UTAH OIL AND GAS CONSERVATION COMMISSION

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

DATE FILED 7-8-85

LAND: FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. U-54044 INDIAN

DRILLING APPROVED: 7-15-85 - OIL

SPUDDED IN:

COMPLETED: PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION: 9939' Gr

DATE ABANDONED: APA - Application Rescinded 7-1-86

FIELD: WILDCAT

UNIT: STILLWATER FORK

COUNTY: SUMMIT COUNTY

WELL NO. FEDERAL AMOCO "A" #1 API #43-043-30275

LOCATION 1960' FNL FT. FROM (N) (S) LINE, 516' FEL FT. FROM (E) (W) LINE. SE NE 1/4 — 1/4 SEC. 21

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
1N	10E	21	AMOCO PRODUCTION CO.				

Form 9-331 C
(May 1963)

SUBMIT IN T[redacted]TE*
(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

5. LEASE DESIGNATION AND SERIAL NO.: U-54044

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK
DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL
OIL WELL [X] GAS WELL [ ] OTHER SINGLE ZONE [ ] MULTIPLE ZONE [ ]

7. UNIT AGREEMENT NAME: Stillwater

8. FARM OR LEASE NAME: Federal Amoco "A"

2. NAME OF OPERATOR: AMOCO PRODUCTION COMPANY

RECEIVED

9. WELL NO.: #1

3. ADDRESS OF OPERATOR: P. O. BOX 829, EVANSTON, WYOMING 82930

JUL 05 1985

10. FIELD AND POOL, OR WILDCAT: Wildcat

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

DIVISION OF OIL
GAS & MINING

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 21, T1N, R10E

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 38 Miles South of Evanston, Wyoming

12. COUNTY OR PARISH: Summit

13. STATE: Utah

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	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**	**20. ROTARY OR CABLE TOOLS**
	19,000'	

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

22. APPROX. DATE WORK WILL START*: Approval of APD

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

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 _____ TITLE _____ DATE _____

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

Amoco Production Company

July 5, 1985

RECEIVED
JUL 08 1985
DIVISION OF OIL
GAS & MINING

Bureau of Land Management
324 South State Street
Salt Lake City, Utah 84111

Re: Federal Amoco "A" #1 Well Located
SE/4 NE/4, Sec. 21, T1N, R10E
Summit County, Utah Lease #U-54044

File: JEK-553/WF

Enclosed please find an Application for Permit to Drill for the above referenced well.

A Water Well for the oil/gas well has been applied for from the Utah State Engineers Office.

Also, note that the plat is included on the blueprint labeled Exhibit "B" of the enclosed permit.

If further information is needed please contact Karen Gollmer of this office at (307) 789-1700 x 2206.

Thank you,

J.E. Kennedy
District Administrative Supervisor

kg/

Attachments

Form 9-331 C
(May 1963)

SUBMIT IN [illegible]PLICATE*
(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 [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR: P. O. BOX 829, EVANSTON, WYOMING 82930

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: SE/4 NE/4 Sec. 21, 516' FEL & 1960' FNL
At proposed prod. zone:

RECEIVED
JUL 08 1985
DIVISION OF OIL GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.: U-54044
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME: Stillwater FORK
8. FARM OR LEASE NAME: Federal Amoco "A"
9. WELL NO.: #1
10. FIELD AND POOL, OR WILDCAT: Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 21, T1N, R10E
12. COUNTY OR PARISH: Summit
13. STATE: Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 38 miles South of Evanston, Wyoming

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 516'
16. NO. OF ACRES IN LEASE:
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: 19,000' nugget
20. ROTARY OR CABLE TOOLS:
21. ELEVATIONS (Show whether DF, RT, GR, etc.): 9939' graded Ground
22. APPROX. DATE WORK WILL START*: Approval of APD

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	20"	106.5	1500'	2300 sx
17.5"	13 3/8"	88.2,72,68	7600'	4100 sx
12.25"	9 5/8"	53.5,47,43.5	13500'	3000 sx
8.5"	7 5/8"	39,33.7	18000'	500 sx
6.5"	5"	15	19000'	125 sx

AMOCO PROPOSES WILDCAT TEST OF DAKOTA AND SUBTHRUST NUGGET

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 7/15/85
BY: John R. Baza
WELL SPACING: Unit well

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.

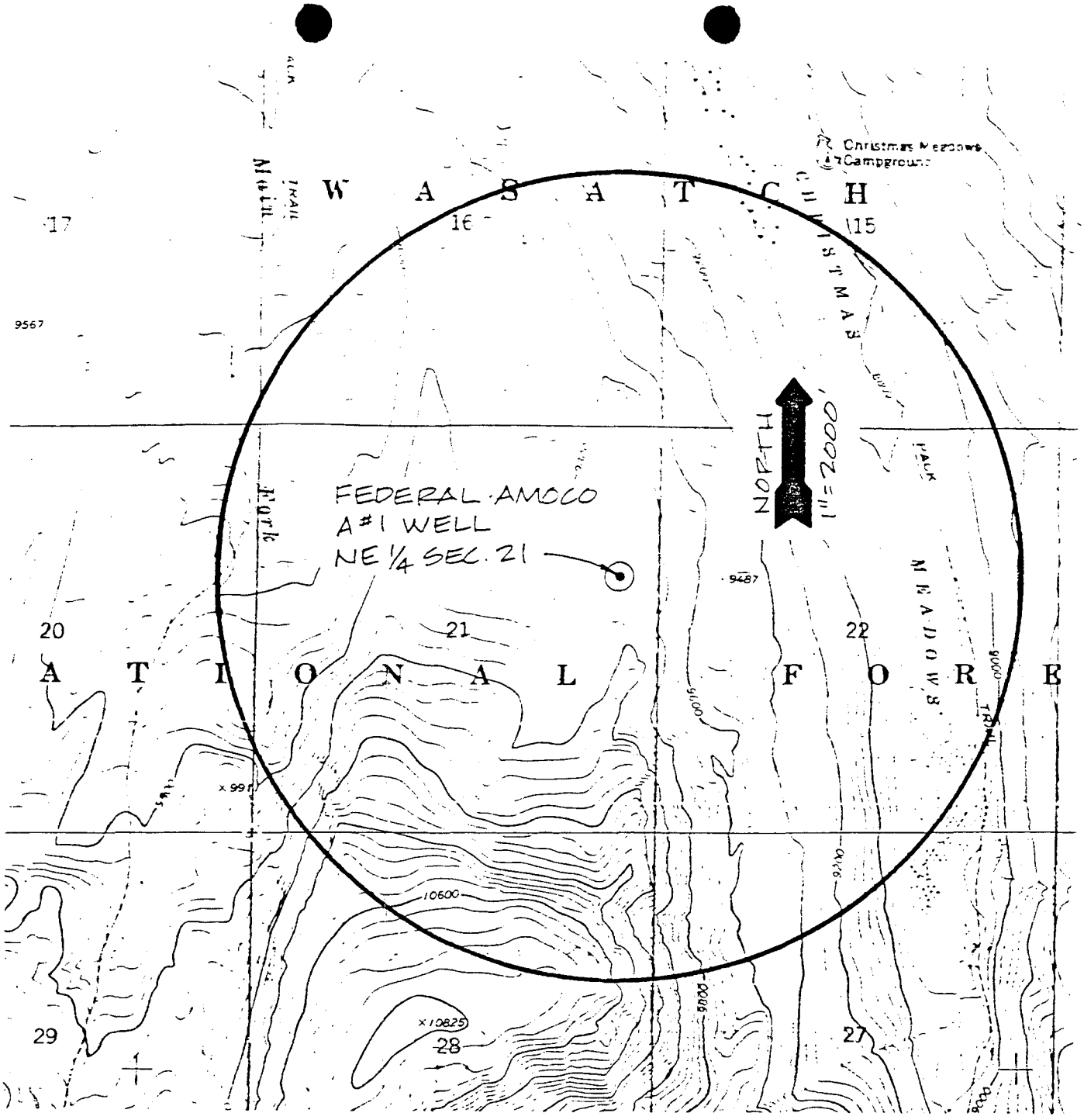
24.
SIGNED Dick R. Adams TITLE District Drilling Supervisor DATE 7/1/85

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side



MAP SHOWING
ONE-MILE RADIUS
AROUND
FEDERAL-AMOCO A#1 WELL
SEC. 21 T1N, R10E SLB&M
SUMMIT COUNTY, UTAH

UINTA ENGINEERING & SURVEYING INC.
84-10-61 7-02-85

10-Point Drilling Program

Federal Amoco A #1

1) Geologic name of the surface formation: Precambrian

2) Estimated tops of geological markers:

Formation	Depth
Base Precambrian	7,600'
Thaynes	8,100'
*Phosphoria	9,100'
Weber	9,600'
*Madison	11,100'
Darby Thrust Base	13,500'
*Frontier	15,200'
#Dakota	16,600'
Morrison	16,800'
*Nugget	18,500'
Total Depth	19,000'

3) Anticipated depths to encounter water, oil, gas or other mineral-bearing formations:

Substances	Depth
Oil Gas, Water	9,100'
Oil Gas, Water	11,100'
Oil Gas, Water	15,200'
Oil Gas, Water	16,600'
Oil Gas, Water	18,500'

4) Casing Program:

Hole Size	Casing	Wt/Ft	Grade	Threads	Cementing Depth
26"	20"	106.5	K55	ST&C	1,500'
17.5"	13 3/8"	88.2,72,68	SS95/J55	BT&C	7,600'
12.25"	9 5/8"	53.5,47.43.5	SS95	LT&C	13,500'
8.5"	7 5/8"	39,33.7	L80/S105/ SS95	FL4S	18,000'
6.5"	5"	15	S105	FL4S	19,000'

Every effort will be made to cement the 13 3/8" casing from setting depth to surface.

