

UTAH DIVISION OF OIL, GAS AND MINING

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

*Confidential Status Released 12-3-80*

DATE FILED 12-21-79

LAND: FEE & PATENTED STATE LEASE NO. ML-28628 PUBLIC LEASE NO. \_\_\_\_\_ INDIAN \_\_\_\_\_

DRILLING APPROVED: 12-26-79

SPUDED IN: \_\_\_\_\_

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

INITIAL PRODUCTION: \_\_\_\_\_

GRAVITY A.P.I. \_\_\_\_\_

GOR: \_\_\_\_\_

PRODUCING ZONES: \_\_\_\_\_

TOTAL DEPTH: \_\_\_\_\_

WELL ELEVATION: \_\_\_\_\_

DATE ABANDONED: Location Abandoned (Well Never Drilled) 7-3-80

FIELD: Wildcat 7/9

UNIT: \_\_\_\_\_

COUNTY: Box Elder

WELL NO. State of Utah "M" #1 API NO: 43-003-30011

LOCATION 1980' FT. FROM (N) ~~XX~~ LINE. 1980' FT. FROM (E) ~~XXX~~ LINE. C SW NE  $\frac{1}{4}$ - $\frac{1}{4}$  SEC. 28

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
5N	8W	28	AMOCO PRODUCTION COMPANY				

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

(Dearden)

5. Lease Designation and Serial No.

ML-28628

6. If Indian, Allottee or Tribe Name

**CONFIDENTIAL**  
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL

DEEPEN

PLUG BACK

7. Unit Agreement Name

b. Type of Well

Oil Well

Gas Well

Other

Single Zone

Multiple Zone

8. Farm or Lease Name

State of Utah 'M'

2. Name of Operator

AMOCO PRODUCTION COMPANY

9. Well No.

#1

3. Address of Operator

P.O. Box 17675 Salt Lake City, Utah 84117

10. Field and Pool, or Wildcat

Wildcat

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*

11. Sec., T., R., M., or Blk. and Survey or Area

Sec. 28, T5N, R8W

C SW/4 NE/4 Sec. 28 1980' FNL & 1980' FEL  
At proposed prod. zone

14. Distance in miles and direction from nearest town or post office\*

12. County or Parrish 13. State

Box Elder Utah

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)

16. No. of acres in lease  
2560.00

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  
5,000' Paleozoic

20. Rotary or cable tools  
Rotary

21. Elevations (Show whether DF, RT, GR, etc.)

4193' Lake Level

22. Approx. date work will start\*

When Approved

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
26"	20" Drive Pipe	94#	300'	suff. to circulate to surface Upon logging, cement sufficient to cover pay and aquifer
17 1/2"	13 3/8"	48#	1500'	
12 1/4"	9 5/8"	43.5#	5000'	

TIGHT HOLE:

Propose to drill a well to test the Tertiary Beds of the Great Salt Lake. Well to be drilled in compliance with the State of Utah, "Operating Rules and Regulations Governing Drilling Procedures in the Great Salt Lake" and the "Oil, Gas and Hydrocarbon" lease for subject lands. An Oil Spill Contingency Plan is on file with your office.  
"See Attachments"

Note: Survey plats will be forwarded to your office immediately upon preparation

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.S. Davidson* Title: Dist. Admin. Supervisor Date: 12/20/79

(This space for Federal or State office use)

Permit No. 43-003-30011 Approval Date

Approved by: Title: Date:

Conditions of approval, if any:

ATTACHMENT TO FORM NO. OGC-1a

State of Utah 'M' #1

1. Geologic name of the surface formation: Tertiary

2. Estimated tops of geological markers:

Tertiary 'G'	2500'
Paleozoic	4800'

3. Estimated depths anticipated to encounter water, oil or gas and other mineral-bearing formations:

See Item #2 above

4. Casing Program: See Form OGC-1a, Item #23

5. Operators specifications for pressure control equipment are shown on the attached schematic diagram. Testing and specifics for same shall be in compliance with the "Operating Rules and Regulations Governing Drilling Procedures in the Great Salt Lake"

6. Mud Program:

Surface to Total Depth: Low solid, non-dispersed,  
8.6 - 9.0#/gal. Viscosity  
as required to clean hole.

