

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG \_\_\_\_\_ ELECTRIC LOGS \_\_\_\_\_  WATER SANDS \_\_\_\_\_ LOCATION INSPECTED \_\_\_\_\_ SUB. REPORT/abd. \_\_\_\_\_

000830 LA'D, etc 8-28-00!

DATE FILED **MAY 12, 1997**

LAND: FEE & PATENTED **FEE** STATE LEASE NO.

PUBLIC LEASE NO.

INDIAN

DRILLING APPROVED: **JULY 9, 1998**

SPUDED IN:

COMPLETED: \_\_\_\_\_ PUT TO PRODUCING: \_\_\_\_\_

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED: **8-28-00 LA'D**

FIELD: **UNDESIGNATED**

UNIT:

COUNTY: **EMERY**

WELL NO. **L & M CURTIS 13-56**

API NO. **43-015-30322**

LOCATION **872 FSL** FT. FROM (N) (S) LINE. **228 FWL**

FT. FROM (E) (W) LINE. **SW SW**

1/4 - 1/4 SEC. **13**

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				18S	7E	13	TEXACO E & P



State of Utah, Department of Natural Resources, Salt Lake City, Utah

1997-1-10000  
Environmental Record Unit

May 8, 1997

**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS AND MINING**  
1594 West North Temple  
Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

**RE: Application for Permit to Drill (APD)**  
D. & D. CURTIS No. 13-56 , Surf Loc: 872' FSL, 228' FWL,  
Unit M Sec. 13-T18S-R7E  
Emery 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.

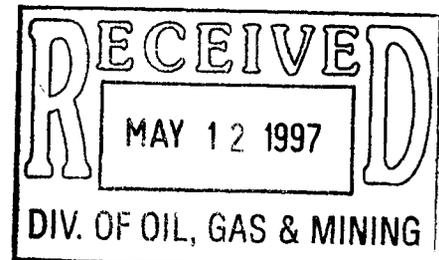
Texaco requests an exception to "Standard Location" due to adverse topography.

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 for OAT*

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

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 **M** : **872'** Feet From The **SOUTH** Line and **228'** Feet From The **WEST** Line  
 At proposed prod. zone **CONFIDENTIAL**

14. Distance In Miles and Direction from Nearest Town or Post Office\*  
**APPROX. 5.7 MI NORTHWEST OF CASTLE DALE, UTAH**

15. Distance From Proposed\* Location to Nearest Property or Lease Line, Ft. (also to nearest drlg. unit line, if any) **228'**  
 16. No. of Acres in Lease **328 AC.**

18. Distance From Proposed Location\* to Nearest Well, Drilling, Completed or Applied For, On This Lease, Ft.  
 19. Proposed Depth **2810'**

21. Elevations (Show whether DF, RT, GR, etc.)  
**KB** **DF** **5965'** **GR**

5. Lease Designation and Serial No.  
**FEE**  
 6. If Indian, Alottee or Tribe Name  
 7. If Unit or CA, Agreement Designation  
 8. Well Name and Number  
**D & D CURTIS Lem Curtis**  
**13-56**  
 9. API Well No.  
 10. Field and Pool, Exploratory Area  
**WILDCAT**  
 11. SEC., T., R., M., or BLK. and Survey or Area  
 Sec. **13**, Township **T18S**, Range **R7E**  
 12. County or Parish  
**EMERY**  
 13. State  
**UT**  
 17. No. of Acres Assigned To This Well  
**160 AC.**  
 20. Rotary or Cable Tools  
**ROTARY**  
 22. Approx. Date Work Will Start\*  
**6/1/97**

23. PROPOSED CASING AND CEMENT PROGRAM

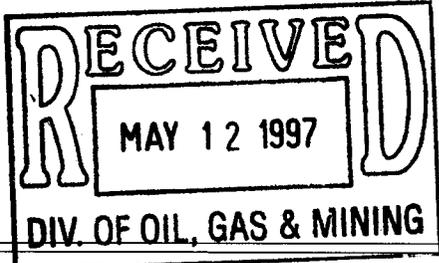
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	300'	229 SX
7-7/8"	5-1/2"	17#	2810'	280 SX

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 2810' 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. **K0290791-4** (NATIONWIDE BOND). THE PRINCIPAL IS TEXACO EXPLORATION & PRODUCTION, INC. VIA SURETY CONSENT AS PROVIDED FOR IN 43 CFR-3104.2.



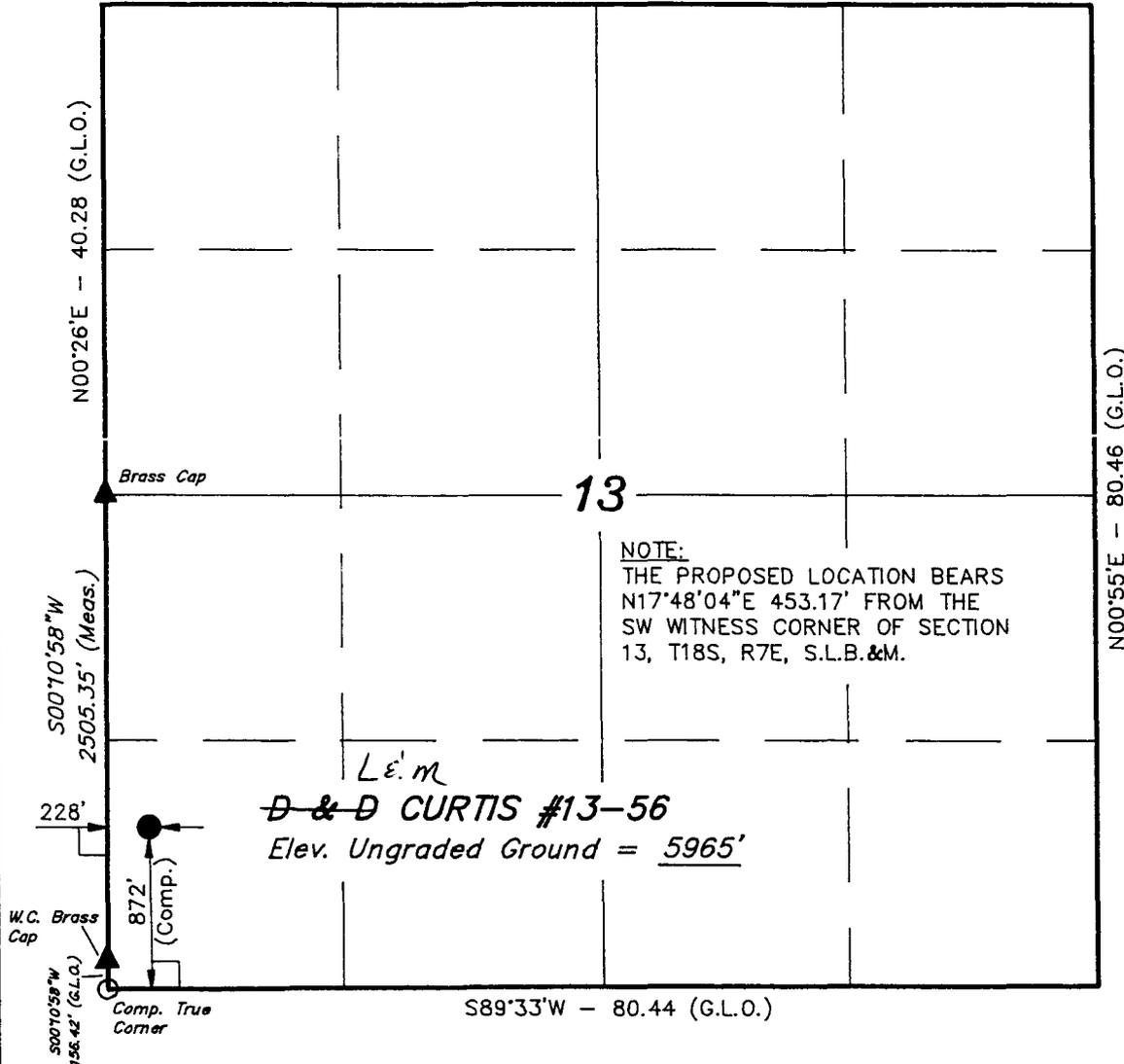
49186.0  
434446.0

24. (This space for State use only)  
 SIGNATURE **Ted A. Tipton** Operating Unit Manager DATE **5/8/97**  
 TYPE OR PRINT NAME **Ted A. Tipton**

API Number Assigned **43-015-30322** APPROVAL **[Signature]** **7/9/98**

# T18S, R7E, S.L.B.&M.

S89°37'W - 81.32 (G.L.O.)



**NOTE:**  
THE PROPOSED LOCATION BEARS  
N17°48'04"E 453.17' FROM THE  
SW WITNESS CORNER OF SECTION  
13, T18S, R7E, S.L.B.&M.

*L.E.M.*  
**D & D CURTIS #13-56**  
Elev. Ungraded Ground = 5965'

- LEGEND:**
- └─┘ = 90° SYMBOL
  - = PROPOSED WELL HEAD.
  - = COMPUTED TRUE CORNER. (Not Set)
  - ▲ = SECTION CORNERS LOCATED.

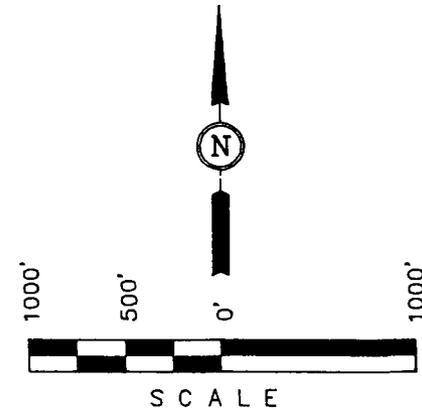
BASIS OF BEARINGS IS THE EAST LINE  
OF THE SE 1/4 OF SECTION 9, T18S,  
R7E, S.L.B.&M. WHICH IS ASSUMED  
FROM G.L.O. INFORMATION TO BEAR  
N00°09'E.

## TEXACO EXPLR. & PROD., INC.

Well location, D & D CURTIS #13-56, located  
as shown in the SW 1/4 SW 1/4 of Section 13,  
T18S, R7E, S.L.B.&M. Emery County, Utah.

### BASIS OF ELEVATION

SPOT ELEVATION AT A ROAD INTERSECTION IN THE SE  
1/4 OF SECTION 14, T18S, R7E, S.L.B.&M. TAKEN FROM  
THE RED POINT QUADRANGLE, UTAH, EMERY COUNTY,  
7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY  
THE UNITED STATES DEPARTMENT OF THE INTERIOR,  
GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED  
AS BEING 6001 FEET.



### 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. Kay*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 16179  
STATE OF UTAH

### UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 4-1-97	DATE DRAWN: 4-9-97
PARTY B.B. D.R. C.B.T.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE TEXACO EXPLR. & PROD., INC.	

**DRILLING PROGRAM**

OPERATOR: TEXACO EXPLORATION & PRODUCTION, INC.  
WELL NAME: D. & D. CURTIS #13-56  
LEASE NUMBER: FEE  
LOCATION: 872' FSL - 228' FWL, SECTION 13, T18S/R7E SLPM, EMERY 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 SHALE	100'	+5810
FERRON FM	2470'	+3440
T.D.	2810'	+3100

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	2470'
GAS	FERRON SANDSTONES	2470'
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 STATE OF UTAH, ON FORM OGC-8-X

3. **CASING PROGRAM**

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>
SURFACE	0-300'	12- 1/4"	8-5/8"	24#	K-55
PRODUC.	0-2810'	7-7/8"	5-1/2"	17#	K-55

4. **CEMENT PROGRAM**

THE CEMENT PROGRAM WILL BE AS FOLLOWS:

<u>SURFACE</u> 0-300'		<u>TYPE AND AMOUNT</u> CEMENT TO SURFACE WITH 229 SX CLASS "G" CEMENT. W/ 2% CaCl & 1/4#/SK CELLOPHANE FLAKES. 1.15 CU. FT./SX, 15.8 PPG
<u>PRODUCING</u> 0-2810'	(LEAD)	<u>TYPE AND AMOUNT</u> CEMENT FROM 1810' TO SURFACE WITH 115 SX 'G' CEMENT, 3.91 CU. FT/SX, 11.0 PPG
	(TAIL)	CEMENT FROM 2810' TO 1810' WITH 165 SX 'RFC' 10-1 CEMENT, 1.61 CU. FT/SX, 14.2 PPG

5. **DRILLING FLUIDS**

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

<u>INTERVAL</u>	<u>MUD TYPE</u>	<u>MUD WT.</u>	<u>VISC.</u>
0-300'	AIR	--	--
300'-2810'	AIR	--	--

6. **TESTING, LOGGING AND CORING**

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

- A. NO DRILL STEM TESTS ARE PLANNED.
- B. THE LOGGING PROGRAM WILL CONSIST OF A GR-LDT-CNL LOG FROM 2000'-2810'. A SFL-DIL-GR LOG WILL BE RUN FROM 300' TO 2810'. A HIGH RESOLUTION COAL LOG WILL BE RUN FROM 2100' - 2810'.

7. **SPUD DATE / DRILLING TIME**

- A. DRILLING IS PLANNED TO COMMENCE ON APPROX. JUNE 15, 1997.
- B. IT IS ANTICIPATED THAT THE DRILLING WILL TAKE APPROXIMATELY 6 DAYS.

8. **ROAD USE / WATER SOURCE**

- A. THE WELL IS LOCATED ON PRIVATE LANDS. ACCESS TRAVERSES PRIVATE LAND. AN ACCESS EASEMENT HAS BEEN NEGOTIATED WITH THE LANDOWNER.
- B. SINCE THE WELL IS BEING DRILLED PRIMARILY BY AIR, LIMITED QUANTITIES OF WATER WILL BE NECESSARY. WATER FOR DRILLING WILL BE OBTAINED FROM A LOCAL WATER HAULER, WHO WILL OBTAIN IT FROM A LOCAL SOURCE.

9. **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.

AS A MINIMUM, THE ABOVE TEST SHALL BE PERFORMED:

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

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 UDOGM 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.

- 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 PREVENTOR.
- 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.

**10. ABNORMAL PRESSURES AND H2S GAS**

- A. NO ABNORMAL CONDITIONS ARE ANTICIPATED; FORMATION IS SLIGHTLY OVER-PRESSURED. THE ESTIMATED BOTTOM-HOLE PRESSURE IS 1000 PSI. NO ABNORMAL TEMPERATURES ARE ANTICIPATED.
- B. NO HYDROGEN SULFIDE GAS IS ANTICIPATED.

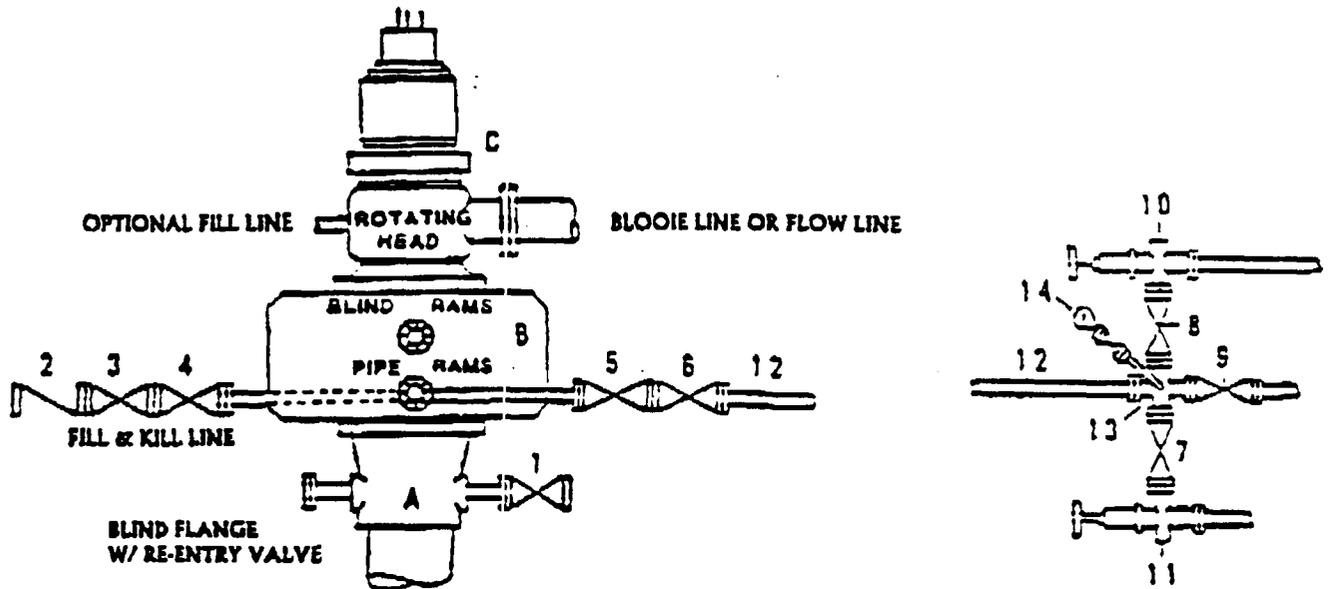
**11. LESSEE'S OR OPERATOR'S REPRESENTATIVE**

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)



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 Blowout 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)

**THIRTEEN POINT SURFACE USE PLAN**

OPERATOR: TEXACO EXPLORATION & PRODUCTION, INC.  
WELL NAME: D. & D. CURTIS # 13 - 56  
LEASE NUMBER: FEE  
LOCATION: 872' FSL - 228' FWL, SECTION 13, T18S/R7E SLPM, EMERY CO., UTAH

1. **EXISTING ROADS.**

- A. THE PROPOSED WELL SITE IS LOCATED APPROXIMATELY 5-1/2 MILES NORTHWEST OF CASTLE DALE, UTAH.
- B. DIRECTIONS TO THE LOCATION FROM CASTLE DALE, UTAH ARE AS FOLLOWS:  
  
FROM CASTLE DALE, UTAH, PROCEED WEST APPROX. 2 MI. TO COAL HAUL RD. TAKE COAL HAUL RD. NORTH APPROX. 3.7 MI. TO ACCESS RD. TURN OFF RIGHT ON EAST SIDE OF ROAD. FOLLOW FLAGS APPROX. 400 FT. TO LOCATION.
- C. THIS WELL WILL REQUIRE APPROX. 400' OF NEW ACCESS ROAD.
- D. ALL EXISTING ROADS WILL BE MAINTAINED AND KEPT IN GOOD REPAIR DURING ALL DRILLING AND COMPLETION OPERATIONS ASSOCIATED WITH THIS WELL.
- E. 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. 400 FT. OF NEW ACCESS ROAD IS REQUIRED FOR THE SUBJECT WELL. 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 NOT BE OVER 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 DEFENDENT UPON S.M.A. REQUIREMENTS.
- G. GATES AND CATTLEGUARDS WILL EE 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 -
- B. INJECTION WELLS - ONE EXISTING INJECTION WELL(SWD #1) IS WITHIN 1 MI. RADIUS.

- C. PRODUCING WELLS - ONE EXISTING COAL-BED METHANE WELL(#23-8) IS WITHIN 1 MI. RADIUS.
- 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 STATE OF UTAH REQUIREMENTS FOR NATURAL GAS MEASUREMENT.
- F. ANY NECESSARY PITS WILL BE PROPERLY FENCED TO PREVENT ANY WILDLIFE ENTRY.
- G. ALL OFF-LEASE STORAGE, OFF-LEASE MEASUREMENT, OR COMMINGLING ON-LEASE OR OFF-LEASE WILL HAVE PRIOR WRITTEN APPROVAL FROM THE AUTHORIZED OFFICER.
- H. ALL ACCESS ROADS WILL BE MAINTAINED AS NECESSARY TO PREVENT EROSION AND ACCOMMODATE YEAR-ROUND TRAFFIC.
- I. THE ROAD WILL BE MAINTAINED IN A SAFE USEABLE CONDITION.
- J. 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 STATE APPROVED GRAVEL PIT.

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 WASTE SITE.
- D. AFTER FIRST PRODUCTION, PRODUCED WATER WILL BE CONFINED TO A STORAGE TANK FOR A PERIOD NOT TO EXCEED NINETY (90) DAYS.
- 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 A STATE APPROVED WASTE SITE, 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 NORTH SIDE OF THE LOCATION.
- B. THE TOPSOIL STOCKPILE (FIRST SIX INCHES) WILL BE STOCKPILED ON THE EAST SIDE OF THE LOCATION.
- 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.
- 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 USE AGREEMENT.

**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.
- B. WELLPAD - THE WELLPAD IS LOCATED ON LANDS OWNED BY: LYMAN JACK CURTIS

OWNER ADDRESS:

Lyman Jack Curtis  
180 East, 300 North  
Orangeville, UT 84567

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 STATE OF UTAH REGULATIONS.

- F. "SUNDRY NOTICE AND REPORT ON WELLS" WILL BE FILED FOR APPROVAL FOR ALL CHANGES OF PLANS AND OTHER OPERATIONS.
- 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 PRODUCTION FLOWLINE AND WATER GATHERING LINE WILL BE PLACED ON LEASE, ADJACENT TO ACCESS ROAD CONNECTING TO THE EXISTING GATHERING SYSTEM.

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.

5/8/97

DATE:

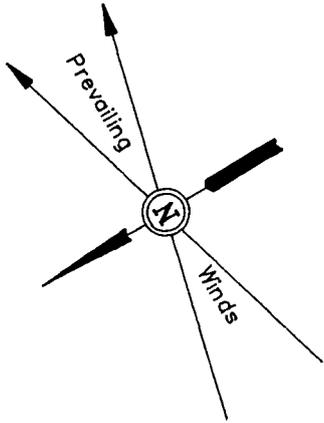
Ted A. Tipton

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

TEXACO EXPLR. & PROD., INC.

LOCATION LAYOUT FOR

D & D CURTIS #13-56  
SECTION 13, T18S, R7E, S.L.B.&M.  
872' FSL 228' FWL



SCALE: 1" = 50'  
DATE: 4-9-97  
DRAWN BY: C.B.T.

50' WIDE  
Right-of-Way  
(Do not Disturb)

F-4.7'  
El. 58.7'

F-0.7'  
El. 62.7' Round Corners  
as Needed  
Topsoil Stockpile

F-4.2'  
El. 59.2'

Sta. 2+00

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

C-11.6'  
El. 67.0'  
(Btm. Pit)

C-2.8'  
El. 66.2'

APPROX.  
TOE OF  
FILL SLOPE

C-1.6'  
El. 65.0'

F-3.2'  
El. 60.2'

Sta. 1+00

APPROX.  
TOP OF  
CUT SLOPE

C-12.3'  
El. 67.7'  
(Btm. Pit)

C-2.6'  
El. 66.0'

Sta. 0+00

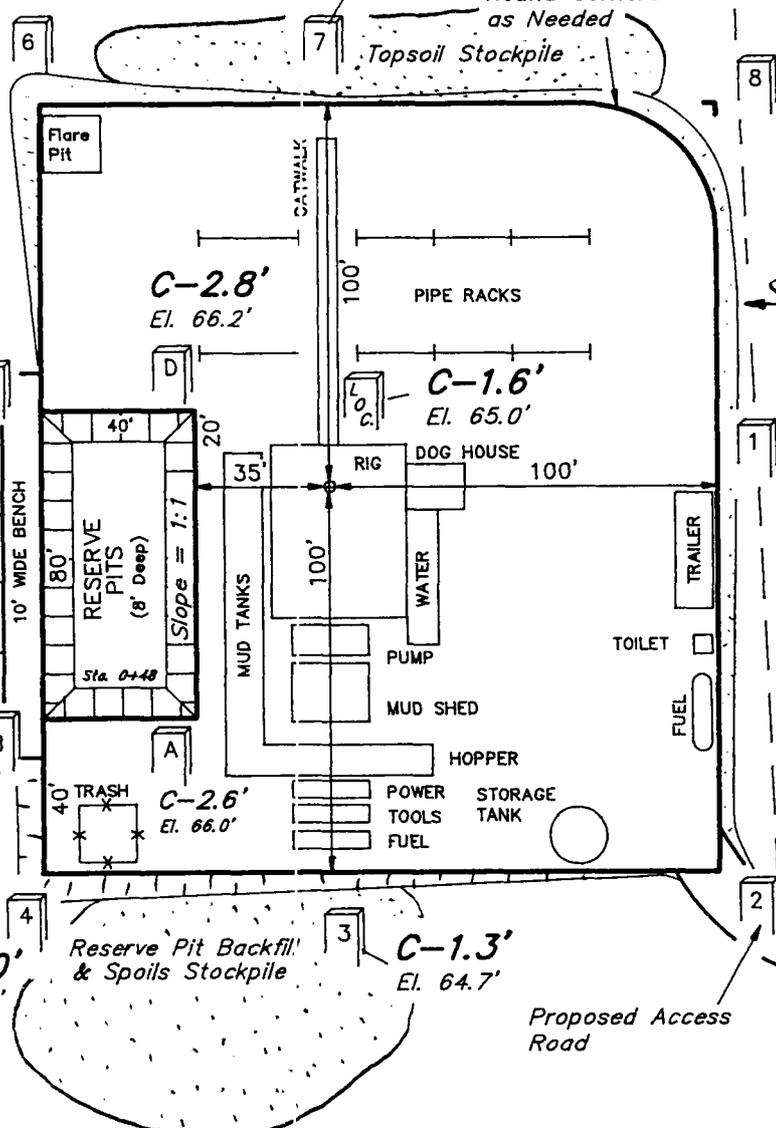
C-4.0'  
El. 67.4'

Reserve Pit Backfill  
& Spoils Stockpile

C-1.3'  
El. 64.7'

F-2.0'  
El. 61.4'

Proposed Access  
Road

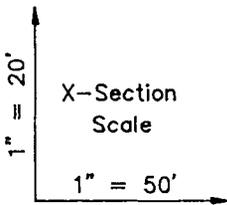


Elev. Ungraded Ground at Location Stake = 5965.0'  
Elev. Graded Ground at Location Stake = 5963.4'

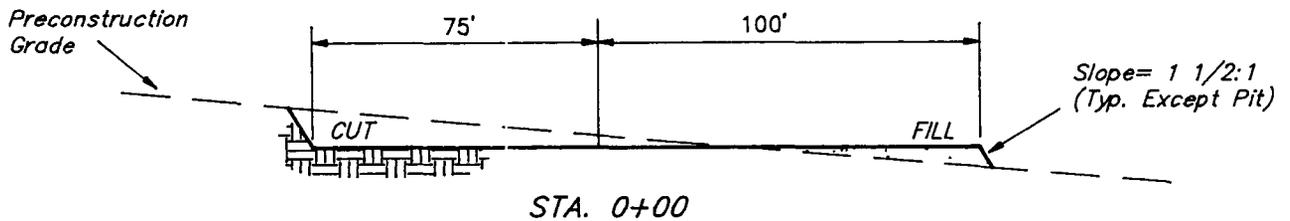
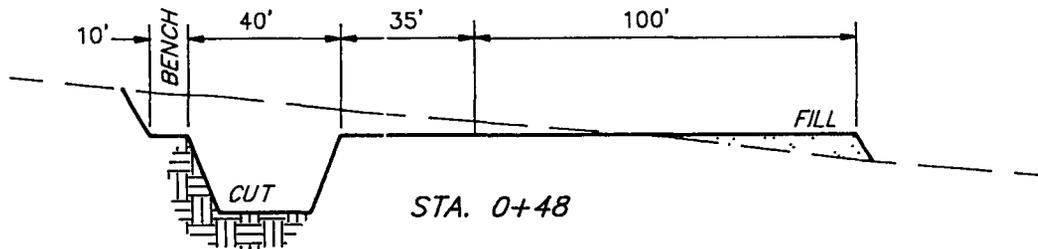
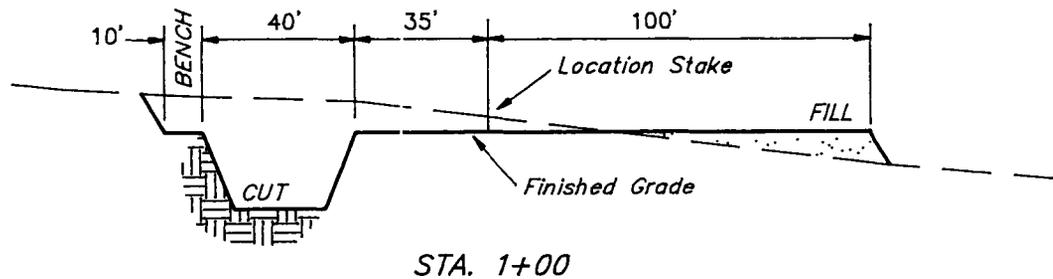
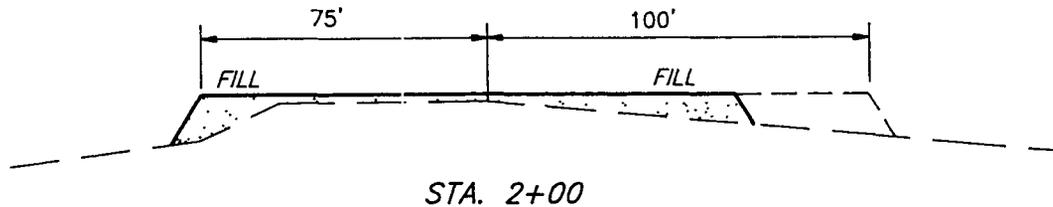
TEXACO EXPLR. & PROD., INC.

TYPICAL CROSS SECTIONS FOR

D & D CURTIS #13-56  
SECTION 13, T18S, R7E, S.L.B.&M.  
872' FSL 228' FWL



DATE: 4-9-97  
DRAWN BY: C.B.T.



APPROXIMATE YARDAGES

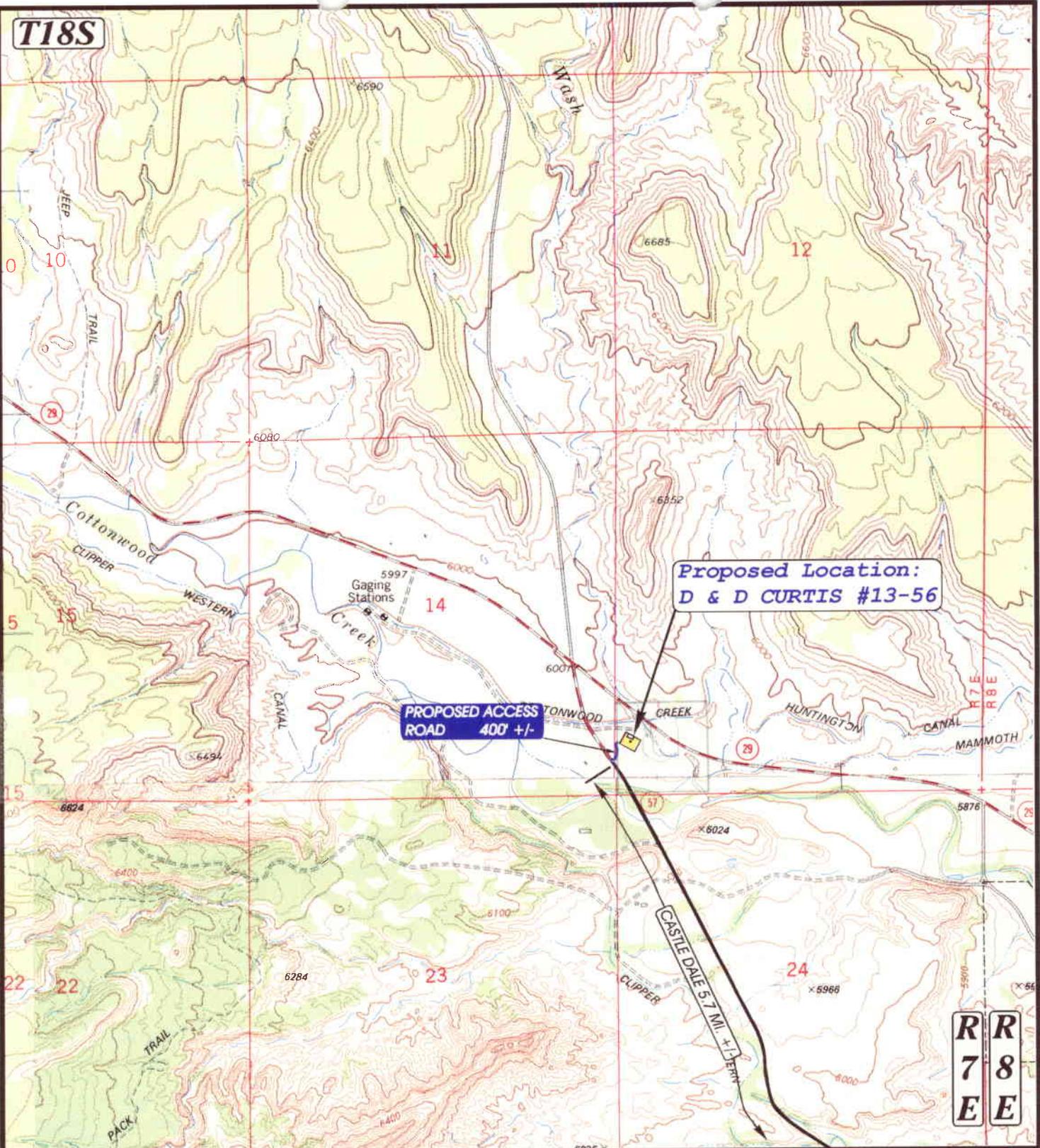
CUT		
(6") Topsoil Stripping	= 650	Cu. Yds.
Remaining Location	= 1,880	Cu. Yds.
<b>TOTAL CUT</b>	<b>= 2,530</b>	<b>CU. YDS.</b>
<b>FILL</b>	<b>= 1,440</b>	<b>CU. YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	= 1,010	Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 990	Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 20	Cu. Yds.

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



T18S



PROPOSED ACCESS ROAD 400' +/-

Proposed Location: D & D CURTIS #13-56

CASTLE DALE 5.7 MI. +/- ELEVATION

R7E R8E

UELS

TOPOGRAPHIC MAP "B"

DATE: 4-23-97  
Drawn by: D.COX

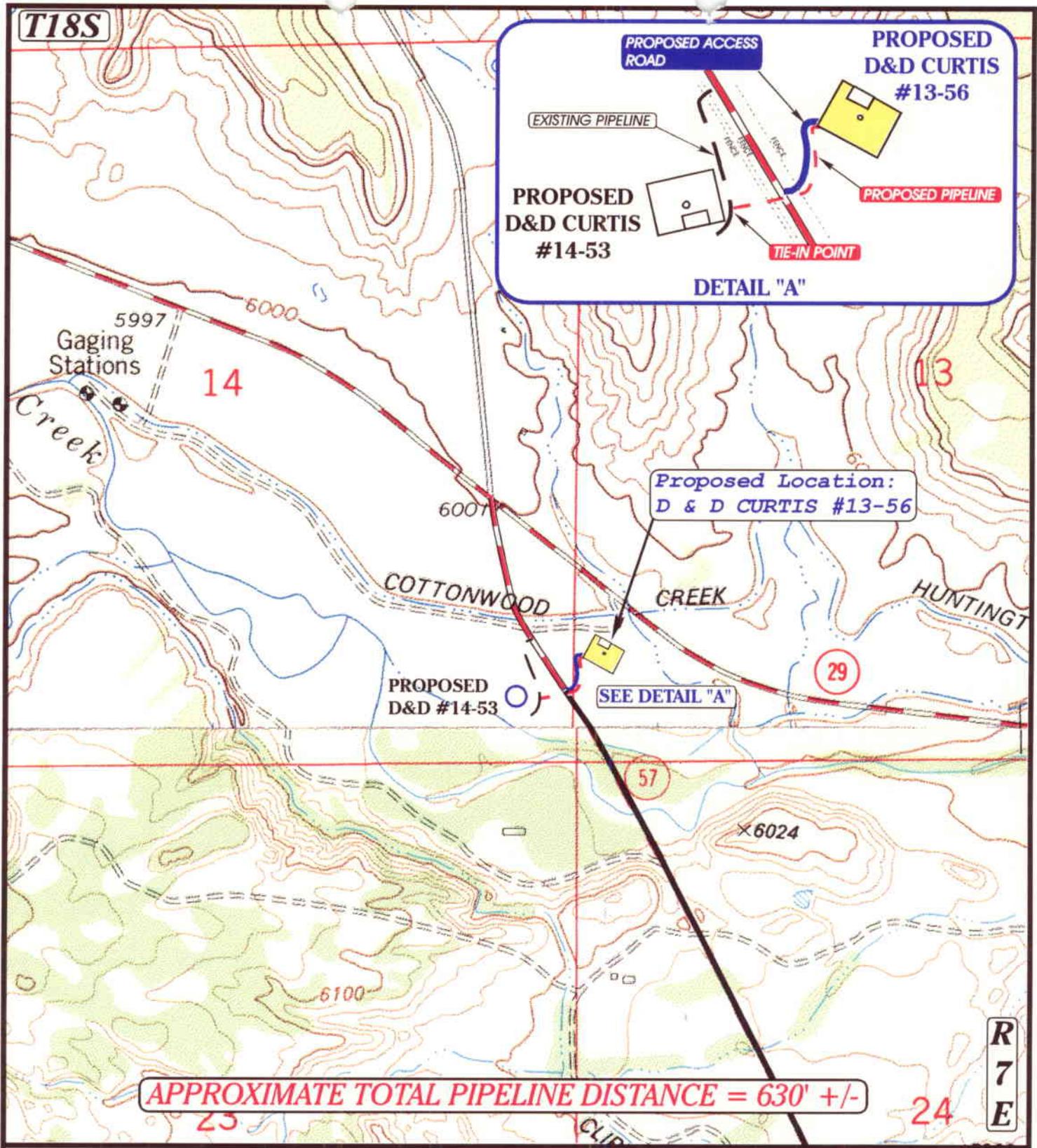
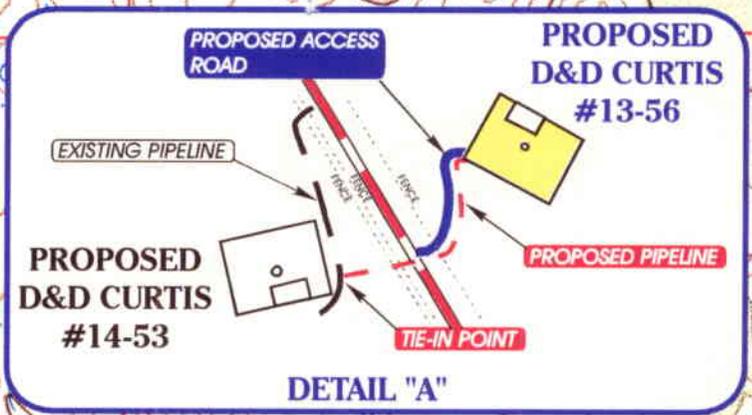


TEXACO EXPLR. & PROD., INC.

D & D CURTIS #13-56  
SECTION 13, T18S, R7E, S.L.B.&M.  
872' FSL 228' FWL

SCALE: 1" = 2000'

T18S



APPROXIMATE TOTAL PIPELINE DISTANCE = 630' +/-

R  
7  
E

UELS

TOPOGRAPHIC  
MAP "C"

--- Existing Pipeline  
 - - - Proposed Pipeline



TEXACO EXPLR. & PROD., INC.

D & D CURTIS #13-56  
SECTION 13, T18S, R7E, S.L.B.&M.

DATE: 4-23-97  
Drawn by: D.COX

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

SCALE: 1" = 1000'

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 05/19/97

API NO. ASSIGNED: 43-015-30322

WELL NAME: L & M CURTIS 13-56  
 OPERATOR: TEXACO E & P INC (N5700)  
 CONTACT: Ted A. Tipton (505) 325-4397

PROPOSED LOCATION:  
 SWSW 13 - T18S - R07E  
 SURFACE: 0872-FSL-0228-FWL  
 BOTTOM: 0872-FSL-0228-FWL  
 EMERY COUNTY  
 UNDESIGNATED FIELD (002)

INSPECT LOCATION BY: 05/30/97		
TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: FEE  
 LEASE NUMBER: PATENTED  
 SURFACE OWNER: Lyman Jack Curtis

PROPOSED FORMATION: FRSD

RECEIVED AND/OR REVIEWED:

Plat

Bond: Federal[] State[] Fee[]  
 (No. KO 290791-4)

Potash (Y/N)

Oil Shale (Y/N) \*190-5(B)

Water Permit  
 (No. Commercial Supplier / Air Drill)

RDCC Review (Y/N)  
 (Date: \_\_\_\_\_)

St. (Fee) Surf Agreement (Y/N)

LOCATION AND SITING:

\_\_\_ R649-2-3. Unit \_\_\_\_\_

\_\_\_ R649-3-2. General \_\_\_\_\_

R649-3-3. Exception \_\_\_\_\_

\_\_\_ Drilling Unit \_\_\_\_\_  
 Board Cause No: \_\_\_\_\_  
 Date: \_\_\_\_\_

COMMENTS: \* Bond referenced in APD incorrect. Bond No. KO290791-4 (Ins. Co. of N. America)  
\* add'l info. required "Except. Loc." (Filed Affidavit 8-21-97)

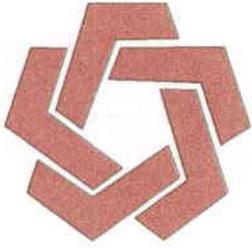
STIPULATIONS: ① STATEMENT OF BASIS

\_\_\_\_\_

\_\_\_\_\_

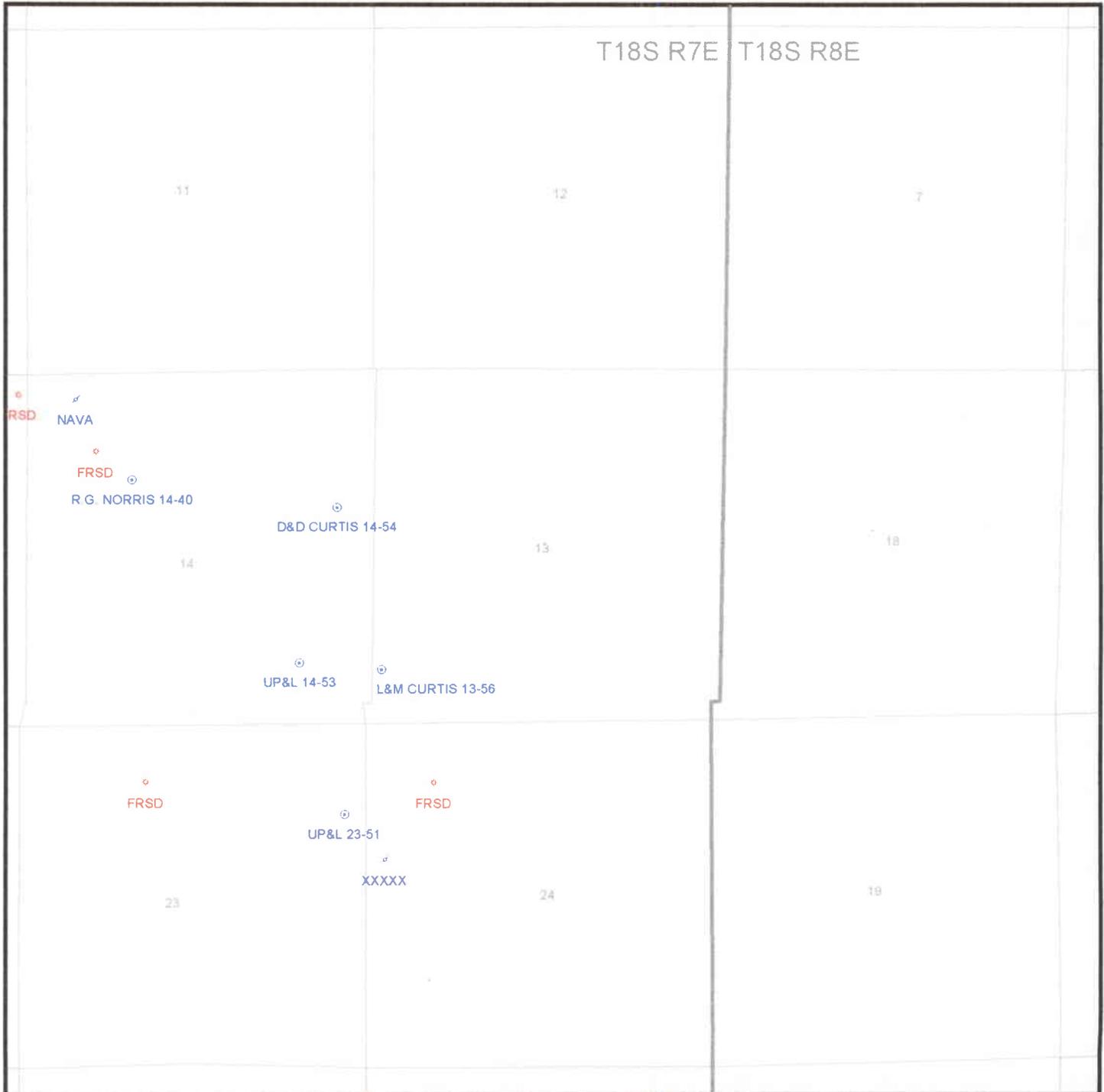
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\_\_\_\_\_



DIVISION OF OIL, GAS & MINING

OPERATOR: TEXACO EXPL & PROD (N5700)  
FIELD: UNDESIGNATED (002)  
SEC. 13, TWP 18S, RNG 7E  
COUNTY: EMERY UAC: R649-3-3 EXCEPTION SPACING



DATE PREPARED:  
8-JULY-1998

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

Operator: TEXACO EXPLORATION & PRODUCTION, INC

Name & Number: D & D Curtis 13-56

API Number: 43-015-30319

Location: 1/4, 1/4 SW, SW Sec. 13 T. 18 S R. 7 E

**Geology/Ground Water:**

High quality ground-water may be encountered in the surface alluvium. The surface casing will be set to a depth of 300' and cemented to surface. This should adequately protect any near-surface waters encountered. Water may also be encountered in the Ferron Sandstone. The production casing and cementing program should adequately isolate this zone.

Reviewer: Dan Jarvis

DATE: June 16, 1997

**Surface:**

An onsite evaluation was done for the proposed location on June 5, 1997. A representative for the operator and the surface owner were present during the onsite evaluation. This location is directly adjacent to Cottonwood Creek and an irrigation canal. Measures should be taken to protect these water courses from degradation due to runoff, spills and erosion. It is recommended that this well be granted an exception location for topographic reasons in order to stay out of Cottonwood Creek.

Reviewer: Brad Hill

Date: June 12, 1997

**Conditions of Approval/Application for Permit to Drill:**

1. Reserve pit is to be lined with a synthetic liner with a minimum thickness of 12 mils.
2. Location is to be bermed to prevent runoff from the location.
3. A surface agreement is needed prior to approval.

**STATE OF UTAH**  
**ONSITE PREDRILL EVALUATION**  
**Division of Oil, Gas and Mining**

OPERATOR: TEXACO EXPLORATION & PRODUCTION, INC.  
WELL NAME & NUMBER: D & D Curtis 13-56  
API NUMBER: 43-015-30322  
LEASE: FEE FIELD/UNIT: WILDCAT  
LOCATION: 1/4,1/4 SW, SW Sec: 13 TWP:18S RNG:7E 872 FSL 572 FEL  
LEGAL WELL SITING: 460 F SEC. LINE; 460 F 1/4,1/4 LINE; 920 F ANOTHER WELL.  
GPS COORD (UTM): \_\_\_\_\_  
SURFACE OWNER: Donald "Roger" Curtis (801)748-2232

PARTICIPANTS

Ron Wirth-Texaco, Roger Curtis-Landowner

REGIONAL/LOCAL SETTING & TOPOGRAPHY

The proposed well is located on the western edge of the Wasatch Plateau physiographic province and within the Grimes Gulch Drainage. The location is on a flat area between Highways 29 and 57. Cottonwood Creek and an irrigation canal are approximately 200' north of the proposed location.

SURFACE USE PLAN

CURRENT SURFACE USE: Domestic and wildlife grazing.

PROPOSED SURFACE DISTURBANCE: A rectangular pad will be constructed with approximate dimensions of 200' X 175'. This will include an 80' X 40' X 8' reserve pit. An access road 400 feet long will be constructed to the pad.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: A producing well (Texaco #23-8, Section 23) and an injection well (Texaco SWD #2) are located within a 1 mile radius of the proposed well. There are also other wells proposed within a 1 mile radius. See GIS map in well file.

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: If productive the well will be hooked to a pipeline across Highway 57 to the west.

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

ANCILLARY FACILITIES: None needed.

WASTE MANAGEMENT PLAN:

Drill cuttings are to be contained and buried in the reserve pit. Produced water will be placed into a storage tank and hauled off of location for disposal. Refuse will be contained while drilling and hauled offsite for disposal. Chemical toilets will be used on location.

ENVIRONMENTAL PARAMETERS

AFFECTED FLOODPLAINS AND/OR WETLANDS: The proposed location is approximately 200 feet from Cottonwood Creek and an irrigation canal

FLORA/FAUNA: Sage, Shadscale, Cheat grass, Juniper/Rabbits, rodents, insects, birds.

SOIL TYPE AND CHARACTERISTICS: Clayey silt with abundant rock fragments, cobbles and gravel.

SURFACE FORMATION & CHARACTERISTICS: Quaternary alluvium derived from the Mancos Shale and it's associated and overlying sandstones.

EROSION/SEDIMENTATION/STABILITY: No active sedimentation or erosion at present.

PALEONTOLOGICAL POTENTIAL: None observed.

RESERVE PIT

CHARACTERISTICS: A rectangular pit with dimensions of 80' X 40' X 8' will be constructed within the boundaries of the well pad.

LINER REQUIREMENTS (Site Ranking Form attached): The reserve pit is to be lined with a synthetic liner with a minimum thickness of 12 mils.

SURFACE RESTORATION/RECLAMATION PLAN

Restoration will be done as specified by the surface owner.

SURFACE AGREEMENT: The surface agreement has not been signed at the time of the onsite evaluation. Both parties indicate that an agreement will be reached and signed.

CULTURAL RESOURCES/ARCHAEOLOGY: Nct required.

OTHER OBSERVATIONS/COMMENTS

This well should be granted an administrative approval for an exception location for topographic reasons in order to keep it out of Cottonwood Creek.

ATTACHMENTS

No photographs available.

Brad Hill  
DOGM REPRESENTATIVE

June 6, 1997  
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>15</u>
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	<u>20</u>
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	0	
500 to 1320	5	
<500	10	
	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>15</u>
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	10	
TDS >10000 or Oil Base Mud Fluid	15	
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:55**

**STATE OF UTAH  
DIVISION OF OIL AND GAS AND MINING**

**SUNDRY NOTICES AND REPORTS ON WELLS**

(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.)

1. Type of Well       OIL WELL       GAS WELL       OTHER     

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

3. Address and Telephone Number:  
3300 N. Butler Ave., Suite 100      Farmington      NM      87401      325-4397

5. Lease Designation and Serial Number:  
FEE

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

8. Well Name and Number:  
L & M CURTIS      13-56

9. API Well Number:  
*42-015-30322*

10. Field and Pool, or Wildcat:  
WILDCAT

Location of Well

Footages:      872'      SOUTH      228'      WEST      County:      EMERY

QQ, Sec., T., R., M.:      SW, SW, 13, T18S, R7E      State:      UT

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

**NOTICE OF INTENT**  
(Submit in Duplicate)

Abandonment       New Construction

Casing Repair       Pull or Alter Casing

Change of Plans       Recompletion

Conversion to Injection       Shoot or Acidize

Fracture Treat       Vent or Flare

Multiple Completion       Water Shut-Off

OTHER \_\_\_\_\_

**SUBSEQUENT REPORT**  
(Submit Original Form Only)

Abandonment       New Construction

Casing Repair       Pull or Alter Casing

Change of Plans       Shoot or Acidize

Conversion to Injection       Vent or Flare

Fracture Treat       Water Shut-Off

OTHER \_\_\_\_\_

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.

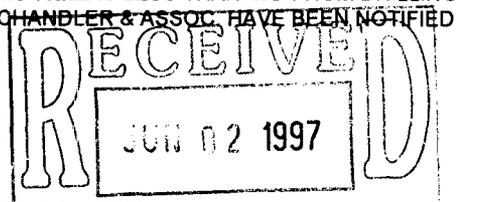
\* Must be accompanied by a cement verification report.

**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 the work.)**

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

TEXACO SEEKS APPROVAL TO CHANGE THE WELL NAME FROM THE PREVIOUSLY SUBMITTED APD. THE NAME WILL CHANGE FROM THE D & D CURTIS # 13-56, TO THE L & M CURTIS # 13-56. THIS NAME CHANGE REFLECTS THE SURFACE OWNER OF THE PROPOSED WELLSITE.

TEXACO ALSO SEEKS EXCEPTION TO STANDARD LOCATION DUE TO TOPOGRAPHY. SINCE THIS WELL IS LESS THAN 460' FROM DRILLING UNIT BOUNDARY, ATTACHED IS A LAND PLAT SHOWING OFFSET MINERAL LEASE HOLDINGS. CHANDLER & ASSOC. HAVE BEEN NOTIFIED AS PER UDOGM REQUIREMENTS. OFFSET CONSENT IS PENDING.



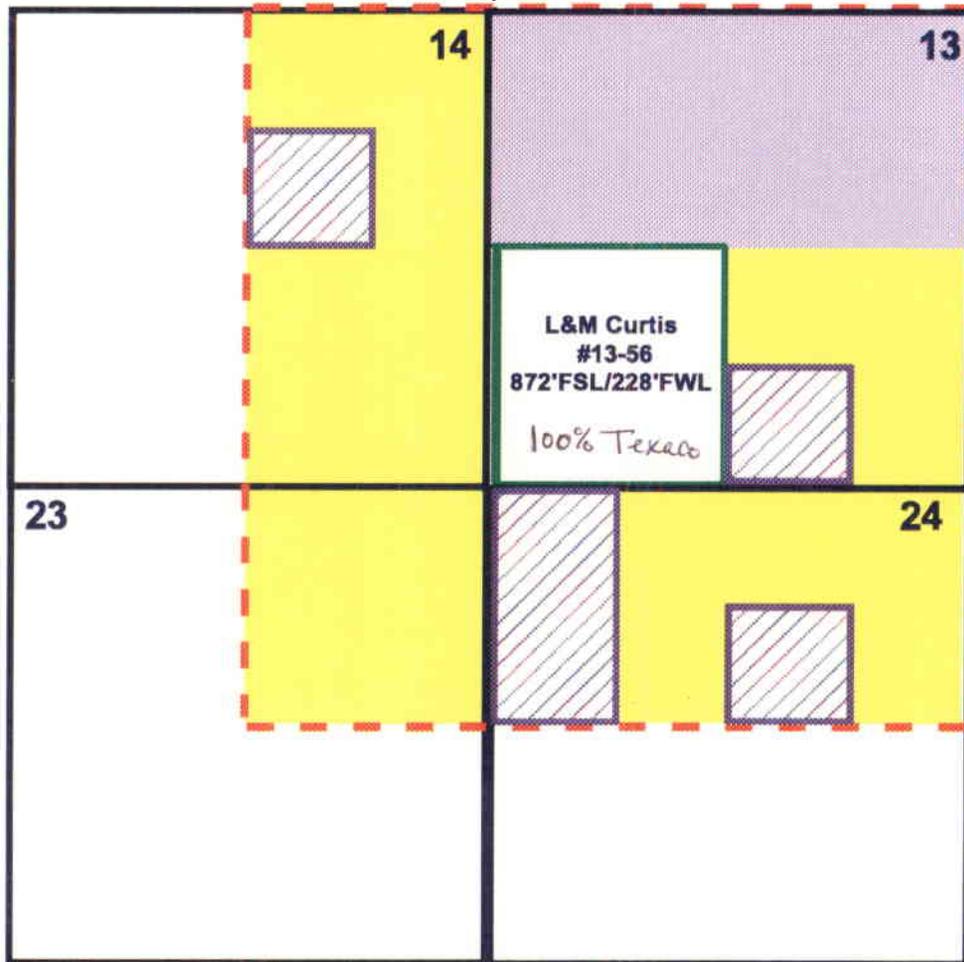
13. Name and Signature      Richard S. Donley      *Richard S. Donley*      TITLE      Eng. Assistant      DATE      5/28/97

*.ext. 17*

(This space for State use only)

# L&M CURTIS #13-56

T18S,R7E



**100% TEXACO**  
etal



**100% CHANDLER  
& ASSOC.**



**40 ac. Tract**  
more or less  
92% TEXACO  
8% CHANDLER  
& ASSOC.



**80 ac Tract**  
more or less  
92% TEXACO  
8% CHANDLER & ASSOC.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

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.

1. Type of Well: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER: COAL-BED METHANE		5. Lease Designation and Serial Number:
2. Name of Operator: TEXACO EXPLORATION & PRODUCTION INC.		6. If Indian, Allottee or Tribe Name:
3. Address and Telephone Number: 3300 N. BUTLER AVE., FARMINGTON NM 87401 (505) 325-4397		7. Unit Agreement Name:
4. Location of Well Footages: OO, Sec., T., R., M.:		8. Well Name and Number:
		9. API Well Number:
		10. Field and Pool, or Wildcat:

**CONFIDENTIAL**

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)
<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input checked="" type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other <u>PRODUCTION CASING CEMENT DESIGN</u>	<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Other _____
<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recompletion <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off
Approximate date work will start <u>6/25/97</u>	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.

**CONFIDENTIAL**

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 approval on the following:  
 Texaco proposes to modify the previously submitted cement plan on the wells listed below. Texaco will attempt to set cement to 500' above the top of the Ferron fm. Texaco will use the caliper log plus 10% to calculate the volume necessary. Texaco will also confirm cement top and bond with a cement bond log. Texaco will notify the U.D.O.G.M. of any water encountered during drill that may affect the cement job. The following are the wells effected by this change.

L. & M. CURTIS #13-56	R.G. NORRIS #14-40	U.P. & L. #14-53	D. & D. CURTIS 14-54
U.P. & L. #14-55	U.P. & L. #23-51	D. & A. JONES #9-59	L. & M. CURTIS #15-67
L. & M. CURTIS #10-58	D. & A. JONES #15-68	PEACOCK TRUST #9-60	PEACOCK TRUST #7-64
U.P. & L. #24-57	PEACOCK TRUST #8-63	P. & K. PEACOCK #8-62	PEACOCK TRUST # 8-61
STATE OF UTAH 'X' #16-66	STATE OF UTAH 'X' #16-65		

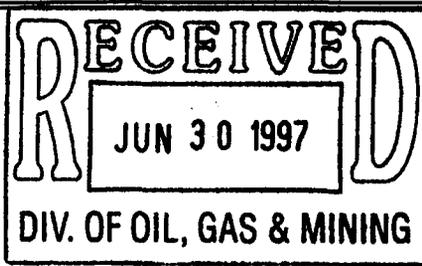
13. Name & Signature: Rachael Huidi Title: Operating Unit Manager Date: 6/24/97

(This space for State use only)

APPROVED BY THE STATE  
 OF UTAH DIVISION OF  
 OIL, GAS, AND MINING  
 DATE: 7/2/97  
 BY: John R. Bay

*See attached  
Conditions of  
Approval.*

(See Instructions on Reverse Side)





**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)

***CONDITIONS OF APPROVAL***

Well Name and Number: Various  
 API Number: Various  
 Operator: Texaco Exploration & Production Inc.  
 Type of Approval Requested: Modify casing cementing program  
 Reference Document: Sundry notice dated 6/24/97

Approval Conditions:

1. The operator shall monitor the drilling conditions between the surface casing and final depth of the well to determine if any water is encountered while air drilling. If water is encountered, the operator shall immediately notify one of the following staff members of the Division of Oil, Gas and Mining.

Division personnel: John Baza, Petroleum Engineer (801)538-5334  
 Gilbert Hunt, Environmental Manager (801)538-5297

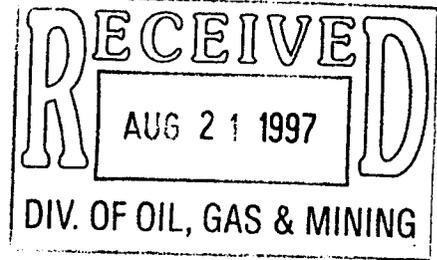
In such cases, the production casing shall be cemented in place using the cementing program proposed in the referenced sundry notice, but an appropriate type and volume of cement will also be pumped down the surface casing - production casing annulus (bradenhead squeeze) in order to seal off any underground water from reaching the surface.

2. In the event a substantial number of wells exhibit water encountered while drilling below the surface casing, the Division may rescind this approval and require the operator to submit an alternative proposal for cementing the surface casing and production casing in future wells drilled in this area.

  
 John R. Baza, Petroleum Engineer

7/8/97  
 Date

AFFIDAVIT



STATE OF COLORADO }
COUNTY OF DENVER }

GARY E. COX, of lawful age, being first duly sworn, on oath deposes and says that he is familiar with the following well(s) to be located and drilled in Township 18 South, Range 7 East, Emery County, Utah, to-wit:

WELL(S): LEM CURTIS #13-56
DID CURTIS #14-54

and that he is also familiar with, DONALD R. CURTIS & DELORES CURTIS, who on the 6TH day of AUGUST, 1997 executed an Easement/Surface Use Agreement in favor of TEXACO EXPLORATION AND PRODUCTION INC., and that said Easement/Surface Use Agreement grants TEXACO EXPLORATION AND PRODUCTION INC. the full use of all road and pipeline access to said well(s) and that all considerations for said access and location(s) for said well(s) have been tendered to and received by the surface owners for the above described well.

Further affiant saith not.



Gary E. Cox
GARY E. COX
ASSET TEAM MANAGER

Subscribed and sworn to before me this 19TH day of August, 1997.

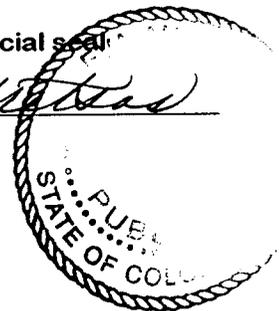
Eva Andretsos
Notary Public

STATE OF COLORADO }
COUNTY OF DENVER }

The foregoing instrument was acknowledged before me this 19TH day of August, 1997, by GARY E. COX.

WITNESS my hand and official seal
Eva Andretsos
Notary Public

My Commission Expires: My Commission Expires March 25, 1999
2965 S. Hudson St., Denver, CO 80222





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

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
801-538-5340  
801-359-3940 (Fax)  
801-538-7223 (TDD)

Michael O. Leavitt  
Governor  
Lowell P. Braxton  
Division Director

July 9, 1998

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

Re: L & M Curtis 13-56 Well, 872' FSL, 228' FWL, SW SW,  
Sec. 13, T. 18 S., R. 7 E., Emery 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 43-015-30322.

Sincerely,

A handwritten signature in cursive script that reads "John R. Baza".

John R. Baza  
Associate Director

lwp

Enclosures

cc: Emery County Assessor  
Bureau of Land Management, Moab District Office

Operator: Texaco Exploration & Production, Inc.  
Well Name & Number: L & M Curtis 13-56  
API Number: 43-015-30322  
Lease: Fee  
Location: SW SW Sec. 13 T. 18 S. R. 7 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 prior to spudding the well. Contact Jim Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Dan Jarvis at (801) 538-5338 or Robert Krueger at (801) 538-5274.

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. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).



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

Michael O. Leavitt  
Governor  
Kathleen Clarke  
Executive Director  
Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
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801-538-7223 (TDD)

August 28, 2000

Mr. Ted Tipton  
Texaco E & P, Inc.  
3300 North Butler Ave., Suite 100  
Farmington, New Mexico 87401

Re: APD Rescinded -- L & M Curtis 13-56 Well, Sec. 13, T. 18.0S, R. 7.0E, Emery County, Utah, API No. 43-015-30322

Gentlemen:

The Application for Permit to Drill for the subject well was approved by the Division of Oil, Gas and Mining on July 9, 1998. No drilling activity at this location has been reported to the division. Due to the excessive time delay in commencing drilling operations, approval to drill the 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,

A handwritten signature in black ink, appearing to read "Don Staley", written in a cursive style.

Don Staley  
Information Services Manager  
Oil and Gas

cc: L.E. Cordova  
Well File