5) Operators minimum specifications for pressure control equipment are explained on the attached schematic diagram. After running surface casing and prior to drilling out, the BOP and other pressure equipment will be tested to the full working pressure rating as shown on the attached diagram. BOPs will be tested every 30-day interval and after every string of casing is run. Thereafter, the BOP will be checked daily for mechanical operations only and will be noted on the IADC Daily Drilling Report.

6) Mud Program:

Interval	Type Mud	Wt #/gal	Viscosity	WL CC/30M
0-1500'	Spud	8.8	Sufficient to clean and	
1500'-7600'	Areated	(3)	stabilize hole.	
7600'-13500'	LSND	8.8		
12500'-18000'	LSND	8.8-11.5		
18000'-TD	LSND	8.8		

7) Kelly cock; sub with full opening valve 3" choke manifold with remote control choke; monitor system on pit level, audio and visual; mudlogger (2-man type) w/chromatograph.....

8) Testing Program:

DST

If possible to be run in following zones:
Darby Plate
Frontier
Dakota
Nugget

Logging Program:

DLL w/SPGR	Base of surface casing to TD
DIL w/SPGR	Base of surface casing to TD
Long Space Sonic w/GR-Cal	Base of surface casing to TD
FDC-CNL w/GR-Cal	Base of surface casing to TD
HDT-GR	Base of surface casing to TD
Velocity Surveys	Base of surface casing to TD

Coring Program:

60' core possible in the Dakota to be determined by shows

9) No abnormal pressures or temperatures are anticipated. H_2S expected from Phosphoria to Total Depth - Refer to Attached "Contingency Plan"

10) Anticipated starting date will be when approved and the duration of drilling operations will be approximately 258 days.

Form 9-1123
(Rev. Dec. 1967)

(Submit in triplicate to appropriate
Regional Oil and Gas or Mining Supervisor)

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City, Utah
SERIAL NO.: U-54044

and hereby designates

NAME: Amoco Production Company
ADDRESS: P. O. Box 800
Denver, Colorado 80201

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Township 1 North, Range 10 East, S.L.M.
Section 15: All

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

HNG OIL COMPANY

By: Robert A. Gray
Robert (Signature of lessee)
Title: Agent and Attorney-in-Fact

Feb 7, 1985
(Date)

718 17th Street, Suite 2300, Denver, Colo. 80202
(Address)

U. S. GOVERNMENT PRINTING OFFICE 16—63466-8

Evidence of Authority of Agent and Attorney-in-Fact to execute is filed in corporation qualification file NM-43000 and is still in effect.

Form 9-1123
(Rev. Dec. 1967)

(Submit in triplicate to appropriate
Regional Oil and Gas or Mining Supervisor)

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Utah
SERIAL NO.: U-54044

and hereby designates

NAME: Amoco Production Company
ADDRESS: 1670 Broadway, Denver, CO 80202

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Township 1 North, Range 10 East, S.L.M.
Section 15: All

Summit County, Utah

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

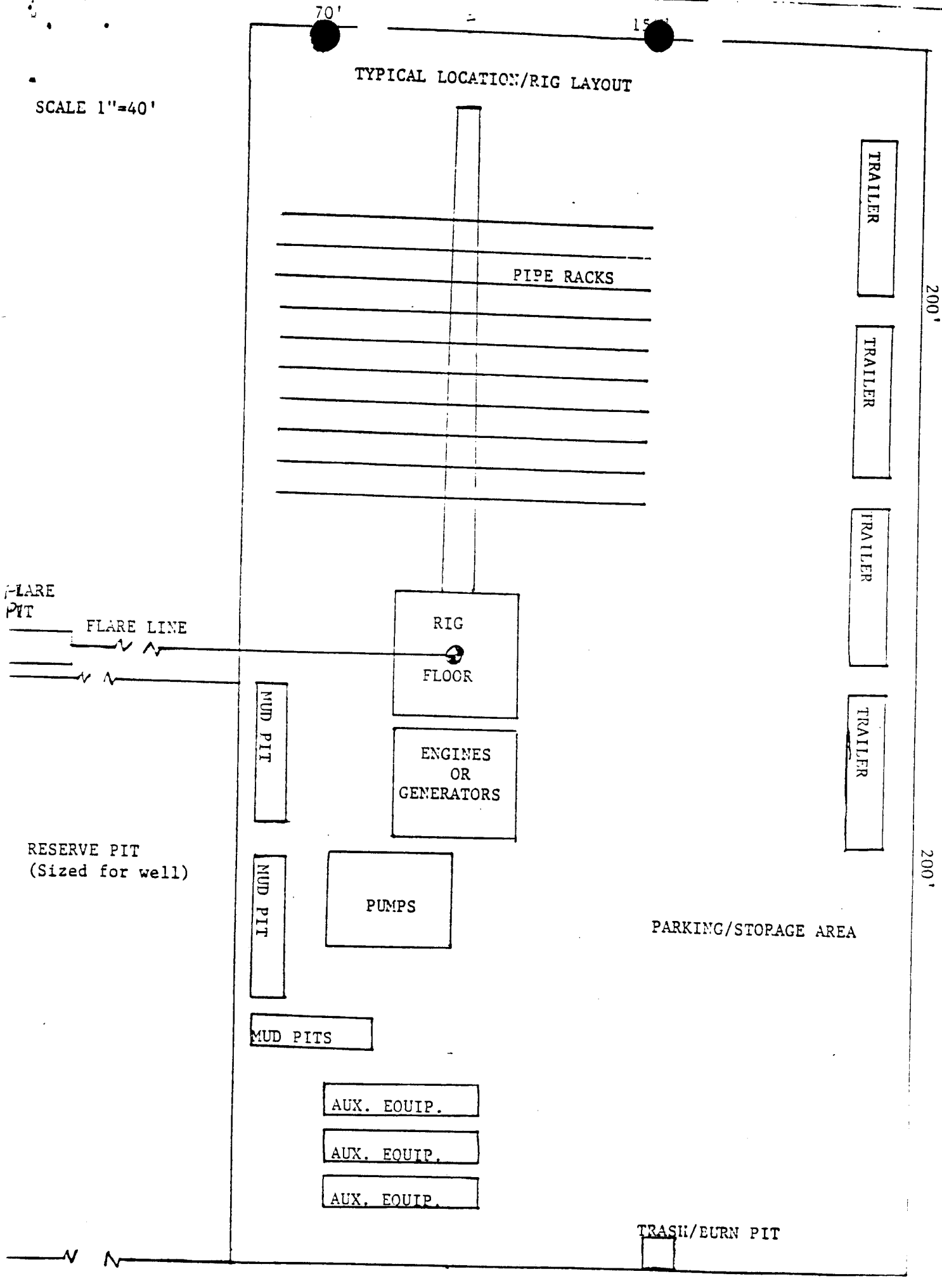
The lessee agrees promptly to notify the supervisor of any change in the designated operator.

AMERICAN QUASAR PETROLEUM CO. OF NEW MEXICO

J. Hagerman
(Signature of lessee)
J. Hagerman, Attorney-in-Fact
1700 Broadway, Suite 707
Denver, CO 80290
(Address)

February 7, 1985
(Date)

U. S. GOVERNMENT PRINTING OFFICE 16—53528-3


70'
TYPICAL LOCATION/RIG LAYOUT
SCALE 1"=40'
TRAILER
PIPE RACKS
TRAILER
200'
TRAILER
FLARE PIT
FLARE LINE
RIG FLOOR
TRAILER
MUD PIT
ENGINES OR GENERATORS
RESERVE PIT (Sized for well)
MUD PIT
PUMPS
PARKING/STORAGE AREA
200'
MUD PITS
AUX. EQUIP.
AUX. EQUIP.
AUX. EQUIP.
TRASH/BURN PIT

Thirteen Point Surface Use Plan

1. Existing Roads:

a. Location of proposed wellsite in relation to a town or other reference point (i.e. highway or county road) which handles the majority of the through traffic to the general area:

See Attached Exhibit "A"

b. Proposed route to the location from the reference point to the proposed access road to be constructed. A map of a scale no smaller than 1:24000 (7½ quad) is required unless otherwise authorized below. Lease or unit boundaries and existing rights-of-way granted to the applicant should be included:

See Attached Exhibit "A"

c. Location and description of existing roads in the area:

The access route from Hwy 150 will follow an existing Forest Service local road for approximately one (1) mile. This road is not adequate for the anticipated traffic loadings.

See Attached Exhibit "A" for Location

d. Plans for improvement and/or maintenance of existing roads:

The existing roads will be upgraded to handle the anticipated traffic loadings on a year-round basis. This upgrading will be done in conformance with the Region 4 Guidelines for Permanent type roads and in conformance with plans to be developed by Amoco Production Company and approved by the United States Forest Service and Bureau of Land Management. The road surface and drainage will be maintained on a regular basis to prevent damage to the road prism. Snow removal will be required.

Items (2) (3) (4) (5) (6) and (8) may be shown on a map or plat

2. Access roads to be constructed or reconstructed:

a. Width - As approved by the U.S.F.S. and BLM on plans to be developed by Amoco Production Company and reviewed and approved by the U.S.F.S and BLM. Due to the nature and duration of the operations, the steep topography, and the anticipated harsh weather conditions, Amoco intends to request a 20' wide traveled way for safety reasons.

b. Maximum grades: 8%

c. Major cuts and fills: Major cuts and fills will be shown on plans to be developed by Amoco Production Company and reviewed and approved by the U.S.F.S. and BLM.

d. Turnouts: Turnouts will be shown on plans to be developed by Amoco Production Company and approved by the U.S.F.S. and BLM.

e. Location: See attached exhibit "A" for general location. The specific road centerline will be as approved by the U.S.F.S. and BLM and will be staked prior to beginning road construction.

f. Drainage Design: Crowned and ditched design.

g. Location and size of culverts and/or bridges: The location, size and design of all culverts and/or bridges will be as shown on plans to be developed by Amoco Production Company and approved by the U.S.F.S. and BLM.

h. Surfacing materials and Source: The road will be gravel surfaced in conformance with designs developed by Amoco Production Comapny and approved by the U.S.F.S. and BLM. The gravel will be obtained from a private source or a properly permitted Federal source.

i. Other: All traffic will be confined to authorized areas and routes. A U.S.F.S. Road Use Application is being filed concurrent with this A.P.D.

3. Location of Existing Wells within a one-mile radius (water, injection or disposal, producing and drilling):

None

4. Location of Existing and/or Proposed Facilities if Well is Productive:

There are no existing facilities within a one-mile radius of the proposed well. The extent and nature of future facilities are impossible to determine at this time. A production and facilities plan will be submitted for approval when the extent and nature of production is established.

5. Location and Type of Water Supply:

All water needed for drilling purposes will be:

a. Obtained from: An on-site water well if possible. An alternative surface water source will be permitted for drilling water supply.

b. Transported by: If use of the alternative source is required, it will be hauled in trucks.

c. Water haul roads crossing Federal Lands: No additional roads crossing Federal lands will be required for hauling water.

6. Construction Material:

a. Source (if Federally owned): The subgrade will be constructed of native soils obtained within the road prism.

b. Type of materials needed and intended use: The gravel surfacing will be obtained from a private source or a properly permitted Federal source.

7. Methods of Handling Waste Disposal:

Describe methods and location of proposed containment and disposal of waste material, including:

a. Cuttings: Contained in the reserve pit then buried during reclamation.

b. Garbage: Contained in a trash cage then hauled to the Evanston Land fill.

c. Drilling Fluids: Drilling fluids will be contained in the reserve pit. Should the amount of fluid exceed the pit capacity, an additional, properly permitted, pit shall be constructed and the water transfered to it. Any such pit will comply with all applicable State and Federal standards and regulations. If the reserve pit fluids will meet the State discharge standards for water quality, the fluid will be discharged onto the land surface in an acceptable manner. No discharge will occur without first obtaining a discharge permit from the State of Utah and discharge approval from the United States Forest Service and the Bureau of Land Management. If an acceptable formation is identified for subsurface disposal of the drilling fluids, the appropriate permits will be obtained and the fluids disposed of down-hole. Should the reserve pit be in danger of overflowing or leakage is found, all additions of fluid will cease until the problem is corrected.

d. Salts and Chemicals: No salts or chemicals will be used except for those used in the drilling fluids. Salts or chemicals incorporated into the drilling fluids will be disposed of as discussed above for drilling fluid disposal.

e. Sewage will be disposed of in a properly designed and permitted septic tank-leach field facility. If the soil type or groundwater level precludes the use of a septic tank-leach field system, the sewage will be contained in approved holding tanks and hauled to an approved dump or treatment facility.

f. Produced Fluids (oil, Water): Contained in the reserve pit then removed or disposed of as the situation dictates for the initial testing period.
Produced water will be confined to a lined pit for a period not to exceed 90 days after initial production. During the 90 day period an application for approval of a permanent disposal method and location, along with required water analysis, will be submitted for the AO's approval. Failure to file an application within the time allowed will be grounds for issuing a shut-in order.

8. Ancillary Facilities:

A worker camp, not to exceed 25 persons, will be required adjacent to the drill site. See attached Exhibit"B" for location in relation to the drill site. No other Ancillary facilities are anticipated.

9. Well Site Layout:

1. For details of the well site layout see attached Exhibit "B" and the typical location/rig layout.

2. The reserve pit shall be lined with a reinforced poly liner suitable for the length and type of intended use.

10. Plans for Reclamation of the Surface:

a. Immediately upon completion of drilling and completion the location and surrounding area will be cleared of all debris, materials, trash and junk not required for production. The location will also be bladed and all pits filled except the reserve pit.

b. Any portions of the access road which are to be abandoned will be reclaimed in the following manner:

1. The culverts and any other drainage structures will be removed

2. Cut and fill slopes will be rounded and reduced

3. Cross drain ditches will be constructed at appropriate intervals

4. The surface will be scarified to a minimum 12" depth

5. All available topsoil will be distributed across the disturbed area

c. The top 12" of topsoil will be removed and stockpiled from the entire area to be disturbed when constructing the drilling site, camp site, and reserve pit.

d. If the well is non-productive and is abandoned, the pad will be graded and all holes and pits filled except the reserve pit. The reserve pit will be fenced and flagged until dry. At this time the entire location and reserve pit will be recontoured and shaped to blend with the surrounding terrian. The stockpiled topsoil will be evenly spread across the disturbed area. The entire area will then be contour scarified and contour water bars will be constructed.

e. If the well is productive, the pad will be graded and all holes and pits filled except the reserve pit. The reserve pit will be fenced and flagged until dry. At this time the reserve pit will be filled and it and all other areas not needed for production will be recontoured to reduce slopes and blend with the surrounding terrian. The stockpiled topsoil will be evenly spread over these areas and they will be contour scarified and contour water bars will be installed.

f. All disturbed areas not retained for production and/or roadways will be reseeded with a seed mix approved by the U.S.F.S. and BLM.
All areas will be drilled using a drill equipped with a depth regulator to insure proper planting depth. If slope steepness precludes drilling, the seed quantities will be doubled and either broadcast and raked in or applied with a hydroseeder in a two step process using a mimimum of 2,000 lbs of cellulose mulch/ acre and 120 lbs of non-asphaltic tackifier per acre.

g. The timetable for commencement and completion of rehabilitation operations is: As soon as feasible after drilling and completion is finished.

11. Surface Ownership:

The surface is owned by the United States Government and administered by the U.S.F.S.

12. Other Information:

a. The dirt contractor will be provided with an approved copy of the surface use plan.

b. Any cultural resource (historic or prehistoric site or object) discovered by the operator, or any person working on his behalf, shall be immediately reported to the BLM/U.S.F.S. authorized officer. The operator shall suspend all operations in the area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the BLM/U.S.F.S. to determine appropriate actions to prevent the loss of significant cultural values. The operator will be responsible for the cost of evaluations and for mitigation. Mitigation may include relocation or excavation, and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the operator.

c. The following Special Cultural Resource Stipulations will apply:

Amoco will contract a private archeologist approved by the U.S.F.S. to conduct an intensive pedestrian survey of the project site as soon as the preliminary road alignment is approved by the BLM/ U.S.F.S. Further cultural resource work will be based on the results of this survey.

13. Lessee's or Operators Representative and Certification

Representative

Name: Vann E. Prater

Address: 1013 Cheyenne Drive P. O. Box 829
Evanston, Wyoming 82930

Phone No. (307) 789-1700

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 currently 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

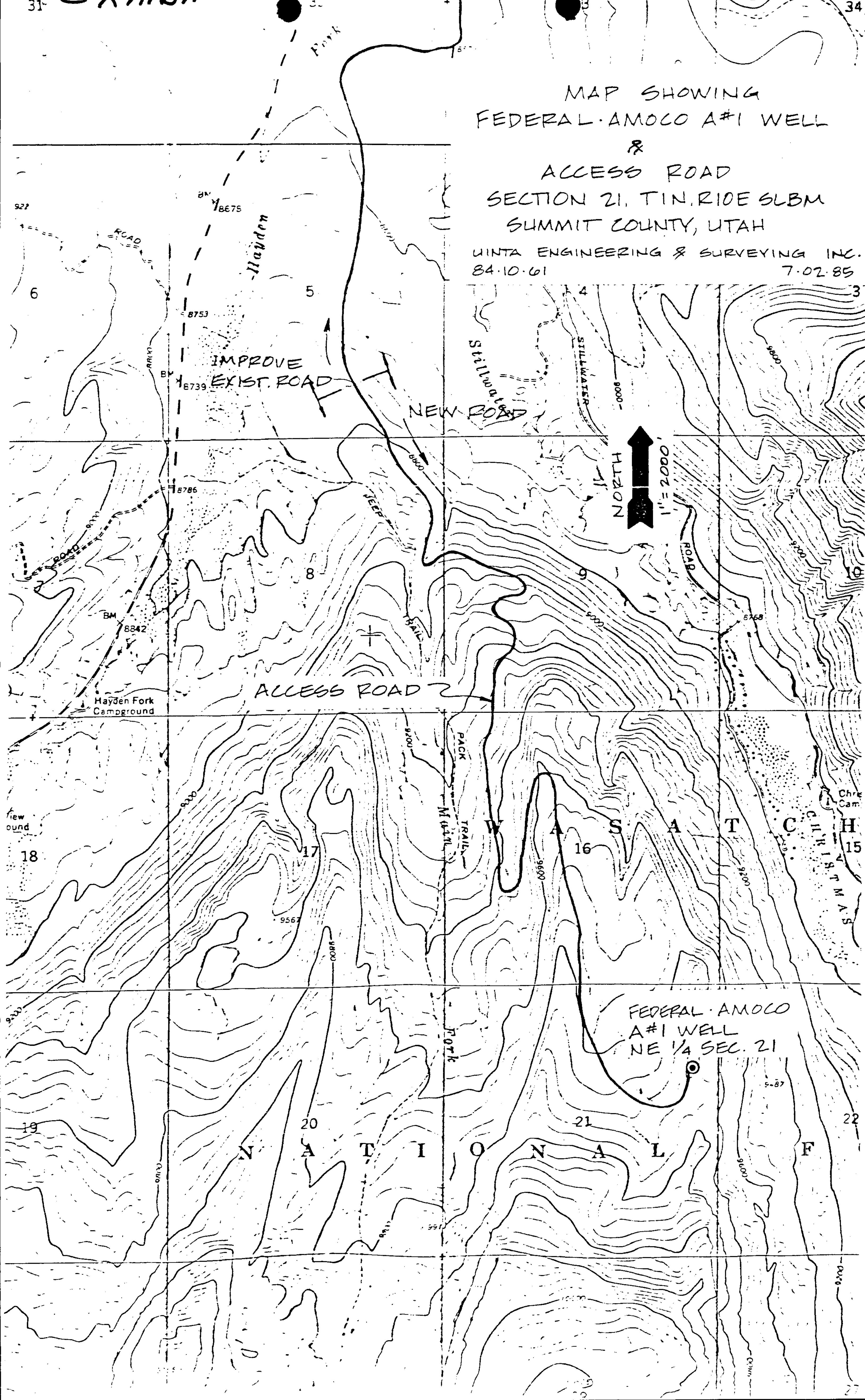
AMOCO PRODUCTION COMPANY

and its contractors and subcontractors in conformity with this 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.

July 3, 1985
Date

Vann E. Prater District Engineer
Name and Title

Exhibit "A"



MAP SHOWING
FEDERAL-AMOCO A#1 WELL
&
ACCESS ROAD
SECTION 21, T1N, R10E SLBM
SUMMIT COUNTY, UTAH
UINTA ENGINEERING & SURVEYING INC.
84-10-61
7-02-85
IMPROVE EXIST. ROAD
NEW ROAD
ACCESS ROAD
NORTH
1" = 2000'
FEDERAL-AMOCO
A#1 WELL
NE 1/4 SEC. 21
Hayden
Hayden Fork Campground
Stillwater
JEEP
TRAIL
PACK
ROAD
W A S A T C H
N A T I O N A L
F

I. PURPOSE:

The purpose of this plan is to safeguard the lives of the public, contract personnel, and company personnel in the event of equipment failures or disaster during the drilling of formations which may contain Hydrogen Sulfide Gas (H_2S).

AMOCO PRODUCTION COMPANY has specified materials and practices for the drilling of this well to protect the safety of all concerned. However, as a precautionary measure this contingency and evacuation plan has been prepared to further assist the safety of all concerned.

II. DESCRIPTION OF HYDROGEN SULFIDE GAS:

H_2S is a colorless gas which smells similar to rotten eggs in low concentrations. In large concentrations however, the sense of smell may be paralyzed rapidly. H_2S is an extremely toxic gas that must be treated with extreme care to prevent injury to people. H_2S is heavier than air (specific gravity = 1.19) and on still days tends to accumulate in low places. This accumulation could build up and lead to dangerous concentrations. However, if the H_2S gas is warmer than air, it will tend to rise until cooled off and could affect workers above the escaping source.

The toxicity of H_2S is as follows:

Period of Exposure:

Prolonged exposure - no adverse effects	10 PPM
Over 1 hour could be hazardous	150 PPM
Possibly fatal in less than 1/2 hour	300 PPM
Fatal in a few minutes	700 PPM

III. TREATMENT OF HYDROGEN SULFIDE POISONING:

A. Remove the patient to fresh air, call physician or ambulance if possible.

B. If breathing is labored or has ceased, give artificial resuscitation immediately. Continue until physician is available, even if person appears to be not breathing. Should disaster conditions make it impossible to move to fresh air, keep on your mask and use resuscitator on patient.

C. After breathing commences, continue victim on oxygen until arrival at hospital. O_2 helps eliminate H_2S from the blood stream.

D. Prevent shock.

E. Get patient to a physician as soon as possible.

CONTINGENCY PLAN

AMOCO PRODUCTION COMPANY
P. O. Box 829
Evanston, Wyoming 82930

ACTION PLAN FOR ACCIDENTAL RELEASE OF H_2S

(This plan is subject to updating)
January, 1985

IV. EQUIPMENT REQUIREMENTS:

A. General:

All equipment to be exposed to H_2S shall be built to NACE Standard MR-01-75, or Amoco specifications if Amoco specifications are more stringent.

B. Blowout Preventer Requirements:

All BOP body and parts (excluding rams) shall be constructed of a carbon steel or low alloy steel with an HRC 22 maximum hardness. Rams shall be built out of low alloy steels (i.e. AISI 4130 or like). The BOP will have the necessary certification stating it is acceptable for an H_2S environment. Copies of this will be provided on location by the contractor toolpusher.

On initial installation the blowout preventer stack will be tested to the full working pressure rating or working pressure rating of the last casing spool, whichever is less. It will be tested routinely thereafter, not to exceed 30 days. The stack will also be tested any time a seal has been broken, a leak experienced, or a known H_2S bearing formation is to be drilled.

C. Drill String Requirements:

All drill string components shall be to API specifications for tubular goods in controlled environments. Typically, grade E drill pipe will be used. Grade G or X drill pipe may also be used when needed. All components will be inspected to IADC critical service specifications prior to running in the well. Corrosion will be monitored by coupons.

D. Choke Lines and Kill Manifold:

Choke lines and kill manifold shall be constructed of ASTM 106 grade B or A-53 grade B.

E. Casing and Wellhead Equipment:

Casing shall be constructed to API requirements for sour gas wells. The casing to be run will be SS-95, J-55, L-80, or S-105.

The 13 3/8 casing will be set at approximately 7600 feet in the Precambrian formation, and cemented back to surface with Class G or H cement. The amount of cement will be determined by hole size after drilling.

After running and cementing the 13 3/8" casing, the BOPs will be nippled up and pressure tested to the full working pressure rating or the working pressure rating of the last casing spool, whichever is less. Prior to drilling out, the casing string will be pressure tested to 1000 psi, or to an equivalent pressure of 0.2 psi/ft of depth, or to 80% of casing burst strength, whichever is greatest.

Wellhead equipment will be constructed to Amoco specifications. From the tubing head up all valves shall have stainless steel balls and seats with monel stems, which complies to a NACE 1 trim. Valve bodies to be made from carbon or low allow steel with HRC 22 maximum. All welds will be x-rayed and stress relieved.

V. SAFETY AND MONITORING EQUIPMENT:

A. Gas Monitoring Equipment:

1. A continuous H_2S monitoring system with four or more H_2S detection heads will be in operation. These monitors will be located at: 1) rig floor, 2) bell nipple, 3) shale shaker, 4) pump room. These units will be monitored in the mud loggers trailer and/or the dog house. Each unit will be set to trigger a blinking light on the rig floor should the amount of H_2S reach 10 PPM, and to trigger an alarm siren @ 20 PPM.

   Any time it is necessary to deactivate the alarm (If H_2S is continuously present) a trained operator or H_2S Supervisor will monitor the detection system.

2. Hand sampling gas detectors will be used to check areas not covered by automatic monitoring equipment.

3. A mud duck will be installed in the mud logger's trailer with a probe at the flowline, which will monitor the concentration of any entrained H_2S in the drilling fluid.

B. Safety Equipment

1. The following safety equipment will be available:

   Escape packs:

   1 - 5 minute work escape pack in the derrick
   6 - 5 minute work escape packs on the rig floor
   2 - 5 minute work escape packs at various points along mud tanks
   1 - 30 minute pack in each trailer (2 in mud logger's trailer)
   1 - 30 minute pack at bottom of steps
   1 - 30 minute pack in mud shed
   1 - 30 minute pack in tool shed
   2 - 30 minute packs in dog house

   Total: 10 - 30 minute packs
   12 - 5 minute packs

Cascade System:

10 - 300 cu. ft. cylinder air cascade
2 - 5 outlet manifold on floor (1 each side)
2 - 5 outlet manifolds on mud tanks
12 - line masks (same as 5-minute packs)
1500' low pressure air line hose with quick connects
2 - briefing areas (minimum)

Other Equipment:

4 - wind socks
36 unit - first aid kits
1 - oxygen resuscitator with spare cylinder
2 - flare guns with shells
1 - stretcher
1 - combustable gas monitor
2 - safety belts with safety lines

When the 13 3/8" surface casing is run and cemented, ventilation fans will be placed on the rig floor and under the rig floor.

NOTE: Respirators shall comply with OSHA standards, part 1910.134, Respiratory Protection.

This equipment is available for persons normally on location. This includes the five man crew, toolpusher, Amoco drilling supervisor and mud loggers. Maximum number of people to be on location during normal drilling operations should range from ten to twelve.

2. Two areas on location will be designated as BRIEFING AREAS. The one that is upwind from the wellbore will be designated as the "SAFE BRIEFING AREA". The "SAFE BRIEFING AREA" will be recognized by the positioning of the SAFETY trailer in this area.

3. The H_2S "SAFETY" trailer provided by a safety contractor will contain the equipment listed in V-B. 1 (above) and will have a wind sock or streamer to indicate wind direction.

4. A second wind sock or streamer will be located at the end of catwalk and visible from the rig floor.

5. A condition warning sign will be displayed on location and at entrance of location regarding current operating condition.

6. The emergency procedure (attached) will be kept on rig floor, contract toolpusher's trailer, Amoco's trailer and in safety trailer.

7. Two barricades will be available to block entrance to location should an emergency occur.

8. An external communication system should be installed in Amoco's trailer, mud logger's unit and on rig floor.

9. An internal communications system should be installed between company trailer house, contract toolpusher's quarters, mud logger's unit, rig floor, shale shaker, mud mixer area and choke manifold.

10. An undulating high and low pitch siren will be installed.

VI. CREW TRAINING AND PROTECTION:

A. Blowout Prevention Drills:

Pit drill and trip drill training will be held with each crew until proficient in closing the well in. Drills will be held on a regular basis thereafter, with at least one drill per crew with the Drilling Supervisor or contract toolpusher triggering the alarm. Reaction time will be checked from the time the alarm goes off until the well is simulated closed in. Closing time should be under two minutes. A copy of AMOCO PRODUCTION COMPANY'S Oil and Gas Blowout Drill Procedure will be posted on the rig floor.

B. H_2S Training and Drills:

All personnel on site will be trained in H_2S safety when the 13 3/8 surface casing is run and cemented. In addition, periodic drills will be held for all personnel. All personnel on site will be certified in H_2S safety and will maintain a valid certification. An H_2S safety company will be rigged up at least 1,000' before any H_2S bearing zones are encountered and will be on site 24 hours per day until completion or plugging of the well.

Training will include: the correct use of the fresh air breathing equipment, wind socks, safety ropes, harnesses, and oxygen resuscitator with instruction on artificial resuscitation and on the emergency procedure.

H_2S drills will be held periodically. The Amoco representative along with the toolpusher, shall plan and activate drills. They will activate the H_2S alarm without warning and participate in the drill. The crew will proceed to put on a mask and secure well as per posted drilling procedure.

C. Circulating Through Choke

A non-emergency situation can exist where it may be necessary to circulate wellbore fluids containing H_2S gas through the choke manifold system. These situations could be gas cutting of the

mud, a gas bubble from bottoms up after tripping or a fluid influx from the mud hydrostatic being underbalanced to the formation pressure. In these cases the well is still under control and while the bubble is circulated out and/or the appropriate mud weight for the system is obtained, it may be necessary to flare H_2S gas through the choke manifold. Steps for ignition of this flare and insuring it stays lit will include the following.

1. The Amoco representative will designate a person, usually a member of the drill crew, to be responsible for maintaining a pilot light in the flare pit.

2. The pilot light for the flare ignition will generally be a burning 5 gallon bucket of diesel. If unusual or safety considerations warrant its use, an automatic ignitor system may be employed.

3. A minimum of two (2) flare guns will be on location. One each for Amoco drilling foreman, and H_2S safety hand. It will be the responsibility of the Amoco representative or tool pusher on location to insure the ignition of the flare is handled in a safe and prudent manner.

VII. MUD ADDITIVES:

A water-base mud system will be used. At approximately 500 feet above the expected hydrogen sulfide formation (Phosphoria) the system will be treated with Zinc Chelate. For normal drilling operations a concentration of 1-2 ppb will be maintained in the system. The mud will be maintained at a pH of 10.5 or above from this point to total depth.

VII. LOCATION OF RESIDENTS:

(See Attached Exhibit)

IX. WELL TESTING PROCEDURES:

All equipment including drill string and tubing string members and tools, surface test units, and miscellaneous related testing equipment shall conform to NACE Standard MR-01-75, or Amoco specifications if Amoco specifications are more stringent.

X. EMERGENCY EVACUATION PLAN:

(See Attachment)

X. EMERGENCY EVACUATION PLAN

NOTE: This attachment shall be posted on the bulletin board contained in the dog house, with extra copies contained in the contract toolpushers trailer, Amoco trailer and in the safety trailer.

Designation of Responsibility:

In order to assure the proper execution of this plan, it is essential that one person be responsible for, and in complete charge of, implementing these procedures. Therefore, responsibility shall be designated in the following order, depending on who is on location:

1. Amoco Production Company's Representative (Drilling Foreman)

2. Contract Toolpusher

Definition of Warning Signs:

Condition: Green - Normal Operations

Condition: Yellow - Potential Danger - Caution

Cause for Condition:

1. Circulating
2. Trip gas after trips
3. Circulating gas out on choke
4. Poison gas present, but below threshold levels

Condition: Red - EXTREME DANGER

Cause for Condition:

1. Uncontrolled Well
2. Poison gas present above threshold levels

Emergency Procedures:

Condition Yellow:

1. Check safety equipment and keep it with you
2. Be alert for a change in condition warning sign
3. Follow instructions

Condition Red:

Upon release of potentially hazardous volume of hydrogen sulfide gas, this program shall be initiated immediately:

1. Set off alarm. Evacuate all persons off location to "safe briefing area" that is upwind. Check that all persons are present. If not, proceed with evacuation from hazardous area in the following manner:

a. Two persons, re-enter hazardous area with air packs and each attached to an assistant via safety line. The assistant shall also be wearing respiratory equipment but outside of the hazard area.

b. Locate and evacuate all other persons in hazardous area to safety briefing area.

c. Proceed with emergency first aid to all injured. Call for ambulance and alert hosiptal that victum is being transported, giving estimated time of arrival.

MEDICAL PERSONNEL

MEMORIAL HOSPITAL----------(307) 789-3636

Hospital Administrator, Norman Campeau

Dr. Owen Grossman----------(307) 789-8200 (Office)
Dr. Roy Harris----------(307) 789-1524 (Office)

AMBULANCE----------(307) 911

LIFE FLIGHT----------(801) 321-1234

EVANSTON AVIATION----------(307) 789-2256

2. Locate, define problems and proceed with emergency shut-in procedures per Amoco Production Company Blowout Drill Procedure.

3. Stay in "safe briefing area" unless instructed to do otherwise. Continuously monitor air quality in briefing area.

4. Only enter hazardous area with adequate air supply and attended by someone with a safety rope.

5. Call Company personnel in the following order, until one is contacted. Inform him of the problem and what actions have been taken. It is then his responsibility to contact his supervisor.

NAME	OFFICE	RESIDENCE
W. G. Shaffer	307-789-1700	307-789-9750
P. E. Norwood	307-789-1700	307-789-5402
C. A. Griffith	307-789-1700	307-789-7126
J. G. Bechtel	307-789-1700	307-789-6198
D. R. Adams	307-789-1700	307-789-3653
V. E. Prater	307-789-1700	307-789-6309
T. G. Doss	307-789-1700	307-789-0401
G. D. Henry	307-789-1700	307-789-5128

6. Notify the appropriate agencies and law officers that an emergency situation exists and help is needed.

LAW ENFORCEMENT AGENCIES

SHERIFF DEPARTMENT ----------911
307-789-2331

SHERIFF, Uinta County
Leonard Hysell----------307-782-3885
Summit County
Fred Eley----------801-336-4461

HIGHWAY PATROL ----------307-789-3119
307-777-7244
801-336-2591

UTAH OIL & GAS BOARD

Utah Division of Oil, Gas & Mining
Salt Lake City, Utah ----------801-538-5340

BUREAU OF LAND MANAGEMENT

BLM (Oil & Gas Operations)
Salt Lake City, Utah ----------801-524-5348
Branch of Fluid Minerals (BLM) 801-524-3028

FIRE DEPARTMENT

Fire Department----------911

Fire Chief, Evanston----------307-789-3870
Jon Lunsford

UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY

Environmental Air Quality Division
Coalville, Utah
Steve Jenkins ----------801-336-2503

7. The State Police shall contact residents in the one (1) mile danger zone, and start evacuation with those in the down wind direction of the rig.

8. In the event that a blowout should occur, the decision regarding ignition of the escaping gas will be made by the Amoco representative on location after consultation, if possible, with the appropriate supervisor or management personnel listed previously. However, if the seriousness of the situation does not allow time for consultation, the Amoco representative on location has the authority to make the decision to ignite as a last resort where it is clear that human life and property are in jeopardy and/or the chance of controlling the well under the prevailing conditions are very remote.

9. Meet with appropriate agencies and law officers as soon as practical to brief them on the situation and coordinate evacuation efforts.

Attached you will find a diagram of the one mile radius area from the well.

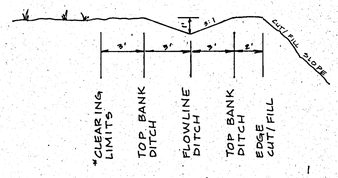
Also a list of all the names, addresses and telephone numbers of those persons owning property within this area.

CHRISTMAS MEADOWS SUMMER HOME ASSOCIATION — — — APRIL 2, 1984

1 ✓ MRS MARIAN MERRILL	3721 TERRACE RIDGE RD	277-7833	SLC	84109
2 ✓ VERA, LORETTA WEBSTER	1488 E. 17TH SO	467-6858	SLC	84105
3 ✓ [illegible], CAROLE LAWRENCE	702 E. 15TH SO.	278-8308	BNTL	84017
4 ✓ MILTON, VELMA GOFF	1465 W. 3800 NO.	782-3745	OGDN	84404
RAY, JEAN JOELLE	4801 NO 900 WST	782-3658	OGDN	84404
5 ✓ [illegible], CAROLYN NIELSON	2186 BLAIR ST	486-3556	SLC	84115
6 ✓ RAY MCCOLL	3448 SO 6325 WST	250-5046	MAGNA	84044
7 ✓ EVANS, MILDRED GREENLEAF	8898 ALTA CANYON DR	942-8904	SANDY	84070
8 — MRS THOMAS PATTERSON	513 WEST CAPITOL	355-4578	SLC	84103
9 — DONALD, MADGE GRIFFIN	3011 CIRCLE WAY	393-3927	OGDN	84403
10 ✓ JAY, MARILYN DALEY	1383 NO MAIN	295-6956	ONERVL	84071
11 ✓ EDWARD, JOANN POLI	RTD 4, BOX 524	479-4970	OGDN	84403
12 ✓ LON, GLENDA OLSEN	371 E. 1600 SO.	262-0343	BNTL	84010
13 ✓ O'GRADY, COLLEEN CLYDE	8387 ETIENNE WAY	942-6962	SANDY	84070
14 ✓ MAY, LAVERNE PENNEDY	2761 E. 300 NO.	544-9753	LAYTON	84040
15 ✓ LAY, MARILYN FREEMAN	4863 BEN LOMOND	479-6347	OGDN	84403
16 - JOSEPH HEALY	954 SO. 11TH EST	363-4616	SLC	84105
17 ✓ DARLEN CHRISTOFFERSON	1543 NO 1622 EST		LGN	84321
18 ✓ JACK POFFENBACH	5535 SO MAPSFWOOD LN NO7	263-1446	SLC	84107
19 ✓ MACE, LOIS JONES	4851 BEN LOMOND DR.	479-7330	OGDN	84403
20 - JOHN, ELAINE IPSON	449 COUNTRY CLUB	882-5183	STREET PR84770	
21 ✓ LICK, CHERRYL KLEIN	1282 E. CROS AVE	262-7628	SLC	84117
22 - GARY, LAVONA OLSEN	5847 SEARSON CIRCLE	969-1748	SLC	84124
23 ✓ WALTER MULLINS	6356 SO 660 EST	266-6333	SLC	84107
24 - S. E. BAMONI (TIM)	PAUL EBERLICH-GASSI 12/2	A-1190	VIENNA, AUSTRIA	
25 ✓ WILLIAM, LAJUAN WEST	4838 ADAMS	479-7515	OGDN	84403
26 ✓ EDWARD, BETH ARBOGAST	1540 SO 4TH EST	295-8869	BNTL	84713
27 ✓ GEORGE, ESTER MCGILL	3539 IOWA AVE	394-6368	OGDN	84403
28 - GEORGE, MILLIE DIBEL	47 GLENWOOD AVE BOX 639	265-8226	TOOL	84074
29 - JOSEPH, LUBILEN FLORENCE	4887 HILANA DR.	479-7832	OGDN	84403
30 ✓ RUSSELL, CAROL SHEPHERD	4863 SUNSET LANE	479-7235	OGDN	84403
31 ✓ EARL, VIRGINIA TALBOT	5926 LUPINE WAY	266-4136	SLC	84121
32 ✓ LEE, VERA MCKNIGHT	4108 STOCONGA DR	BELTSVILLE, MARYLAND		20705
33 ✓ SCOTT, LUANA MOBETH	3956 JESTER DR	972-8426	SLC	84107
34 ✓ CALVIN, DORITY TAYLOR	2594 E 3935 SO	278-3134	SLC	84117
35 - EARLE, OLIVE JOONES	2531 BLANE AVE	582-1752	SLC	84108
36 ✓ DALE JACOBSON	230 W 2650 SO	266-2596	SLC	84115
37 ✓ BILL, VICLA STORAS	4884 ADAMS AVE	514J7094	OGDN	84403
38 ✓ PAUL, SANDRA SMITH	448 NO 350 EST	544-3782	RSVL	84737
39 - ROBERT C. CUMMINGS	387 M STREET	363-3747	SLC	84103
40 ✓ JON, SALLY LINDGREN	3627 MILL CIRCLE	272-4839	SLC	84109

Exhibit "B"

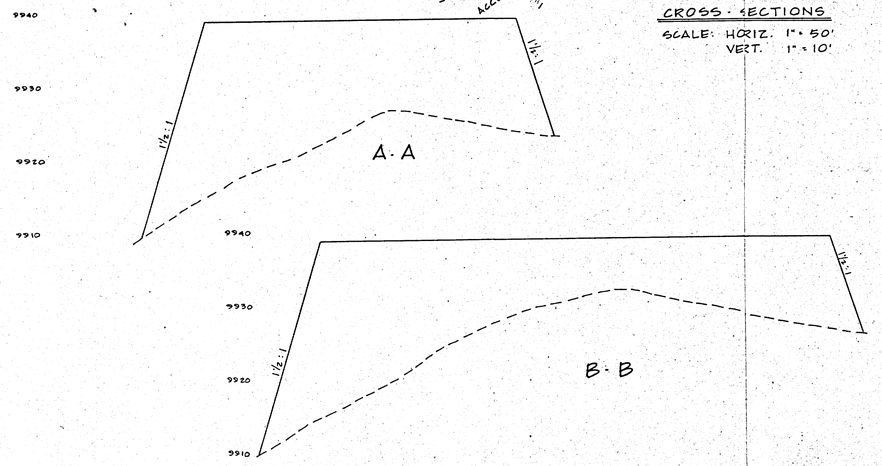
DRAINAGE DITCH SECTION



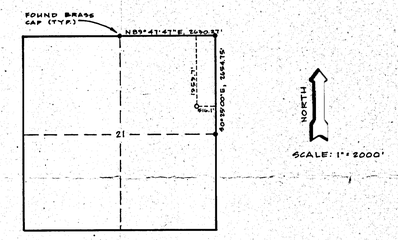
* CLEARING LIMITS AS SHOWN HERE EXCEPT @ FLARE AREAS.

CROSS-SECTIONS

SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



FEDERAL AMOCO A#1 WELL
SE¼ NE¼ SECTION 21
T1N, R10E, of the S.L.B.M.
SUMMIT COUNTY, UTAH



T1N, R10E,
S.L.B.&M.

ELEVATION OF FINISHED PAD: 9939'

DATUM: USGS QUADRANGLE "CHRISTMAS MEADOWS" SPOT ELEVATION SW¼ SEC. 10, T1N, R10E, ELEVATION: 8768'

AUTHORIZED BY: REID SMITH

SURVEYED UNDER MY SUPERVISION JUNE 18, 19, 24, 26 & 27, 1985.

John A. Proffit 7/3/85
JOHN A. PROFFIT, UTAH R.L.S. #2860

JOHN A. PROFFIT Registered 2860 Land Surveyor STATE OF UTAH

QUANTITIES

MATERIAL IN CUT:	40,413 C.Y.
MATERIAL IN FILL:	38,067 C.Y.
TOPSOIL: (½' DEEP)	4,026 C.Y.
SPOIL:	2,346 C.Y.
PIT CAPACITY:	67,732 BARRELS

NOTE: SPOIL MATERIAL TO BE USED IN ACCESS ROAD RAMP.

EXHIBIT B

MAP to ACCOMPANY
APPLICATION for
PERMIT to DRILL
for
AMOCO PRODUCTION COMPANY
P.O. BOX 829
EVANSTON, WYOMING 82930

Uinta Engineering & Surveying Inc.
808 Main Street Evanston, Wy. 82930

84-10-61 7-2-85

OPERATOR Amoco Production Co. DATE 7-11-85

WELL NAME Fed. Amoco "A" #1

SEC SE NE 21 T. 1N R. 10E COUNTY Summit

43-043-30275
API NUMBER

Fed.
TYPE OF LEASE

CHECK OFF:

- [✓] PLAT
- [✓] BOND
- [✓] NEAREST WELL
- [✓] LEASE
- [ ] FIELD
- [✓] POTASH OR OIL SHALE

PROCESSING COMMENTS:
Unit Well
Need water permit

APPROVAL LETTER:

SPACING: [✓] A-3 Stillwater Fork UNIT [ ] c-3-a _____ CAUSE NO. & DATE

[ ] c-3-b [ ] c-3-c

STIPULATIONS:
1- Water

11/2/84
25020

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

July 15, 1985

Amoco Production Company
P. O. Box 829
Evanston, Wyoming 82930

Gentlemen:

Re: Well No. Federal Amoco "A" 1 - SE NE Sec. 21, T. 1N, R. 10E
1960' FNL, 516' FEL - Summit County, Utah

Approval to drill the above-referenced oil well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.

2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.

3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.

4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-043-30275.

Sincerely,

R. J. Firth
Associate Director, Oil & Gas

as
Enclosures
cc: Branch of Fluid Minerals

expire 5-9-87

FILING FOR WATER IN THE STATE OF UTAH

191513

Rec. by QA
Fee Paid $ _____
Platted _____
Microfilmed _____
Roll # _____

APPLICATION TO APPROPRIATE WATER

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah. 43-043-30075

WATER USER CLAIM NO. 21 - 1549 APPLICATION NO. T61592

1. PRIORITY OF RIGHT: , FILING DATE: March 5, 1986

2. OWNER INFORMATION
Name: AMOCO Production Company
Address: P.O. Box 829, Evanston, WY 82930
The land is not owned by the applicant(s), see explanatory.

3. QUANTITY OF WATER: 10.0 acre feet (Ac. Ft.)

4. SOURCE: Bear River DRAINAGE: Bear River-Summit County
which is tributary to Willard Bay
which is tributary to Great Salt Lake
POINT(S) OF DIVERSION: COUNTY: Summit
(1) S. 975 feet, E. 355 feet, from the NW Corner of Section 9,
Township 1 N, Range 10 E, SLB&M
Description of Diverting Works: pumped from stream & trucked
COMMON DESCRIPTION:

5. NATURE AND PERIOD OF USE
Oil Exploration From May 1 to May 1.

6. PURPOSE AND EXTENT OF USE
Oil Exploratio: Operation and drilling of an oil/gas well.

7. PLACE OF USE
The water is used in all or parts of each of the following legal subdivisions.

			North East Quarter				North West Quarter				South West Quarter				South East Quarter			
TOWN	RANGE	SEC	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼
1 N	10 E	21				X												

All locations in Salt Lake Base and Meridian

EXPLANATORY

Form 97 2M 10-70

RECEIVED
FEB 19 1985
WATER RIGHTS

RECEIVED
MAR 18 1985
DIVISION OF OIL GAS & MINING

WATER RIGHTS
RECEIVED
FEB 26 1985
LOGAN

TEMPORARY

Application No. 60681 (PA)

21-1535

100204

43-043-30075

APPLICATION TO APPROPRIATE WATER
STATE OF UTAH

NOTE: The information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanatory."

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the laws of Utah.

1. Irrigation ☐ Domestic ☐ Stockwatering ☐ Municipal ☐ Power ☐ Mining ☐ Other Uses ☒

2. The name of the applicant is AMOCO PRODUCTION COMPANY

3. The Post Office address of the applicant is P. O. BOX 829, EVANSTON, WYOMING 82930

4. The quantity of water to be appropriated .05 second-feet and/or 8 acre-feet

5. The water is to be used for Oil/Gas Well Operations (Major Purpose) from 3 (Month) 1 (Day) to 3 (Month) 1 (Day)

other use period (Minor Purpose) from (Month) (Day) to (Month) (Day)

and stored each year (if stored) from (Month) (Day) to (Month) (Day)

6. The drainage area to which the direct source of supply belongs is (Leave Blank)

7. The direct source of supply is* Groundwater (Name of stream or other source)

which is tributary to Bearriver Drainage, tributary to Stillwater Fork

*Note.—Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

8. The point of diversion from the source is in Summit County, situated at a point* North 1098 feet and West 2121 feet from the SE Cor. Sec. 15, T1N, R10E, SLB&M (NAD 27 2/25/85)

*Note.—The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object. No application will be received for filing in which the point of diversion is not defined definitely.

9. The diverting and carrying works will consist of 6" water well approximately 800' deep with submersible pump.

10. If water is to be stored, give capacity of reservoir in acre-feet ____ height of dam ____ area inundated in acres ____ legal subdivision of area inundated ____

11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows:

Total ____ Acres

12. Is the land owned by the applicant? Yes ____ No x If "No," explain on page 2.

13. Is this water to be used supplementally with other water rights? Yes ____ No X
If "yes," identify other water rights on page 2.

14. If application is for power purposes, describe type of plant, size and rated capacity. ____

15. If application is for mining, the water will be used in ____ Mining District at the ____ mine, where the following ores are mined ____

16. If application is for stockwatering purposes, number and kind of stock watered ____

17. If application is for domestic purposes, number of persons ____, or families ____

18. If application is for municipal purposes, name of municipality ____

19. If application is for other uses, include general description of proposed uses ____

20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. Location of Use: Section 15, T1N, R10E, Summit County, Utah SW¼SE¼ for the drilling of Federal Amoco "A" #1 (2/25/85 DHB)

21. The use of water as set forth in this application will consume .05/8 acre feet second-feet and/or acre-feet of water and 0 second feet and/ or acre feet will be returned to the natural stream or source at a point described as follows: ____

EXPLANATORY

The following additional [illegible]s are set forth in order to define more clearly the full purpose of the proposed application:

(Use page 4 if additional explanatory is needed.)

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described

J. E. Kennedy
Signature of Applicant*

*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH,
County of..... } ss

On the .....day of ....., 19....., personally appeared before me, a notary public for the State of Utah, the above applicant who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires:

(SEAL)

Notary Public

FEES FOR APPLICATIONS TO APPROPRIATE WATER IN UTAH

Flow rate — c.f.s.	Cost	
0.0 to 0.1	$ 15.00	
over 0.1 to 0.5	30.00	
over 0.5 to 1.0	45.00	
over 1.0 to 15.0	45.00	plus $7.50 for each cfs above the first cubic foot per second.
over 15.0	150.00	

Storage — acre-feet		
0 to 20	22.50	
over 20 to 500	45.00	
over 500 to 7500	45.00	plus $7.50 for each 500 a.f. above the first 500 acre feet.
over 7500	150.00	

(This section is not to be filled in by applicant)

STATE ENGINEER'S ENDORSEMENTS

1. 2/19/85 Application received (by mail / over counter) in State Engineer's office by CO
2. 2/25/85 Priority of Application brought down to, on account of point of diversion
   canceling
3. 2-25-85 Application fee, $15.00, received by J.J Rec. No. 17514
4. ..... Application microfilmed by ..... Roll No. .....
5. ..... Indexed by ..... Platted by .....
6. ..... Application examined by .....
7. ..... Application returned, ... or corrected by office .....
8. ..... Corrected Application resubmitted (by mail / over counter) to State Engineer's office.
9. ..... Application approved for advertisement by .....
10. ..... Notice to water users prepared by .....
11. ..... Publication began; was completed .....
    Notice published in .....
12. ..... Proof slips checked by .....
13. ..... Application protested by .....
14. ..... Publisher paid by M.E.V. No. .....
15. ..... Hearing held by .....
16. ..... Field examination by .....
17. 3/8/85 Application designated for (approval / rejection)
18. ..... Application copied or photostated by ..... proofread by .....
19. 3/15/85 Application (approved / rejected)
20. **Conditions:**

    This Application is approved, subject to prior rights, as follows:

    a. Actual construction work shall be diligently prosecuted to completion.

    b. Proof of Appropriation shall be submitted to the State Engineer's office by Expire 3/1/86

    c. .....

    .....

    .....

    ..... State Engineer

21. ..... Time for making Proof of Appropriation extended to .....
22. ..... Proof of Appropriation submitted.
23. ..... Certificate of Appropriation, No. ....., issued

Application No. 60681

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

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 [X] GAS WELL [ ] OTHER

5. LEASE DESIGNATION AND SERIAL NO.: U-54044

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Stillwater Fork

2. NAME OF OPERATOR: AMOCO PRODUCTION COMPANY

8. FARM OR LEASE NAME: Federal Amoco "A"

3. ADDRESS OF OPERATOR: P. O. BOX 829, EVANSTON, WYOMING 82930

9. WELL NO.: #1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: SENE Sec. 21, 516' FEL & 1960' FNL

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 21, T1N, R10E

14. PERMIT NO.: 43-043-30275

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 9939' Graded Ground

12. COUNTY OR PARISH: Summit

13. STATE: UT

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]				
(Other)				(Other)			

(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.)*

Current Sundry is submitted to notify the BLM of the Cancellation of said well due to present economics.

RECEIVED
JUN 23 1986
DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED [signature] TITLE Sr Drilling Eng Supervisor DATE 6-19-86

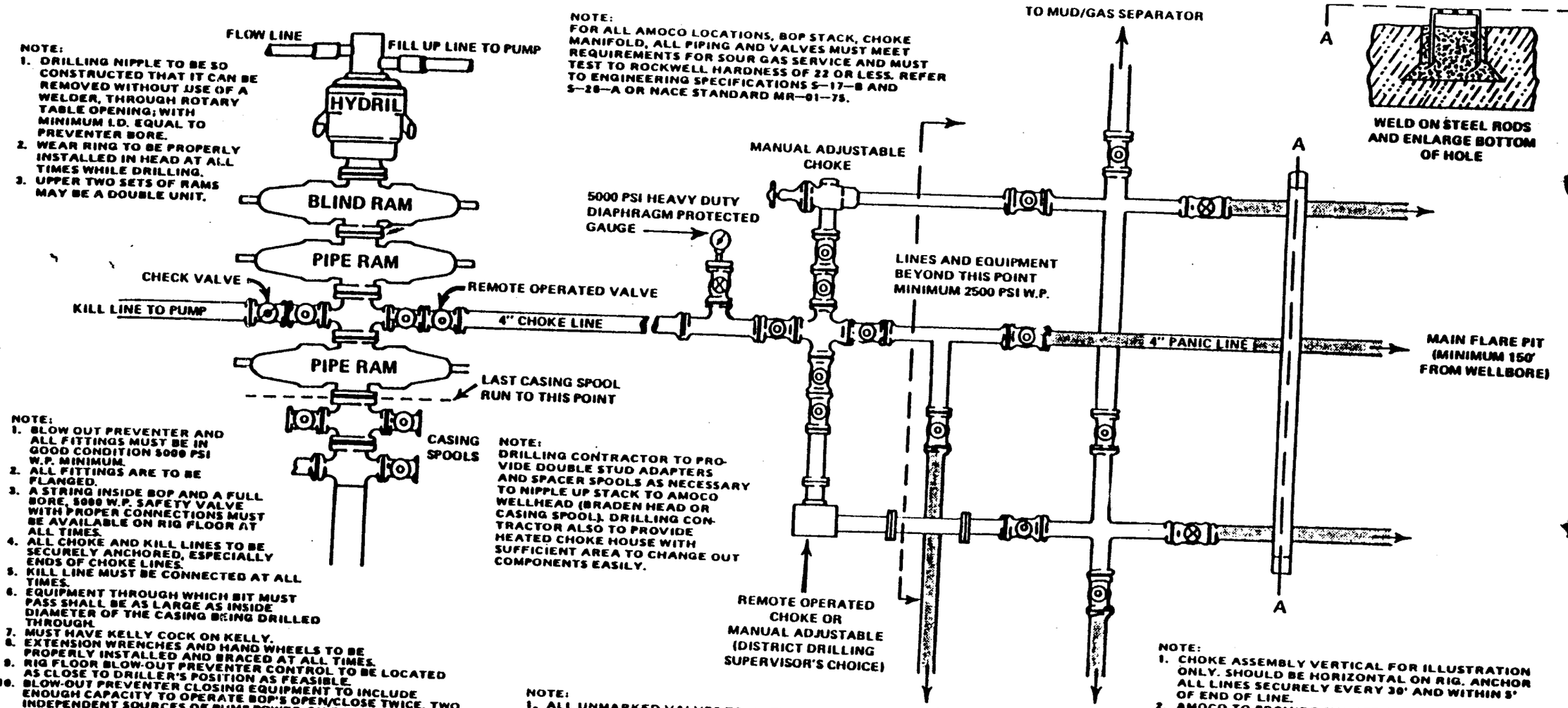
(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

MINIMUM BLOW-OUT PREVENTER REQUIREMENTS
5,000 psi W.P.



NOTE:
1. DRILLING NIPPLE 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 AT ALL TIMES WHILE DRILLING.
3. UPPER TWO SETS OF RAMS MAY BE A DOUBLE UNIT.

NOTE:
FOR ALL AMOCO LOCATIONS, BOP STACK, CHOKE MANIFOLD, ALL PIPING AND VALVES MUST MEET REQUIREMENTS FOR SOUR GAS SERVICE AND MUST TEST TO ROCKWELL HARDNESS OF 22 OR LESS. REFER TO ENGINEERING SPECIFICATIONS S-17-B AND S-28-A OR NACE STANDARD MR-01-75.

NOTE:
1. BLOW OUT PREVENTER AND ALL FITTINGS MUST BE IN GOOD CONDITION 5000 PSI W.P. MINIMUM.
2. ALL FITTINGS ARE TO BE FLANGED.
3. A STRING INSIDE BOP AND A FULL BORE, 5000 W.P. SAFETY VALVE WITH PROPER CONNECTIONS MUST BE AVAILABLE ON RIG FLOOR AT ALL TIMES.
4. ALL CHOKE AND KILL LINES TO BE SECURELY ANCHORED, ESPECIALLY ENDS OF CHOKE LINES.
5. KILL LINE MUST BE CONNECTED AT ALL TIMES.
6. EQUIPMENT THROUGH WHICH BIT MUST PASS SHALL BE AS LARGE AS INSIDE DIAMETER OF THE CASING BEING DRILLED THROUGH.
7. MUST HAVE KELLY COCK ON KELLY.
8. EXTENSION WRENCHES AND HAND WHEELS TO BE PROPERLY INSTALLED AND BRACED AT ALL TIMES.
9. RIG FLOOR BLOW-OUT PREVENTER CONTROL TO BE LOCATED AS CLOSE TO DRILLER'S POSITION AS FEASIBLE.
10. BLOW-OUT PREVENTER CLOSING EQUIPMENT TO INCLUDE ENOUGH CAPACITY TO OPERATE BOP'S OPEN/CLOSE TWICE, TWO INDEPENDENT SOURCES OF PUMP POWER ON EACH CLOSING UNIT INSTALLATION.
11. EXTEND KILL LINE 150' FROM WELLBORE FOR AUXILIARY HOOKUP CAPABILITY.
12. NO COLLECTOR BOTTLES, SURGE TANKS OR BUFFER CHAMBERS DOWNSTREAM OF THE CHOKE MANIFOLD.
13. THE CHOKE LINE FROM THE STACK TO THE MANIFOLD MUST BE STRAIGHT.
14. IF A FLEXIBLE HOSE IS TO BE USED AS A CHOKE LINE, IT MUST BE APPROVED BY AMOCO PRIOR TO RIGGING UP.

NOTE:
DRILLING CONTRACTOR TO PROVIDE DOUBLE STUD ADAPTERS AND SPACER SPOOLS AS NECESSARY TO NIPPLE UP STACK TO AMOCO WELLHEAD (BRADEN HEAD OR CASING SPOOL). DRILLING CONTRACTOR ALSO TO PROVIDE HEATED CHOKE HOUSE WITH SUFFICIENT AREA TO CHANGE OUT COMPONENTS EASILY.

NOTE:
1. ALL UNMARKED VALVES TO BE FULL-OPENING GATE OR PLUG VALVES, METAL TO METAL SEAL, 5000 PSI W.P.
2. ALL UNMARKED PIPE MINIMUM 3". REFER TO ENGINEERING SPECIFICATIONS S-17-B AND S-28-A AND NACE STANDARD MR-01-75 FOR APPROVED GRADES.
3. ALL WELDS MUST BE HEAT TREATED ACCORDING TO ENGINEERING SPECIFICATION S-28-A OR NACE STANDARD MR-01-75.

NOTE:
1. CHOKE ASSEMBLY VERTICAL FOR ILLUSTRATION ONLY. SHOULD BE HORIZONTAL ON RIG. ANCHOR ALL LINES SECURELY EVERY 30' AND WITHIN 5' OF END OF LINE.
2. AMOCO TO PROVIDE SHADED PORTIONS OF FLARE LINES. DRILLING CONTRACTOR TO BE RESPONSIBLE FOR PROVIDING REMAINING LINES AND VALVES.

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

091111

July 1, 1986

Amoco Production Company
P.O. Box 829
Evanston, Wyoming 82930

Gentlemen:

RE: Well No. Federal Amoco "A" #1, Sec.21, T.1N, R.10E, Summit County, Utah, API NO. 43-043-30275

Per your request, approval to drill the subject well is hereby rescinded. A new Application for Permit to Drill must be filed with this office for approval, prior to future drilling of 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,

John R. Baza
Petroleum Engineer

sb
cc: BLM - Salt Lake
D. R. Nielson
R. J. Firth
Well file
02781-86