7. Testing Program:

Drill stem tests will be run at the discretion of the Denver Exploration Department

Logging Program:

Dual Induction - SFL	Base of conductor pipe to TD
Integrated BHC-GR Sonic	
w/Caliper	"    "    "    "
CNL-FDC w/GR	"    "    "    "
High resolution dipmeter	"    "    "    "
High resolution temperature survey & velocity survey	Surface to TD

Coring Program:

Cores to be taken at the discretion of the Denver Exploration Department

Stimulation Program:

To be determined by the Denver Division office upon completion of drilling operations

8. No abnormal pressures, temperatures, or hydrogen sulfide gas are anticipated.
9. It is anticipated that drilling operations will commence when approved and duration of operations will be approximately 30 days.

**EXHIBIT BOP-5000**  
**MINIMUM BLOW-OUT PREVENTER REQUIREMENTS**  
**5,000 psi W.P.**

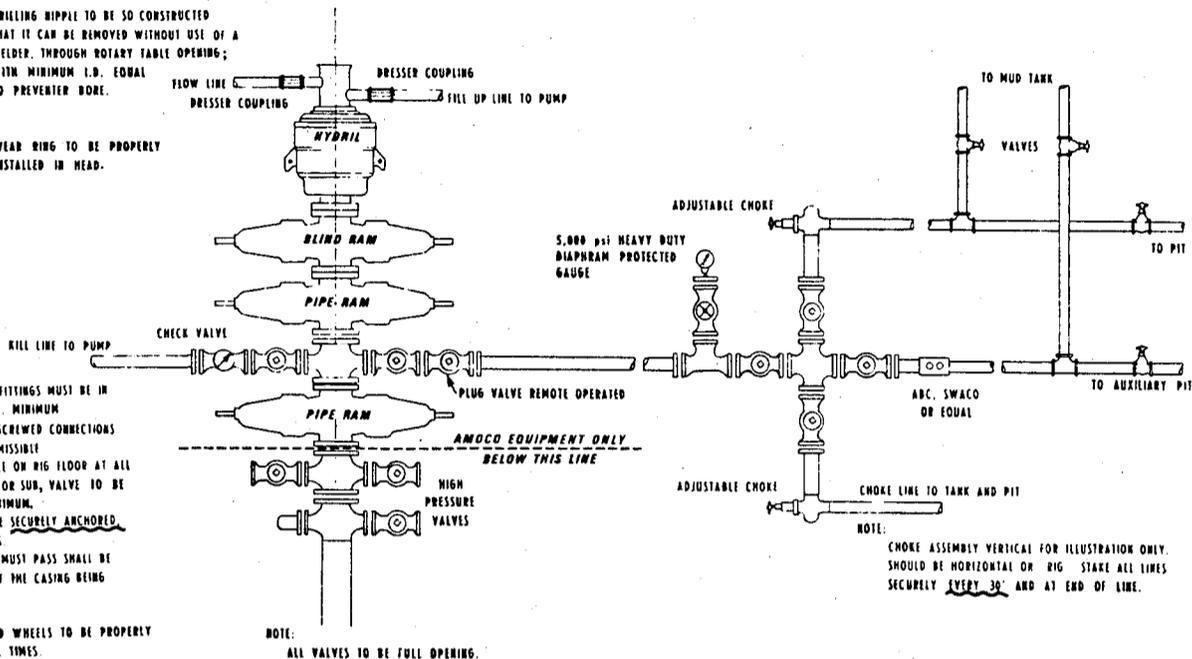
**NOTE:**

1 DRILLING HIPPLE TO BE SO CONSTRUCTED THAT IT CAN BE REMOVED WITHOUT USE OF A WELDER, THROUGH ROTARY TABLE OPENING; WITH MINIMUM I.D. EQUAL TO PREVENTER BORE.

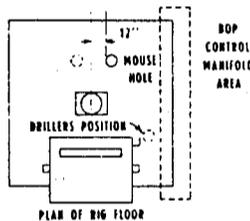
2 WEAR RING TO BE PROPERLY INSTALLED IN HEAD.

