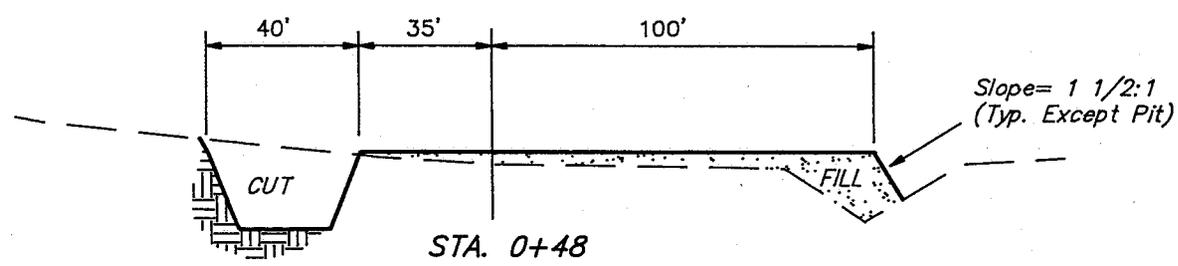
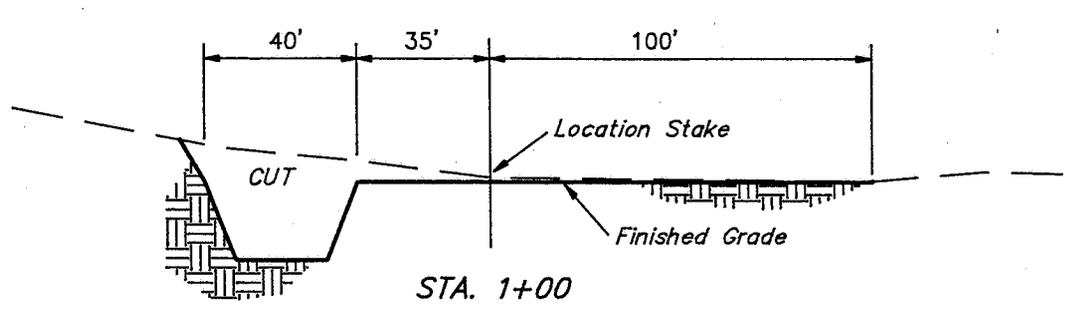
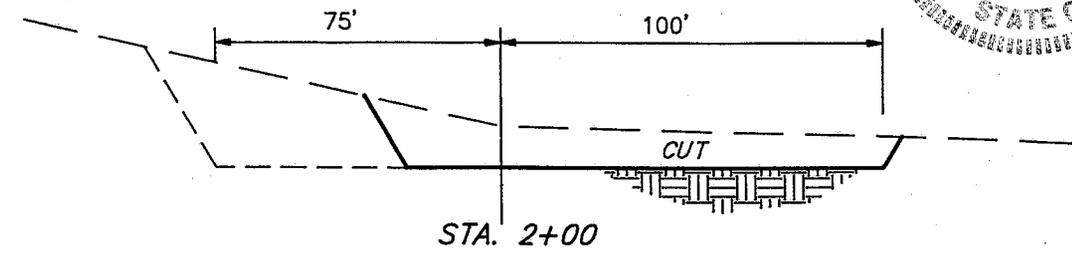
TYPICAL CROSS SECTIONS FOR

STATE OF UTAH "W" #16-24
SECTION 16, T22S, R5E, S.L.B.&M.

1596' FSL 607' FEL



DATE: 4-12-96
DRAWN BY: D.R.B.
REVISED: 4-24-96 D.R.B.



