

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG _____ ELECTRIC LOGS _____ FILE X WATER SANDS _____ LOCATION INSPECTED _____ SUB REPORT/abd. _____

Location abandoned this well was never drilled, recorded by E.W. Gayman on 3-15-82

DATE FILED 10-15-80

LAND: FEE & PATENTED _____ STATE LEASE NO. _____ PUBLIC LEASE NO. U-8346-A INDIAN _____

DRILLING APPROVED: 10-15-80

SPUDDED IN: _____
 COMPLETED: _____ PUT TO PRODUCING: _____

INITIAL PRODUCTION: _____
 GRAVITY A.P.I. _____

GOR: _____
 PRODUCING ZONES: _____

TOTAL DEPTH: _____
 WELL ELEVATION: _____

DATE ABANDONED: L.A. 3-15-82; this well was never drilled

FIELD: WILDCAT 3/86

UNIT: LOVE UNIT

COUNTY: UINTAH

WELL NO. LOVE #1-23 API NO. 43-047-30803

LOCATION 1248' FT. FROM X (S) LINE. 1978' FT. FROM XX (W) LINE. SE SW 1/4 - 1/4 SEC. 23

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				<u>11S</u>	<u>21E</u>	<u>23</u>	<u>COTTON PETROLEUM CORP.</u>

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

14

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

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

2. NAME OF OPERATOR
 Cotton Petroleum Corporation

3. ADDRESS OF OPERATOR
 717-17th Street, Suite 2200, Denver, Colorado

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
 C SW Section 23-11S-21E SE SW
 At proposed prod. zone
 1248' FSL & 1978 FWL

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

5. LEASE DESIGNATION AND SERIAL NO.
 U-8346

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 N/A

7. UNIT AGREEMENT NAME
 Love Unit

8. FARM OR LEASE NAME
 N/A

9. WELL NO.
 1-23

10. FIELD AND POOL, OR WILDCAT
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Section 23-11S-21E

12. COUNTY OR PARISH
 Uintah

13. STATE
 Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1248

16. NO. OF ACRES IN LEASE 2560

17. NO. OF ACRES ASSIGNED TO THIS WELL

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

19. PROPOSED DEPTH 7000'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 5880' GR

22. APPROX. DATE WORK WILL START*
 January 1, 1981

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#	200'	140 sacks
12 1/4"	8 5/8"	24#	2500'	500 sacks
8 3/4"	4 1/2"	11.6#	6500'	1000 sacks, DV tool @ 2500'

Drill 6500' Mesaverde test. Drill 17 1/2" surface hole to 200' with native brine water to clean hole, set 13 3/8" casing and cement to surface. Wait on cement 12 hours. Pressure test casing and BOP to 70% of casing yield (1200 psi) before drilling out, test hole, set 8 5/8" casing with 500 sacks of cement, wait on cement 12 hours, pressure test casing and BOP to 1000 psi before drilling out. Drill 8 3/4" hole to 6500' with brine water to 4100' and with a polymer brine water from 4100' to 6500'. Mud weight will be 9.4 to 10.4# per gallon. Evaluate well by sample analysis and electrical logs. Run 4 1/2" casing if a commercial well is expected. If strong water flow or lost circulation is not encountered, intermediate string will not be set. Set DV tool at 2500' in 4 1/2" long string.

**APPROVED BY THE DIVISION
OF OIL, GAS, AND MINING**
 DATE: 10/15/80

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

24. SIGNED D.E. Wood / [Signature] TITLE Division Production Manager DATE October 2, 1980

(This space for Federal or State office use)

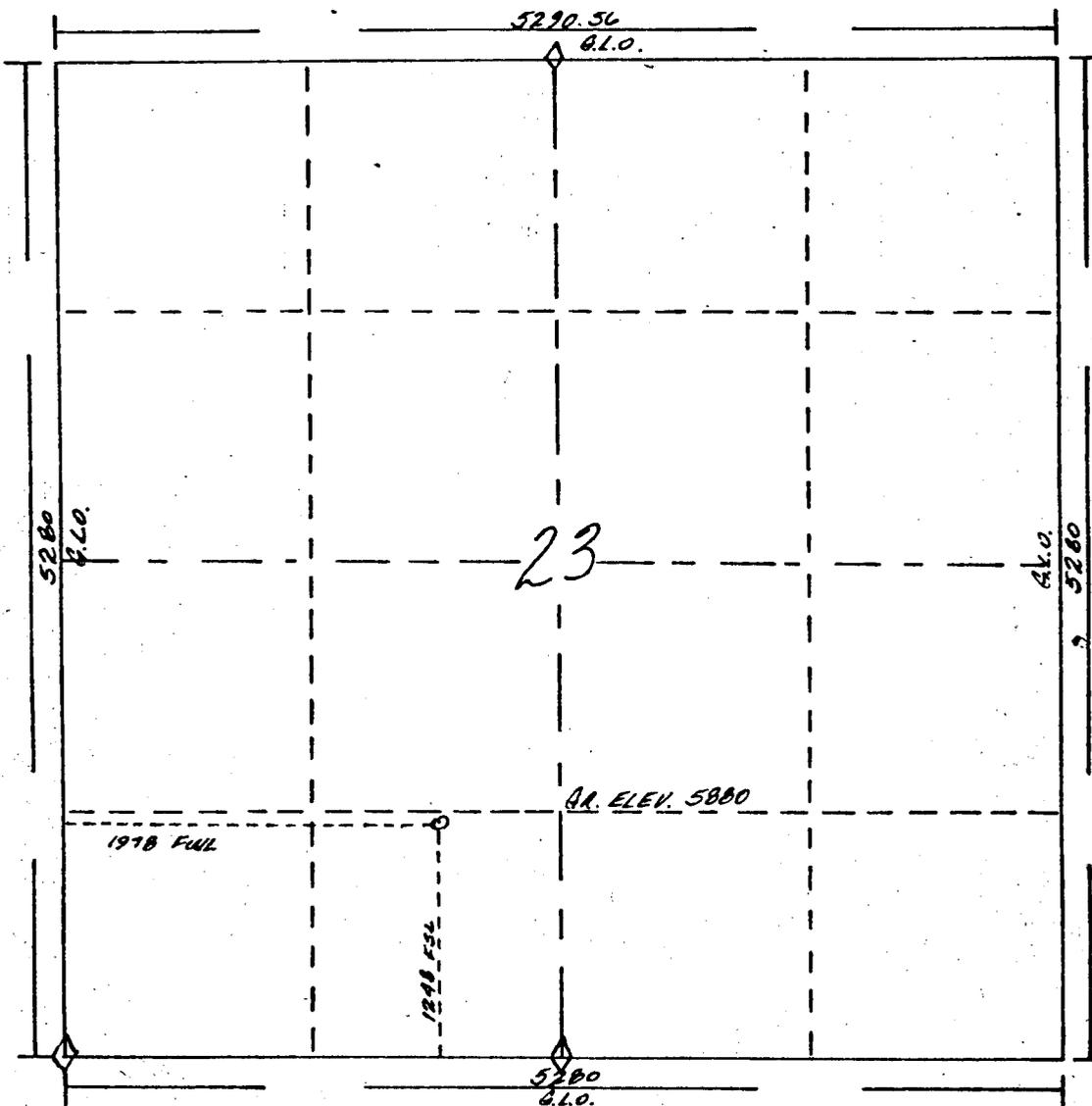
PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:



R. 21 E.



T. 11 S.

Scale... 1" = 1000'

Powers Elevation of Denver, Colorado has in accordance with a request from *Glenn Garvey* for *COTTON PETROLEUM* determined the location of # 1-23 LOVE UNIT to be 1248' FSL, 1978' FWL of Section 23 Township 11 S. Range 21 E. of the Salt Lake Base and Meridian Uintah County, Utah

I hereby certify that this plat is an accurate representation of a correct survey showing the location of # 1-23 LOVE UNIT

Date: 8-27-80

Harry D. Becker
 Licensed Land Surveyor No. 4189
 State of Utah

** FILE NOTATIONS **

DATE: Oct 10, 1980

OPERATOR: Cotton Petroleum Corp.

WELL NO: Lone #1-23

Location: Sec. 23 T. 11S R. 21E County: Uintah

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API Number 43-047-30803

CHECKED BY:

Petroleum Engineer: _____

Director: OK approved unit well

Administrative Aide: _____

APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. _____

O.K. Rule C-3

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site

Lease Designation Oil

Plotted on Map

Approval Letter Written

Hot Line

P.I.

October 21, 1980

Cotton Petroleum Corporation
717 17th Street, Suite 2200
Denver, Colorado 80202

Re: Well No. LovewUnit 1-23
Sec. 23, T. 11S, R. 21E,
Uintah County, Utah

Inssofar as this office is concerned, approval to drill the above referred to gas well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

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

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

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

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

The API number assigned to this well is 43-047-30803.

Sincerely,

DIVISION OF OIL, GAS, AND MINING

Cleon B. Feight
Cleon B. Feight
Director

/ka
cc: USGS

DUPLICATE

SUBMIT IN DUPLICATE*
(Other Instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK
 b. TYPE OF WELL
 OIL WELL GAS WELL OTHER
 SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 Cotton Petroleum Corporation

3. ADDRESS OF OPERATOR
 717-17th Street, Suite 2200, Denver, Colorado

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
 C SW Section 23-11S-21E
 At proposed prod. zone
 1248' FSL & 1978 FWL

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

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 1248

16. NO. OF ACRES IN LEASE 2560

17. NO. OF ACRES ASSIGNED TO THIS WELL

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

19. PROPOSED DEPTH 7000'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 5880' GR

22. APPROX. DATE WORK WILL START*
 January 1, 1981

5. LEASE DESIGNATION AND SERIAL NO.
 U-8346-A
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 N/A
 7. UNIT AGREEMENT NAME
 Love Unit
 8. FARM OR LEASE NAME
 N/A
 9. WELL NO.
 1-23
 10. FIELD AND POOL, OR WILDCAT
 Wildcat
 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Section 23-11S-21E
 12. COUNTY OR PARISH 13. STATE
 Uintah Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#	200'	140 sacks
12 1/4"	8 5/8"	24#	2500'	500 sacks
8 3/4"	4 1/2"	11.6#	6500'	1000 sacks, DV tool @ 2500'

Drill 6500' Mesaverde test. Drill 17 1/2" surface hole to 200' with native brine water to clean hole, set 13 3/8" casing and cement to surface. Wait on cement 12 hours. Pressure test casing and BOP to 70% of casing yield (1200 psi) before drilling out, test hole, set 8 5/8" casing with 500 sacks of cement, wait on cement 12 hours, pressure test casing and BOP to 1000 psi before drilling out. Drill 8 3/4" hole to 6500' with brine water to 4100' and with a polymer brine water from 4100' to 6500'. Mud weight will be 9.4 to 10.4# per gallon. Evaluate well by sample analysis and electrical logs. Run 4 1/2" casing if a commercial well is expected. If strong water flow or lost circulation is not encountered, intermediate string will not be set. Set DV tool at 2500' in 4 1/2" long string.

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

24. SIGNED D.E. Wood TITLE Division Production Manager DATE October 2, 1980

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
 APPROVED BY W.P. Martin TITLE FOR E. W. GUYNN DATE FEB 27 1981
 DISTRICT ENGINEER

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY
 *See Instructions On Reverse Side

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

NOTICE OF APPROVAL
 State Oil & Gas

Identification CER/EA No. 31-81

United States Department of the Interior
Geological Survey
2000 Administration Bldg.
1745 West 1700 South
Salt Lake City, Utah 84104

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator Cotton Petroleum Corporation
Project Type Gas Well Drilling
Project Location 1248' FSL 1978' FWL Section 23, T. 11S, R. 21E
Well No. 1-23 Lease No. U-8346 A
Date Project Submitted October 14, 1980

FIELD INSPECTION Date November 13, 1980

Field Inspection
Participants Greg Darlington - USGS, Vernal
Ron Rogers - BLM, Vernal
Larry England - BLM, Vernal
Don Mecham - Cotton Petroleum Corporation
Ned Cook - Ross Construction

Related Environmental Documents: Unit Resource Analysis, Seep Ridge Planning
Unit, BLM, Vernal

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

November 26, 1980
Date Prepared

Gregory Darlington
Environmental Scientist

I concur
12/4/80
Date

[Signature]
District Supervisor

Typing In 12-1-80 Typing Out 12-3-80

PROPOSED ACTION:

Cotton Petroleum Corporation proposes to drill the Love Unit 1-23 well, a gas test of the Mesaverde formation. About 1.1 miles of existing jeep trail would be upgraded to a 16 foot wide driving surface with suitable drainage ditches where needed. The pad and reserve pit will be constructed within an area of operations of about 315 feet by 325 feet. The pad will be built on a ridgetop and will involve about 2.3 acres of new surface disturbance.

RECOMMENDED APPROVAL CONDITIONS:

Drilling should be permitted, provided the following measures are incorporated into the proposed APD and adhered to by the operator:

1. Lease Stipulations
2. BLM Stipulations
3. Suitable logs are furnished as requested by the Mineral Evaluation Report for the identification of other mineral zones, in particular oil shale, which may be potentially valuable.
4. A sundry notice will be filed with the U.S.G.S. to specify whether TD for this well is 6500', 6850', 7000' or some other depth. (The APD was not sufficiently consistent on this particular item.)

FIELD NOTES SHEET

Date of Field Inspection: November 13, 1980

Well No.: 1-23

Lease No.: U-8346 A

Approve Location: ✓

Approve Access Road: ✓

Modify Location or Access Road: sharp pitch at one place in access road should be modified when the road is upgraded.

Evaluation of Criteria for Categorical Exclusion

1. Public Health and Safety
2. Unique Characteristics
3. Environmentally Controversial Items
4. Uncertain and Unknown Risks
5. Establishes Precedents
6. Cumulatively Significant
7. National Register Historic Places
8. Endangered/Threatened Species
9. Violate Federal, State, Local, or Tribal Laws

If this project is not eligible for Categorical Exclusion circle the numbers of the above criteria requiring the preparation of an EA.

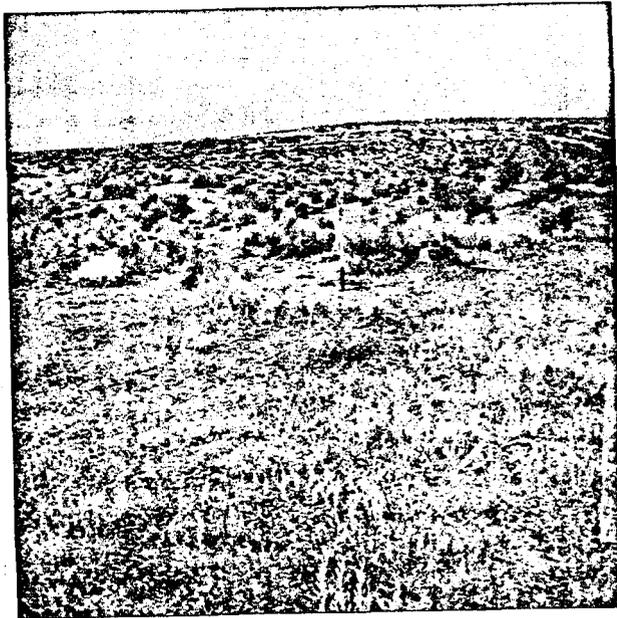
Comments and special conditions of approval discussed at onsite: (include local topography) Good location

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

Criteria 516 DM 2.3.A	Federal/State Agency			Local and private corre- spondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
	Corre- spondence (date)	Phone check (date)	Meeting (date)						
1. Public health and safety							1, 2, 3, 6	11-13-80	
2. Unique charac- teristics							1, 2, 3, 6	11-13-80	
3. Environmentally controversial							1, 2, 3, 6	11-13-80	
4. Uncertain and unknown risks							1, 2, 3, 6	11-13-80	
5. Establishes precedents							1, 2, 3, 6	11-13-80	
6. Cumulatively significant							1, 2, 3, 6	11-13-80	
7. National Register historic places							1, 6	11-13-80	
8. Endangered/ threatened species							1, 6	11-13-80	
9. Violate Federal, State, local, tribal law							1, 2, 3, 6	11-13-80	

CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

1. Surface Management Agency Input
2. Reviews Reports, or information received from Geological Survey (Conservation Division, Geological Division, Water Resource Division, Topographic Division)
3. Lease Stipulations/Terms
4. Application Permit to Drill
5. Operator Correspondence
6. Field Observation
7. Private Rehabilitation Agreement
8. *USGS conditions of Approval.*



*Cotton 1-23 North View
Section 23, T11S, R21E*

STIPULATIONS FOR LANDS IN OIL SHALE WITHDRAWAL,
EXECUTIVE ORDER 5327 OF APRIL 15, 1930

The lessee under the above oil and gas lease hereby agrees that the following agreement and stipulations are by this reference incorporated as terms and conditions of said lease as to the following lands:

All the lands in the lease.

The lessee agrees that:

1. No wells will be drilled for oil or gas except upon approval of the Area Oil and Gas Supervisor of the Geological Survey, it being understood that drilling will be permitted only in the event that it is established to the satisfaction of the Supervisor that such drilling will not interfere with the mining and recovery of oil shale deposits or the extraction of shale oil by in situ methods or that the interest of the United States would best be served thereby.
2. No wells will be drilled for oil or gas at a location which, in the opinion of the Area Oil and Gas Supervisor of the Geological Survey, would result in undue waste of oil shale deposits or constitute a hazard to or unduly interfere with mining or other operations being conducted for the mining and recovery of oil shale deposits or the extraction of shale oil by in situ methods.
3. When it is determined by the Area Oil and Gas Supervisor of the Geological Survey that unitization is necessary for orderly oil and gas development and proper protection of oil shale deposits, no well shall be drilled for oil or gas except pursuant to an approved unit plan.
4. The drilling or the abandonment of any well on this lease shall be done in accordance with applicable oil and gas operating regulations including such requirements as the Area Oil and Gas Supervisor of the Geological Survey may prescribe as necessary to prevent the infiltration of oil, gas or water into formations containing oil shale deposits or into mines or workings being utilized in the extraction of such deposits.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
VERNAL DISTRICT OFFICE
170 South 500 East
Vernal, Utah 84078

IN REPLY REFER TO .

T & R
U-802

November 17, 1980

Ed Guynn, District Engineer
USGS, Conservation Division
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104



Re: Cotton Petroleum Corporation,
Love Unit, Well #1-5,
U-14646, Section 5, T11S,
R21E; Well #1-17, U-8345,
Section 17, T11S, R21E;
Well #1-23, U-8346, Section
23, T11S, R21E;
Uintah County, Utah

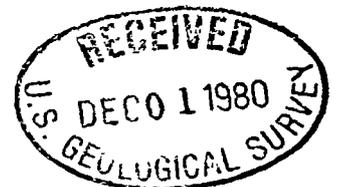
Dear Mr. Guynn:

A joint field examination was made on November 13, 1980, of the above referenced well site locations and proposed access roads. We feel that the surface use and operating plans are adequate with the following stipulations:

1. Construction and maintenance of roads, rehabilitation of disturbed areas and construction of pipeline routes shall be in accordance with surface use standards as set forth in the brochure, "Surface Operation Standards for Oil and Gas Exploration and Development".
2. Traveling off access road rights-of-way will not be allowed. The maximum width of access roads (both existing and planned) will be 30 feet total disturbed area, except where backslope and fills require additional area. Turn-outs will not be required. Roads are to be crowned and bar ditched where needed.
3. Topsoil will be stockpiled as addressed in the applicant's 13 Point Plan. The BLM recommends that the top 4-6 inches of topsoil materials be stockpiled at the wellsites. At well #1-17, the topsoil should be stockpiled at the southwest corner of the drill pad.



Continued . . .



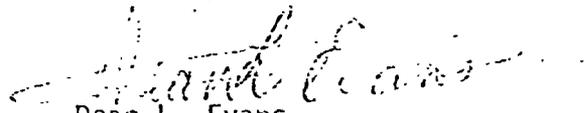
4. The BLM must be contacted at least 24 hours prior to any construction activities.
5. The BLM will be contacted at least 24 hours prior to any rehabilitation activities. The operator may be informed of any additional needed seeding and restoration requirements.
6. In the event that oil storage tanks are used, earth dikes will be built around the tanks in order to contain accidental spills. The height of the dikes will be sufficient to contain the entire contents of the tanks.
7. A wire mesh or web type fence will be used around the reserve pits. At least two strands of barbed wire will top this fence.
8. Access to well #1-5 will be via the MESA pipeline right-of-way south to where a well access road intersects the right-of-way in Section 8.
9. Production facilities will be painted with a color which blends in with the natural background. Various earth tones can accomplish this.

An archaeological study has been conducted by Powers Elevation. No cultural resources were located at any of the proposed sites.

The proposed activities do not jeopardize listed, threatened, or endangered flora, fauna, or their habitats.

The BLM representative will be Ron Rogers, 789-1362.

Sincerely,



Dean L. Evans
Area Manager
Bookcliffs Resource Area

cc: USGS, Vernal

December 28, 1981

Cotton Petroleum Corporation
717 17th Street, suite #2200
Denver, Colorado 80202

Re: ~~See~~ attached

Gentlemen:

On reference to the above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If you plan to drill this location at a later date, please notify as such.

q Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS AND
MINING

MINI

Cari Furse
Clerk Typist

Well No. Love Unit 1-2-11-21
Sec. 2, T. 11S, R. 21E
Uintah County, Utah

Well No. Love Unit #B 3-9
Sec. 9, T. 11S, R. 21E
Uintah County, Utah

Well No. Love Unit C1-14
Sec. 14, T. 11S, R. 21E
Uintah County, Utah

Well No. Love Unit #1-17
Sec. 17, T. 11S, R. 21 E.
Uintah County, Utah

Well No. Love Unit # 1-23
Sec. 23, T. 11S, R. 21E.
Uintah County, Utah

Cotton Petroleum Corporation
A United Energy Resources, Inc. Company

717-17th Street Energy Center One—Suite 2200, Denver, Colorado 80202 (303) 893-2233



January 5, 1982

State of Utah
Natural Resources & Energy
Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

Attn: Cari Furse

Re: See Attached

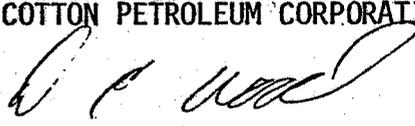
Dear Ms. Furse:

Regarding your letter of December 28, 1981, on the above mentioned wells, Cotton Petroleum Corporation has not spudded them as of yet. We hope to have them our our 1982 drilling program.

Should you need any further information, please contact us.

Sincerely,

COTTON PETROLEUM CORPORATION


D. E. Wood
Division Production Manager

TG

RECEIVED
JAN 07 1982

DIVISION OF
OIL, GAS & MINING

Love Unit 1-2-11-21
Section 2 T11S, R21E
Uintah County, Utah

Love Unit B3-9
Section 9 T11S, R21E
Uintah County, Utah

Love Unit C1-14
Section 14 T11S, R21E
Uintah County, Utah

Love Unit 1-17
Section 17 T11S, R21E
Uintah County, Utah

Love Unit 1-23
Section 23 T11S, R21E
Uintah County, Utah

Minerals Management Service
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104-3984

March 15, 1982

Cotton Petroleum Corporation
717 17th Street - Suite 2200
Denver, Colorado 80202

Re: Return Application for
Permit to Drill
Well No. 1-17
Section 17-T118-E21b
Uintah County, Utah
Lease No. U-8345

Well No. 1-23
Section 23-T118-E21E
Uintah County, Utah
Lease No. U-8346-A

Gentlemen:

The Applications for Permit to Drill the referenced wells were approved on February 27, 1981. Since that date no known activity has transpired at the approved locations. Under current District policy, applications for permit to drill are effective for a period of one year. In view of the foregoing this office is resending the approval of the referenced applications without prejudice. If you intend to drill at these locations at a future date, new applications for permit to drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made at these drill sites. Any surface disturbance associated with the approved locations of these wells will be rehabilitated. A schedule for this rehabilitation must then be submitted. Your cooperation in this matter is appreciated.

Sincerely,

E. W. Gaym
District Oil and Gas Supervisor

bcc: SMA
State Office (OSG)
State Office (ELM)
USGS-Vernal
Well File
APD Control

LD/dh