**NOTE:**

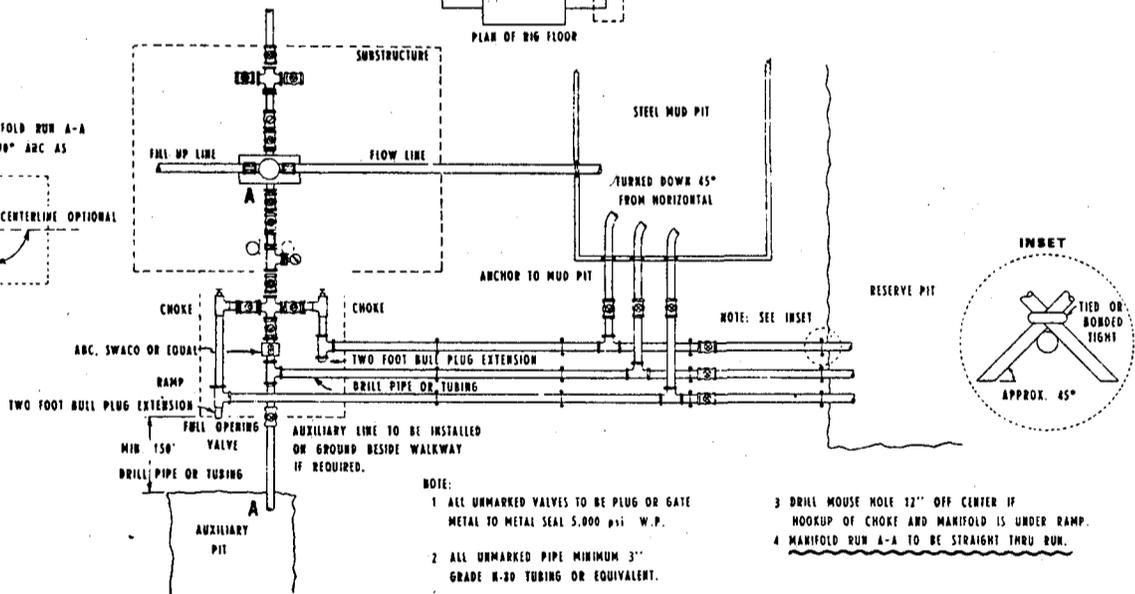
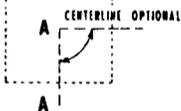
- 1 BLOW-OUT PREVENTERS AND ALL FITTINGS MUST BE IN GOOD CONDITION 5,000 psi W.P. MINIMUM
- 2 ALL FITTINGS TO BE FLANGED SCREWED CONNECTIONS DOWNSTREAM FROM CHOKES PERMISSIBLE
- 3 SAFETY VALVE MUST BE AVAILABLE ON RIG FLOOR AT ALL TIMES WITH PROPER CONNECTION OR SUB, VALVE TO BE FULL BORE 5,000 psi W.P. MINIMUM.
- 4 ALL CHOKES AND KILL LINES TO BE SECURELY ANCHORED, ESPECIALLY ENDS OF CHOKES LINES
- 5 EQUIPMENT THROUGH WHICH BIT MUST PASS SHALL BE AS LARGE AS INSIDE DIAMETER OF THE CASING BEING DRILLED THROUGH
- 6 KELLY COCK ON KELLY.
- 7 EXTENSION WRENCHES AND HAND WHEELS TO BE PROPERLY INSTALLED AND BRACED AT ALL TIMES.
- 8 RIG FLOOR BLOW-OUT PREVENTER CONTROL TO BE LOCATED AS CLOSE TO DRILLERS POSITION AS FEASIBLE
- 9 BLOW-OUT PREVENTER CLOSING EQUIPMENT TO INCLUDE 80 GALLON ACCUMULATOR, TWO INDEPENDENT SOURCES OF PUMP POWER OR EACH CLOSING UNIT INSTALLATION. ADD MEET ALL IADC SPECIFICATIONS.



**NOTE:**  
ALL VALVES TO BE FULL OPENING.



**NOTE:**  
DIRECTION OF MANIFOLD RUN A-A OPTIONAL WITHIN 90° ARC AS SHOWN BELOW.



**NOTE:**

- 1 ALL UNMARKED VALVES TO BE PLUG OR GATE METAL TO METAL SEAL 5,000 psi W.P.
- 2 ALL UNMARKED PIPE MINIMUM 3" GRADE N-80 TUBING OR EQUIVALENT.
- 3 DRILL MOUSE HOLE 12" OFF CENTER IF HOOKUP OF CHOKES AND MANIFOLD IS UNDER RAMP.
- 4 MANIFOLD RUN A-A TO BE STRAIGHT THRU RUN.

Amoco Production Company  
 STANDARD ASSEMBLY FOR FLUID  
 OPERATED TRIPLE BLOW-OUT PREVENTER  
 5,000 psi W.P.



**Amoco Production Company**

Post Office Box 17675  
Salt Lake City, Utah 84117  
801-272-9253

W. M. Jones  
District Superintendent

December 20, 1979

Mr. William K. Dinehart, Director  
Division of State Lands  
Room 411 - Empire Building  
Salt Lake City, UT 84111

File: WMJ-1932-WF

Application for Permit to Drill the State of Utah "M" #1, Box Elder County, Utah

In accordance with Section 6, Paragraph (1), of the "Oil, Gas, and Hydrocarbon" lease issued by the State Land Board in June, 1973, Amoco Production Company hereby requests permission to drill the subject well at a location in the SW/4 NE/4, Section 28, Township 5 North, Range 8 West, SLBM, Box Elder County, Utah.

