

UTAH OIL AND GAS CONSERVATION COMMISSION

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

DATE FILED **8-21-80**

LAND: FEE & PATENTED _____ STATE LEASE NO. _____ PUBLIC LEASE NO. **U-8344** INDIAN _____

DRILLING APPROVED: **9-12-80**

SPOUDED IN: _____
 COMPLETED: _____ PUT TO PRODUCING: _____

INITIAL PRODUCTION: _____

GRAVITY A.P.I. _____

GOR: _____

PRODUCING ZONES: _____

TOTAL DEPTH: _____

WELL ELEVATION: **5597' GR**

DATE ABANDONED: **Location Abandoned - Well never drilled Nov 10, 1981**

FIELD: **Wildcat 3/86 Undesignated**

UNIT: **Love Unit**

COUNTY: **Uintah**

WELL NO. **Love Unit C2-15**

API No. **43-047-30775**

LOCATION **1191'** FT. FROM ~~XX~~ LINE. **1313'** FT. FROM ~~XX~~ **(W)** LINE. **SW SW** 1/4 - 1/4 SEC. **15**

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				11S	21E	15	COTTON PETROLEUM CORP.

13

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO.
U-8344

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.
C2-15

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 15-11S-21E

12. COUNTY OR PARISH
Uintah

13. STATE
Utah

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 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface
Section 15-11S-21E 1313 FWL 1191 FSL

1320' FWL & 1320' FSL

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

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
16. NO. OF ACRES IN LEASE
2560'

17. NO. OF ACRES ASSIGNED TO THIS WELL
640

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
19. PROPOSED DEPTH
6850' Mesaverde

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5597' GR

22. APPROX. DATE WORK WILL START*
May 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#	300'	200 sacks
8 3/4"	4 1/2"	10.5#, 11.6#	6850'	2000 sacks

Drill 6850' Mesaverde test. Drill 17 1/2" surface hole to 300' 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 1000 psi before drilling out, test BOP operation daily and record. Drill 8 3/4" hole to 6850' with brine water to 4100' and with a polymer brine water from 4100' to 6850'. Mud weight will be 9.4 to 10.4 pounds per gallon. Evaluate well by sample analysis and electric logs. Run 4 1/2" casing if a commercial well is expected.

APPROVED BY THE DIVISION
OF OIL, GAS, AND MINING

DATE: 9/12/80
BY: [Signature]



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

24. SIGNED: [Signature] TITLE: Division Production Manager DATE: 8-14-80

(This space for Federal or State office use)

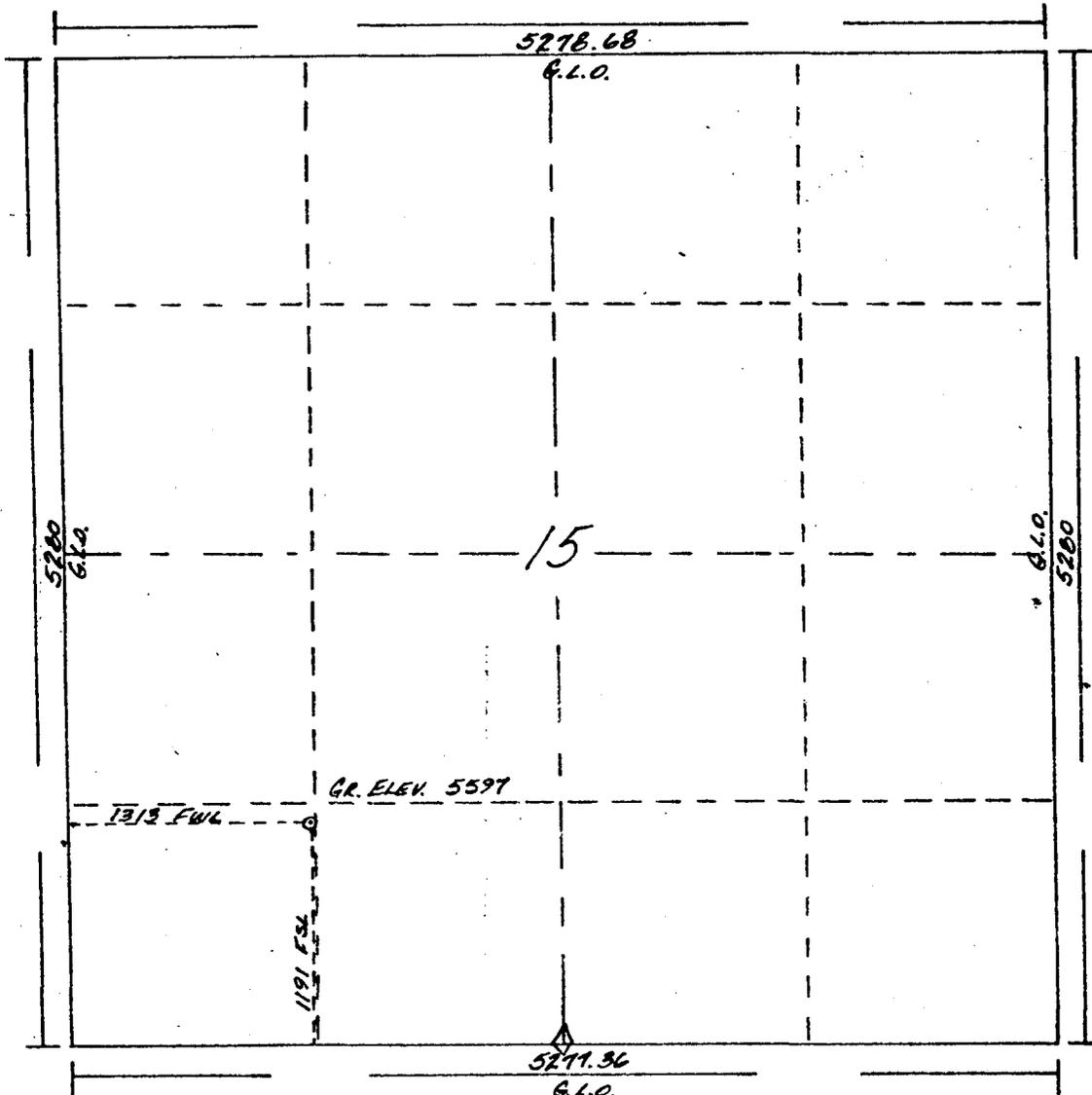
PERMIT NO. 43-047-30775 APPROVAL DATE 9/12/80

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:



R. 21 E.



T. 11 S.



Scale... 1" = 1000'

Powers Elevation Company, Inc. of Denver, Colorado has in accordance with a request from Steve Zamets for COTTON PETROLEUM determined the location of # C2-15 LOVE UNIT to be 1191' FSL & 1313' FWL of Section 15 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 # C2-15 LOVE UNIT

Date: 7-1-80

James R. Becker

Licensed Land Surveyor No. 4189 State of UTAH



August 14, 1980

District Engineer
U. S. Geological Survey
8440 Federal Building
125 S. State
Salt Lake City, UT 84138

Re: Love Unit #C2-15
C SW Sec. 15-11S-21E
Uintah County, Utah
NTL-6 Information for APD

Dear Sir:

1. Surface Formation - Tertiary/Uinta
2. Estimated Tops: Wasatch 4100'
Mesaverde 6400'
3. Estimated Depth of Fluids or Hydrocarbons:
 - a. Surface waters: above 300'
 - b. Wasatch: gas and condensate
 - c. Mesaverde: gas and condensate
4. Surface Casing: approximately 300' of 13 3/8" H-40, 48#, new, cemented with 200 sacks regular cement plus lost circulation material and calcium chloride.

Long String of Casing: 4 1/2", 10.5# & 11.6# N-80 new cemented with 1000 sacks Pozmix cement with thinner/retarder, fluid loss and lost circulation additives.
5. Wellhead Equipment (see Attachment #1)
 - a. 3000# W.P., 6000# test series, 900 casing head and double ran blow-out preventer.
 - b. Nominal 10" casing head and blow-out preventer with 10" flanges.
 - c. See Attachment #1 for 2" fill-up flare line hookup.
 - d. Pressure test wellhead, blow-out preventor, and surface casing to 1000 psi for 30 minutes with maximum 100 psig loss of pressure prior to drilling out from under surface casing.

- e. Test operate pipe rams once each twenty-four hours and both pipe rams and blind rams each trip out of hole, and record on driller's tour report.

6. Drilling Fluid:

- a. Surface hole: Native brine water, wt. 8.5-8.6, vis 30-35.
- b. Under surface to 2500': Brine water, wt. 9.0-9.5, vis 32-38.
- c. 2500'-4100': Brine water as in "b" above.
4100'-6850' TD: Brine water with additives to obtain the following properties: wt 9.4, 10.4, vis 32-28, wI 5-15 c.c.
- d. 400 barrel steel surface pits
- e. No formation gradient higher than 0.5 psi per foot is expected.

7. Auxiliary Equipment:

At top of Wasatch, the following equipment will be installed:

- a. Rotating Head
- b. Stabbing sub and full opening valve on the floor.

8. Testing and Logging:

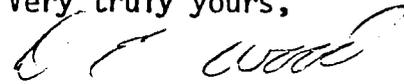
All potential reservoirs listed in "3" above will have drill cuttings and mud examined by a wellsite geologist for shows of oil and gas. An electric logging program of Induction-Laterlog/SP, Gamma Ray/Caliper and CNL/FDC will be run for depth control of all formations, porosity and saturation determinations. A DST will be used if additional evaluation is required. Completion attempt will be made in the Wasatch-Mesaverde with a fracture stimulation.

9. Pressures and Temperatures:

No abnormal pressures or temperatures have been encountered in nearby wells. No hydrogen sulfide has been found in daily mud checks or produced fluids.

10. The well will be started on approximately May 1, 1981, and will require six weeks for drilling plus required time for evaluation of potential reservoirs (testing, logging) and any difficulties encountered by the drilling rig.

Very truly yours,



D. E. Wood
Division Production Manager

DEW/pkh



Surface Use & Operations Plan:

1. Existing Roads:

Access from the Town of Ouray is shown on the attached drainage map (Attachment #2). The route to the well is color-coded in red and described on Attachment #3. The lease road will require upgrading to full load capacity, no additional road preparation is needed during operations except for road grading.

2. Access Roads:

1000 feet of road construction is proposed for the drilling operation. During drilling, the access road will be improved consistent with the existing lease roads; single lane, 16' width, 10% max. grade, drainage ditch on uphill side, 4:1 slope with diversion away from the road as required on downhill slope exceeding 2% grade.

3. Location of Existing Wells:

All existing wells are shown on the topograph map on Attachment #4.

4. Location of Existing and/or Proposed Facility:

There are no tank batteries, production facilities or lease pipelines on the lease. If production is encountered, tank batteries and production equipment will be located at the Northwest edge of the well mat and fenced. All flow lines are to be constructed on the well mat on top of the ground (refer to Attachment #5 for tank battery location in reference to the well). In the event the well is non-productive, all unused portions of the well-pad will be restored to natural conditions.

5. Water Supply:

Water for drilling the subject well will be supplied and trucked from Ouray.

6. Construction Material:

All road and location material will be found on location.

7. Methods of Handling Waste Disposal:

Well cuttings will be disposed in a reserve pit. Garbage will be collected in a trash bin, and removed to approved and completion operations. All detrimental waste will be hauled away. If well is productive, maintenance waste will be placed in special trash cans and hauled away periodically. Any produced water will be collected in tanks until hauled to an approved disposal system. No waste water pits will be constructed without prior approval of U.S.G.S. Human wastes will be collected in a sanitary toilet facility with wastes being buried in a pit with minimum coverage of 24" of dirt.

8. Ancillary Facilities:

Temporary living trailers will be located on the Southeast edge of the well pad. This will include trailers for the rig tool pusher, the consulting engineer and mud loggers.

9. Wellsite Layout:

Refer to Attachment #5 for direction orientation access.

- a. Mat Size - 275 x 330
- b. Cut and Fill - (see Attachment #6 for cut and fill)
- c. Surface - Will be bladed, watered, and compacted.
- d. Reserve Pit - Will be 150 x 150 joining well mat on the North.
- e. Drillsite Layout - Attachment #5 shows position of mat reserve pits, trash pits, and mud pits in relation to well. Rig will be erected with V-Door looking North.
- f. Center line of planned access road has been staked and a 400' square around wellsite has been staked with flags at each corner.

10. Restoration of Surface:

If well is productive, pits will be back-filled and leveled as soon as drying permits. All plastic waste material will be removed or buried with at least 24" of cover. At the time of final abandonment, the road-way as well as pad will be restored to natural conditions.

11. Other Information:

- a. Topographic - Land is gently sloping to the Northeast as shown by the topographic map in Attachment #2
- b. Soil - The soil is very shallow, rocky top soil.
- c. Vegetation - The vegetation is generally sparse and consists primarily of native grasses. Wildlife in the area is that typical of semi-arid land which includes coyotes, rabbits, rodents, reptiles, and quail. The area will be reseeded after drilling is complete.
- d. Ponds and Streams - There are no buildings of any type within a radius of 2 miles of the proposed well.
- f. Surface Use - Grazing and hunting.
- g. Effect on Environment - Drillsite is located in a low environmental risk area. A total effect in drilling and producing this and other wells in this area would be minimal.
- h. Surface Ownership - The proposed drillsite is on federal surface. All proposed roads are on federal surface.
- i. Open Pits - All pits containing mud or other liquids will be fenced. Reserve pits will be fenced on three sides during drilling and the fourth side afterwards.
- j. Well Signs - Signs identifying and locating the well will be maintained at drillsite commencing with the spudding of the well.

12. Operator's Representatives:

Field personnel who can be contacted concerning compliance with the surface use plan are as follows:

Gary Cooper
P. O. Box 280
Wamsutter, Wyoming
phone:
Mobile:

(307) 324-7866
(307) 682-5603

D. E. Wood
Denver, Colorado
office phone:
home phone:

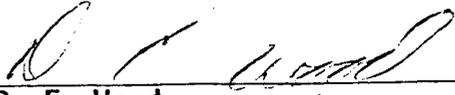
(303) 893-2233
(303) 773-2722

Glenn Garvey
Denver, Colorado
office phone:
home phone:

(303) 893-2233
(303) 979-3714

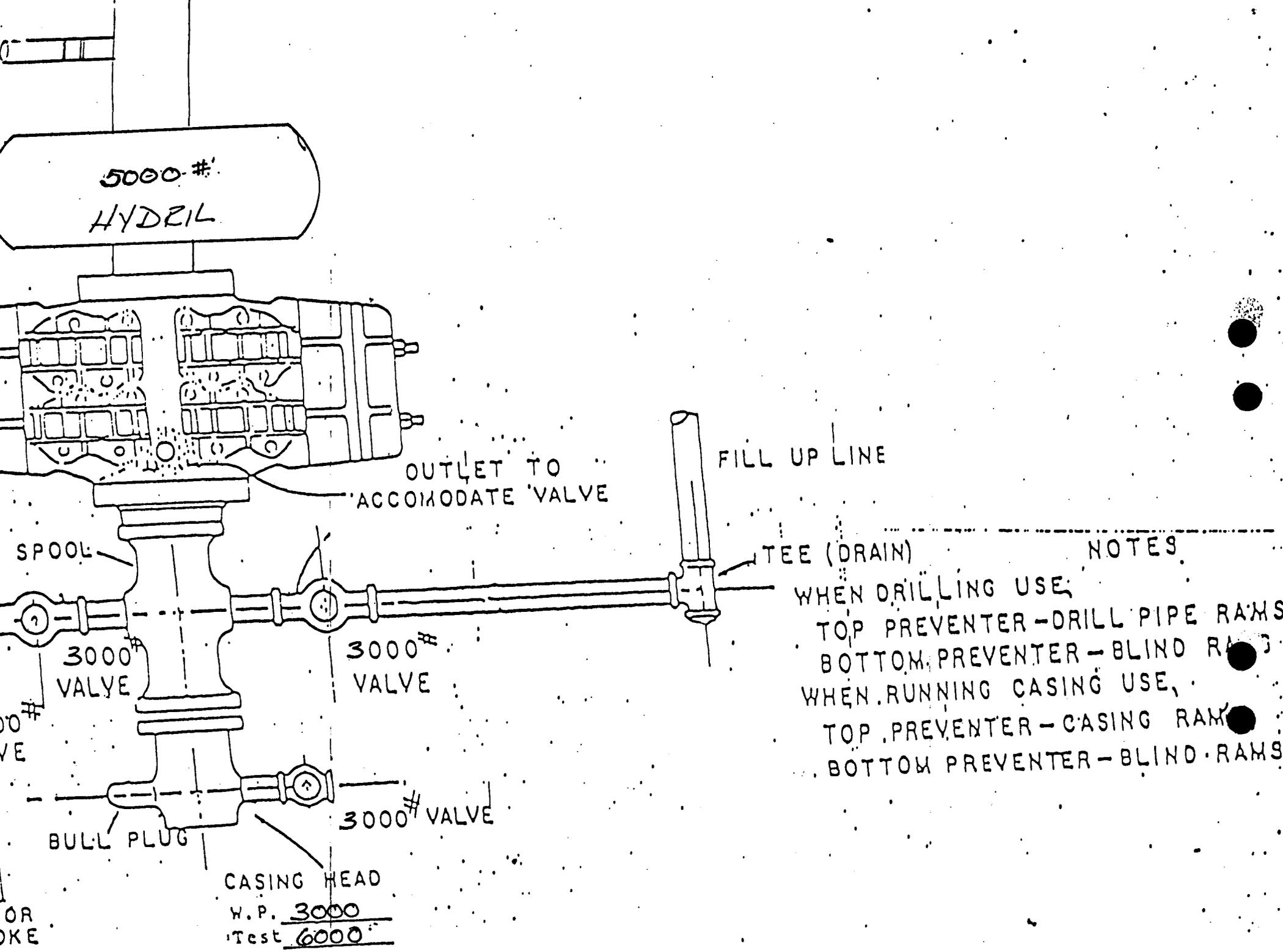
13. Certification:

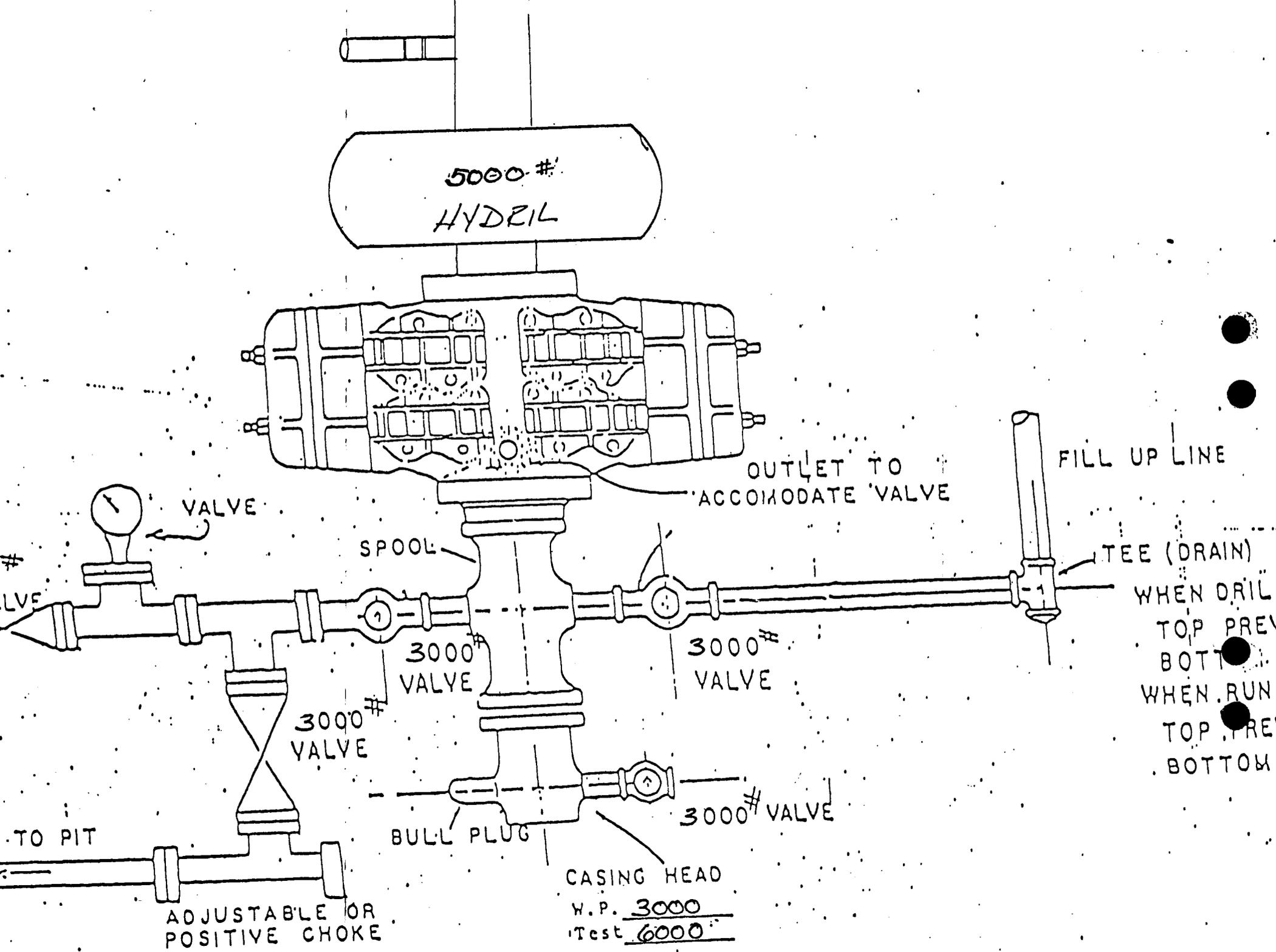
I hereby certify that I, or persons under my direct supervision, have inspected the drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Cotton Petroleum Corporation, All-Western Drilling Company, and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.



D. E. Wood
Division Production Manager

DEW/pkh

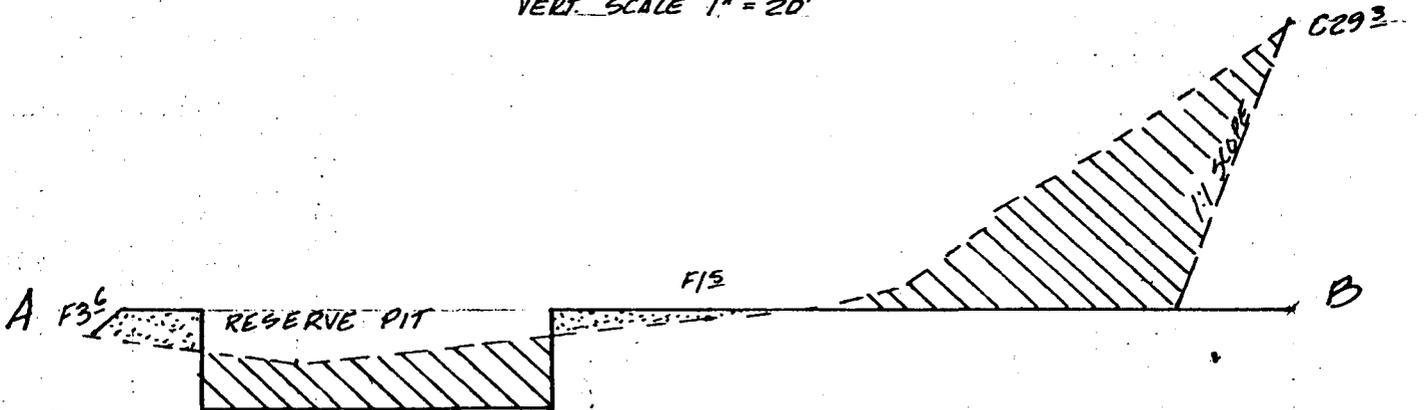




CROSS-SECTION A-B

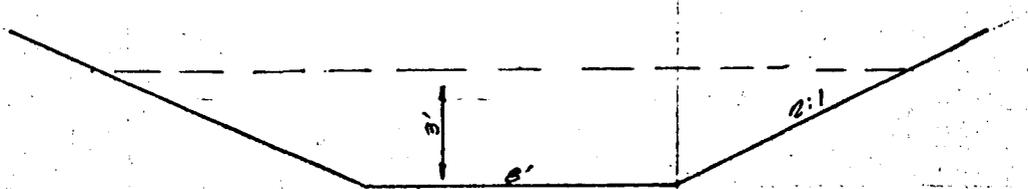
HORIZ. SCALE 1" = 50'

VERT. SCALE 1" = 20'



DRAINAGE DITCH DETAIL

1" = 5' HORIZ. & VERT.



POWERS BUSH CO.
Grand Junction, Colo.
By CARRY A. BUCKNER
7.14.00



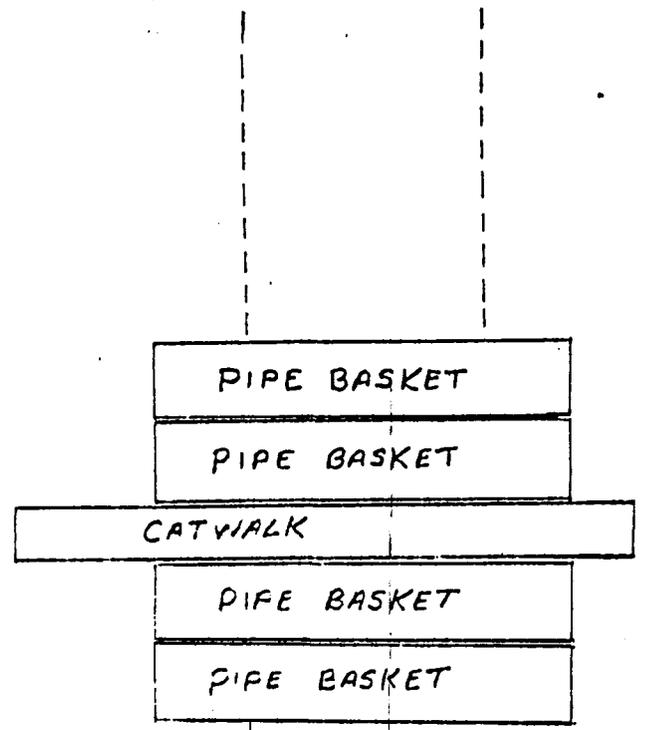
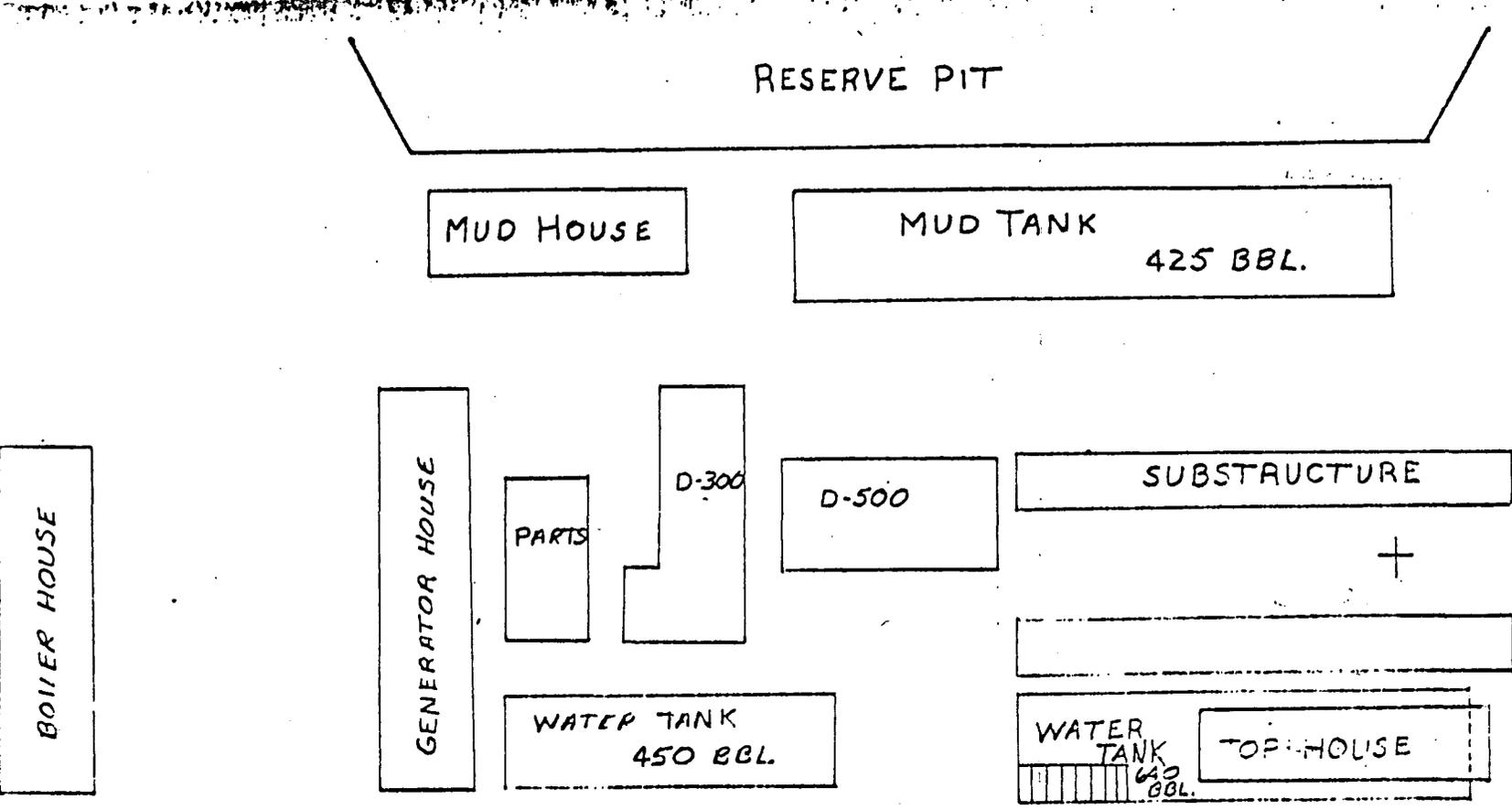
POWERS ELEVATION COMPANY, INC.

July 1, 1980

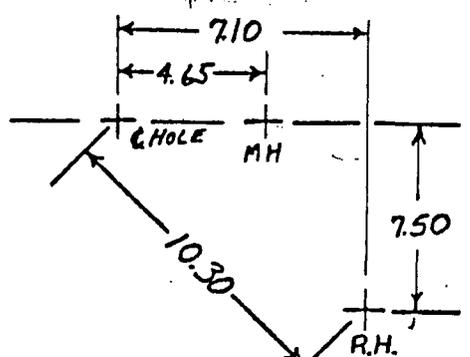
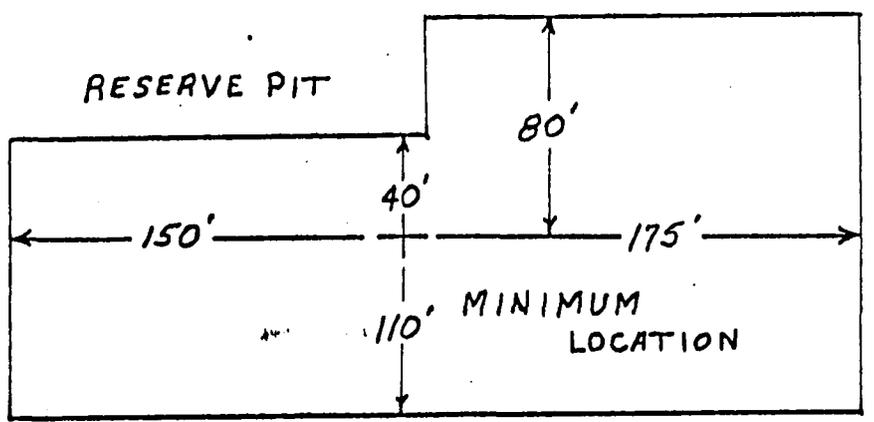
Directions to COTTON PETROLEUM location C2-15 Love Unit:

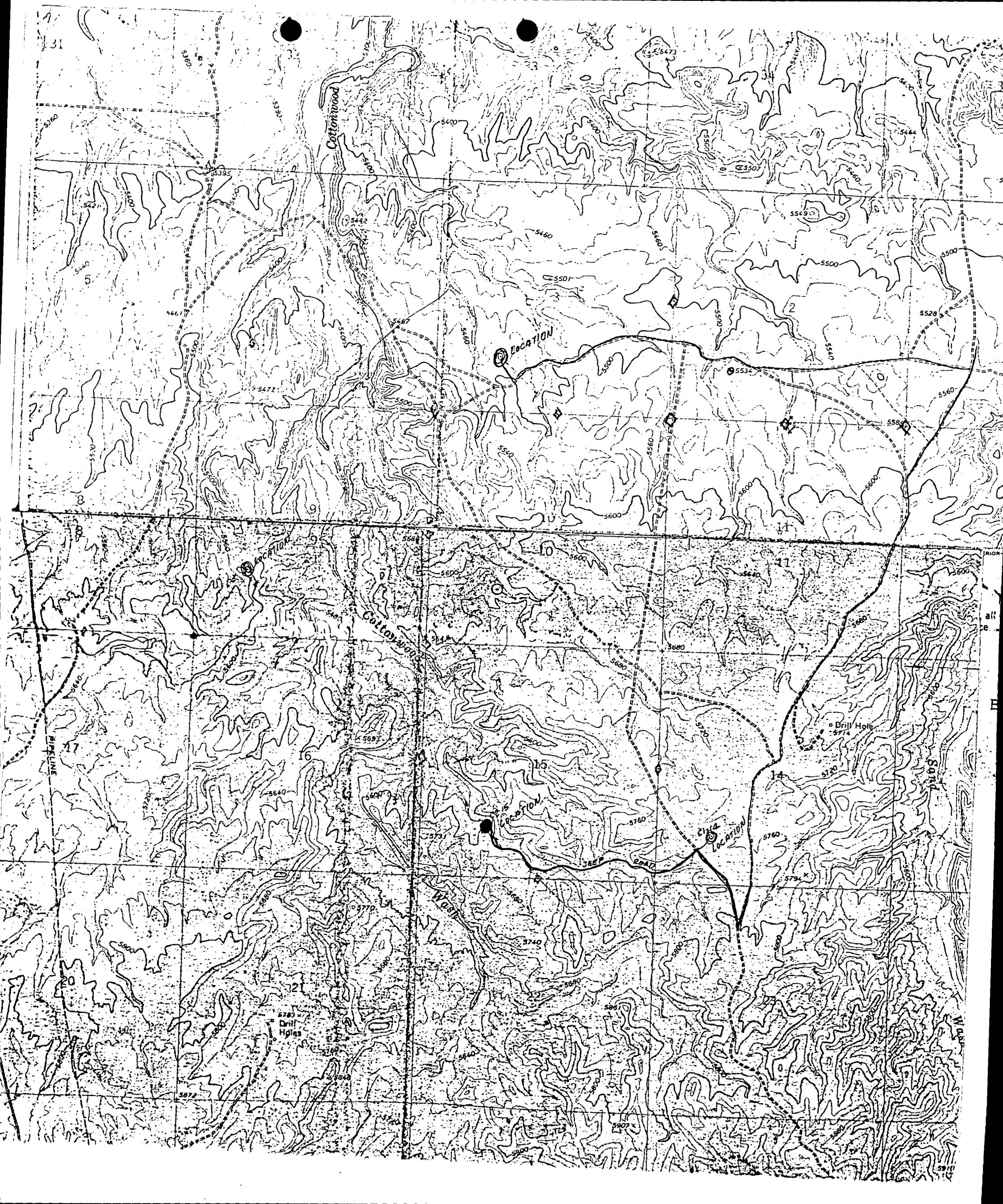
Beginning at the Post Office in downtown Vernal, Utah, go Westerly on U.S. Highway 40 for 14 miles to its intersection with Utah Highway 88; ~~turn left and go Southerly on Utah Highway 88 for 6.8 miles;~~ turn left and go 18.7 miles; turn left and go 6.2 miles; turn left and go 2.6 miles; turn right and go 1.8 miles; turn right and go 1 mile; turn right and go an additional 1 mile to the location.





ACCUM





** FILE NOTATIONS **

DATE: August 25, 1980

OPERATOR: Cotton Petroleum Corporation

WELL NO: True Unit # C2-15

Location: Sec. 15 T. 11S R. 21E County: Uintah

File Prepared:

Entered on N.I.D:

Card Indexed:

Completion Sheet:

API Number 43-047-30775

CHECKED BY:

Petroleum Engineer: _____

Director: _____

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 Ad

Plotted on Map

Approval Letter Written Wtm

Hot Line

P.I.

Unit approval

September 12, 1980

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

Re: Well No. Love Unit #2G-15
Sec. 15, T. 11S, R. 21E.,
Uintah County, Utah

Insofar 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 43-047-30775.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cleon B. Feight
Director

/btm
cc: USGS

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO.
U-8344

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.
C2-15

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA
Sec 15-11S-21E

12. COUNTY OR PARISH
Uintah

13. STATE
Utah

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 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface

Section 15-11S-21E
At proposed prod. zone

LOCATION CHANGE

~~1320' FWL & 1320' FSL~~ 1191' FSL E 1313' FWL SWSW

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)

16. NO. OF ACRES IN LEASE
2560'

17. NO. OF ACRES ASSIGNED TO THIS WELL
640

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

19. PROPOSED DEPTH
6850'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5597' GR

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

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RECEIVED

NOV 10 1980

DIVISION OF
OIL, GAS & MINING

Colorado
Oil and Gas Conservation Commission
Centennial Building
1513 Sherman Street
Denver, Colorado 80202

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

24. SIGNED *[Signature]* TITLE Division Production Manager DATE 8-14-80

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE
FOR E. W. GUYNN DISTRICT ENGINEER DATE NOV 6 1980
APPROVED BY (Orig. Sgd.) A. M. RAFFOUL TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

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

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

Ut. State O&G

U. S. GEOLOGICAL SURVEY - CONSERVATION DIVISION

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

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

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. V-8344

OPERATOR: Cotton Petroleum Corp

WELL NO. C2-15

LOCATION: $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ sec. 15, T. 11S., R. 21E., SLM

UINTAN County, UTAH

1. Stratigraphy: Operator stratigraphy seems reasonable.

2. Fresh Water: Usable water may be encountered in the sands of the Uintan Fm.

3. Leasable Minerals:

Oil Shale - may occur in Green River Fm at an approximate depth of 4200 - 4500' \pm .

Pods of Salines - Dawsonite + nahcolite may occur between the oil shale beds.

Coal - may occur in the Mesaverde.

4. Additional Logs Needed: logs should run through the Green River & Mesaverde Fms.

5. Potential Geologic Hazards: hot circulation in the leached zones in the Green River Fm. Slight pressure (low) in the lower Wasatch & Mesaverde Fms.

6. References and Remarks:

Signature: E. Banish

Date: 9-19-80

Identification CER/EA No. 658-80

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 1191' FSL 1313' FWL Sec. 15, T. 11S, R. 21E
Well No. C2-15 Lease No. U-8344
Date Project Submitted August 21, 1980

FIELD INSPECTION

Date September 4, 1980

Field Inspection
Participants

Greg Darlington - USGS, Vernal
Ron Rogers - BLM, Vernal
Larry England - BLM, Vernal
Don Mecham and Gary Cooper - Cotton Petroleum Corporation
Jim Hacking - D.E. Casada Construction
Bud Pease - Pease 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.

October 1, 1980
Date Prepared

Gregory Darlington
Environmental Scientist

I concur
10/9/80
Date

E. S. [Signature]
District Supervisor

Typing In 10-1-80 Typing Out 10-1-80

PROPOSED ACTION:

Cotton Petroleum Corporation proposes to drill the C2-15 well on lease U-8344, a 6850 foot gas test of the Mesaverde formation. About 1.1 miles of existing jeep trail would be upgraded to 16 foot driving surface width. An area of operations 300 feet by 350 feet would include a reserve pit about 70 feet by 160 feet, the location pad and berms rerouting the existing drainages around the pad. Total surface disturbance for the project would be about 2.5 acres plus general upgrading of the access road.

RECOMMENDED APPROVAL CONDITIONS:

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

1. Lease stipulations
2. BLM surface use stipulations
3. The operator agrees to furnish suitable logs as requested by the Mining and Mineral Evaluation Reports.

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

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

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

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

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

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. V-8344OPERATOR: Cotton Petroleum CorpWELL NO. C2-15LOCATION: 1/2 1/2 1/2 sec. 15, T. 11S., R. 21E., SLMUintah County, Utah1. Stratigraphy: Operator stratigraphy seems reasonable.2. Fresh Water: Useable water may be encountered in the sands of the Uintah Fm.

3. Leasable Minerals:

Oil shale - may occur in Green River Fm at an approximate depth of 4200 - 4500' ±.Pools of Salines - Dawsonite + nahcolite may occur between the oil shale beds.Coal may occur in the Mesaverde.4. Additional Logs Needed: logs should run through the Green River & Mesaverde Fms.5. Potential Geologic Hazards: lost circulation in the leached zones in the Green River Fm. Slight pressure (low) in the lower Wasatch & Mesaverde Fms.

6. References and Remarks:

Signature: E. BaneshDate: 9-19-80

Date 10/16/80

Memorandum

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

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

Subject: Application for Permit to Drill (form 9-331c) Federal oil and gas lease No. U-8344 Well No. C2-15

1. The location appears potentially valuable for:

- strip mining*
- underground mining** *oil shale*
- has no known potential.

2. The proposed area is

- under a Federal lease for _____ under the jurisdiction of this office.
- not under a Federal lease under the jurisdiction of this office.

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

*If location has strip mining potential:

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

**If location has underground mining potential:

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

Signed Allen J. Vance



United States Department of the Interior

GEOLOGICAL SURVEY
Conservation Division
8440 Federal Building
Salt Lake City, Utah 84138

Well # C2-15
Cotton Petroleum
15-115-21E
Uintah County
EA # 658-80

Mr. Peter Rutledge
Area Oil Shale Supervisor
Area Oil Shale Office
131 North Sixth, Suite 300
Grand Junction, Colorado 81501

RECEIVED

AUG 27 1980

OFFICE OF
AREA OIL SHALE SUPERVISOR

Dear Mr. Rutledge,

The Office of Oil and Gas Operations, Conservation Division, received the attached Application for Permit to Drill, Deepen, or Plug Back (Form 9-331C).

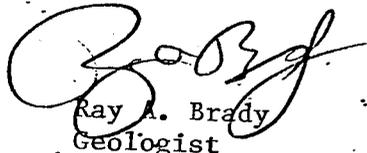
Please review this proposal for any conflict with any of the resources in the oil shale tracts and withdrawal areas. If needed, set forth the stipulations you determine necessary for adequate protection. Please use the following space for your response (if there is none, so state), together with date and initials of person responsible and return to the Office of Oil and Gas Operations.

U.S. Geological Survey
8440 Federal Building
125 South State Street
Salt Lake City, Utah 84138

Cotton Petroleum C2-15
Sec. 15, T11S, R21E

September 17, 1980

Proposed casing and cementing program indicates that 4½" casing will only be set if the well is commercial. The casing and cementing program for a commercial well appears to be adequate for protection of the top and base of the Green River oil shale section and oil shale rich Mahogany Zone (≈ 1400' depth). However, if the well is not commercial and casing is not used, a cementing program is necessary to insure protection of the top and base of the Green River oil shale section and oil shale rich Mahogany Zone.


Ray A. Brady
Geologist



SCOTT M. MATHESON
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

STATE OF UTAH

CHARLES R. HENDERSON
Chairman

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT
Director

1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

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

April 27, 1981

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

Re: Well No. Love Unit #B2-3
Sec. 3, T. 11S. R. 21E.
Uintah County, Utah

Re: Well NO. Love Unit #B3-9
Sec. 9, T. 11S. R. 21E.
Uintah Coutny, Utah

Re: Well No. Love Unit #2C-15
Sec. 15, T. 11S. R. 21E.
Uintah County, Utah

Gentlemen:

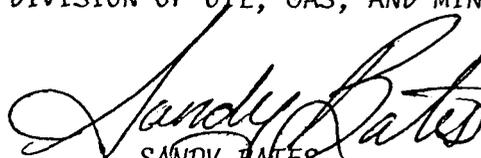
In reference to above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not recieved 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 on drilling these locations at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING


SANDY BATES
CLERK-TYPIST

Cotton Petroleum Corporation
A United Energy Resources, Inc. Company

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



April 30, 1981

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

Re: Love Unit B2-3
Section 3 T11S, R21E
Uintah County, Utah

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

Love Unit 2C-15
Section 15 T11S-R21E
Uintah County, Utah

Dear Sir:

Please refer to your letter of April 27, 1981 concerning the above mentioned wells. Cotton Petroleum has encountered some difficulties in obtaining Right-of-Ways across State land for access to the above mentioned wells. It appears that we will receive Right-of-Way within the next 30-60 days, which will allow us to drill the wells before the end of 1981.

If you have any further questions, please contact Mr. Glenn Garvey at 303-893-2233.

Sincerely,

COTTON PETROLEUM CORPORATION

D E Wood / MAX

D. E. Wood
Division Production Manager

MAY 4 1981

DIVISION OF
OIL, GAS & MINING

GAG/tg

Conservation Division
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104-3864

November 10, 1981

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

Re: Return Application for
Permit to Drill
Well No. C2-15
Section 15, T. 11S, R. 21E.
Uintah County, Utah
Lease No. U-8344

Gentlemen:

The Application for Permit to Drill the referenced well was approved November 6, 1980. Since that date no known activity has transpired at the approved location. Under current District policy, application's for permit to drill are effective for a period of one year. In view of the foregoing this office is rescinding the approval of the referenced application without prejudice. If you intend to drill at this location on a future date a new application for permit to drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of this well is to be rehabilitated. A schedule for this rehabilitation must, then be submitted. Your cooperation in this matter is appreciated.

Sincerely,

Sol
E. W. Gynn
District Oil and Gas Supervisor

bcc: DCM, CR, O&G, Denver
BLM-Vernal
State Office (O&G)
State Office (BLM)
USGS-Vernal
Well File
APD Control

RAH/IM/tm