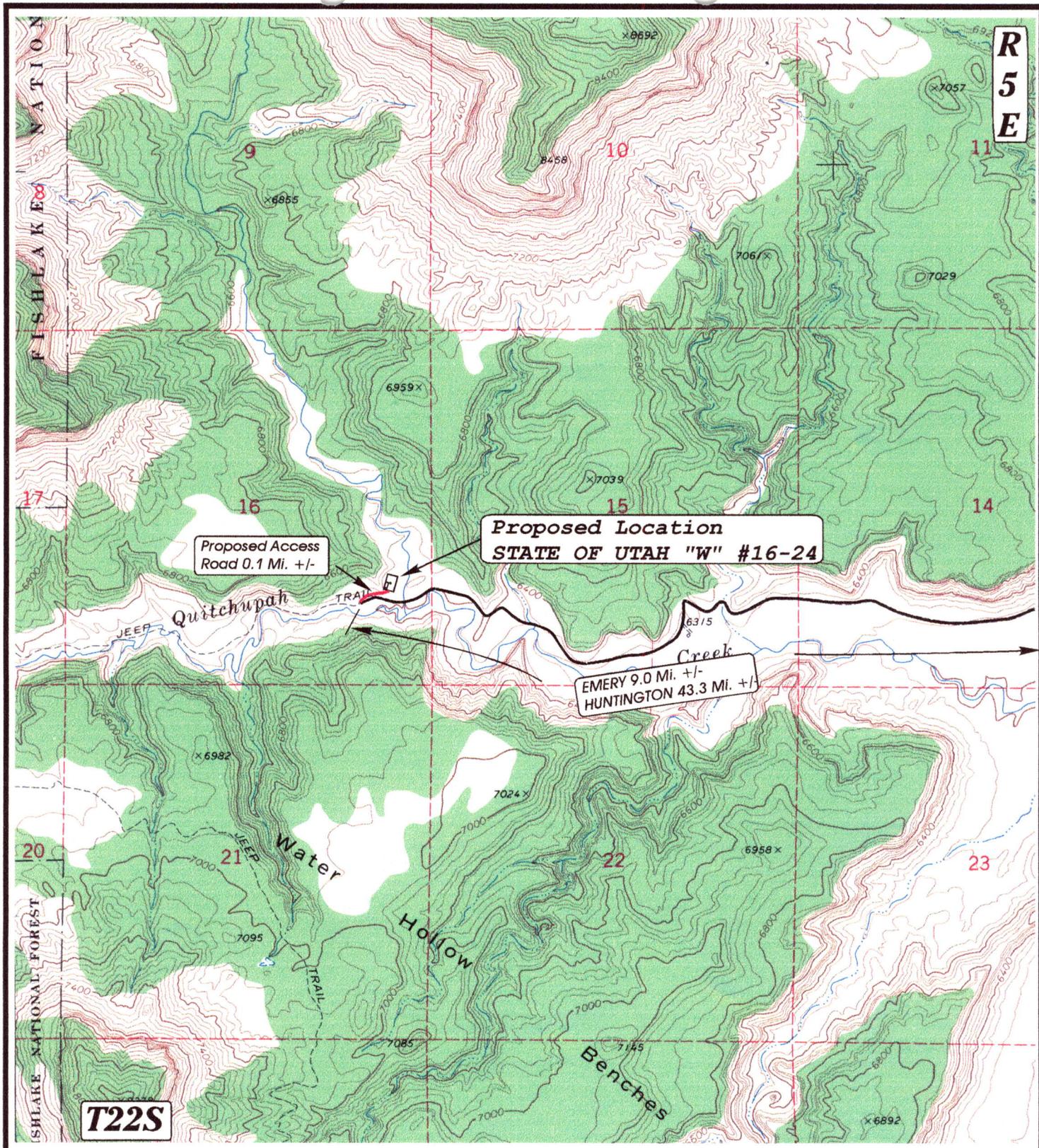
NOTE:
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 650 Cu. Yds.
Remaining Location	= 2,970 Cu. Yds.
TOTAL CUT	= 3,620 CU.YDS.
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Topsoil & Pit Backfill (1/2 Pit Vol.)	= 1,000 Cu. Yds.
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UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (801) 789-1017



T22S

R 5 E

UELS

TOPOGRAPHIC MAP "B"

DATE: 4-12-96

Drawn by: D.R.B.

Revised: 4-24-96 D.R.B.

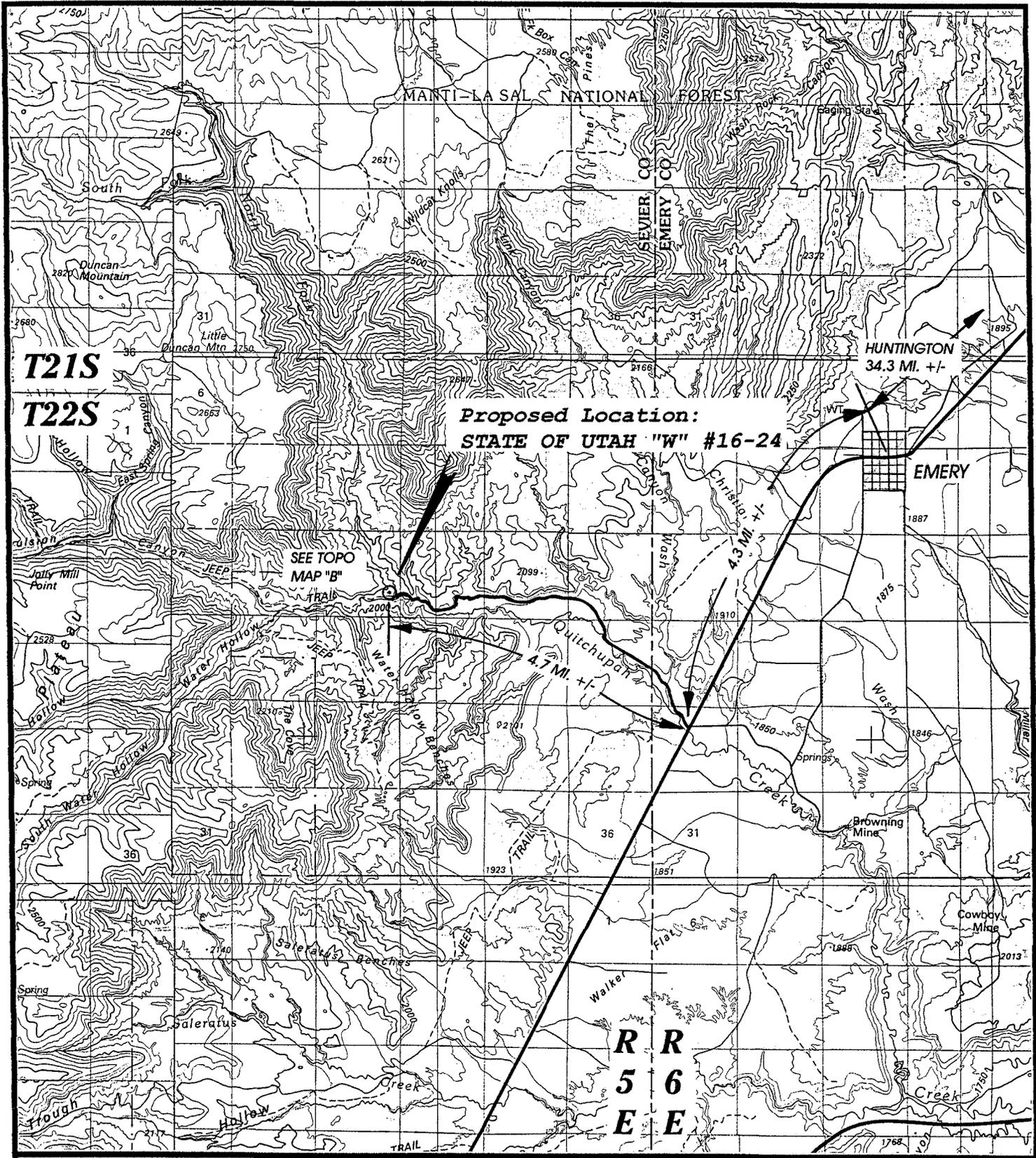
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TEXACO EXPLR.& PROD., INC.

STATE OF UTAH "W" #16-24
SECTION 16, T22S, R5E, S.L.B.&M.
1596' FSL 607' FEL

SCALE: 1" = 2000'



UEIS

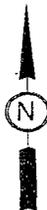
**TOPOGRAPHIC
MAP "A"**

DATE: 4-10-96

Drawn by: D.R.B.

Revised: 4-24-96 D.R.B.

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85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017



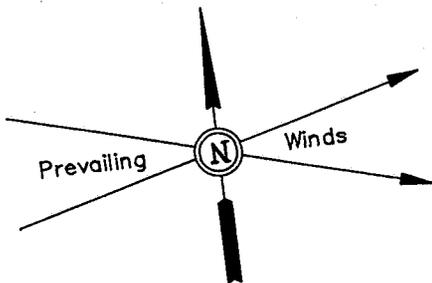
TEXACO EXPLR. & PROD., INC.

STATE OF UTAH "W" #16-24
SECTION 16, T22S, R5E, S.L.B.&M.
1596' FSL 607' FEL

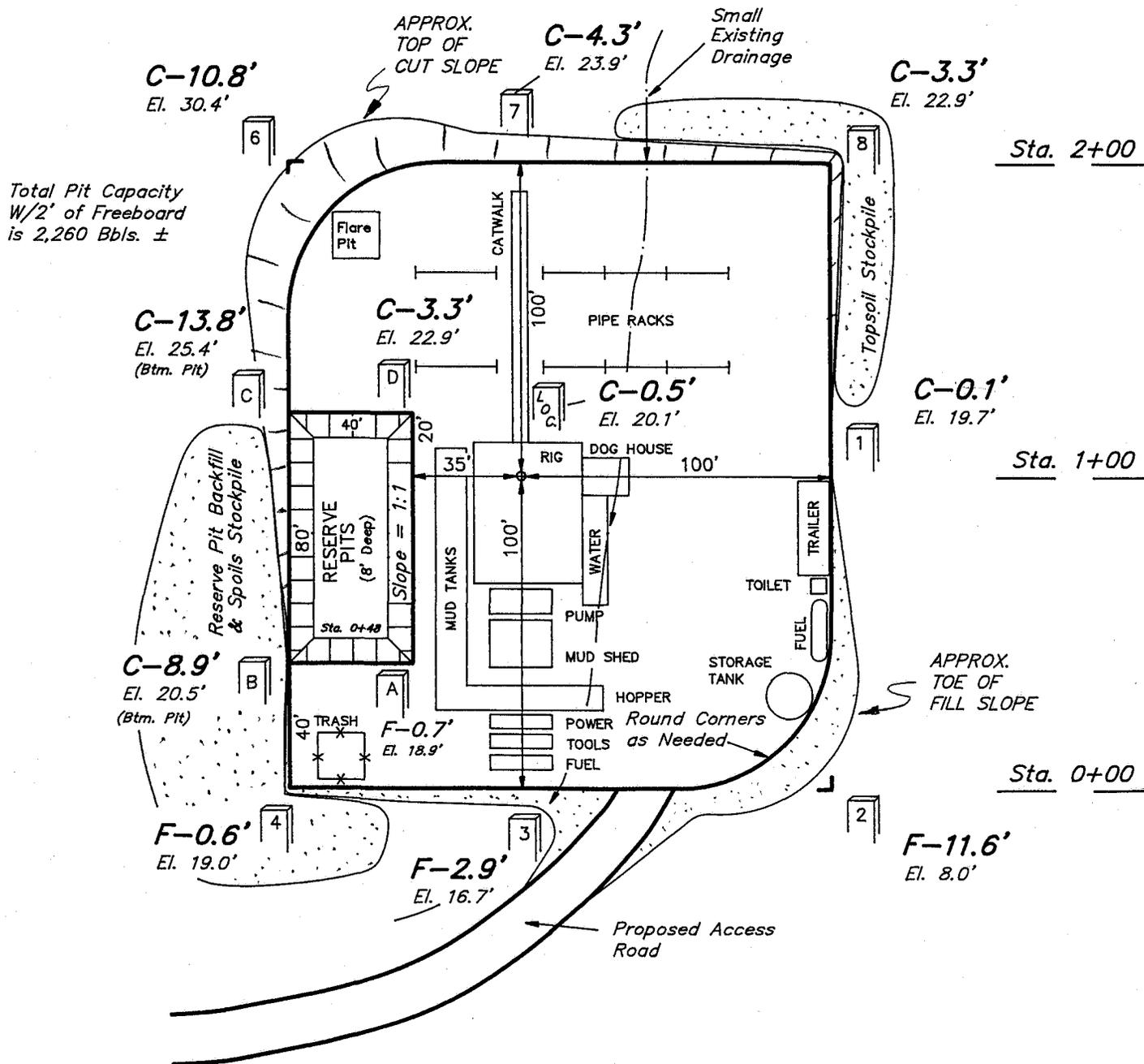
TEXACO EXPLR. & PROD., INC.

LOCATION LAYOUT FOR

STATE OF UTAH "W" #16-24
SECTION 16, T22S, R5E, S.L.B.&M.
1596' FSL 607' FEL



SCALE: 1" = 50'
DATE: 4-12-96
DRAWN BY: D.R.B.
REVISED: 4-24-96 D.R.B.



Total Pit Capacity
W/2' of Freeboard
is 2,260 Bbls. ±

Elev. Ungraded Ground at Location Stake = 6420.1'
Elev. Graded Ground at Location Stake = 6419.6

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 05/23/96

API NO. ASSIGNED: 43-041-30029

WELL NAME: STATE OF UTAH 'W' 16-24
 OPERATOR: TEXACO EXPL & PROD (N5700)

PROPOSED LOCATION:
 NESE 16 - T22S - R05E
 SURFACE: 1472-FSL-1125-FEL
 BOTTOM: 1472-FSL-1125-FEL
 SEVIER COUNTY
 WILDCAT FIELD (001)

INSPECT LOCATION BY: / /		
TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: STA
 LEASE NUMBER: ML - 47105

PROPOSED PRODUCING FORMATION: FRSD

RECEIVED AND/OR REVIEWED:

Plat
 Bond: Federal State Fee
 (Number CO-0058)

Potash (Y/N)
 Oil shale (Y/N)
 Water permit
 (Number _____)
 RDCC Review (Y/N)
 (Date: _____)

LOCATION AND SITING:

___ R649-2-3. Unit: _____

___ R649-3-2. General.

R649-3-3. Exception.

___ Drilling Unit.
 Board Cause no: _____
 Date: _____

COMMENTS: _____

STIPULATIONS: _____

ON-SITE PREDRILL EVALUATION

Division of Oil, Gas and Mining

OPERATOR: Texaco Exploration & Production, Inc.

WELL NAME & NUMBER: State of Utah "W" 16-24

API NUMBER: _____

LEASE: State (ML-47105) FIELD/UNIT: Wildcat

LOCATION: 1/4, 1/4 NE SE Sec:16 TWP:22S RNG:5E 1472 FSL 1125 FEL

LEGAL WELL SITING: 460 F SEC. LINE; 460 F 1/4, 1/4 LINE; 920 F ANOTHER WELL.

GPS COORD (UTM): 469022 E 4305484 N

SURFACE OWNER: State of Utah

PARTICIPANTS

Larry Slauterback-Texaco

Jackie Montgomery-Montgomery Archeological Consultants

Brad Hill & Dan Jarvis-DOGM

REGIONAL/LOCAL SETTING & TOPOGRAPHY

This proposed drill-site is located on the eastern edge of the Wasatch Plateau, in a canyon formed by Quitchupah Creek. The proposed site is on an existing pad from an old P&A well. Quitchupah Creek has flowing water and is approximately 200 feet from the center stake.

SURFACE USE PLAN

CURRENT SURFACE USE: Domestic and wildlife grazing. The old P&A site was left flat at abandonment and appears to have been used for a loading area for livestock.

PROPOSED SURFACE DISTURBANCE: A 200 X 175 foot pad will be reconstructed on the existing site. This area will include an 80 X 40 X 8' reserve pit. There is approximately 5 miles of dirt road leading to the site. Approximately .5 miles of the existing road will require upgrading.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: This well is located on the site of the Willard Pease State Q-#1. This is the only well known to be within a mile of the proposed location.

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: This well is being drilled as a test to evaluate the coal seams and no production facilities or pipelines are planned at this time.

SOURCE OF CONSTRUCTION MATERIAL: Onsite materials will be used for all construction

ANCILLARY FACILITIES: None planned

WASTE MANAGEMENT PLAN:

Any sewage or refuse will be properly stored onsite and will be hauled away to an approved facility. Produced fluids will be stored in tanks until it can be hauled to an approved facility. Drill cuttings will be dried and buried along with the pit liner.

ENVIRONMENTAL PARAMETERS

AFFECTED FLOOD PLAINS AND/OR WETLANDS: This location is adjacent to Quitchupah Creek. An existing low-water crossing of the creek will be utilized for access to the well site. This should cause minimal impact.

FLORA/FAUNA: Greasewood, Sage, Pinion, Juniper, Cactus, Saltbush, minor grasses/Deer, Rabbits, Rodents, Lizards, Gnats

SOIL TYPE AND CHARACTERISTICS: Sandy clay with angular rock fragments

SURFACE FORMATION & CHARACTERISTICS: Quaternary alluvium derived from the interbedded sandstones and shales of the Mesa Verde Group

EROSION/SEDIMENTATION/STABILITY: There is no active erosion or sedimentation at this site at present. Care should be taken so that no erosion occurs on the location and washes sediment into Quitchupah Creek.

PALEONTOLOGICAL POTENTIAL: None observed.

RESERVE PIT

CHARACTERISTICS: A reserve pit will be constructed on the uphill (North) side of the pad. The pit dimensions will be approximately 80 X 40 X 8'

LINER REQUIREMENTS (Site Ranking Form attached): The pit will be lined with a synthetic liner.

SURFACE RESTORATION/RECLAMATION PLAN

Reclamation will be done according to instructions issued by State of Utah/School and Institutional Trust Lands Administration

SURFACE AGREEMENT: Currently being negotiated with SITLA and Johnson Cattle Co.

CULTURAL RESOURCES/ARCHAEOLOGY: Survey was done by Montgomery Archeological Consultants. This survey resulted in moving the location from its original location to the current location.

OTHER OBSERVATIONS/COMMENTS

This well is proposed at an irregular location according to Statewide rules. DWR was not given sufficient notice to attend this onsite evaluation and will submit comments to DOGM at a later date.

ATTACHMENTS:

Photographs will be placed on file.

Brad Hill

5/30/96 1:00 PM

DOGM REPRESENTATIVE

DATE/TIME

**Evaluation Ranking Criteria and Ranking Score
For Reserve and Onsite Pit Liner Requirements**

<u>Site-Specific Factors</u>	<u>Ranking</u>	<u>Site Ranking</u>
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	<u> ?</u>
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	<u> 15</u>
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	20	<u> 0</u>
Distance to Other Wells (feet)		
>1320	0	
300 to 1320	10	
<300	20	<u> 0</u>
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	<u> 10</u>
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	10	
TDS >10000 or Oil Base Mud	15	
Fluid containing significant levels of hazardous constituents	20	<u> 0</u>
Drill Cuttings		
Normal Rock	0	
Salt or detrimental	10	<u> 0</u>
Annual Precipitation (inches)		
<10	0	
10 to 20	5	
>20	10	<u> 5</u>
Affected Populations		
<10	0	
10 to 30	6	
30 to 50	8	
>50	10	<u> 0</u>
Presence of Nearby Utility Conduits		
Not Present	0	
Unknown	10	
Present	15	<u> 0</u>

Final Score

 30

(Level II Sensitivity)

**DIVISION OF OIL, GAS AND MINING
APPLICATION FOR PERMIT TO DRILL
STATEMENT OF BASIS**

Operator Name: Texaco Exploration and Production, Inc.

Name & Number: State of Utah "W" 16-24

API Number: 43-041-30029

Location: 1/4, 1/4 NE SE Sec. 16 T. 22S R. 5E

Geology/Ground Water:

The surface is composed of alluvium derived from the sands and shales of the overlying Mesa Verde Formation. Shallow aquifers may be present in this alluvium on a seasonal basis. Ground water is likely to be encountered in the Ferron sands. The proposed casing and cement program will adequately protect any water encountered.

Reviewer: D. Jarvis

Date: 06/10/96

Surface:

An onsite evaluation was done by DOGM at this proposed location on 5/30/96. A representative from Texaco and an archeological consultant was also present. The proposed location is adjacent to Quitcupah Creek and special care should be taken to protect the creek from drilling and produced fluids as well as increased sediment due to the drilling of this well. The pit is to be lined with a synthetic liner with a minimum thickness of 12 mils. A diversion ditch is to be placed on the uphill side of location to prevent drainage onto the well pad. The pad is to be bermed to prevent drainage off of the pad. This location requires a variance for an improper location. It is recommended that this location be given Administrative Approval in order to avoid an archeological site and also for topographic reasons. Proof of a surface agreement is required for approval. DWR concerns should also be considered prior to approval.

Reviewer: Brad Hill

Date: 6/3/96

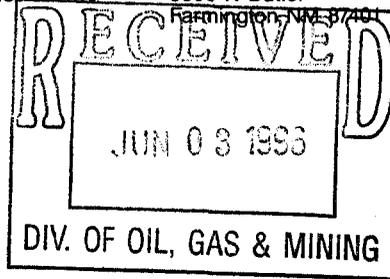
Conditions of Approval/Application for Permit to Drill:

1. Pit is to be lined with a synthetic liner.
2. Diversion ditch is to be placed on uphill side of drill pad.
3. The drill pad is to be bermed to prevent runoff.
4. Proof of surface agreement is to be sent to DOGM.



Texaco Exploration and Production Inc 3300 N Butler

Farmington, UT 87401



May 29, 1996

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RE: **Application for Permit to Drill (APD)**
State of Utah 'W' No. 16-24, Surf Loc: 1472' FSL, 1125' FEL, Unit I
Sec. 16-T22S-R5E
Sevier County, Utah

Gentlemen:

Texaco Exploration and Production Inc. is seeking approval from the Division of Oil, Gas and Mining to drill an exploratory well to test the Ferron formation. Texaco requests an exception to "Standard Location" due to adverse topography.

This well has been relocated from the previously submitted APD location to the current location:
1472' FSL / 1125' FEL Sec. 16 T22S / R5E

The APD amendment (survey plat, wellsite layout) is forthcoming.

Your attention to this matter is greatly appreciated. If you have any questions concerning this matter please contact me at 505-325-4397, ext. 20.

Sincerely,

Ted A. Tipton
Operating Unit Manager
RSD/s, Attachments

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:
ML-47105

SUNDRY NOTICES AND REPORTS ON WELLS

6. If Indian, Allottee or Tribe Name:

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

7. Unit Agreement Name:

1. Type of Well: OIL GAS OTHER: COAL-BED METHANE

8. Well Name and Number:
STATE OF UTAH W #16-24

2. Name of Operator:
Texaco Exploration & Production Inc.

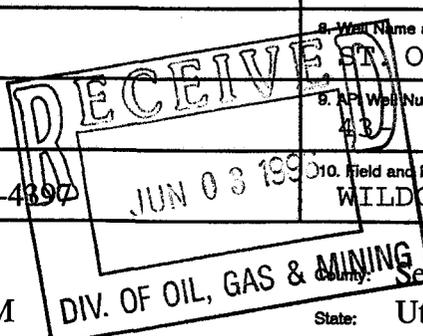
9. AP Well Number:
43

3. Address and Telephone Number:
3300 N. Butler, Farmington N.M. 87401 (505)325-4397

10. Field and Pool, or Wildcat:
WILDCAT

4. Location of Well
Footages:

QQ, Sec., T., R., M.: NE 1/4, SE 1/4 Sec. 16 T22S / R5E SLM



County: Sevier
State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT
(Submit in Duplicate)

SUBSEQUENT REPORT
(Submit Original Form Only)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Multiple Completion
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

- Abandonment *
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Other: REQUEST FOR ONSITE INSPECTION

Approximate date work will start 5/30/96

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

TEXACO E. & P., INC. REQUESTS THE FOLLOWING ON THE SUBJECT WELL:

ON MAY 30, 1996, TEXACO AND STATE OF UTAH WILL BE CONDUCTING AN ONSITE INSPECTION IN SEVIER, CO. UTAH. TEXACO REQUESTS (AS PER RULE R649-3-18) TO ADD THIS WELL TO THE ONSITE AGENDA TO FACILITATE TIMELY PROCESSING.

IN ADDITION, THE FOOTAGES OF THE PREVIOUSLY SUBMITTED LOCATION HAS CHANGED DUE TO ARCHAEOLOGICAL AND TOPOGRAPHICAL CONCERNS. THE NEW LEGAL FOOTAGES WILL BE PROVIDED AS SOON AS POSSIBLE.

13. Name & Signature: Ted A. Tipton Title: Operating Unit Manager Date: 5/29/96

(This space for State use only)

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:
ML-47105

SUNDRY NOTICES AND REPORTS ON WELLS

6. If Indian, Allottee or Tribe Name:

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

7. Unit Agreement Name:

1. Type of Well: OIL GAS OTHER: COAL-BED METHANE

8. Well Name and Number:
ST. OF UTAH W #16-24

2. Name of Operator:
Texaco Exploration & Production Inc.

9. API Well Number:
43-041-30029

3. Address and Telephone Number:
3300 N. Butler, Farmington N.M. 87401 (505)325-4397

10. Field and Pool, or Wildcat:
WILDCAT

4. Location of Well
Footages:
QQ, Sec., T., R., M.: NE 1/4, SE 1/4 Sec. 16 T22S / R5E SLM

County: Sevier
State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT
(Submit in Duplicate)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Multiple Completion
- Other APD AMENDMENT
- Now Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

SUBSEQUENT REPORT
(Submit Original Form Only)

- Abandonment *
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other _____
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Approximate date work will start _____

Date of work completion _____

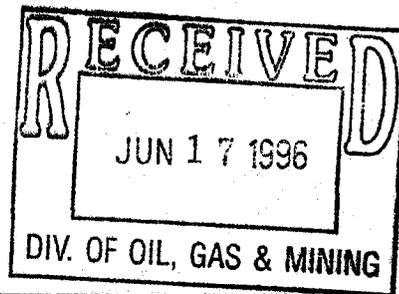
Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

TEXACO E. & P., INC. REQUESTS THE FOLLOWING ON THE SUBJECT WELL:

THE FOOTAGES OF THE PREVIOUSLY SUBMITTED LOCATION HAS CHANGED DUE TO ARCHAEOLOGICAL AND TOPOGRAPHICAL CONCERNS. THE NEW LEGAL FOOTAGES ARE AS FOLLOWS: 1472' FSL / 1125' FEL SEC. 16 T 22 S / R 5 E PLEASE SEE ATTACHED PLATS AND MAPS.



13. Name & Signature: Ted A. Tipton Title: Operating Unit Manager Date: 6/5/96

(This space for State use only)



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

June 20, 1996

Texaco Exploration & Production, Inc.
3300 North Butler Avenue, Suite 100
Farmington, New Mexico 87401

Re: State of Utah W 16-24 Well, 1472' FSL, 1125' FEL, NE SE,
Sec. 16, T. 22 S., R. 5 E., Sevier County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-041-30029.

Sincerely,

R. J. Firth
Associate Director

lwp

Enclosures

cc: Sevier County Assessor
Bureau of Land Management, Richfield District Office



Operator: Texaco Exploration & Production , Inc.
Well Name & Number: State of Utah W 16-24
API Number: 43-041-30029
Lease: ML-47105
Location: NE SE Sec. 16 T. 22 S. R. 5 E.

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Frank Matthews or Mike Hebertson at (801)538-5334.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. The reserve pit will be lined with an impervious synthetic liner of 12 mil minimum thickness.

5. A diversion ditch will be constructed on the uphill side of the location and the location will be bermed to prevent run off.

6. This drilling proposal has been submitted to the Resources Development Coordinating Council for its review and comment. Texaco will comply with any stipulations resulting from this review. Additionally, the Utah Division of Wildlife Resources may submit its comments on the drilling proposal and Texaco will comply with any reasonable stipulations.

7. Evidence of a surface use agreement must be submitted to the Division prior to commencing construction activities.



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

August 6, 1997

Mr. Ted A. Tipton
Texaco Exploration & Production, Inc.
3300 N. Butler Ave., Suite 100
Farmington, New Mexico 87401

Re: State of Utah 'W' 16-24 Well, Sec. 16, T. 22S, R. 5E, Sevier County, Utah,
API No. 43-041-30029

Dear Mr. Tipton:

Due to excessive time delay in commencing drilling operations, approval to drill the subject well is hereby rescinded, effective immediately.

Please note that a new Application for Permit to Drill must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division of Oil, Gas and Mining immediately.

Sincerely,

Don Staley
Administrative Manager
Oil and Gas

cc: J.R. Baza
K.M. Hebertson
Well File