Under the provisions of the aforementioned section, no well may be drilled "Within one mile inside of what would be the water's edge if the water level of Great Salt Lake were down to elevation 4193.3' above sea level", without the written authorization of the State Land Board. As a result, please consider this letter and the accompanying "Application for Permit to Drill" as Amoco's request for such authorization.

As said well is scheduled for drilling within approximately 45 days, your prompt review and decision would be appreciated. However, should it be determined that a hearing will be required, please notify this office immediately by calling 272-9253 and advising Mr. Don S. Davidson.

*W M Jones WCN*

W. M. Jones  
District Superintendent

Attachments

✓ cc:

Mr. Cleon B. Feight, Director  
Division of Oil, Gas, and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

SW/crj

~~CONFIDENTIAL~~

\*\* FILE NOTATIONS \*\*

DATE: 12/26/79

OPERATOR: Amoco

WELL No. SEB A-1

LOCATION: SEC. 28 T. 5N R. 8W COUNTY Box Elder

FILE PREPARED: \_\_\_\_\_

ENTERED ON NID: \_\_\_\_\_

CARD INDEXED: \_\_\_\_\_

COMPLETION SHEET: \_\_\_\_\_

API NUMBER: 43-003-30011

CHECKED BY:

GEOLOGICAL ENGINEER: \_\_\_\_\_

PETROLEUM ENGINEER: \_\_\_\_\_

DIRECTOR: OK conditional upon survey plat being filed

APPROVAL LETTER:

BOND REQUIRED: \_\_\_\_\_

SURVEY PLAT REQUIRED:

ORDER No. 150-2 12/20/74

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 State

PLOTTED ON MAP

APPROVAL LETTER WRITTEN

*lstm*

*GSL approval + plat*

*hl PI*

# CONFIDENTIAL

80  
January 4, 1978

Amoco Production Company  
P.O. Box 17675  
Salt Lake City, Utah 84117

Re: Well No. State of Utah M-1, Sec. 28, T. 5N, R. 8W, Box Elder County, Utah  
Well No. State of Utah N-1, Sec. 4, T. 11S, R. 4W, Tooele County, Utah  
Well No. State of Utah O-1, Sec. 14, T. 4N, R. 8W, Box Elder County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to wells is hereby granted in accordance with the Order issued in Cause No. 150-2, dated November 20, 1974; and the "Operating Rules and Regulations Governing Drilling Procedures in the Great Salt Lake," adopted July 18, 1973, by the Board of Oil, Gas and Mining.

However, said approval shall be contingent upon the following:

1. A surveyor's plat being furnished this office in accordance with Rule C-4(a), General Rules and Regulations and Rules of Practice and Procedure. One is required on each well;
2. The blowout prevention equipment being tested by an independent source after initial installation on all of the above wells;
3. Notification as to the name of the drilling contractor and the rig number used prior to commencement of spudding operations;
4. A drilling and plugging bond being filed with the Division of State Lands prior to commencement of operations.

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

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

Amoco Production Company  
January 4, 1978 P.O.  
Page 2

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 numbers assigned to these wells are:

M-1 43-003-30011  
N-1 43-003-30010  
O-1 43-003-30012

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Hinder  
Geological Engineer

/bdm

cc: Donald Prince

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

(Dearden)

7

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. ML-28628
2. NAME OF OPERATOR Amoco Production Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 17675, Salt Lake City, UT 84117		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface C SW/4 NE/4 Sec. 28 1980' FNL & 1980' FEL		8. FARM OR LEASE NAME State of Utah 'M'
14. PERMIT NO. 43-003-30011		9. WELL NO. #1
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4193' Lake Level		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 28 T5N, R8W
		12. COUNTY OR PARISH Box Elder
		18. STATE Utah

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

NOTICE OF INTENTION TO :		SUBSEQUENT REPORT OF :	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	
(Other) <input checked="" type="checkbox"/> Abandon Location			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

This is to advise that the location for the subject well has been abandoned.

RECEIVED  
JUL 03 1980

**TIGHT HOLE**

DIVISION OF OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct  
SIGNED Dearden TITLE Dist. Admin. Supervisor DATE 7-1-80

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY: