

OIL AND GAS CONSERVATION COMMISSION

REMARKS	WELL NO.	FIELD	DATE	WATER TESTS	LOCATION INSPECTED	SUB REPORT NO.
				X		
DATE FILED	1-02-90					
LAND FEE & PATENTED	STATE LEASE NO.	ML-43736	FEDERAL LEASE NO.		INDIAN	
DRILLING APPROVED	1-31-90 (EXCEPTION LOCATION);					
SPOOLED IN						
COMPLETED						
NET PRODUCTION						
GRAVITY API						
GOR						
FORMER NO. LINES						
TOTAL DEPTH						
WELL EL. VATHS						
DATE ABANDONED	2-7-94 See Office 1					
FIELD	WILDCAT					
UNIT						
COUNTY	SAN JUAN					
WELL NO.	STATE #24-2		API NO.	43-037-31480		
LOCATION	400' FSL	1980' FWL	FT FROM (E) W LINE	SESW	1/4 - 1/4 SEC	2

TWP	RGE	SEC	OPERATOR
34S	15E	2	AMPOLEX (TEXAS) INC.



AMPOL EXPLORATION (U.S.A.) INC.

SEVENTEENTH STREET PLAZA, SUITE 3000
1225 17TH STREET
DENVER, CO 80202 U.S.A.

Phone (303) 297-1000

Telex (303) 297-2050

Subsidiaries

Ampolex (California), Inc
Ampolex (Orient), Inc
Ampolex (Texas), Inc
Ampolex (Wyoming), Inc

29 December 1989

Utah Board of Oil, Gas and Mining
3 Triad Center Suite 350
355 West Temple
Salt Lake City, Utah 84180-1203

RE: Application for Permit to Drill
White Canyon Area, San Juan County, Utah

Dear Sir.

Attached please find four (4) Applications for Permit to Drill, Form OGC-1A, plus one copy each. Currently, Ampolex is in the process of obtaining the appropriate right-of-way and road-use permits from the San Juan County Road Department, Utah State Department of Transportation, and Glen Canyon National Recreation Area. Except for the State 24-2 well, all proposed drilling locations are accessed across or through State lands leased by Ampolex. The State 24-2 requires a right-of-way from the BLM, application for right-of-way has been submitted. Ampolex is also currently in the process of obtaining a permit from the State Division of Water Rights for the use of water from the Colorado River for drilling operations. Each APD consists of the following:

- Form OGC-1A Application for Permit to Drill
- Exhibit A- Location & Elevation Plat
- Exhibit A-1 Plan View with Reference Stakes
- Exhibit B Ten-Point Compliance Program
- Exhibit C Blow-Out Prevention Equipment Diagram
- Exhibit D Multi-Point Requirements for APD
- Exhibit E. Plat showing locations, roads, access, etc
- Exhibit E-1 Area map showing locations, roads, access, etc.
- Exhibit F. Cultural Resources Survey Report & location plat
- Exhibit G Cut-and-Fill Cross-Section
- Exhibit H Drill Rig Layout
- Exhibit I-1 Evidence of Bond Coverage (Federal)
- Exhibit I-2 Evidence of Bond Coverage (Utah)

Exhibit E is a 1"=2000' map of the area showing all four (4) proposed drilling locations, proposed access roads, existing roads, etc; Exhibit E-1 is an area map showing locations relative to Utah State Highway 95 and San Juan County Road 208-A.

RECEIVED
JAN 01 1989

DIVISION OF
OIL, GAS & MINING
RECEIVED
JAN 02 1989

DIVISION OF
OIL, GAS & MINING

RECEIVED
JAN 02 1989

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

(Other restrictions on reverse side)

5. Lease Designation and Serial No.

ML-43736

6. If Inland, Allottee or Trille Name

N/A

7. Drift Agreement Name

N/A

8. Farm or Lease Name

State

9. Well No

24-2

10. Field and Pool, or Wildcat

Wildcat (007)

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

Section 2-T34S-R15E

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL DEEPEN PLUG BACK

1b. Type of Well

Oil Well Gas Well Other Single Zone Multiple Zone

2. Name of Operator

Amplolex (Texas), Inc.

3. Address of Operator

1225 17th Street, Suite #3000, Denver, CO 80202

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

SE SW Sec. 2-T34S-R15E 400' FSL & 1,980' FWL

At proposed prod zone SAME

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

43.9 miles west of Blanding, Utah

12. County or Parrish

San Juan

13. State

Utah

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

400

16. No. of acres in lease

1,920

17. No. of acres assigned to this well

40

18. Distance from proposed location* to nearest well, drilling, completed or applied for, on this lease, ft

N/A

19. Proposed depth

2,600' Akah

20. Rotary or cable tools

Rotary

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

5,250' GR (Est.)

22. Approx. date work will start*

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#	60'	100 sks Class "B"
12-1/4"	8-5/8"	24#	260'	200 sks Class "G"
6-1/4"	4-1/2"	10.5#	2,600'	165 sks Light (Lead) 150 sks Class "G" (Tail)

1. Drill 17-1/2" hole and set 13-3/8" conductor @ 60', cement with good returns.
2. Drill 12" hole & set 8-5/8" surface casing @ 260', cement with good returns.
3. Log B.O.P. checks in daily drilling reports & drill 6-1/2" hole to 2,600'.
4. Conduct D.S.T. if warranted & run 4-1/2" casing if productive, cement w/good returns.
5. Run logs as needed, and perforate and stimulate as needed.

MINERAL REVIEW

Engr. JRS
Geol. JRS
Surface JRS

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.

Signed John A. Burch Title Petroleum Engineer Date 12/29/89

(This space for Federal or State office use)
Permit No 43-037-31480

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

Approved by
Conditions of approval if any

Title

1-31-90
John R. Bury
WELL SPACING RL15-3-3

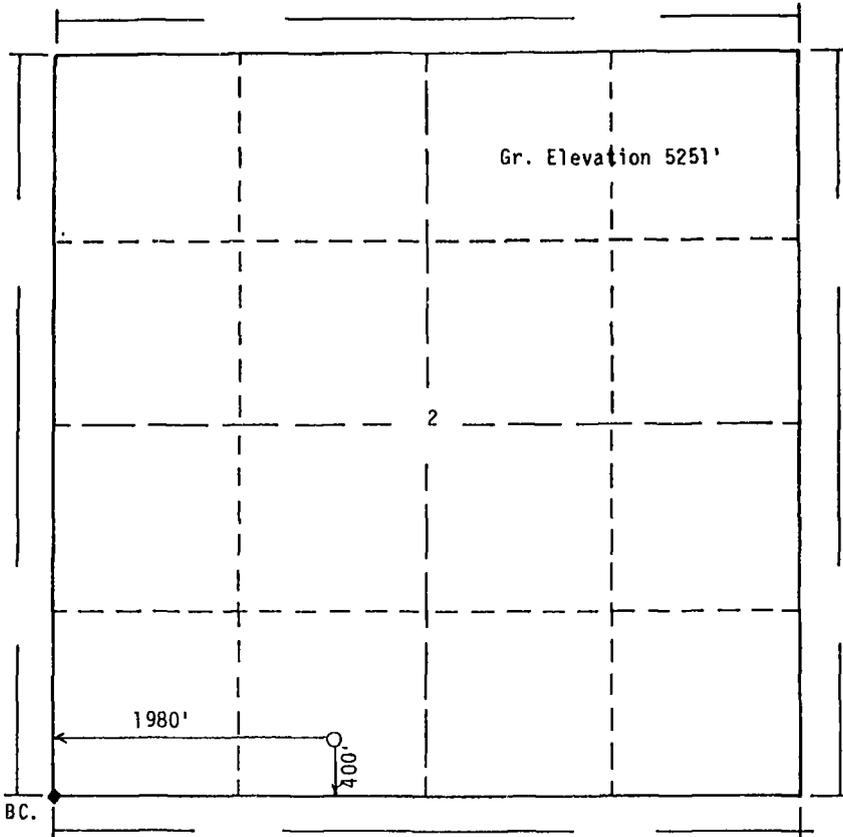
*See Instructions On Reverse Side

EXHIBIT A



Form PS-102

R. 15 E



T. 34 S

Scale: 1"=1000'

Powers Elevation, Inc. of Denver, Colorado has in accordance with a request from John Brooks for Ampol Exploration (U.S.A.) Inc. determined the location of State 24-2 to be 400fsl, 1980fwl Section 2, Township 34 S Range 15 E of the Salt Lake Principal Meridian, San Juan County, Utah



Date:

10-25-89

I hereby certify that this plat is an accurate representation of a correct survey showing the location of State 24-2

State 24-2

Roy A. Rush
 Licensed Land Surveyor No. 8894
 State of New Mexico

**Application for Permit to Drill
White Canyon Area, San Juan County, Utah
Page 2**

The Blow-Out Prevention Equipment diagrammed in Exhibit C is a 3000# working pressure BOP stack. While anticipated formation pressures to be encountered will probably be on the order that a 2000# BOP stack could handle, availability favors the 3000# equipment. In accordance with 43 CFR 3160 Part V, A. Well Control Requirements, ".higher rated equipment may be used to meet and maintain these standards without being held to the higher standards normally applied to such equipment...The use of equipment of a higher pressure rating than that approved does not subject the operator to the specifications for the higher pressure rated equipment". Ampolex therefore requests approval for the 2000# BOP equipment, but if not available, approval of 3000# BOP equipment to be utilized and tested in accordance with the specifications of a 2000# system.

If there are any questions regarding these applications, please do not hesitate to call me in Denver at (303)-297-1000

Respectfully Submitted,

For and on behalf of
AMPOLEX (TEXAS), LLC



John A. Brooks
Petroleum Engineer
AMPOL EXPLORATION (U.S.A.), INC

FEDERAL EXPRESSUSE THIS AIRBILL FOR DOMESTIC SHIPMENTS WITHIN THE CONTINENTAL U.S.A., ALASKA AND HAWAII
USE THE INTERNATIONAL AIR WAYBILL FOR SHIPMENTS TO PUERTO RICO
QUESTIONS? CALL 800 238 5355 TOLL FREEAIRBILL
PACKAGE
TRACKING NUMBER

5321552320

5321552320

RECIPIENT'S COPY

Date 12/29/89		Your Phone Number (Very Important) (201) 777-1300		To (Recipient's Name) Please Print Utah Board of Oil, Gas & Mining		Recipient's Phone Number (Very Important) (801) 538-5503	
From (Your Name) Please Print John A. Brooks		Department/Floor No		Company Utah Board of Oil, Gas & Mining		City/Department/Floor No	
Company AMCOL EXPLORATION		Street Address 2225 17TH ST STE 1000		Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes) Suite 350, 3 Triad Center, 355 West North Temple		City Salt Lake City, Utah	
City DENVER		State CO		State Utah		ZIP Required 84180-1203	

YOUR BILLING REFERENCE INFORMATION (First 24 characters will appear on invoice)

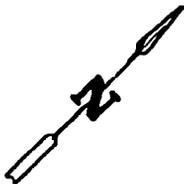
IF HOLD FOR PICK-UP, Print FEDEX Address Here

PAYMENT: <input checked="" type="checkbox"/> Bill Sender <input type="checkbox"/> Bill Recipient's FedEx Acct No <input type="checkbox"/> Bill 3rd Party FedEx Acct No <input type="checkbox"/> Bill Credit Card				Street Address	
<input type="checkbox"/> Cash				City	
				State	
				ZIP Required	

SERVICES (Check only one box)		DELIVERY AND SPECIAL HANDLING		PACKAGES		WEIGHT		DECLARED VALUE		Emp No		Date		Federal Express Use	
Priority Overnight Service (Delivery by next business morning)		1 <input type="checkbox"/> HOLD FOR PICK-UP (if no box)		Total		Total		Total		Emp No		Date		Base Charges	
Standard Overnight Service (Delivery by next business afternoon)		2 <input checked="" type="checkbox"/> DELIVER WEEKDAY		Total		Total		Total		Emp No		Date		Declared Value Charge	
11 <input type="checkbox"/> YOUR PACKAGING 51 <input type="checkbox"/>		3 DELIVER SATURDAY (if no charge)		1		-		-		Street Address		City		Other 1	
16 <input type="checkbox"/> FEDEX LETTER 56 <input type="checkbox"/>		4 <input type="checkbox"/> DANGEROUS GOODS (if no charge)		Total		Total		Total		City		State		Other 2	
13 <input checked="" type="checkbox"/> FEDEX PAK 52 <input type="checkbox"/>		5 <input type="checkbox"/> CONSTANT SURVEILLANCE SVC. (CSS) (if no charge) (see also 30 and 31 for details)		Total		Total		Total		Received By		Date/Time Received		Total Charges	
13 <input type="checkbox"/> FEDEX BOX 53 <input type="checkbox"/>		6 <input type="checkbox"/> DRY ICE (if no charge)		DIM SHIPMENT (if no charge) (see also 30 and 31 for details)		Total		Total		Date/Time Received		Date/Time Received		REVISION DATE 8/89	
14 <input type="checkbox"/> FEDEX TUBE 54 <input type="checkbox"/>		7 <input type="checkbox"/> OTHER SPECIAL SERVICE		Total		Total		Total		Date/Time Received		Date/Time Received		PART 950001 ITEM 0002	
Economy Service (Monday-Saturday A.M.) (Delivery by second business day)		8 <input type="checkbox"/>		Total		Total		Total		Date/Time Received		Date/Time Received		FORMAT #014	
Heavyweight Service (for Extra Large or any package over 150 lbs)		9 <input type="checkbox"/> SATURDAY PICK-UP (if no charge)		Total		Total		Total		Date/Time Received		Date/Time Received		014	
70 <input type="checkbox"/> HEAVYWEIGHT **		10 <input type="checkbox"/>		Total		Total		Total		Date/Time Received		Date/Time Received		FEDERAL EXPRESS	
10 <input type="checkbox"/> DEFERRED HEAVYWEIGHT **		11 <input type="checkbox"/>		Total		Total		Total		Date/Time Received		Date/Time Received		PRINTED IN U.S.A.	
30 <input type="checkbox"/> ECONOMY SERVICE		12 <input type="checkbox"/> HOLIDAY DELIVERY (if no charge)		Total		Total		Total		Date/Time Received		Date/Time Received			
1 Delivery commitment may be later in some areas				Total		Total		Total		Date/Time Received		Date/Time Received			
				Total		Total		Total		Date/Time Received		Date/Time Received			

EXHIBIT A-1

Ampol Exploration (U.S.A.) Inc.
State 24-2
Section 2, T.34S, R.15E
400fs1, 1980fw1
San Juan County, Utah



PIT & PAD LAYOUT

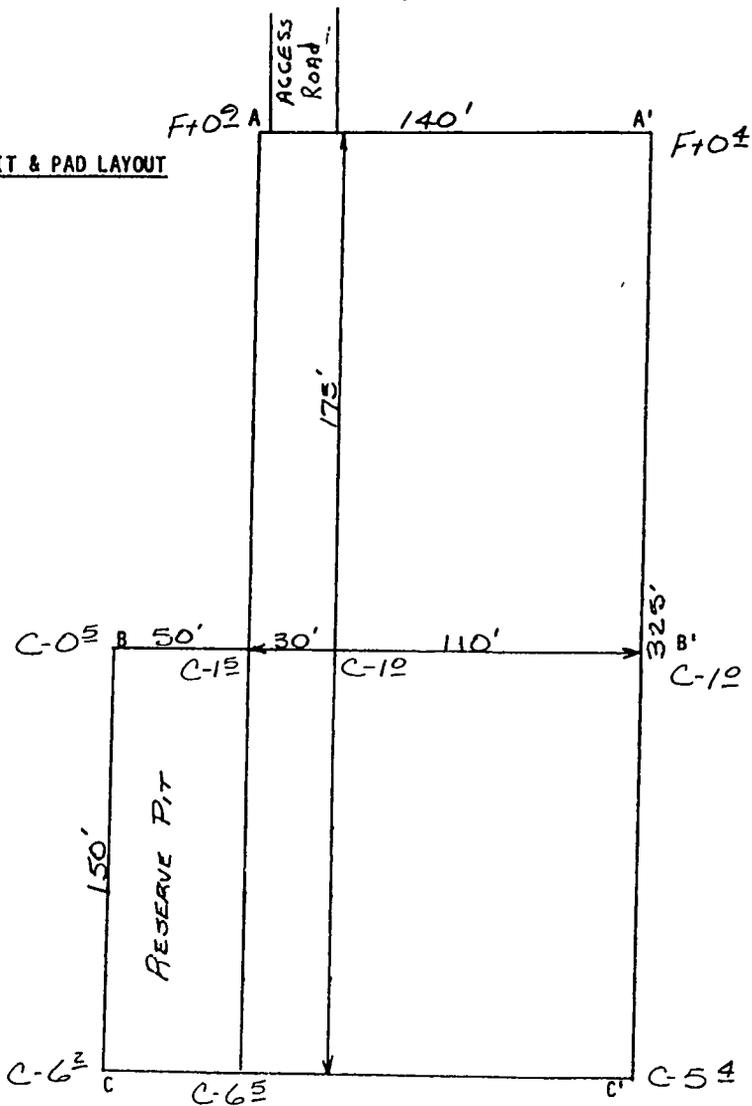


EXHIBIT B
TEN-POINT COMPLIANCE PROGRAM
OF NTL-6 APPROVAL OF OPERATIONS

Attached to Form OGC-1A
 Application for Permit to Drill
 White Canyon Area
 Ampolex (Texas). Inc.

Well: State 24-2
 Location: 400' FSL 1980' FWL - SE SW Section 2 T34S R15E
 County: San Juan
 State: Utah
 Projected Total Depth: 2,600'
 Estimated Ground Elevation: 5,251'
 Estimated KB: 5,261'

1. THE GEOLOGIC SURFACE FORMATION

The geologic surface formation is Quarternary Colluvium on Permian Cedar Mesa Sandstone.

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS

<u>TOPS</u>		<u>ESTIMATED DEPTH (KB)</u>
QUARTERNARY	Colluvium	(surface)
PERMIAN	Cedar Mesa Sandstone	20'
	Halgaito/Rico	820'
PENNSYLVANIAN	Upper Hermosa	1,420'
	Paradox (Cycles 0 & 1)	2,095'
	Ismay (Cycles 2 & 3)	2,240'
	Desert Creek (4 & 5)	2,440'
	Chimney Rock Shale	2,570'
	Akah	2,595'
TOTAL DEPTH		2,600'

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS

Upper Hermosa	1,420'
Desert Creek	2,440'

4. PROPOSED CASING PROGRAM

<u>Hole Size</u>	<u>Interval</u>	<u>Interval Length</u>	<u>Pipe O.D.</u>	<u>Weight, Grade and Coupling</u>	<u>New or Used</u>
17-1/2"	0 - 60'	60'	13-3/8"	48#	NEW
12-1/4"	0 - 260'	260'	8-5/8"	24# J-55 ST&C	NEW
6-1/4"	0 - 2600'	2600'	4-1/2"	10.5# J-55 ST&C	NEW

4. PROPOSED CASING PROGRAM (Cont.)

Cement Program:

Conductor: 100 sacks, Class "B", cement to surface.
Surface Casing: 200 sacks Class "G", cement to surface.
Prod. Casing: 165 sacks of Light followed by 150 sacks Class "G"

5. THE OPERATOR'S MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL

Exhibit C is a schematic diagram of the blowout preventer equipment. The BOP's will be hydraulically tested to half of working pressure after nipping up and after any use under pressure. Pipe rams will be operationally checked each 24-hour period, as will blind rams each time pipe is pulled out of the hole. Such checks of the BOP's will be noted on daily drilling reports.

Accessories to the BOP will include an upper kelly cock, floor safety valve, drill string BOP and choke manifold with pressure rating equivalent to the BOP stack.

6. THE TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATING MUDS

The mud system will be gel-chemical with adequate stocks of sorptive agents on site to handle any spills of fuel or oil on the surface. Additional weighting material will be on location to be added if the pressures encountered so require. Adequate stocks of lost circulation materials will also be on site. Mud weight will be increased to 9.3 - 9.5 ppg when drilling through the Desert Creek. Enough weight material will be on location to increase mud weight to 11.0 ppg if necessary.

<u>DEPTH</u>	<u>TYPE</u>	<u>WEIGHT (ppg)</u>	<u>Vis.</u>	<u>FLUID LOSS</u>
0' - 260'	Water	8.8	--	--
260' - 2,085'	Water & gel + Barite & LCM as needed.	8.8	27	--
2,085' - TD	Water, gel, soda ash, caustic soda & Barite & LCM as needed.	8.6 - 9.5	35-40	8-10

7. AUXILIARY EQUIPMENT TO BE USED

- a. An upper kelly cock will be kept in the drill string.
- b. A float will be used at the bit.
- c. Both a mud logging unit and detecting devices will monitor the mud system from 2,085' to T.D. Mud will also be monitored visually.
- d. A stabbing valve will be on the floor to be stabbed into the drill pipe when the Kelly is not in the drill string.

8. TESTING, LOGGING AND CORING PROGRAMS TO BE FOLLOWED

- a. Two drill stem tests will be conducted: one in the Ismay formation and one in the Desert Creek Formation.
- b. The logging program will consist of the following:
Dual Induction/Sonic surface casing - TD
FDC/CNL/GR/CBL Upper Hermosa - TD
- c. Two cores are planned: one in the Ismay and one in the Desert Creek.
- d. Completion program will be by acid treatment. An appropriate Sundry Notice will be submitted for approval.

9. ABNORMAL PRESSURE OR TEMPERATURES

No abnormal pressures or temperatures have been reported in wells drilled in the area at the depths anticipated in this well. Bottom hole pressure is expected to be 1,500 psi (+ or -).

No hydrogen sulfide or other hazardous fluids or gases have been found, reported or known to exist at these depths in the area.

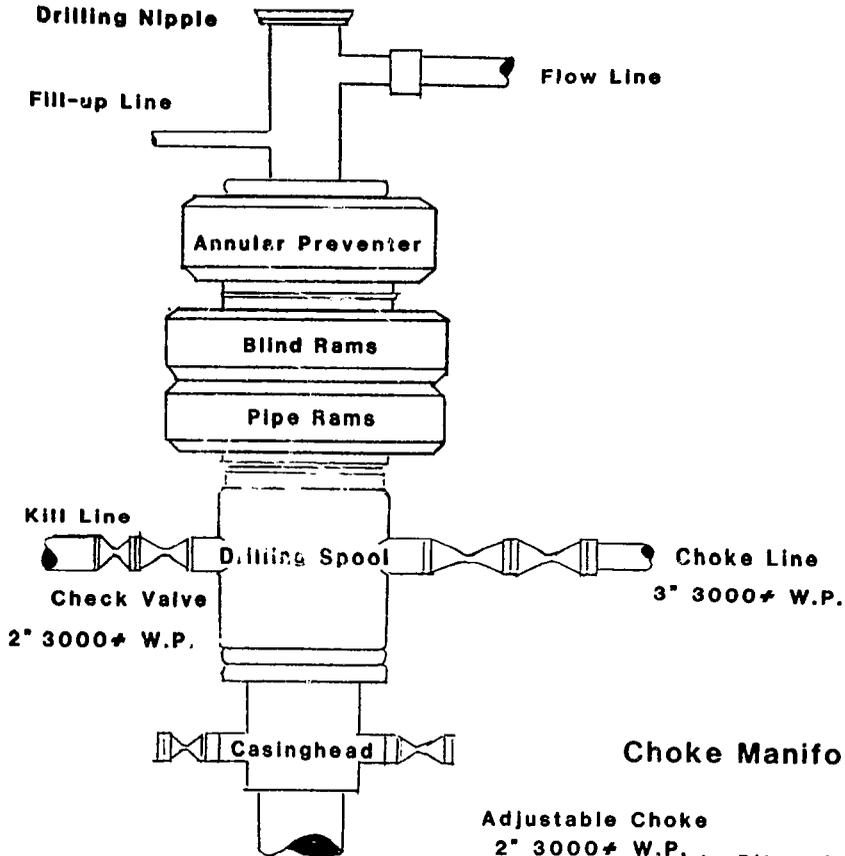
10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS

The anticipated starting date is set for early July, 1990 or as soon as possible after examination and approval of drilling requirements. Operations should be completed within thirty (30) days after spudding the well.

EXHIBIT C
Blow Out Preventer Equipment

BOP Stack

STATE 24-2



Choke Manifold

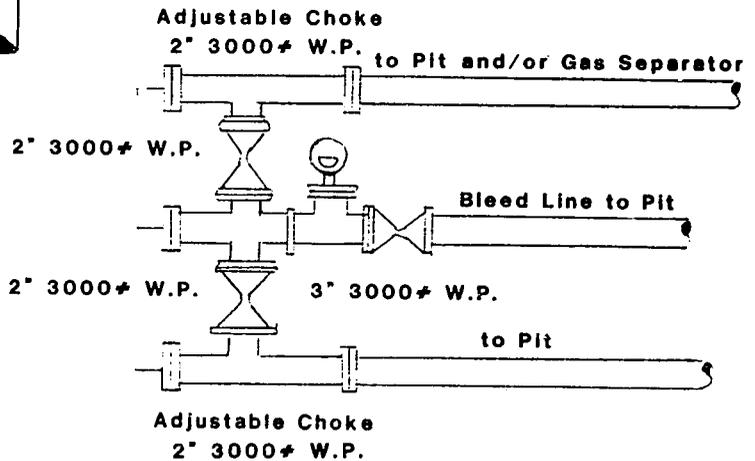


EXHIBIT D

MULTI-POINT REQUIREMENTS TO ACCOMPANY A.P.D.

Attached to Form OGC-1A
Application for Permit to Drill
White Canyon Area
Ampolex (Texas). Inc.

Well: State 24-2
Location: 400' FSL 1980' FWL - SE SW Section 2 T34S R15E
County: San Juan
State: Utah
Projected Total Depth: 2,600'
Estimated Ground Elevation: 5,251'
Estimated KB: 5,261'

1. EXISTING ROADS

- a. The proposed well site and elevation plat is shown on Exhibits A & A-1.
- b. The distance from Fry Canyon store is 29 miles. From Fry Canyon store, go northwest on Utah State Highway 95 20 miles; turn east on San Juan County Road 208-A and go approximately 8 miles. Continue traveling to the northeast after taking the fork to the left off of 208-A along an existing bladed road for approximately 1.1 miles. Turn north on dirt road approximately 1000' to location.
- c. Turning east off of Utah State Highway 95, the first 1.2 miles of county road 208-A crosses land administered by the Glen Canyon National Recreation Area, from which a right-of-way permit will be obtained as necessary. A sharp switchback in 208-A along the western edge of Section 7-T34S-R15E will be modified to allow access of drilling equipment. The road will be watered and bladed as necessary. A right-of-way and road-use permit will also be obtained from the San Juan County Road Department. The existing bladed road off of 208-A will also be bladed and watered as necessary.
- d. All roads to location are shown on Exhibits E & E-1. The only road construction required will be for the 1000' of access road as shown on Exhibits E & E-1. An encroachment permit will be obtained from the San Juan County Road Department for use of county roads, and the Utah Department of Transportation for use of State roads.

2. PLANNED ACCESS ROADS

There will be approximately 1000' of new access road required. Existing roads are shown on Exhibits F & E-1. The proposed 1000' of road will run in a northerly direction from an existing bladed road. The maximum total disturbed width will be 30'. This proposed route is also shown on Exhibits E & E-1 and may require an encroachment permit from the San Juan County Road Department. Use of this road will be required for approximately thirty (30) days for drilling operations and up to thirty (30) or more years if the well is productive. If the well is not productive, the access road will be rehabilitated within sixty (60) days of cessation of drilling operations in the manner set forth below in Item 10, **Plans for Restoration of Surface**. Surface disturbance and vehicular traffic will be limited to the approved location and access road. Any additional area needed will be approved in advance.

3. LOCATION OF EXISTING WELLS

- a. There are no water wells within a one-mile radius of this location.
- b. There are no abandoned wells in this one-mile radius.
- c. There are no temporarily abandoned wells in this one-mile radius.
- d. There are no disposal wells in this one-mile radius.
- e. There are no wells presently being drilled in this one-mile radius.
- f. There are no producing wells in this one-mile radius.
- g. There are no shut-in wells in this one-mile radius.
- h. There are no injection wells in this one-mile radius.
- i. There are no monitoring or observation wells for other uses in this one-mile radius.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

Since this well is an exploration well with little or no basis for identifying the nature of potential hydrocarbons that might be found, if any, Ampolex prefers to obtain

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES (Cont.)

drilling results before submitting plans for placement of production and/or gathering facilities.

5. LOCATION AND TYPE OF WATER SOURCE

- a. The source of water will be the Colorado River. The river will be accessed by Farley's Access, a county-maintained gravel road, that traverses three (3) miles through the Glen Canyon National Recreation Area between Highway 95 and the river. A right-of-way permit will be obtained from the Glen Canyon N.R.A. and the San Juan County Road Department. A temporary water use permit will be obtained from the Utah State Engineer in Price, Utah.
- b. Water will be transported by truck over existing roadways and proposed access road(s) as shown on Exhibits E & E-1.
- c. No water well is currently planned to be drilled on this lease.

6. CONSTRUCTION MATERIALS

- a. It is not anticipated that any offsite construction materials will be needed; the surface soil materials should be sufficient. In the event that additional construction materials are needed, they will be provided by local contractors.
- b. It is anticipated that all surface soil materials for construction of access roads for drilling are sufficient. If the well is productive, and material from road and pad is not sufficient, additional surface materials will be obtained from local contractors.
- c. All major access roads presently exist as shown on Exhibits E & E-1.

7. HANDLING OF WASTE MATERIALS AND DISPOSAL

- a. Drill cuttings will be buried in the reserve pit.
- b. Drilling fluids will be handled in the reserve pit.

7. HANDLING OF WASTE MATERIALS AND DISPOSAL (Cont.)

- c. Any fluids produced during a drilling test or while conducting a production test will be collected in a test tank. Any spills of oil, gas or salt waters will be cleaned up and removed. If the well is productive, produced water will be stored on-site for ninety (90) days after initial production. After that time, application will be made for approval of permanent disposal method in compliance with NTL-2b.
- d. Portable chemical facilities will be provided for human waste.
- e. Garbage and non-flammable waste and salt and other chemicals produced during drilling or testing will be handled in a trash basket and hauled to a county refuse facility as necessary.

8. ANCILLARY FACILITIES

Camp facilities will not be required on location other than three (3) trailers. A camper or trailer may be required at the water source for water-hauling operations. If so required, approval will be sought in conjunction with application for the water-use permit from the Glen Canyon N.R.A. and/or San Juan County Road Department.

9. WELL-SITE LAYOUT

The well-site layout is depicted in Exhibit G (cut and fill cross-sections) and in Exhibit H (drill rig layout).

10. PLANS FOR RESTORATION OF SURFACE

- a. Within 24 hours of completion of drilling, the location and surrounding area will be cleared of all debris, materials, and junk not required for production.
- b. Within 18 months following the cessation of drilling operations, or when the reserve pit has dried, whichever is least, all areas not needed for production (including access road) will be filled in, recontoured to approximately natural contours and as much top soil as was removed replaced, leaving enough for future restoration (unless well is a dry hole). The remaining top soil, if any, will be stabilized and seeded in

10. PLANS FOR RESTORATION OF SURFACE (Cont.)

- b. place. After contouring and prior to seeding, location will be "ripped" and "torn" in 18" widths, 6" deep.
- c. The area will be seeded between October 1st and February 28th as directed by the Utah Division of Lands and Forestry.

11. OTHER INFORMATION

- a. No occupied dwellings are known to exist in the area.
- b. The closest live water is the Colorado River, approximately 2.5 miles northwest of the the proposed drilling location.
- c. A dry hole on BLM land in Section 4-T35S-R15E was drilled in 1961 and has been converted to a water well, and is currently used for ranching purposes. Conversations between the water hauling contractor and the rancher indicated the well would not be able to supply sufficient volumes of water for drilling operations even if substantial improvements were made to the pumping apparatus.
- d. There are no reported restrictions or reservations noted on the oil and gas lease.
- e. Drilling is planned for early July 1990. It is anticipated that the casing point will be reached within 16 days after commencement of drilling operations.

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

John A. Brooks
Ampolex (Texas), Inc.
1225 17th Street, Suite #3000
Denver, Colorado 80202
(303) 297-1000

R-15-E

E HIBIT E

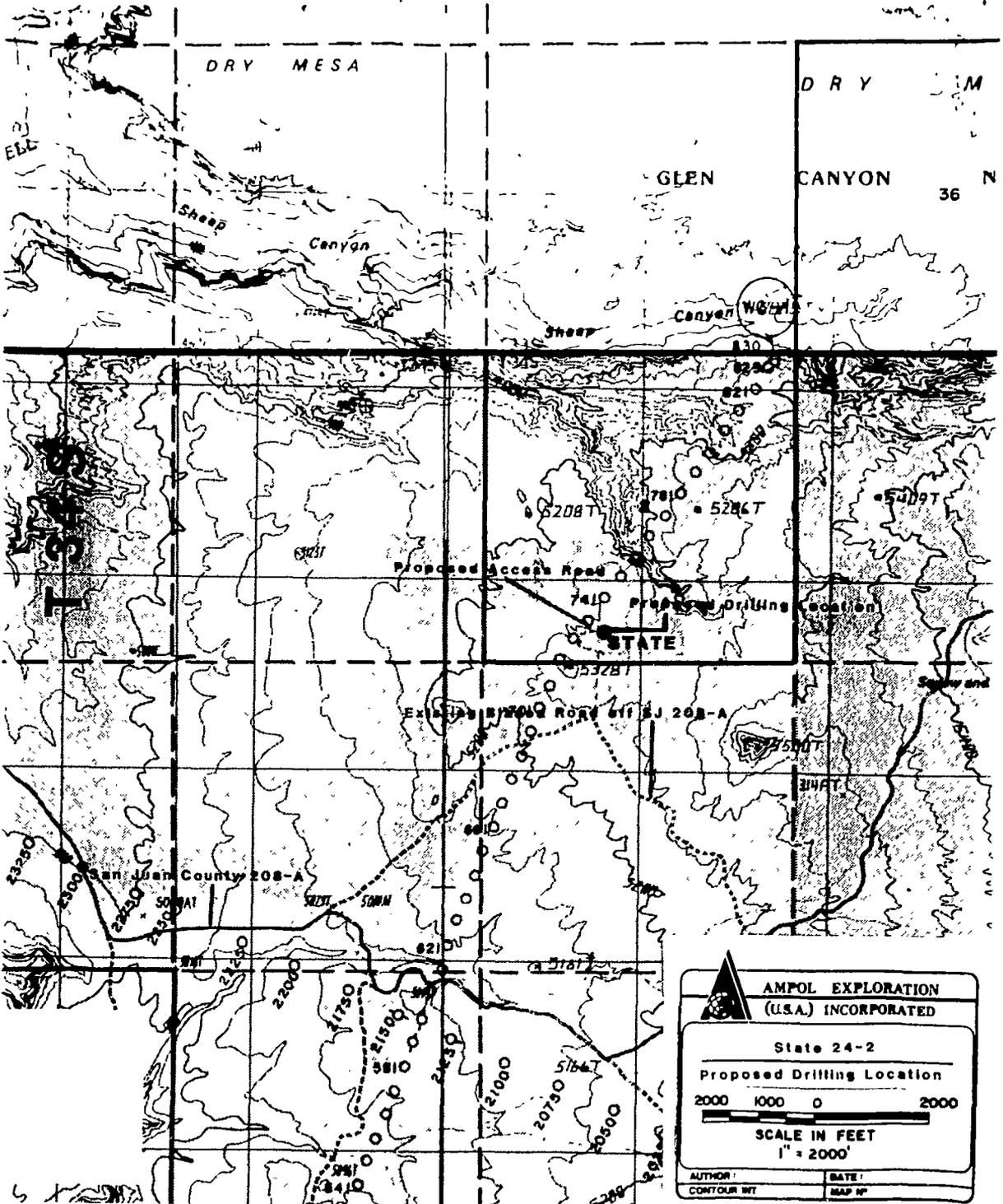
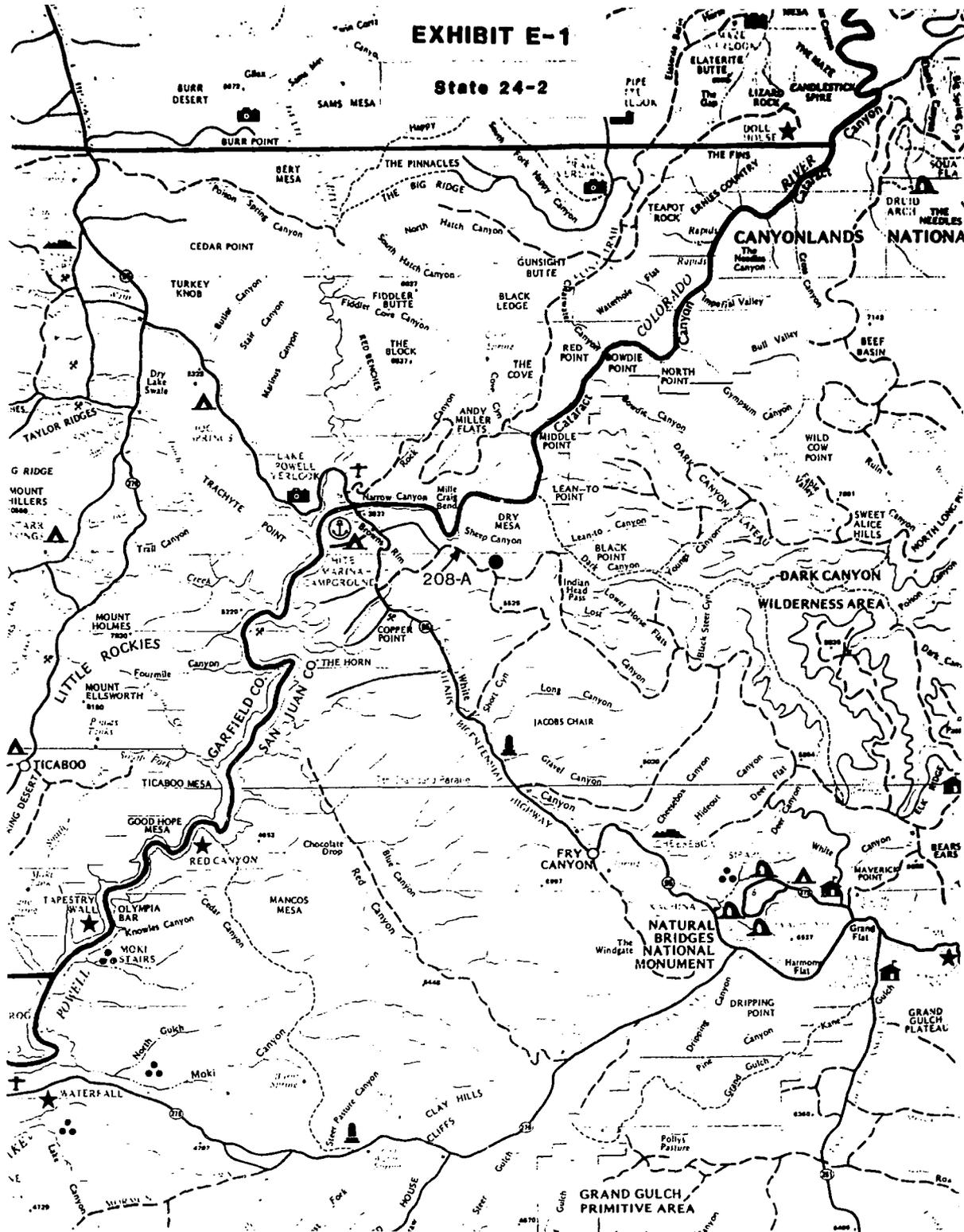


EXHIBIT E-1

State 24-2



DRILLING LOCATION ASSESSMENT

State of Utah Division of Oil, Gas and Mining

OPERATOR: AMPOLEX INC. WELL NAME: STATE 24-2
SECTION: 2 TWP: 34S RNG: 15E LOC: 400 FSL 1980 FWL
QTR/QTR SE/SW COUNTY: SAN JUAN FIELD: WILDCAT
SURFACE OWNER: STATE OF UTAH
SPACING: 460 F SECTION LINE 460 F QTR/QTR LINE 920 F ANOTHER WELL
INSPECTOR: Brad Hill DATE AND TIME: 11/16/89 12:00 PM

PARTICIPANTS: John Baza & Glenn Goodwin-DOGM, Brian O'Niel-Powers Elevation Archaeology, Erwin Tucker & Steve Olson-Powers Elevation, Bob Sutherland & Lee Sutherland-Sutherland Bros., Lowell Larson-Perry McDonald Const., Roy Gilbreth-Crowley Const., Billy Hass-Aable Trucking, Ross Rice-National Park Service Glenn Canyon Rec. Area, Norman Utley-Utley Const., Robert Larsen-BLM, John A. Brooks-Amopol Exploration, Stan Baker-Utah State Lands

REGIONAL SETTING/TOPOGRAPHY: Location is on the northern edge of the Slickrock Physiographic Province south of Sheep Canyon. The area is fairly flat lying and consists mostly of slickrock with little or no soil.

LAND USE:

CURRENT SURFACE USE: None

PROPOSED SURFACE DISTURBANCE: A rectangular pad with a rectangular attachment for a reserve pit will be constructed. Dimensions of the pad will be 325'X 140'. The pit will be 150'X 50'X 10'. Approximately 1000' of access road will be constructed.

AFFECTED FLOODPLAINS AND/OR WETLANDS: None

FLORA/FAUNA: Blackbrush, Pinion, Juniper, Snakeweed, Rabbitbrush, Yucca, Prickly Pear, Mormon Tea, abundant Cryptogams where soil is present/Birds, Insects, Deer, possible Bighorn Sheep

ENVIRONMENTAL PARAMETERS

SURFACE GEOLOGY

SOIL TYPE AND CHARACTERISTICS: Silty-sand and cryptogamic soil, where soil is present, much of the location is on sandstone bedrock.

SURFACE FORMATION & CHARACTERISTICS: Quaternary eolian sand lying on the Permian, Cedar Mesa Sandstone

EROSION/SEDIMENTATION/STABILITY: There is no active erosion

or sedimentation occurring at this time. The surface materials show little potential for erosion.

PALEONTOLOGICAL POTENTIAL: None observed

SUBSURFACE GEOLOGY

OBJECTIVES/DEPTHS: Upper Hermosa-1,420', Desert Creek-2,440'

ABNORMAL PRESSURES-HIGH AND LOW: None anticipated

CULTURAL RESOURCES/ARCHAEOLOGY: Survey done by Powers Elevation Archaeology

CONSTRUCTION MATERIALS: Onsite materials will be used for construction.

SITE RECLAMATION: If the well is P&A the site will be cleaned up and recountoured as specified by State Lands. They have requested the following: If adequate topsoil is not present for drilling in seed broadcast seed at double the rate with BLM seed list. Substitute yellow sweet clover for Mormon Tea (*Ephedra viridis*) and Hycrest Wheatgrass for sand dropseed. Recommend contouring pad, water bars and ditches on access road.

RESERVE PIT

CHARACTERISTICS: The reserve pit will be a rectangular, below-ground pit approximately 150'X 50'X 10.

LINING: The pit is to be lined with a synthetic liner of 12 mil minimum thickness.

MUD PROGRAM: 0-270'/water, 270-2,105'/water & gel with Barite and LCM as needed, 2,105-TD/water, gel, soda ash, caustic soda with Barite and LCM as needed

DRILLING WATER SUPPLY: Water will be obtained from the Colorado River.

STIPULATIONS FOR APD APPROVAL

Reserve pit is to be lined with synthetic liner.

Wildlife has requested that the drilling of this well be restricted to the time period of Jan. 1-April 15 to avoid Bighorn mating and lambing.

ATTACHMENTS

Photographs will be placed on file.

STATE ENGINEER'S ENDORSEMENT

WATER RIGHT NUMBER: 99 - 104

APPLICATION NO. T64317

- 1 November 17, 1989 Application received by MP
 - 2 November 20, 1989 Application designated for APPROVAL by MP and KLJ.
 - 3 Comments:
-
-

Conditions:

This application is hereby APPROVED, dated December 29, 1989, subject to prior rights and this application will expire on December 29, 1990.

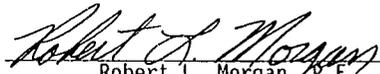

Robert L. Morgan, P.E.
State Engineer

EXHIBIT F

Cultural Resource Management Report

STATE 24-2 CULTURAL RESOURCES INVENTORY
SAN JUAN COUNTY, UTAH

Written By:

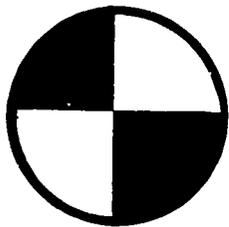
Brian P. O'Neil, M.A.

Submitted To:

AMPOL EXPLORATION (U.S.A.), INC.
1225 - 17th Street, Suite 3000
Denver, Colorado 80202

Date:

November 28, 1989



POWERS ELEVATION CO., INC.

P.O. Box 440889
Aurora, CO 80044
(303) 321-2217



Archaeology Department



Powers Elevation Co., Inc.

P.O. Box 440889, Aurora, CO 80044
Phone 303-321-2217
Toll Free 1-800-824-2550
FAX 303-321-2217

PROJECT IDENTIFICATION: A cultural resources inventory for Ampol Exploration (U.S.A.), Inc., White Canyon Prospect, State 2f-2, well pad and access, San Juan County, Utah; on lands administered by the state of Utah.

ANTIQUITIES PERMIT NO: 88UT54629
STATE PERMIT PROJECT NO: U-89-PA-637s

FILES SEARCH: A files search was conducted at the State of Utah, Division of State History, Archaeological Records Office, on October 17, 1989. The files search, by Ms. Evelyn Seelinger, revealed that no previous surveys and no previously recorded sites had been reported within the section associated with this project. An additional files search was conducted at the BLM San Juan Resource Area, in Monticello, Utah on October 26, 1989. This files search also revealed no previous surveys within the section associated with this project. No previously recorded sites are reported by either agency within that portion of the section associated with this project.

LOCATION: The proposed project is located at 400 feet FSL, 1,980 feet FWL, Section 2, T.34S., R.15E.

MAP REFERENCE: Indian Head Pass and Copper Point, 7.5', 1987, provisional.

DATE OF INVESTIGATION: October 28 and November 8, 1989.

PERSONNEL: Brian P. O'Neil, Field Investigator; Marcia J. Tate, Principal Investigator.

PROPOSED ACTION: The proposed action is the construction of a well pad measuring approximately 350 feet northwest-southeast by 200 feet northeast-southwest. The access road to the proposed well location is approximately 1,000 feet long from its take off point along an existing bladed road. The bladed road is approximately 1.1 miles long from its take off point along San Juan County Road #208A. The entire access to the proposed well location is approximately 1.39 miles long.

The objectives of the cultural resources inventory were to locate and document any historic or prehistoric cultural resources occurring within the proposed well location and staging area, and to recommend appropriate procedures for the management of such resources. The accomplishment of these objectives fulfills the compliance requirements set forth in the Antiquities Act of 1906, the Historic Preservation Act of 1966, Executive Order No. 11593 of 1971, the Archaeological and Historic Conservation Act of 1980, the Utah State Antiquities Act of 1973, and the Archaeological Resources Protection Act of 1979.

ENVIRONMENT: The proposed project area is located in the Colorado River canyon country of the Colorado Plateau in southeastern Utah. The local landforms consist of benched and incised tributary drainages to the Colorado River which have downcut through the Navajo, Kayenta, and Wingate Sandstones, and into the Chinle and Moenkopi Formations. Exposed to the east is the underlying White Rim Sandstone of the Cutler Group. The nearest permanent drainage is White Canyon. The soils in the project area are a reddish-brown, silty, sandy to sandy-clay loam with sandstone talus. Vegetation consists of juniper, occasional pinyon, Mormon tea, snakeweed, antelope brush, Fremont barberry, shadescale, yucca, prickly pear cactus, and sparse native grasses. Ground visibility is approximately to 60 to 90%. Slope is 2 to 10% grades, and the exposure is northeasterly. Elevation ranges from approximately 5,080 to 5,260 feet.

FIELD METHODS: A 10 acre area surrounding the well pad center stake was surveyed by walking a series of parallel east-west transects at intervals of 15 m. Ant hills, rodent burrows, road cuts, and erosional cuts etc. were examined for evidence of buried cultural materials. The access to the proposed well location was surveyed by walking a pair of sinuous transects extending 50 feet each side of the center, to form a 100 foot wide right-of-way, approximately 1.3 miles long from its take off point along San Juan County Road 208 A, outside the 10 acre survey area.

ADDITIONAL OBSERVATION: A predrill inspection was held with both state and federal authorities on November 16, 1989.

RESULTS: Three prehistoric sites, 42SA21055, 42SA21071 and 42SA21072, were recorded during the survey of the access road and 10 acre well pad survey area. None of the sites are eligible for nomination to the National Register of Historic Places. Site 42SA21055 is located approximately 200 feet to the southwest of the proposed well pad impact area and can be easily avoided. Site 42SA21071 is located along the bladed access road near its take off point at San Juan County Road #208 A. This site is located immediately adjacent to the north side of the road. However, since the road is already bladed and no improvement is considered necessary at this time, the site should not suffer any adverse impact. Site 42SA21072 is also located along the bladed access road, near the intersection of the proposed access road to be constructed to the well location. This site is located immediately adjacent to the south side of the road. However, since the road is already bladed and no improvement is considered necessary at this time, it should not suffer any adverse impact. A total area of 25.6 acres was surveyed.

Ampol Exploration (U.S.A.), Inc.
State #24-2
page 3

RECOMMENDATIONS: Since Site 42SA21055 can be avoided and sites 42SA21071 and 42SA21072 will not undergo adverse impact due to new road construction, we recommend that the project be allowed to proceed.

Marcia J. Tate 11/28/89
Marcia J. Tate Date
Principal Investigator

MJT:sr

Ampol Exploration (U.S.A.), Inc.
#24-2 State
400' FSL and 1,980' FWL
Section 2, T.34S., R.15E.
San Juan County, Utah



Looking east at centerstake.

GLEN CANYON

Ampol Exploration (U.S.A.), Inc.
#24-2 State
400' FSL and 1,980' FWL,
Section 2, T.34S., R.15E.
San Juan County, Utah

Ampol Exploration
(U.S.A.), Inc.,
#24-2 State

Site 42SA21055

Site 42SA21071

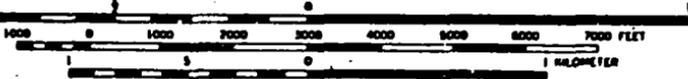
Site 42SA21072

Existing Bladed
Road Used For Access

Copper Point, 7.5',
1987

Indian Head Pass,
7.5', 1987

SCALE 1:24 000



IMACS SITE FORM

Part A - Administrative Data

INTERMOUNTAIN ANTIQUITIES COMPUTER SYSTEM

Form approved for use by

BLM - Utah, Idaho, Wyoming, Nevada

Division of State History - Utah, Wyoming

USFS - Intermountain Region

NPS - Utah, Wyoming

*1 State No. 42SA21055

*2 Agency No. _____

3 Temp No. AE-ST 24-2-1

4. State Utah County San Juan

5. Project Ampol Exploration, Inc., White Canyon Prospect State 24-2

*6. Report No. _____

7. Site Name _____

8. Class Prehistoric Historic Paleontologic Ethnographic

9. Site Type Open lithic scatter / Hunting locality

*10. Elevation 5,250 ft.

*11. UTM Grd Zone 12 5,6,6,7,2,0 m E 4,1,8,8,6,2,0 m N

*12. SW of SE of SW of Section 2 T. 34S R. 15E

*13. Meridian Salt Lake City

*14. Map Reference Indian Head Pass, Utah Provisional 7.5' 1987

15. Aerial Photo _____

16. Location and Access From the intersection of Utah State Hwy 95 and San Juan County Rd. #208A, proceed east on San Juan 208A for 4.8 miles. Take the right fork (SE) and continue on for 2.3 miles. Follow SJ208A to left (east) for another 0.7 mile. Take left fork (NE) for 1.1 miles or until road turns sharply to SE. Take access road to Ampol Exploration, State 24-2 north for 1,100 feet. Site is due west 150 feet, near an exposure of bedrock, 50 feet NE of and below a ledge of sandstone outcrop which forms a small bench around a hill to the southwest of the site.

*17. Land Owner State of Utah

*18. Federal Administrative Units _____

*19. Location of Curated Materials Edge of the Crdars Museum / State Park

20. Site Description Site is a diffuse open lithic scatter situated among a series of hills northeast of a hill. An end scraper, knife or point fragments, retouched and utilized flake, and two pieces of secondary, brown chert debitage comprise the site. Total of six artifacts. The end scraper and knife or point fragments were collected. Site is severely eroded due to deflation and slope wash. There is approximately 10cm of soil/sand to bedrock. Numerous small dunes are present around the area, but no cultural materials were observed. Site probably is a hunting locale. Large projectile point appears to have been utilized as a knife. Scraper would indicate some hide processing/butchering, though use on wood cannot be ruled out. No evidence of features observed. Knife/point style indicates Early Archaic, Flko-Fared variant.

*21. Site Condition Excellent (A) Good (B) Fair (C) Poor (D)

*22. Impact Agent(s) deflation and slope wash

*23. National Register Status Significant (C) Non-Significant (D) Unevaluated (Z)

Justify Due to erosion, intrasite integrity has been lost. Absence of deposition indicates site is not likely to yield additional significant scientific information.

24. Photos AMPOL, BPO Roll #1, Exp 1-8

25. Recorded by Brian O'Neil

*26. Survey Organization Powers Elevation Co., Inc *28 Survey Date 10/28/1989

27. Assisting Crew Members N/A

Part A - Environmental Data

*29. Slope 10 (Degrees) 45 Aspect (Degrees) 42SA21055
 *30. Distance to Permanent Water 16 x 100 Meters
 *Type of Water Source Spring/Seep (A) Stream/River (B) Lake (C) Other (D)
 Name of Water Source Sheep Canyon
 *31. Geographic Unit Colorado Plateau - Inner Canyon Lands
 *32. Topographic Location - See Guide for additional information

PRIMARY LANDFORM

SECONDARY LANDFORM

- | | | | | |
|--|---|---|---|---|
| <input type="checkbox"/> Mountain spine (A) | <input type="checkbox"/> Alluvial fan (A) | <input type="checkbox"/> Dune (I) | <input type="checkbox"/> Slope (O) | <input type="checkbox"/> Riser (Y) |
| <input type="checkbox"/> Hill (B) | <input type="checkbox"/> Auloo/Rock Shelter (B) | <input type="checkbox"/> Floodplain (J) | <input checked="" type="checkbox"/> Terrace/Bench (R) | <input type="checkbox"/> Multiple S. Landforms (11) |
| <input type="checkbox"/> Tableland/Mesa (C) | <input type="checkbox"/> Arroyo (C) | <input type="checkbox"/> Ledge (K) | <input type="checkbox"/> Talus Slope (S) | <input type="checkbox"/> Bar (2) |
| <input type="checkbox"/> Ridge (D) | <input type="checkbox"/> Basin (D) | <input type="checkbox"/> Mesa/Butte (L) | <input type="checkbox"/> Island (T) | <input type="checkbox"/> Lagoon (3) |
| <input type="checkbox"/> Valley (E) | <input type="checkbox"/> Cave (E) | <input type="checkbox"/> Playa (M) | <input type="checkbox"/> Outcrop (U) | <input type="checkbox"/> Ephemeral Wash (4) |
| <input type="checkbox"/> Plain (F) | <input type="checkbox"/> Cliff (F) | <input type="checkbox"/> Port. Geo. Feature (N) | <input type="checkbox"/> Spring Mound/Bog (V) | <input type="checkbox"/> Kipuka (5) |
| <input checked="" type="checkbox"/> Canyon (G) | <input type="checkbox"/> Delta (G) | <input type="checkbox"/> Plain (O) | <input type="checkbox"/> Valley (W) | <input type="checkbox"/> Saddle/Pass (6) |
| <input type="checkbox"/> Island (H) | <input type="checkbox"/> Detached Monolith (H) | <input type="checkbox"/> Ridge/Knoll (P) | <input type="checkbox"/> Outbank (X) | <input type="checkbox"/> Graben (7) |

Describe Site is situated on a broad bench below and northeast of Wingate Mesa, but above and south of Sheep Canyon.

*33. On-site Depositional Context

<input type="checkbox"/> Fan (A)	<input type="checkbox"/> Outcrop (O)	<input type="checkbox"/> Moraine (J)	<input type="checkbox"/> Desert Pavement (P)
<input type="checkbox"/> Talus (B)	<input type="checkbox"/> Extinct Lake (F)	<input type="checkbox"/> Flood Plain (K)	<input type="checkbox"/> Stream Bed (R)
<input type="checkbox"/> Dune (C)	<input type="checkbox"/> Extant Lake (G)	<input type="checkbox"/> Marsh (L)	<input checked="" type="checkbox"/> Aeolian (S)
<input type="checkbox"/> Stream Terrace (D)	<input type="checkbox"/> Alluvial Plain (H)	<input type="checkbox"/> Landslide/Slump (M)	<input type="checkbox"/> None (T)
<input type="checkbox"/> Playa (E)	<input type="checkbox"/> Colluvium (I)	<input type="checkbox"/> Delta (N)	<input type="checkbox"/> Residual (U)

Description of Soil Reddish-brown silty, sandy clay loam overlaying bedrock in small, low dunes.

*34. Vegetation

*a. Life Zone

<input type="checkbox"/> Arctic-Alpine (A)	<input type="checkbox"/> Hudsonian (B)	<input type="checkbox"/> Canadian (C)	<input type="checkbox"/> Transitional (D)	<input checked="" type="checkbox"/> Upper Sonoran (E)	<input type="checkbox"/> Lower Sonoran (F)
--	--	---------------------------------------	---	---	--

*b. Community

Primary On-Site <u>0</u>	Secondary On-Site <u>0</u>	Surrounding Site <u>H</u>
Aspen (A)	Other/Mixed Conifer (G)	Grassland/Steppe (M)
Spruce-Fir (B)	Pinyon-Juniper Woodland (H)	Desert Lake Shore (N)
Douglas Fir (C)	Wet Meadow (I)	Shadscale Community (O)
Alpine Tundra (D)	Dry Meadow (J)	Tall Sagebrush (P)
Ponderosa Pine (E)	Oak-Maple Shrub (K)	Low Sagebrush (Q)
Lodgepole Pine (F)	Riparian (L)	Barren (R)

Describe Juniper, antelope brush, snakeweed, Mormon tea, prickly pear and barrel cactus, very sparse grasses.

*35. Miscellaneous Text _____
 *36. Comments/Continuations _____

List of Attachments: Part B Topo Map Photos Continuation Sheets
 Part C Site Sketch Artifact/Feature Sketch Other: _____

P B - Prehistoric Sites

Site No.(s) 42SA21055
AE-ST 24-2-1

1. Site Type Open lithic scatter / hunting locale

CULTURAL AFFILIATION DATING METHOD CULTURAL AFFILIATION DATING METHOD

2. Culture Early Archaic Cross Dating
 Describe Projectile point style appears to be Elko Eared variant

3. Site Dimensions N-S 22 m X E-W 22 m *Area 484 sq. m

4. Surface Collection/Method None (A) Designed Sample (C)
 Grab Sample (B) Complete Collection (D)
 Sampling Method Diagnostic or patterned tools

5. Estimated Depth of Cultural Fill Surface (A) 20 - 100 cm Fill noted but unknown (E)
 0 - 20 cm (B) 100 cm + Depth Suspected, but not tested (F)
 How Estimated Wire probe, 10cm to bedrock
 (# tested, show location on site map)

6. Excavation Status Excavated (A) Tested (B) Unexcavated (C)
 Testing Method _____

7. Summary of Artifacts and Debris (Refer to Guide for additional categories)

- Lithic Scatter (LS) Isolated Artifact (IA) Burned Stone (BS) Bone Scatter (WB)
- Ceramic Scatter (CS) Organic Remains (VR) Ground Stone (GS) Charcoal Scatter (CA)
- Basketry/Textiles (BT) Shell (SL) Lithic Source(s): _____

Describe Site is a diffuse scatter of lithic tools and debitage consisting of an endscraper (collected), a projectile point (2 pieces, base and mid-section collected), a retouched/utilized flake, two tertiary interior flakes of brown chert; one large, one small. Total of 6 artifacts.

*8. Lithic Tools	#	TYPE	#	TYPE
	<u>1</u>	<u>End scraper</u>	_____	_____
	<u>1</u>	<u>Projectile point</u>	_____	_____
	<u>1</u>	<u>Retouched flake</u>	_____	_____

Describe End scraper: dark brown chert, plano convex, truncated triangular outline, retouched on distal end and lateral edges. Extremely heavy use wear on distal scraping edge, highly polished and rounded.
Projectile point base and mid-section: medium brown/grey chert, large Elko Eared variant, exhibits resharpening and use wear on right lateral edge. Base and mid-section are separate pieces. Snap fractures evident, probable knife.
Retouched flake: milky chalcedony, both lateral edges retouched, use wear/attrition evident on both lateral edges.
See drawings.

*9. Lithic Debitage - Estimated Quantity None (A) 10 - 25 (C) 100 - 500 (E)
 1 - 9 (B) 25 - 100 (D) 500 + (F)

Material Type Dark brown chert
 Flaking Stages (0) Not Present (1) Rare (2) Common (3) Dominant
 Decortication 0 Secondary 0 Tertiary 3 Shatter 0 Core 0

10. Maximum Density - # / sq m (all lithics) 2/400 sq. m.

*11. Ceramic Artifacts

#	TYPE	#	TYPE
N/A			

Describe

12. Maximum Density - # / sq m (ceramics)

N/A

*13. Non-Architectural Features (locate on site map) - See Guide for additional categories

- | | | | |
|--|--|---|---|
| <input type="checkbox"/> Hearth/Firepit (HE) | <input type="checkbox"/> Rubble Mound (RM) | <input type="checkbox"/> Earthen Mound (EM) | <input type="checkbox"/> Water Control (WC) |
| <input type="checkbox"/> Midden (MD) | <input type="checkbox"/> Stone Circle (SC) | <input type="checkbox"/> Burial (BU) | <input type="checkbox"/> Petroglyph (PE) |
| <input type="checkbox"/> Depression (DE) | <input type="checkbox"/> Rock Alignment (RA) | <input type="checkbox"/> Talus Pit (TP) | <input type="checkbox"/> Pictograph (PI) |

Describe

N/A

*14. Architectural Features (locate on site map)

#	MATERIAL	TYPE	#	MATERIAL	TYPE
N/A					

Describe

N/A

15. Comments / Continuations

see attached map and drawings

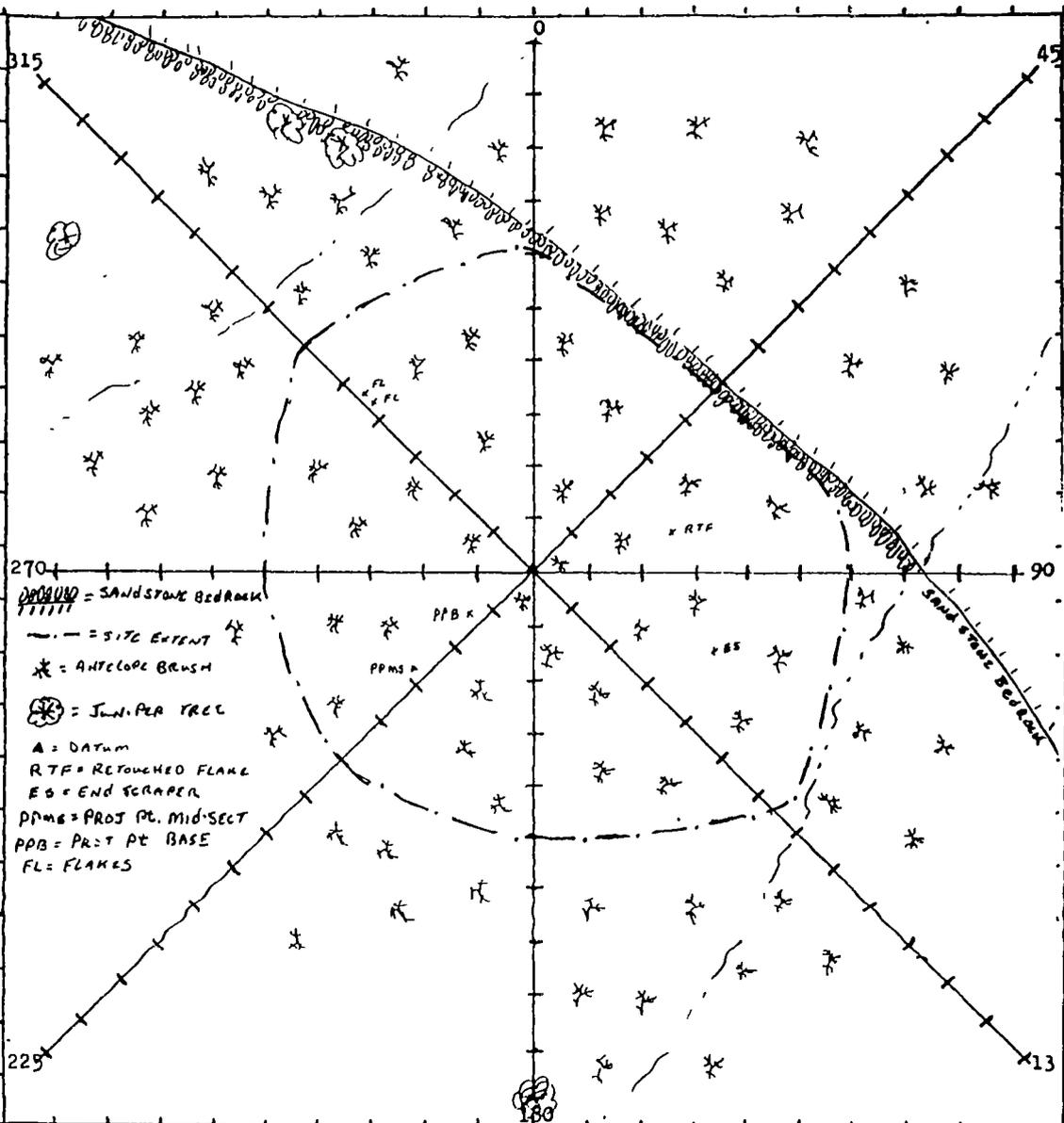
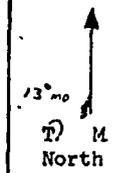
Key to Map
Key Shots:

Site No. 22-5A-21055 Sci

1 cm = 2 m

1 cm = 2 m

- | | | | | |
|--------------------------------|---------------------------------|----------------------------------|----------------------------------|--|
| <u>RETouched FLAKE</u> | | <u>MID SECT. / Pt</u> | <u>FLAKES</u> | |
| 1.) <u>74</u> ; <u>55 m.</u> | 3.) <u>232°</u> ; <u>6.0 m.</u> | 5.) <u>316°</u> ; <u>9.5 m.</u> | 7.) <u> </u> ; <u> </u> m. | |
| <u>END SCRAPER</u> | | <u>Pt BASE</u> | | |
| 2.) <u>114</u> ; <u>7.5 m.</u> | 4.) <u>238°</u> ; <u>3.0 m.</u> | 6.) <u> </u> ; <u> </u> m. | 8.) <u> </u> ; <u> </u> m. | |
- T 34S R 15E Sec. 2 1/4 S; SW/SE/SW Map Quad: INDIAN HEAD PASS 1987



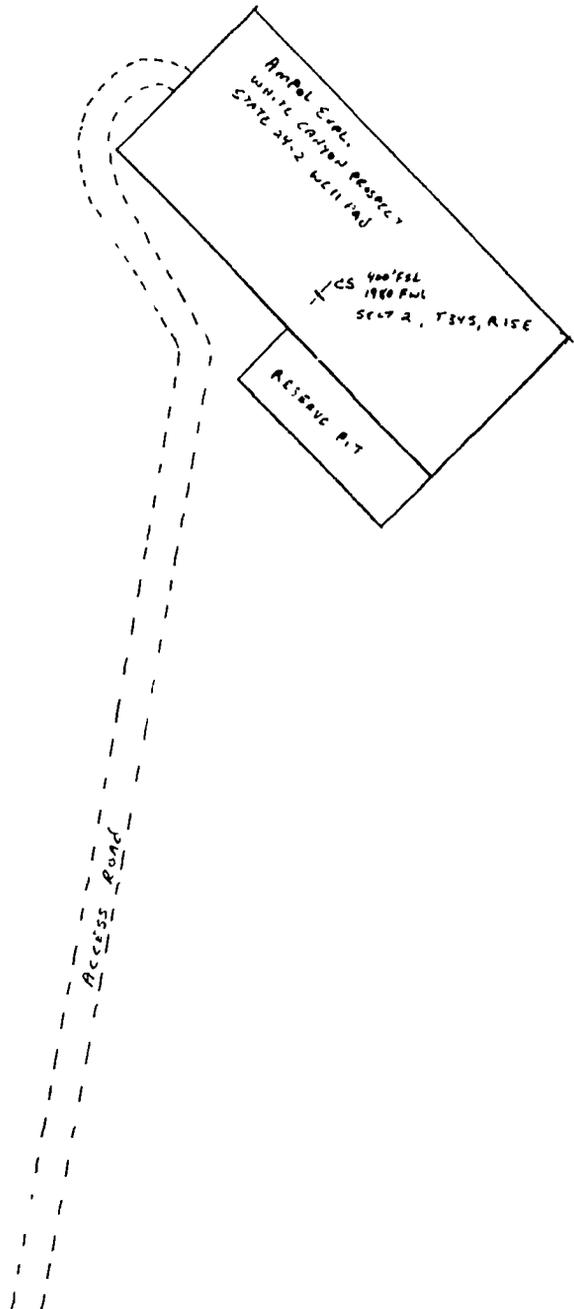
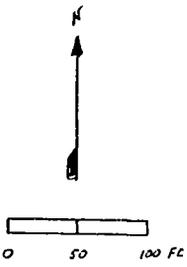
- = SANDSTONE BEDROCK
- = SITE EXTENT
- = ANTELOPE BRUSH
- = JUN. PER TREE
- A = DATUM
- RTF = RETOUCHE FLAKE
- ES = END SCRAPER
- PPMB = PROJ. Pt. MID-SECT
- PPB = PROJ. Pt. BASE
- FL = FLAKES

Date Completed: 10/28/89

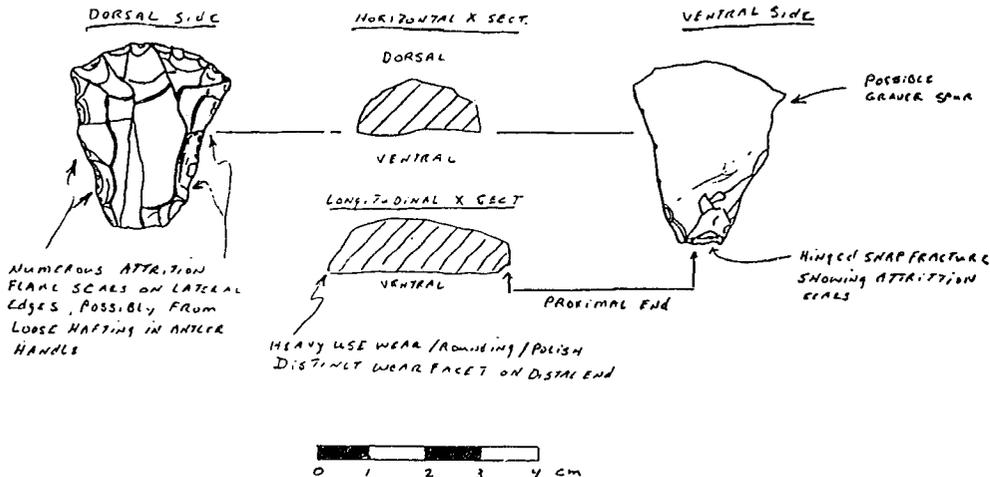
Drawn By: BONE L

UTM Zone 12 Easting 1564720 Northing 4108620

AMPOL EXPLORATION, E. WHITE CANYON PROSPECT, TC 24-2
SITE: 42-SA-21,055 RELATIONSHIP OF SITE TO WELL PAD AND ACCESS RD

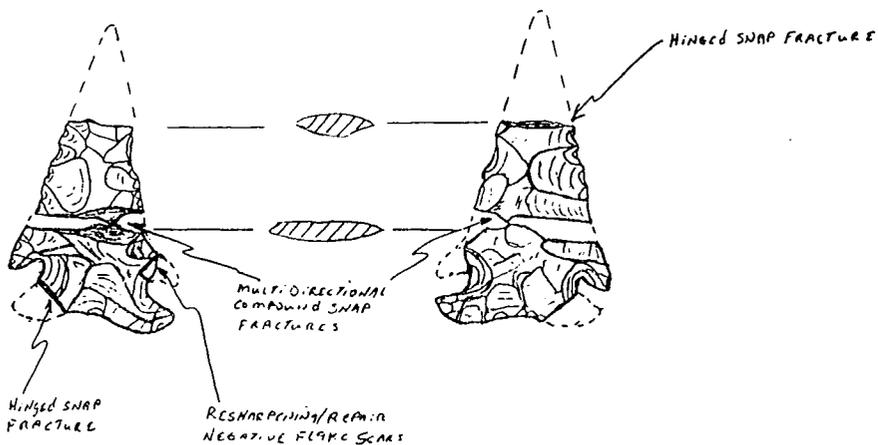


END SCRAPER
DARK BROWN CHERT



KNIFE FRAGMENTS

MED. BROWN WITH GREY STREAKING - CHERT
BASE APPEARS TO BE AN ELKO CARVED VARIANT



Ampol Exploration, Inc.
State 24-2
S $\frac{1}{2}$ SE $\frac{1}{2}$ SW $\frac{1}{2}$, Section 2,
T.34S., R.15E.
San Juan County, Utah



Site 42SA21055, overview toward the south.
Note bedrock outcrop in foreground.

Ampol Exploration (U.S.A.), Inc.
#24-2 State
400' FSL and 1,980' FWL,
Section 2, T.34S., R.15E.
San Juan County, Utah

Ampol Exploration
(U.S.A.), Inc.,
#24-2 State

Site 42SA21055

Site 42SA21071

Site 42SA21072

Existing Bladed
Road Used For Access

Copper Point, 7.5',
1987

Indian Head Pass,
7.5', 1987

SCALE 1:24 000

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 0 1 KILOMETER



IMACS SITE FORM

Part A - Administrative Data

INTERMOUNTAIN ANTIQUITIES COMPUTER SYSTEM

Form approved for use by

BLM - Utah, Idaho, Wyoming, Nevada

Division of State History - Utah, Wyoming

USFS - Intermountain Region

NPS - Utah, Wyoming

*1. State No. 42S021071

*2. Agency No. _____

3. Temp. No. AE-ST-24-2-2

4. State Utah County San Juan

5. Project Ampol Exploration, White Canyon Prospect, State 24-2

*6. Report No. _____

7. Site Name _____

8. Class Prehistoric Historic Paleontologic Ethnographic

9. Site Type Open lithic / Hunting locality

*10. Elevation 5,085 ft

*11. UTM Grid Zone 12 56 55 16 m E 4187350 m N

*12. SW of NW of SE of Section 10 T. 34S R. 15E

*13. Meridian Salt Lake City

*14. Map Reference Copper Point, Provisional 7.5, 1987

15. Aerial Photo _____

16. Location and Access From the intersection of Utah State Hwy 95 and San Juan County Road #208A, proceed east on S.J. 208A for 4.8 miles, Take the right fork (SE) and continue on for 2.3 miles. Follow S.J. 208A to left (E) for another 0.7 mile. Take left fork (NE), Go 0.1 mile, Site is on left side of road.

*17. Land Owner Bureau of Land Management

*18. Federal Administrative Units Moab District San Juan Resource Area

*19. Location of Curated Materials N/A

20. Site Description Site is a diffuse open lithic scatter situated in a blowout among low dunes on the northwest side of San Juan County Road #208A. Small pedestals of soil up to 1cm in height support many of the flakes, indicating a moderate degree of deflation. Two small biface fragments and a scraper fragment are present. The remainder of the artifacts are debitage dominated by a medium grey chert, a clear/milky chalcedony, and a rose tinted chalcedony. Also present are a white chert, a brown grey chert, a light olive green chert, and a dark grey/black chert. A small concentration of debitage is located approximately 6m north of the datum. No evidence of features was observed. Site is probably a hunting locale with activities such as butchering, hide preparation, tool manufacturing and maintenance.

*21. Site Condition Excellent (A) Good (B) Fair (C) Poor (D)

*22. Impact Agent(s) Deflation, slope wash, grazing

*23. National Register Status Significant (C) Non-Significant (Q) Unevaluated (Z)
Justify Due to deflation and a subsequent lack of intrasite integrity, the site is not eligible to the NRHP in that it is not likely to yield significant scientific information on the prehistory of the area.

24. Photos AMPOL, BPO Roll #2, Exp. 1-8

25. Recorded by Brian O'Neil

*26. Survey Organization Powers Elevation Co., Inc. *28. Survey Date 11/8/1989

27. Assisting Crew Members N/A

Part A - Environmental Data

42SA21071

*29 Slope 3 (Degrees) 180 Aspect (Degrees)
 *30 Distance to Permanent Water 33 x 100 Meters
 *Type of Water Source Spring/Seep (A) Stream/River (B) Lake (C) Other (D)
 Name of Water Source Sheep Canyon
 *31 Geographic Unit Colorado Plateau, Inner Canyon Lands
 *32 Topographic Location See Guide for additional information

PRIMARY LANDFORM

SECONDARY LANDFORM

- | | | | | |
|--|--|---|---|---|
| <input type="checkbox"/> Mountain spine (A) | <input type="checkbox"/> Alluvial fan (A) | <input type="checkbox"/> Dune (I) | <input type="checkbox"/> Slope (O) | <input type="checkbox"/> Riser (Y) |
| <input type="checkbox"/> Hill (fi) | <input type="checkbox"/> Alcove/Rock Shelter (B) | <input type="checkbox"/> Floodplain (J) | <input checked="" type="checkbox"/> Terrace/Bench (R) | <input type="checkbox"/> Multiple S Landforms (1) |
| <input type="checkbox"/> Tableland/Mesa (C) | <input type="checkbox"/> Arroyo (C) | <input type="checkbox"/> Ledge (K) | <input type="checkbox"/> Talus Slope (S) | <input type="checkbox"/> Bar (2) |
| <input type="checkbox"/> Ridge (D) | <input type="checkbox"/> Basin (D) | <input type="checkbox"/> Mesa/Butte (L) | <input type="checkbox"/> Island (T) | <input type="checkbox"/> Lagoon (3) |
| <input type="checkbox"/> Valley (E) | <input type="checkbox"/> Cave (E) | <input type="checkbox"/> Playa (M) | <input type="checkbox"/> Outcrop (U) | <input type="checkbox"/> Ephemeral Wash (4) |
| <input type="checkbox"/> Plain (F) | <input type="checkbox"/> Cliff (F) | <input type="checkbox"/> Port. Geo. Feature (N) | <input type="checkbox"/> Spring Mound/Bog (V) | <input type="checkbox"/> Kipuka (5) |
| <input checked="" type="checkbox"/> Canyon (G) | <input type="checkbox"/> Delta (G) | <input type="checkbox"/> Plain (O) | <input type="checkbox"/> Valley (W) | <input type="checkbox"/> Saddle/Pass (6) |
| <input type="checkbox"/> Island (H) | <input type="checkbox"/> Detached Monolith (H) | <input type="checkbox"/> Ridge/Knoll (P) | <input type="checkbox"/> Curbank (X) | <input type="checkbox"/> Graben (7) |

Describe Site is situated on a broad bench below and northeast of Wingate Mesa, but above and south of Sheep Canyon

*33 On-site Depositional Context

<input type="checkbox"/> Fan (A)	<input type="checkbox"/> Outcrop (Q)	<input type="checkbox"/> Moraine (J)	<input type="checkbox"/> Desert Pavement (P)
<input type="checkbox"/> Talus (B)	<input type="checkbox"/> Extinct Lake (F)	<input type="checkbox"/> Flood Plain (K)	<input type="checkbox"/> Stream Bed (R)
<input checked="" type="checkbox"/> Dune (C)	<input type="checkbox"/> Extant Lake (G)	<input type="checkbox"/> Marsh (L)	<input type="checkbox"/> Aeolian (S)
<input type="checkbox"/> Stream Terrace (D)	<input type="checkbox"/> Alluvial Plain (H)	<input type="checkbox"/> Landslide/Slump (M)	<input type="checkbox"/> None (T)
<input type="checkbox"/> Playa (E)	<input type="checkbox"/> Colluvium (I)	<input type="checkbox"/> Delta (N)	<input type="checkbox"/> Residual (U)

Description of Soil Reddish-brown silty, sand overlaying bedrock in small, low dunes.

34. Vegetation

***a. Life Zone**

- Arctic-Alpine (A) Hudsonian (B) Canadian (C) Transitional (D) Upper Sonoran (E) Lower Sonoran (F)

***b Community**

Primary On-Site 0 Secondary On-Site 0 Surrounding Site H

- | | | | |
|--------------------|-----------------------------|-------------------------|--------------------|
| Aspen (A) | Other/Unfixed Conifer (G) | Grassland/Steppe (M) | Marsh/Swamp (S) |
| Spruce-Fir (B) | Pinyon-Juniper Woodland (H) | Desert Lake Shore (N) | Lake/Reservoir (T) |
| Douglas Fir (C) | Wet Meadow (I) | Shadscale Community (O) | Agricultural (U) |
| Alpine Tundra (D) | Dry Meadow (J) | Tall Sagebrush (P) | Blackbrush (V) |
| Ponderosa Pine (E) | Oak-Maple Shrub (K) | Low Sagebrush (Q) | Crocodile Bush (Y) |
| Lodgepole Pine (F) | Pipapan (L) | Barron (R) | |

Describe Juniper, antelope brush, snakeweed, saltbush, Mormon tea, prickly pear cactus, and sparse native grasses.

***35. Miscellaneous Text**

36 Comments/Continuations _____

- List of Attachments Part B Topo Map Photos Continuation Sheets
 Part C Site Sketch Artifact/Feature Sketch Other _____

M I B - Prehistoric Sites

Site No (s) 42SA21071

AE-ST-24-2-2

1. Site Type Open lithic Scatter / hunting locale

CULTURAL AFFILIATION DATING METHOD CULTURAL AFFILIATION DATING METHOD

2. Culture unknown none

3. Site Dimensions N-W 16 m X E-W 24 m *Area 384 sq m

4. Surface Collection/Method None (A) Designed Sample (C)
 Grab Sample (B) Complete Collection (D)

Sampling Method _____

5. Estimated Depth of Cultural Fill Surface (A) 20 - 100 cm Fill noted but unknown (E)
 0 - 20 cm (B) 100 cm + Depth Suspected, but not tested (F)

How Estimated Artifacts rest on little soil pedestals.

(If tested, show location on site map)

6. Excavation Status Excavated (A) Tested (B) Unexcavated (C)

Testing Method _____

7. Summary of Artifacts and Debris (Refer to Guide for additional categories)

- Lithic Scatter (LS) Isolated Artifact (IA) Burned Stone (BS) Bone Scatter (WB)
- Ceramic Scatter (CS) Organic Remains (VR) Ground Stone (GS) Charcoal Scatter (CA)
- Basketry/Textiles (BT) Shell (SL) Lithic Source(s) _____

Describe Site is a diffuse scatter of lithic debitage with one small concentration in a blowout. Material types are dominant in the following order: medium grey chert, clear/milky chalcedony, rose tinted chalcedony, brown/grey chert, light olive green chert, dark grey/black chert, white chert. Tertiary flakes are predominant with a few secondary flakes and shatter flakes. Four biface thinning flakes were observed. There is a total of 74 flakes.

*8 Lithic Tools	#	TYPE	#	TYPE
	<u>2</u>	<u>Biface Fragments</u>	_____	_____
	<u>1</u>	<u>Scraper Fragment</u>	_____	_____

Describe One randomly flaked milky chalcedony biface fragment which appears to be a broken blank.
One randomly flaked medium grey chert biface fragment from a broken blank.
One medium grey end scraper fragment.

*9 Lithic Debitage - Estimated Quantity None (A) 10 - 25 (C) 100 - 500 (E)
 1 - 9 (B) 25 - 100 (D) 500 + (F)

Material Type Medium grey chert, clear/milky chalcedony, rose chalcedony

Flaking Stages (0) Not Present (1) Rare (2) Common (3) Dominant

Decorations 0 Secondary 1 Tertiary 2 Shatter 1 Dominant Core 0

10. Maximum Density - # / sq m (all lithics) 10 / sq m

*11 Ceramic Artifacts	#	TYPE	#	TYPE
	<u>N/A</u>			

Describe _____

12 Maximum Density # / sq m (ceramics) N/A

- *13. Non-Architectural Features (locate on site map) - See Guide for additional categories
- | | | | |
|--|--|---|---|
| <input type="checkbox"/> Hearth/Firepit (HE) | <input type="checkbox"/> Rubble Mound (RM) | <input type="checkbox"/> Earthen Mound (EM) | <input type="checkbox"/> Water Control (WC) |
| <input type="checkbox"/> Midden (MD) | <input type="checkbox"/> Stone Circle (SC) | <input type="checkbox"/> Burial (BU) | <input type="checkbox"/> Petroglyph (PE) |
| <input type="checkbox"/> Depression (DE) | <input type="checkbox"/> Rock Alignment (RA) | <input type="checkbox"/> Talus Pit (TP) | <input type="checkbox"/> Pictograph (PI) |
- Describe N/A

*14 Architectural Features (locate on site map)

#	MATERIAL	TYPE	#	MATERIAL	TYPE
<u>N/A</u>					

Describe _____

15 Comments / Continuations

Key to Ma
Key Shots:

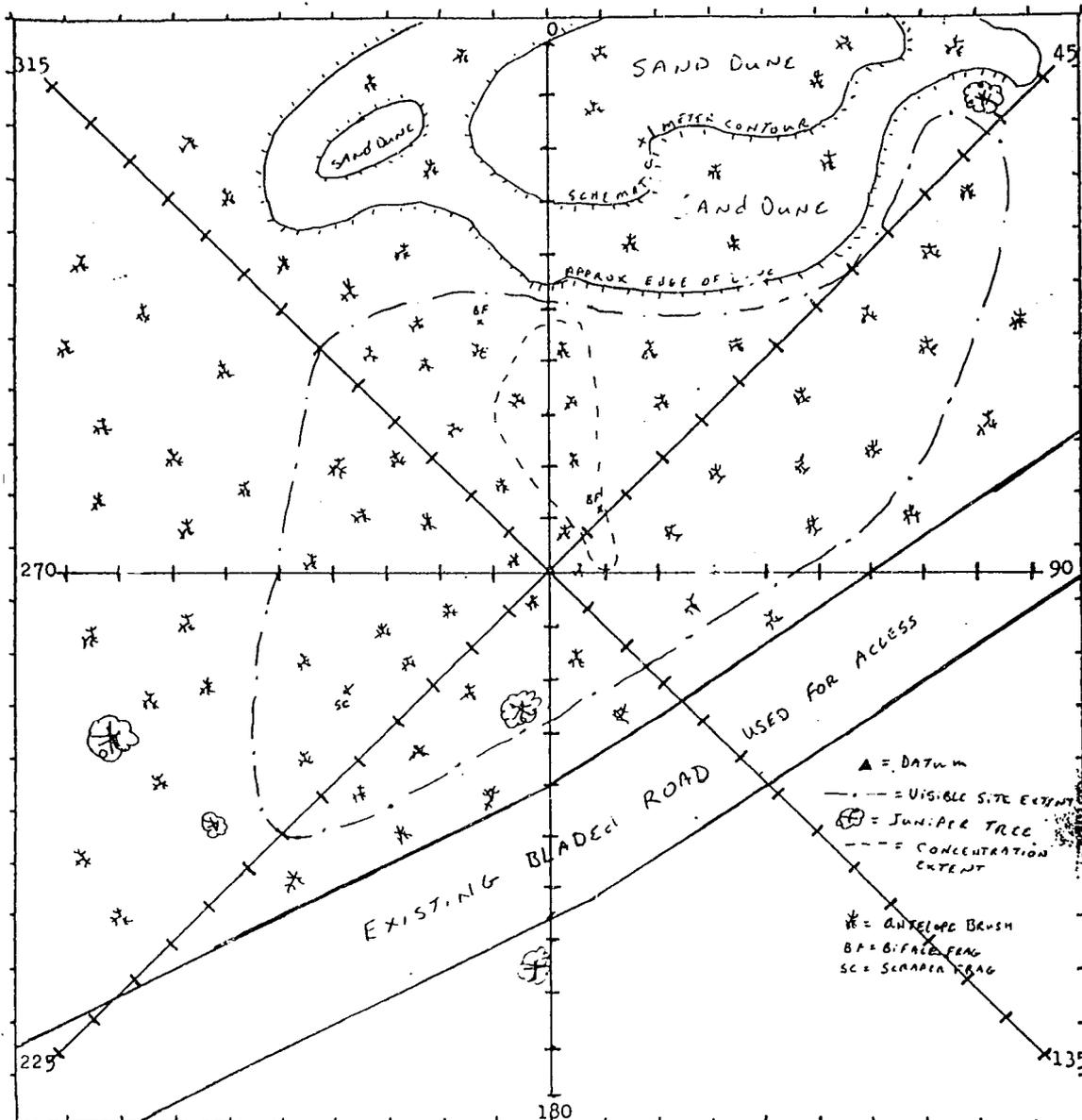
r Site No. 42-14-21, 071

Scale

1 cm = 2 m

- 1.) B. FACE FANG 39°; 3 m. 3.) SCRAPER FANG 20.0°; 9 m. 5.) _____°; _____ m. 7.) _____°; _____ m.
- 2.) SIZING FANG 345°; 10 m. 4.) _____°; _____ m. 6.) _____°; _____ m. 8.) _____°; _____ m.
- T. 345 R. 15 E Sec. 10; 1/2 SW/5W/11W/SE Map Quad: COPPER POINT, PROVISIONAL, 1977

North



Date Completed: 11/2/89

Drawn By: B...

UTM Zone 12 Easting 156155110 Northing 411873510

Ampol Exploration, Inc.
State 24-2
SW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 10,
T.34S., R.15E.
San Juan County, Utah



Site 42SA21071, overview toward the south.

GLEN CANYON

Ampol Exploration (U.S.A.), Inc.
#24-2 State
400' FSL and 1,980' FWL,
Section 2, T.34S., R.15E.
San Juan County, Utah

Ampol Exploration
(U.S.A.), Inc.,
#24-2 State

Site 42SA21055

Site 42SA21071

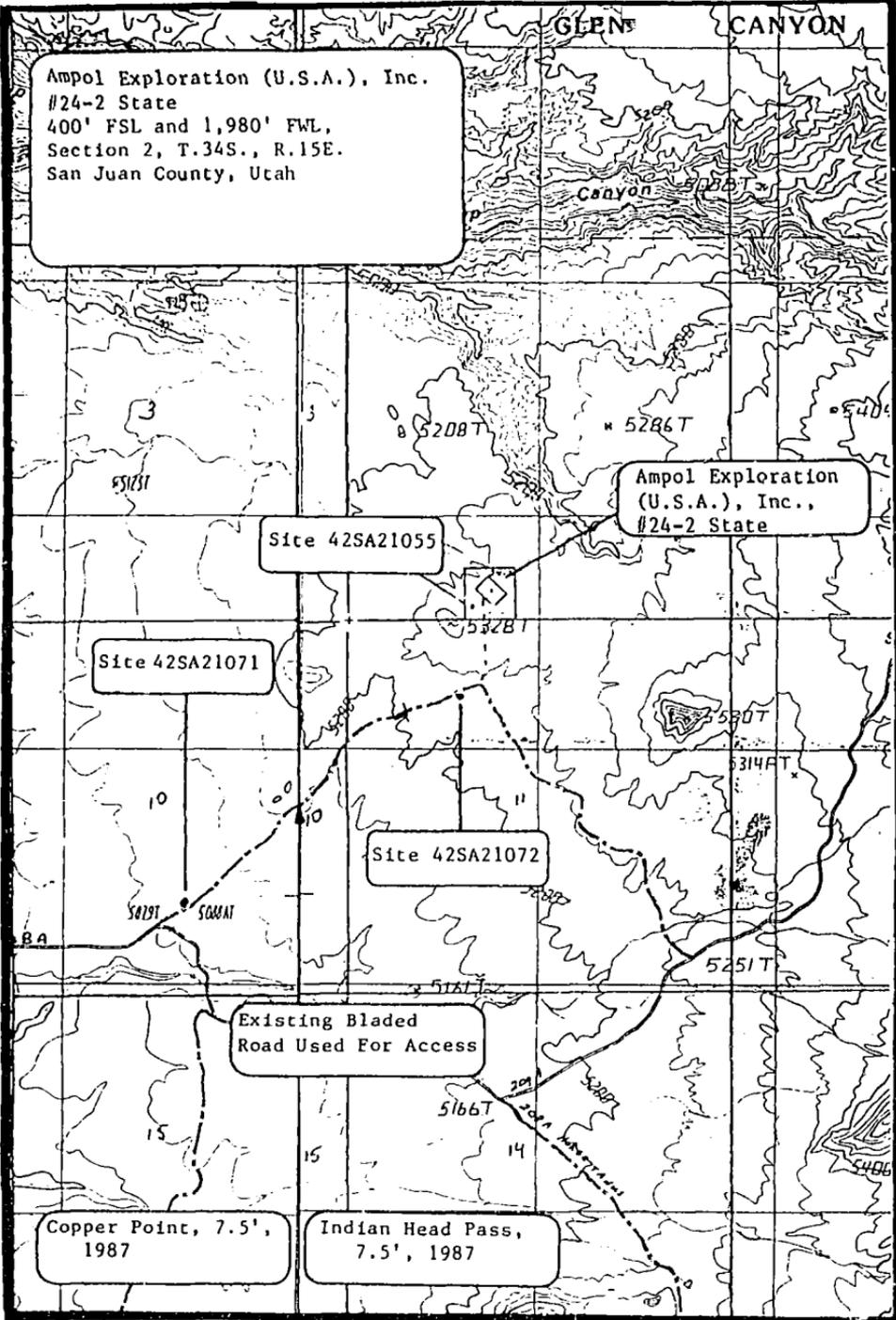
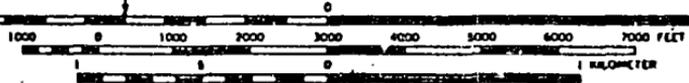
Site 42SA21072

Existing Bladed
Road Used For Access

Copper Point, 7.5',
1987

Indian Head Pass,
7.5', 1987

SCALE 1:24 000



IMACS SITE FORM

Part A - Administrative Data

INTERMOUNTAIN ANTIQUITIES COMPUTER SYSTEM

Form approved for use by

BLM - Utah, Idaho, Wyoming, Nevada

Division of State History - Utah, Wyoming

USFS - Intermountain Region

NPS - Utah, Wyoming

*1 State No. 42 SA21072

*2 Agency No. _____

*3 Temp No. AE-ST-24-2-3

4 State Utah County San Juan

5 Project Ampol Exploration, White Canyon Prospect, State 24-2

*6 Report No. _____

7 Site Name _____

8. Class Prehistoric Historic Paleontologic Ethnographic

9. Site Type Open lithic / Hunting locality

*10. Elevation 5,230 ft

*11. UTM Grid Zone 12 5,6,6,6,0 m E 4,1,8,8,2,3,0 m N

*12 SW of NE of NW of Section 11 T 34S R 15E

*13. Meridian Salt Lake City

*14. Map Reference Indian Head Pass, Provisional, 7.5', 1987

15. Aerial Photo _____

16. Location and Access From the intersection of Utah State Hwy 95 and San Juan County Road #208A, proceed east on S J, 208A for 4.8 miles. Take the right fork (SE) and continue on for 2.3 miles. Follow S J 208A to left (E) for another .7 mile. Take left fork (NE) for 1 mile. Site is located on south side of road.

*17. Land Owner Bureau of Land Management

*18. Federal Administrative Units Moab District San Juan Resource Area

*19. Location of Curated Materials N/A

20. Site Description Site is a diffuse open lithic scatter situated among a series of hills south of a prominent hill. A knife fragment (2 pieces) and the stem of an expanding stem projectile point are present in the washouts along with numerous pieces of debitage. Several small dunes are present around the area. Material types are composed primarily of a medium grey chert and a medium brown chert with occasional pieces of pale green chert and clear chalcedony. Site is probably a hunting locale with activities such as butchering, tool manufacture and maintenance

*21 Site Condition Excellent (A) Good (B) Fair (C) Poor (D)

*22. Impact Agent(s) Deflation and slope wash erosion

*23. National Register Status Significant (C) Non-Significant (D) Unevaluated (Z)

Justify Site is severely eroded and subsequently lacks intrasite integrity. Consequently, the site is not eligible to the NRHP in that it is not likely to yield significant scientific information on the prehistory of the area.

24. Photos AMPOL BPO Roll #2, Exp. 9-16

25. Recorded by Brian O'Neil

*26. Survey Organization Powers Elevation Co., Inc. *28 Survey Date 11/9/1989

27. Assisting Crew Members N/A

Part A - Environmental Data

29. Slope 5 (Degrees) 180 Aspect (Degrees) 42SA21072
 30. Distance to Permanent Water 20 x 100 Meters
 *Type of Water Source Spring/Seep (A) Stream/River (B) Lake (C) Other (D)
 Name of Water Source Sheep Canyon
 *31. Geographic Unit Colorado Plateau, Inner Canyon Lands
 *32. Topographic Location See Guide for additional information

PRIMARY LANDFORM

- Mountain spine (A)
- Hill (B)
- Tableland/Mesa (C)
- Ridge (D)
- Valley (E)
- Plain (F)
- Canyon (G)
- Island (H)

SECONDARY LANDFORM

- Alluvial fan (A)
- Alcove/Rock Shelter (B)
- Arroyo (C)
- Basin (D)
- Cave (E)
- Cliff (F)
- Delta (G)
- Detached Monolith (H)
- Dune (I)
- Floodplain (J)
- Ledge (K)
- Mesa/Dune (L)
- Playa (M)
- Port. Gee Feature (N)
- Plain (O)
- Ridge/Knoll (P)
- Slope (Q)
- Terrace/Bench (R)
- Talus Slope (S)
- Island (T)
- Outcrop (U)
- Spring Mound/Beg (V)
- Valley (W)
- Cutbank (X)
- Riser (Y)
- Multiple S Landforms (1)
- Bar (2)
- Lagoon (3)
- Ephemeral Wash (4)
- Kipuka (5)
- Saddle Pass (6)
- Graben (7)

Describe Site is situated on a broad bench below and northeast of Wingate Mesa, but above and south of Sheep Canyon.

*33 On-site Depositional Context

- Fan (A)
- Talus (B)
- Dune (C)
- Stream Terrace (D)
- Playa (E)
- Outcrop (O)
- Extinct Lake (F)
- Extant Lake (G)
- Alluvial Plain (H)
- Colluvium (I)
- Moraine (J)
- Flood Plain (K)
- Marsh (L)
- Landslide/Stump (M)
- Delta (N)
- Desert Pavement (P)
- Stream Bed (R)
- Aeolian (S)
- None (T)
- Residual (U)

Description of Soil Reddish brown silty sandy clay loam overlying bedrock in small low dunes.

34 Vegetation

*a. Life Zone

- Arctic-Alpine (A) Hudsonian (B) Canadian (C) Transitional (D) Upper Sonoran (E) Lower Sonoran (F)

*b. Community

- | | | |
|-----------------------------|----------------------------|---------------------------|
| Primary On-Site <u>0</u> | Secondary On-Site <u>Q</u> | Surrounding Site <u>H</u> |
| Aspen (A) | Grassland/Steppe (M) | Marsh/Swamp (S) |
| Spruce-Fir (B) | Desert Lake Shore (N) | Lake/Reservoir (T) |
| Douglas Fir (C) | Shadscale Community (O) | Agricultural (U) |
| Alpine Tundra (D) | Tall Sagebrush (P) | Blackbrush (V) |
| Ponderosa Pine (E) | Low Sagebrush (Q) | Crosette Bush (Y) |
| Lodgepole Pine (F) | Barren (R) | |
| Other/Mixed Conifer (G) | | |
| Pinyon-Juniper Woodland (H) | | |
| Wet Meadow (I) | | |
| Dry Meadow (J) | | |
| Oak-Maple Shrub (K) | | |
| Riparian (L) | | |

Describe Juniper, antelope brush, Mormon tea, Fremont barberry, snakeweed, yucca, sparse native grasses.

*35 Miscellaneous Text _____

36 Comments/Continuations _____

- List of Attachments Part B Part C Topo Map Site Sketch Photos Artifact/Feature Sketch Continuation Sheets Other _____

#11. Ceramic Artifacts	#	TYPE	#	TYPE
	N/A			

Describe _____

12 Maximum Density - # / sq m (ceramics) N/A

*13. Non-Architectural Features (locate on site map) - See Guide for additional categories

- | | | | |
|--|--|---|---|
| <input type="checkbox"/> Hearth/Firepit (HE) | <input type="checkbox"/> Rubble Mound (RM) | <input type="checkbox"/> Earthen Mound (EM) | <input type="checkbox"/> Water Control (WC) |
| <input type="checkbox"/> Midden (MD) | <input type="checkbox"/> Stone Circle (SC) | <input type="checkbox"/> Burial (BU) | <input type="checkbox"/> Petroglyph (PE) |
| <input type="checkbox"/> Depression (DE) | <input type="checkbox"/> Rock Alignment (RA) | <input type="checkbox"/> Talus Pit (TP) | <input type="checkbox"/> Pictograph (PI) |
- Describe N/A

*14. Architectural Features (locate on site map)

#	MATERIAL	TYPE	#	MATERIAL	TYPE
N/A					

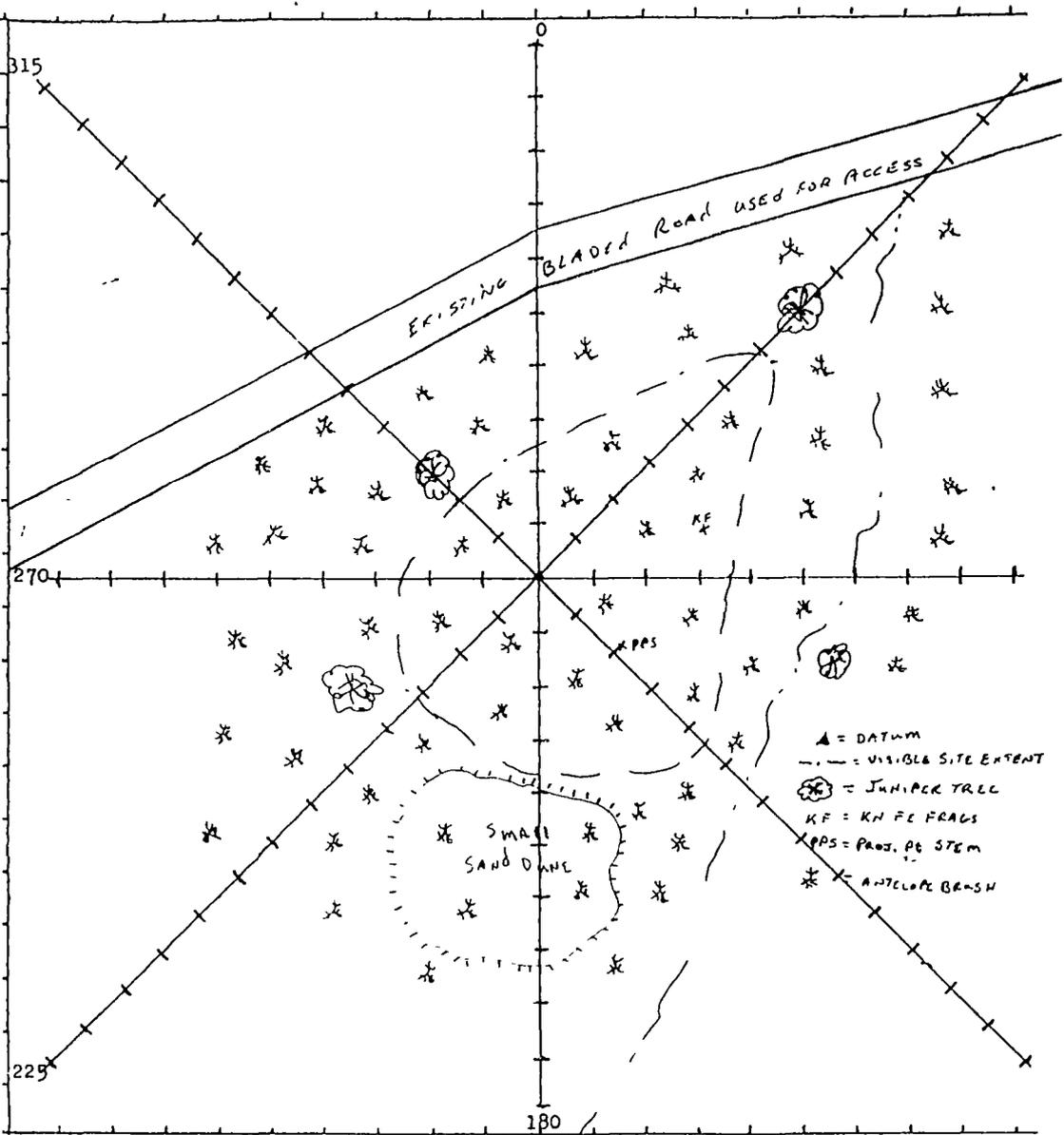
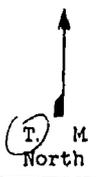
Describe _____

15 Comments / Continuations

Key to M PI site no. 72-50-21, 072 DC ; ICM = 4m

Key Shots

- KN, FE FRAGS
 1) 74 ; 13 m. 3) _____ ; _____ m. 5) _____ ; _____ m. 7) _____ ; _____ m.
Exp. in 16 Stem PPS
 2) 132 ; 8 m. 4) _____ ; _____ m. 6) _____ ; _____ m. 8) _____ ; _____ m.
 T 345 R. 15 E Sec. 11 ; $\frac{1}{4}$ S: SW/NE/NW Map Quad: INDIAN HEAD PASS, POW, '82

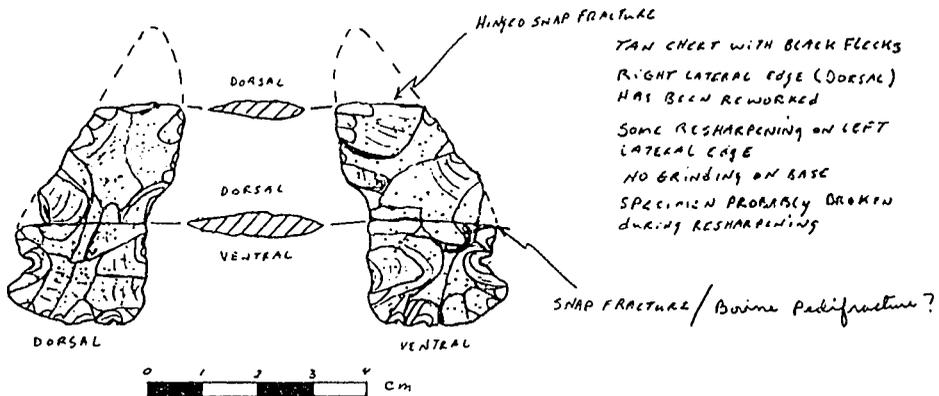


Date Completed: 11/9/85

Drawn By: B ONE L

UTM Zone 12 Easting 15666660 Northing 1411882301

KNIFE FRAGMENTS - FITTED TOGETHER
NOT COLLECTED



Ampe! Exploration, Inc.
State 24-2
SW $\frac{1}{2}$ NE $\frac{1}{2}$ NW $\frac{1}{2}$, Section 11,
T.34S., R.15E.
San Juan County, Utah



Site 42SA21072, overview toward the west.

Ampol Exploration (U.S.A.), Inc.
#24-2 State
430' FSL and 1,980' FWL,
Section 2, T.34S., R.15E.
San Juan County, Utah

GLEN CANYON

Ampol Exploration
(U.S.A.), Inc.,
#24-2 State

Site 42SA21055

Site 42SA21071

Site 42SA21072

Existing Bladed
Road Used For Access

Copper Point, 7.5',
1987

Indian Head Pass,
7.5', 1987

SCALE 1:24000

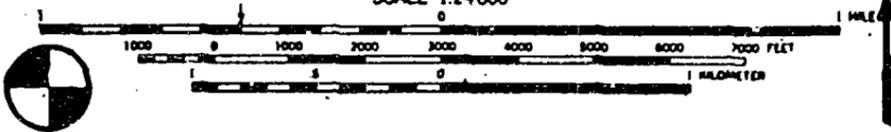
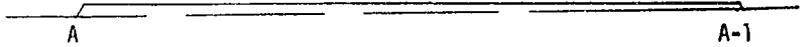


EXHIBIT G

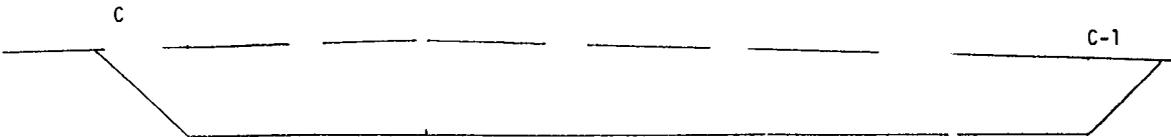
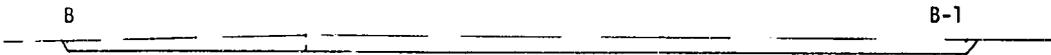
Ampol Exploration (U.S.A.) Inc.
State 24-2
Section 2, T.34S, R.15E
400fsl, 1980fwl
San Juan County, Utah

CROSS SECTIONS & DIRT QUANTITIES

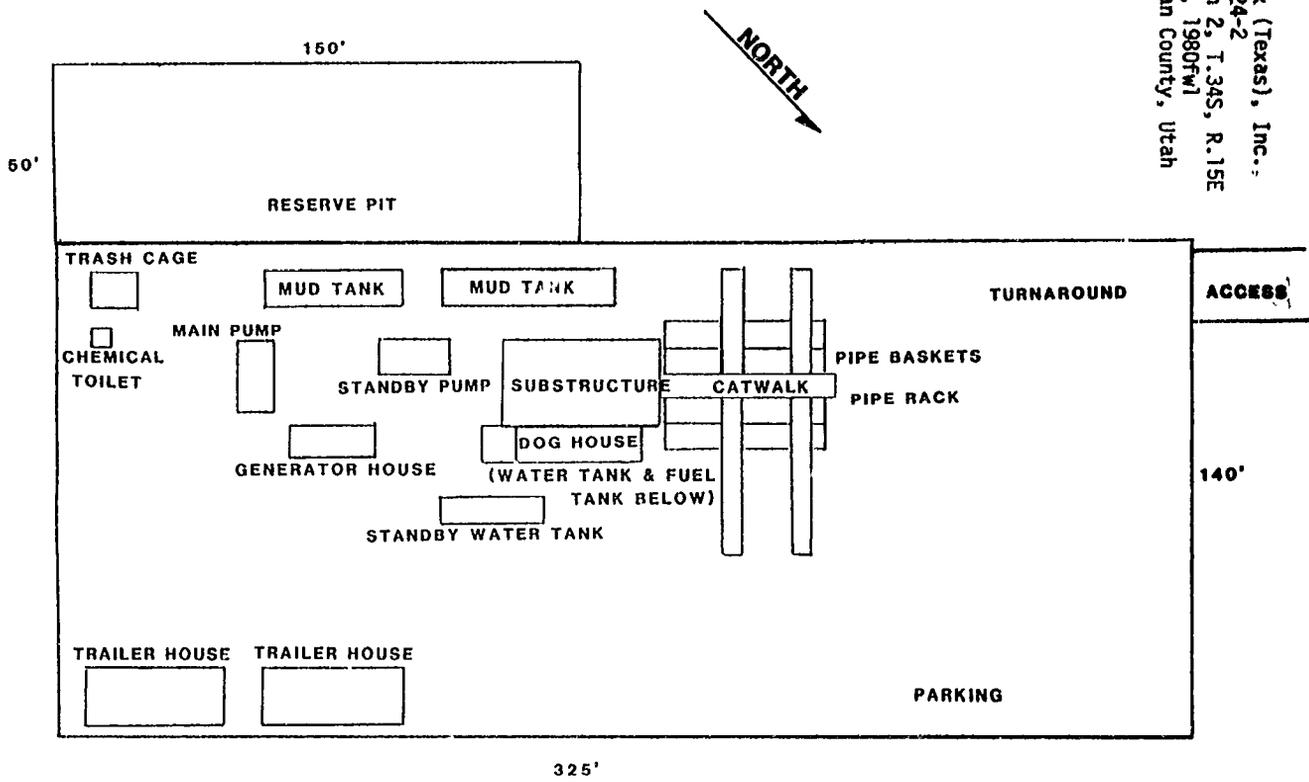


Pad cut 4533cu yds
Pit cut 2777cu yds
Pad fill 295cu yds

Scale
Horizontal: 1"=30'
Vertical: 1"=10'



Ampolex (Texas), Inc.
State 24-2
Section 2, T. 34S, R. 15E
400ftsl, 1980FW1
San Juan County, Utah



SCALE: 1" = 40'

EVIDENCE OF BOND COVERAGE
EXHIBIT'S I-1 & I-2
(attached)

EXHIBIT I-1

United States Department of the Interior
Bureau of Land Management
Nationwide Oil & Gas Bond
Form 3104-8
Bond No. 69HF3973

EXHIBIT I-2

State of Utah Bond of Lessee
Bond No. TO 02 01 44 3

COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

STATE, NATIONWIDE, OR NATIONAL PETROLEUM RESERVE
IN ALASKA OIL AND GAS BOND

Act of February 25, 1920 (30 U.S.C. Sec. 181)

Act of August 7, 1947 (30 U.S.C. Sec. 351)

Department of the Interior Appropriations Act, Fiscal Year 1981 (P.L. 96-514)

Other Oil and Gas Leasing Authorities as Applicable

KNOW ALL MEN BY THESE PRESENTS, That we **AMPOL EXPLORATION (U.S.A.) INC.** and its subsidiaries
Ampolex (California), Inc., Ampolex (Texas), Inc. and Ampolex (Wyoming), Inc.
of **1225 17th Street, Denver, Colorado 80202**
as principal, and **Insurance Company of North America**
of **Philadelphia, Pennsylvania**

as surety, are held and firmly bound unto the United States of America in the sum of **One Hundred Fifty Thousand**
and no/100***** dollars (\$ **150,000.00*******), in lawful money
of the United States, which sum may be increased or decreased by a rider hereto executed in the same manner as this bond, for
the use and benefit of (1) the United States; (2) the owner of any of the land subject to the coverage of this bond, who has a
statutory right to compensation in connection with a reservation of the oil and gas deposits to the United States; and (3) any
lessee or permittee under a lease or permit issued by the United States prior to the issuance of an oil and gas lease for the
same land subject to this bond, covering the use of the surface or the prospecting for, or development of, other mineral deposits
in any portion of such land, to be paid to the United States. For such payment, well and truly to be made, we bind ourselves,
and each of our heirs, executors, administrators, and successors, jointly and severally.

- The coverage of this bond shall extend to all of the principal's holdings of federal oil and gas leases in the United States, including Alaska, issued or acquired under the Acts cited in Schedule A.
- The coverage of this bond extends only to the principal's holdings of federal oil and gas leases issued or acquired under the Acts cited and in the States named in Schedule A and to any other State or States that may be named in a rider attached hereto by the lessor with the consent of the surety.
- The coverage of this bond extends only to the principal's holdings of federal oil and gas leases within the National Petroleum Reserve in Alaska.

SCHEDULE A

Mineral Leasing Act of February 25, 1920 (30 U.S.C. Sec. 181), Acquired Lands Leasing Act of August 7, 1947 (30 U.S.C. Sec. 351), and other oil and gas leasing authorities as applicable.

NAMES OF STATES

The conditions of the foregoing obligations are such that, whereas the said principal has an interest in oil and gas leases issued under the Acts cited in this bond (1) as lessee, (2) as the approved holder of operating rights in all or part of the lands covered by such leases under operating agreements with the lessees, or (3) as designated operator or agent under such leases pending approval of an assignment or operating agreement, and

WHEREAS the principal is authorized to drill for, mine, ex-

tract, remove, and dispose of oil and gas deposits in or under the lands covered by the leases, operating agreements or designations and is obligated to comply with certain covenants and agreements set forth in such instruments; and

WHEREAS the principal and surety agree that without notice to the surety the coverage of this bond, in addition to the present holdings of the principal, shall extend to and include

1 Any oil and gas lease new or issued, or acquired by the principal in the States now named in Schedule A, or later named in a rider. The coverage to be continued to the principal's holdings under the Acts cited and to become effective immediately upon such issuance or upon departmental approval of a transfer in favor of the principal

2 Any operating agreement hereafter entered into or acquired by the principal affecting oil and gas leases in the States now named in Schedule A, or later named in a rider. The coverage shall become effective immediately upon departmental approval of the agreement or of a transfer of an operating agreement to the principal

3. Any designation subsequent hereto of the principal as operator or agent of a lessee under a lease issued pursuant to the Acts cited and covering lands in a State named in Schedule A, either presently or by rider. This coverage shall become effective immediately upon the filing of such a designation under a lease

4. Any extension of a lease covered by this bond, such coverage to continue without any interruption due to the expiration of the term set forth in the lease

Provided, that the surety may elect to have the additional coverage authorized under this paragraph become inapplicable as to all interests of the principal acquired more than thirty (30) days after the receipt of notice of such election by the Bureau of Land Management

The surety hereby waives any right to notice of, and agrees that this bond shall remain in full force and effect notwithstanding

1. A transfer or transfers, either in whole or in part, of any or all of the leases, or of the operating agreements, and further agrees to remain bound under this bond as to the interests either in the leases or in the operating agreements, or in both, retained by the principal when the approval of the transfer or transfers become effective

2 Any modification of a lease or operating agreement, or obligations thereunder, whether made or effected by commitment of such lease or operating agreement to unit, cooperative, communitization or storage, agreements, or development contracts, suspensions of operations or production, waivers, suspensions or changes in rental, minimum royalty, and royalties, compensatory royalty payments, or otherwise, and

WHEREAS the principal and surety hereby agree notwithstanding the termination of any lease or lease operating agreements or designations as operator or agent covered by this bond, whether the termination is by operation of law or otherwise, the bond shall remain in full force in effect as to all remaining leases, operating agreements, designations covered by the bond, and

WHEREAS the principal as to any lease or part of a lease or agreement to which he has been designated as operator or agent, or approved as operator, in consideration of being permitted to furnish this bond in lieu of the lessees, and by these presents does hereby bind himself to fulfill on behalf of each lessee all obligations of each such lease of the entire leasehold in the same manner and to the same extent as though he were the lessee, and

WHEREAS the principal and surety agree that the neglect or forbearance of said lessor in enforcing, as against the lessees of such lessor, the payment of rentals or royalties or the performance of any other covenant, condition or agreement of the leases, shall not, in any way, release the principal and surety, or either of them, from any liability under this bond, and

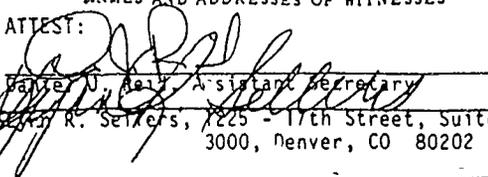
WHEREAS the principal and surety agree that in the event of any default under the leases, the lessor may comment and prosecute any claim, suit, action, or other proceeding against the principal and surety, or either of them, without the necessity of joining the lessees.

NOW, THEREFORE, IF said principle shall in all respects faithfully comply with all of the provisions of the lease referred to hereinbefore, then the above obligations are be void, otherwise to remain in full force and effect.

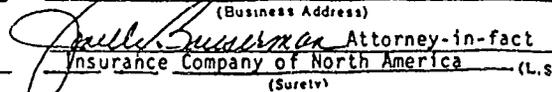
Signed on this 1st day of July 1987, in the presence of

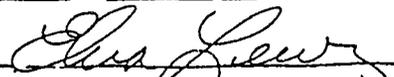
NAMES AND ADDRESSES OF WITNESSES

ATTEST:


Walter J. Kelly, Assistant Secretary
Earl R. Sellers, 7225 - 17th Street, Suite
3000, Denver, CO 80202


AMPOL EXPLORATION (U.S.A.) INC. (L.S.)
B. D. Emmett, Vice President
1215 17th Street
Denver, CO 80202
(Business Address)


Paul Swerman Attorney-in-fact
Insurance Company of North America (L.S.)
(Surety)
P. O. Box 27706
Houston, TX 77027
(Business Address)


Chris Lewis

RIDER DESIGNED TO EXTEND STATEWIDE OR NATIONWIDE BONDS TO INCLUDE LEASES
WHERE THE PRINCIPAL IS A DESIGNATED OPERATOR

In consideration for the payment of any additional premium charged for this rider and the acceptance of this rider by the Bureau of Land Management on behalf of the United States of America, the undersigned Principal and Surety hereby extend the coverage of Bond No. 69HF3973, to all of the leases where the Principal has been designated as the operator by the lessee(s) or holder(s) of the operating rights and the Principal hereby agrees to be bound by all the terms and conditions of any lease wherein the Principal is designated as operator and files such designation with an appropriate officer of the Bureau, whether or not the designation is subsequently revoked, until all the terms and conditions of the lease have been satisfied, including the payment of any rentals and royalties due and the proper plugging and abandonment of any wells drilled on such lease; providing, however, that this rider shall not act to increase the actual cumulative or potential liability of the Surety above the face amount of the bond, One Hundred Fifty Thousand and no/100**** Dollars (\$150,000.00*); providing, further, however, that any limitation of liability on the part of the Surety shall not apply to the Principal who shall be liable to the same extent as the party or parties designating the Principal as Operator.

Executed this 1st day of July, 19 87.

ATTEST:

[Signature]
Daniel J. Reid, Assistant Secretary

[Signature]
1221 - 17th Street, Suite 3000, Denver,
CO 80202

[Signature]
Witness and Address
P.O. Box 5748
DENVER, CO 80217

[Signature]
Witness and Address
P.O. Box 5748
DENVER, CO 80217

AMPOL EXPLORATION (U.S.A.) INC.

By [Signature]
Principal B. D. Emmett, Vice President

[Signature]
Surety Attorney-in-fact
Insurance Company of North America

[Signature]
Surety's Agent

RIDER

Bond No. 69HF3973

It is hereby agreed by and between the undersigned principal(s) and surety in consideration for the additional premium or consideration paid for this rider, if any, and the consent by the United States to terminate the liability on Bond No. 69HF3564) carrying the same principal(s) and Insurance Company of North America as surety, the undersigned principal(s) and surety hereby assume any and all liabilities that may be outstanding on Bond No. 69HF3564) including, but not limited to, the obligation properly to plug and abandon all wells existing on leases to which Bond No. 69HF3564) applies and any unpaid rentals or royalties heretofore accruing; provided, however, that this rider shall not act to increase the potential or cumulative liability of the surety above the face amount of the bond to which this rider attaches.

Executed this 1st day of July, 1987.

Witnesses: ATTEST.

[Signature]
Dwight J. Reid, Assistant Secretary

[Signature]
Witness: Lynn W. Sellers

[Signature]

AMPOL EXPLORATION (U.S.A.) INC.

By [Signature]
(Principal)

B. D. Emmett, Vice President

[Signature]
(Principal)

[Signature]
(Principal)

Insurance Company of North America

[Signature]
(Surety)
[Signature]
Attorney-in-fact

574164

POWER OF ATTORNEY
INSURANCE COMPANY OF NORTH AMERICA
PHILADELPHIA, PA.

Know all men by these presents: That INSURANCE COMPANY OF NORTH AMERICA, a corporation of the Commonwealth of Pennsylvania having its principal office in the City of Philadelphia, Pennsylvania pursuant to the following Resolution adopted by the Board of Directors of the said Company on May 28 1975, to wit

RESOLVED pursuant to Articles 3 6 and 5 1 of the By Laws the following Rules shall govern the execution for the Company of bonds undertakings recognizances contracts and other writings in the nature thereof

- (1) That the President or any Vice President Assistant Vice President Resident Vice-President or Attorney-in-Fact may execute for and in behalf of the Company any and all bonds undertakings recognizances contracts and other writings in the nature thereof, the same to be attested when necessary by the Secretary an Assistant Secretary or a Resident Assistant Secretary and the seal of the Company affixed thereto and that the President or any Vice President may appoint and authorize Resident Vice-Presidents Resident Assistant Secretaries and Attorneys-in-Fact to so execute or attest to the execution of all such writings on behalf of the Company and to affix the seal of the Company thereto
- (2) Any such writing and in accordance with these Rules shall be as binding upon the Company in any case as though signed by the President and attested by the Secretary
- (3) The signature of the President or a Vice-President and the seal of the Company may be affixed by facsimile on any power of attorney granted pursuant to this Resolution and the signature of a certifying officer and the seal of the Company may be affixed by facsimile to any certificate of any such power and any such power or certificate bearing such facsimile signature and seal shall be valid and binding on the Company
- (4) Such Resident Officers and Attorneys-in-Fact shall have authority to certify or verify copies of this Resolution the By-Laws of the Company and any affidavit or record of the Company necessary to the discharge of their duties
- (5) The passage of this Resolution does not revoke any earlier authority granted by Resolution of the Board of Directors on June 9, 1953

does hereby nominate, constitute and appoint ANTHONY A. JONES, JONELLE BAUSERMAN, and SUE DAVIDSON, all of the City of Denver, State of Colorado -----

-----, each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal and deliver on its behalf, and as its act and deed any and all bonds undertakings, recognizances, contracts and other writings in the nature thereof And the execution of such writings in pursuance of these presents, shall be as binding upon said Company, as fully and amply as if they had been duly executed and acknowledged by the regularly elected officers of the Company at its principal office

IN WITNESS WHEREOF, the said MICHAEL B. FODOR, Vice-President, has hereunto subscribed his name and affixed the corporate seal of the said INSURANCE COMPANY OF NORTH AMERICA this 19th day of JANUARY, 1983.....



(SEAL)

INSURANCE COMPANY OF NORTH AMERICA
Michael B. Fodor
MICHAEL B. FODOR Vice-President

STATE OF PENNSYLVANIA
COUNTY OF PHILADELPHIA } ss

On this 19th day of January, A D 19 83, before me, a Notary Public of the COMMONWEALTH OF PA. in and for the County of PHILADELPHIA came MICHAEL B. FODOR, Vice-President of the INSURANCE COMPANY OF NORTH AMERICA to me personally known to be the individual and officer who executed the preceding instrument, and he acknowledged that he executed the same, that the seal affixed to the preceding instrument is the corporate seal of said Company, that the said corporate seal and his signature were duly affixed by the authority and direction of the said corporation, and that Resolution adopted by the Board of Directors of said Company, referred to in the preceding instrument, is now in force

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at the City of PHILADELPHIA the day and year first above written

(SEAL)

LETITIA H. CLARK
Notary Public Phila. Phila. County
My Commission Expires August 22 1983

Letitia H. Clark
LETITIA H. CLARK Notary Public

My commission expires August 22 1983
I, the undersigned, ~~Notary~~ Secretary of INSURANCE COMPANY OF NORTH AMERICA, do hereby certify that the original POWER OF ATTORNEY, of which the foregoing is a full, true and correct copy, is in full force and effect
In witness whereof, I have hereunto subscribed my name as ~~Notary~~ Secretary, and affixed the corporate seal of the Corporation, this 1st day of July, 1983

(SEAL)

James S. Wyllie
JAMES S. WYLLIE Secretary

COPY

STATE OF UTAH
BOND OF LESSEE

KNOW ALL MEN BY THESE PRESENTS, that we Ampolex (Texas), Inc.
of 1225 17th St., Suite 3000, Denver, CO Address

as principal and Insurance Company of North America, as
surety, are held and firmly bound unto the State of Utah in the sum of Eighty Thousand
Dollars (\$ 80,000.00-) lawful money of the United States to be paid to the Board of
State Lands and Forestry, as agent for the State of Utah, for the use and benefit of the
State of Utah, and of any patentee or purchaser of any portion of the land covered by
the hereinafter described lease heretofore sold or which may hereafter be sold with a
reservation to the State of Utah, on the surface or of other mineral deposits of any
portion of such lands, for which payment, will and truly to be made, we bind ourselves,
and each of us, and each of our heirs, executors, administrators, successors, sub-
lessees, and assignees, jointly and severally by these presents.

Signed with our hands and seals this 3rd day of November in the
year of our Lord, 1989.

The condition of the foregoing obligation is such that,

WHEREAS, The State of Utah, as Lessor, issued a(n) Various
lease, Lease Number _____ and dated November 3, 1989, to _____,
as lessee (and said lease has been duly
assigned under date of November 3, 1989 to Ampolex (Texas), Inc.
to drill for, mine, extract, and remove all of the _____
deposits in and under the following described lands to wit:

All operations on state lands.

NOW, THEREFORE, THE principal shall be obligated to pay all monies, rentals,
royalties, cost of reclamation, damages to the surface and improvements thereon and any
other costs which arise by operation of the above described lease(s) accruing to the
Lessor and shall fully comply with all other terms and conditions of said lease, the
rules, regulations, and policies relating thereto of the Board of State Lands and
Forestry, Division of State Lands and Forestry, the Board of Oil, Gas and Mining, and
the Division of Oil, Gas and Mining as they may now exist or may from time to time be
modified or amended. This obligation is in effect even if the principal has conveyed
part of the purchase agreement interest to a successor in interest. If the principal
fully satisfies the above described obligations, then the surety's obligation to make
payment to the State of Utah is void and of no effect, otherwise, it shall remain in
full force and effect until released by the Division of State Lands and Forestry.

Signed, sealed and delivered
in the presence of

[Signature]
Witness
[Signature]
Witness

AMPOLEX (Texas) Inc.

By: [Signature] (SEAL)
B. D. Emmett, Vice President and General Manager

BONDING COMPANY - Insurance Company of North America

BY [Signature]
Susan Robertson, Attorney-In-Fact

Attest: _____

APPROVED AS TO FORM:
DAVID L. WILKINSON
ATTORNEY GENERAL

Resident Agent: n/a

Bonding Co. Address: 3050 152nd N.E.
Redmond, WA 98052

[Signature]

Corporate Seal of Bonding Company Must be Affixed.

Know all men by these presents. That INSURANCE COMPANY OF NORTH AMERICA, a corporation of the Commonwealth of Pennsylvania having its principal office in the City of Philadelphia, Pennsylvania pursuant to the following Resolution adopted by the Board of Directors of the said Company on December 5 1983 to wit

- "RESOLVED That pursuant to Articles 3.10 and 3.11 of the By-Laws, the following Rules shall govern the execution for the Company of bonds, undertakings, recognizances, contracts and other writings in the nature thereof
- (1) That the President, any Senior Vice President, any Vice President, any Assistant Vice President, or any Attorney-in-Fact may execute for and on behalf of the Company any and all bonds, undertakings, recognizances, contracts and other writings in the nature thereof the same to be attested when necessary by the Corporate Secretary or any Assistant Corporate Secretary and the seal of the Company affixed thereto and the President, any Senior Vice President, any Vice President or any Assistant Vice President may appoint and authorize, any other Officer (executive or non-executive) of the Company and Attorney-in-Fact to do execute or attest to the execution of all such writings on behalf of the Company and to affix the seal of the Company thereto
- (2) Any such writing executed in accordance with these Rules shall be as binding upon the Company in any case as though signed by the President and attested to by the Corporate Secretary
- (3) The signature of the President, or a Senior Vice President, or a Vice President, or an Assistant Vice President and the seal of the Company may be affixed by facsimile in any power of attorney granted pursuant to this Resolution, and the signature of a Consulting Officer and the seal of the Company may be affixed by facsimile to any certificate of any such power and any such power or certificate bearing such facsimile signature and seal shall be valid and binding on the Company
- (4) Such other Officers of the Company and Attorneys-in-Fact shall have authority to certify or verify copies of this Resolution, the By-Laws of the Company and any affidavits or record of the Company necessary to the discharge of their duties.
- (5) The passage of this Resolution does not revoke any other authority granted by Resolutions of the Board of Directors adopted on June 9 1953 May 26 1975 and March 23 1977 "

does hereby nominate constitute and appoint JOHN DEVINE, LOUIS R. WEBB, MARSHA CLESSON, SUSAN J. ROBERTSON, STEVEN R. JARAMILLO, R. H. MacPHERSON, JR., all of the City of L lleeve, State of Washington

Not valid for mortgage, note, loan, letter of credit, bank deposit, currency rate, interest rate or residual value guarantees.

each individually if there be more than one named its true and lawful attorney in-fact to make execute seal and deliver on its behalf, and as its act and deed any and all bonds, undertakings, recognizances, contracts and other writings in the nature thereof. And the execution of such writings in pursuance of these presents shall be as binding upon said Company as fully and amply as if they had been duly executed and acknowledged by the regularly elected officers of the Company at its principal office

IN WITNESS WHEREOF the said John B Fitzgerald Jr, Vice President, has hereunto subscribed his name and affixed the corporate seal of the said INSURANCE COMPANY OF NORTH AMERICA this 7th day of June 19 89



INSURANCE COMPANY OF NORTH AMERICA
by *John B Fitzgerald Jr*
JOHN B FITZGERALD JR, Vice President

COMMONWEALTH OF PENNSYLVANIA
COUNTY OF PHILADELPHIA

On this 7th day of June, A.D. 19 89, before me, a Notary Public of the Commonwealth of Pennsylvania in and for the County of Philadelphia came John B Fitzgerald Jr, Vice President of the INSURANCE COMPANY OF NORTH AMERICA to me personally known to be the individual and officer who executed the preceding instrument, and he acknowledged that he executed the same and that the seal affixed to the preceding instrument is the corporate seal of said Company; that the said corporate seal and his signature were duly affixed by the authority and direction of the said corporation and that Resolution, adopted by the Board of Directors of said Company referred to in the preceding instrument is now in force

I, the undersigned, Notary Public, HEREOF I have hereunto set my hand and affixed my official seal at the City of Philadelphia the day and year first above written



Julia Anna Rohara
Julia Anna Rohara - Notary Public
Philadelphia, Philadelphia County, Pa
My Commission Expires August 20, 1990

I, the undersigned Secretary of INSURANCE COMPANY OF NORTH AMERICA, do hereby certify that the original POWER OF ATTORNEY, of which the foregoing is a true and correct copy is in full force and effect

In witness whereof I have hereunto subscribed my name as Secretary and affixed the corporate seal of the Corporation, this 3rd day of November 19 89



James S Wyllie
James S Wyllie Secretary

THIS POWER OF ATTORNEY MAY NOT BE USED TO EXECUTE ANY BOND WITH AN EXCEPTION DATE AFTER June 7, 1991

FILING FOR WATER IN THE STATE OF UTAH

Rec by W
Fee Rec 150.00
Receipt # 27067
Microfilmed
Roll #
OIL GAS

JAN 02 1990

APPLICATION TO APPROPRIATE WATER TEMPORARY

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 Title 73, Chapter 3 of the Utah Code Annotated (1953, as amended)

* WATER RIGHT NO. 99 -- 104 * APPLICATION NO A T64317

1. *PRIORITY OF RIGHT- November 17 1989 * FILING DATE: November 17, 1989

2. OWNER INFORMATION

Name(s) Ampol Exploration (USA) Inc. * Interest 100 %
Address Seventeenth Street Plaza Suite 3000 1225 17th Street
City: Denver State Colorado Zip Code 80202
Is the land owned by the applicant? Yes _____ No X
(If "No", please explain in EXPLANATORY section)

3. QUANTITY OF WATER _____ cfs and/or 6.0 ac-ft

4. SOURCE Colorado River (Lake Powell) DRAINAGE.
which is tributary to _____
which is tributary to _____
POINT(S) OF DIVERSION _____ COUNTY, San Juan
S. 5950 ft & W. 1900 ft from NW Cor Sec 9, T34S, R14E, SLB&M

Description of Diverting Works Portable truck pump & tank trucks to place of use
* COMMON DESCRIPTION Farley Canyon/Lake Powell Hite South Quad

5 POINT(S) OF REDIVERSION
The water will be rediverted from _____ at a point.

Description of Rediverting Works _____

6 POINT(S) OF RETURN
The amount of water consumed will be _____ cfs or 6.0 ac-ft
The amount of water returned will be _____ cfs or _____ ac-ft
The water will be returned to the natural stream/source at a point(s) _____

7 STORAGE
Reservoir Name _____ Storage Period from _____ to _____
Capacity _____ ac ft Inundated Area _____ acres
Height of dam _____ feet
Legal description of inundated area by 40 acre tract(s) _____

* These items are to be completed by the Division of Water Rights

Appropriate

8. List any other water rig which will supplement this application, _____

9. NATURE AND PERIOD OF USE

Irrigation	From _____ to _____
Stockwatering	From _____ to _____
Domestic	From _____ to _____
Municipal	From _____ to _____
Mining	From _____ to _____
Power	From _____ to _____
Other Drilling	From <u>Dec. 1, 1982</u> to <u>Nov. 30, 1990</u>

10 PURPOSE AND EXTENT OF USE

Irrigation _____ acres Sole supply of _____ acres
 Stockwatering (number and kind) _____
 Domestic _____ Families and/or _____ Persons
 Municipal (name) _____
 Mining _____ Mining District in the _____ Mine
 Ores mined _____
 Power Plant name _____ Type _____ Capacity _____
 Other (describe) Dust suppression, Drilling fluid for (10) Wells

11 PLACE OF USE

Legal description of place of use by 40 acre tract(s) See attached sheet

12 EXPLANATORY

The following is set forth to define more clearly the full purpose of this application (Use additional pages of same size if necessary)
The water will be hauled to each location by Aable Trucking from Moab, Utah for Ampol Exploration

.....
 The applicant(s) hereby acknowledges that he/she/they are a citizen(s) of the United States of America or intends to become such a citizen(s) The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purposes herein described The undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein, at the time of filing, rests with the applicant(s)

Amopol Exploration
 Signature of Applicant(s)

Billy B. Hase agent

TEMPORARY

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

(Other conditions on reverse side)

5. Lease Designation and Serial No

ML-43736

6. If Indian, Allottee or Title Name

N/A

N/A

State

Well No
24-2

10. Field and Pool, or Wildcat

Wildcat (001)

11 Sec T, R, M, or Bk and Survey or Area

Section 2-T34S-R15E

12 County or Parish 13 State

San Juan Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL

DEEPEEN

PLUG BACK

b. Type of Well

Oil Well

Gas Well

Other

2. Name of Operator

Ampolex (Texas), Inc.

OIL, GAS & MINING

3. Address of Operator

1225 17th Street, Suite #3000, Denver, CO 80202

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

SE SW Sec. 2-T34S-R15E 400' FSL & 1,980' FWL

At proposed prod zone

SAME

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

43.9 miles west of Blanding, Utah

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

400

16 No of acres in lease

1,920

17 No of acres assigned to this well

40

18. Distance from proposed location to nearest well drilling completed or applied for, on this lease, ft

N/A

19 Proposed depth

2,600' Akah

20 Rotary or cable tools

Rotary

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

5,250' GR (Est.)

22 Approx date work will start

23.

PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
17-1/2"	13-3/8"	48#	60'	100 sks Class "B"
12-1/4"	8-5/8"	24#	260'	200 sks Class "G"
6-1/4"	4-1/2"	10.5#	2,600'	165 sks Light (Lead) 150 sks Class "G" (Tail)

1. Drill 17-1/2" hole and set 13-3/8" conductor @ 60', cement with good returns.
2. Drill 11" hole & set 8-5/8" surface casing @ 260', cement with good returns.
3. Log B.O.P. checks in daily drilling reports & drill 6-1/2" hole to 2,600'.
4. Conduct D.S.T. if warranted & run 4-1/2" casing if productive, cement w/good returns.
5. Run logs as needed, and perforate and stimulate as needed.

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

John R. Bunch

(303) 297-1000
Title Petroleum Engineer

Date 12/29/89

(This space for Federal or State office use)

Permit No.

43-037-31480

Approval Date

APPROVED BY THE STATE

Approved by

Title

Date

Conditions of approval, if any:

*See Instructions On Reverse Side

1-31-90
John R. Bunch
ALL SPACING: PL15-3-3

DEC 24 1989

OPERATOR Ampalex (Texas) Inc (No 385) DATE 1-4-90

WELL NAME State 24-2

SEC SE 1/4 T 34S R 15E COUNTY San Juan

43-037-31480
API NUMBER

State
TYPE OF LEASE

CHECK OFF:

PLAT

Statewide
 BOND

NEAREST WELL

LEASE

FIELD

POTASH OR OIL SHALE

PROCESSING COMMENTS:

No other well within 34S, 15E or within 920'
Water Permit 99-104 / TL 4317
RDC 1-4-90 / Process 1-25-90 Presite/Received 1-8-90
Archaeological Survey 11-28-89
Need exception location request / Received 1-23-90

APPROVAL LETTER:

SPACING: R615-2-3

N/A
UNIT

R615-3-2

N/A
CAUSE NO. & DATE

R615-3-3

STIPULATIONS:

- The reserve pit shall be lined with a
synthetic liner with a maximum CC St Leds
thickness of 12 mil. St. History
- To avoid conflict with Big Horn sheep mating and
lambling, construction and drilling activities shall
be restricted to the ^{time} period ~~from~~ ^{between} Jan. 1st to
April 15th.

0218T

OPERATOR Ampalex (Texas) Inc (No 385) DATE 1-4-90

WELL NAME State 24-2

SEC SESW 2 T 34S R 15E COUNTY San Juan

43-037-31480
API NUMBER

state
TYPE OF LEASE

CHECK OFF •

PLAT

^{statewide} BOND

NEAREST WELL

FIELD

POTASH OR

#3. Upon plugging and abandonment of the well, the site shall be reclaimed and recultured as required by the Utah Division of State Lands and Forestry. As discussed at the onsite predrill meeting, the following shall be required for ^{full} well site ~~restoration~~ restoration

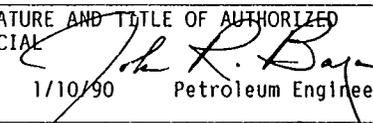
a. Contouring of well pad, water bars and ditches on access road

b. If adequate topsoil is not present for drilling in seed, broadcast seed

at double the rate with BCM recommended seed list.
c. ~~Substitute~~ Substitute yellow sweet clover for Mormon Tea (*Ephedra viridis*) and Hycrost Wheat grass for sand drop seed.

STATE ACTIONS

Mail to
RDCC Coordinator
116 State Capitol
Salt Lake City, Utah 84114

-
1. ADMINISTERING STATE AGENCY
OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203
2. STATE APPLICATION IDENTIFIER NUMBER:
(assigned by State Clearinghouse)
-
3. APPROXIMATE DATE PROJECT WILL START:
Upon Approval
-
4. AREAWIDE CLEARING HOUSE(S) RECEIVING STATE ACTIONS:
(to be sent out by agency in block 1)
Southeastern Utah Association of Local Governments
-
5. TYPE OF ACTION Lease Permit License Land Aquisition
 Land Sale Land Exchange Other_____
-
6. TITLE OF PROPOSED ACTION:
Application for Permit to Drill
-
7. DESCRIPTION:
Ampolex (Texas), Inc proposes to drill a wildcat well, the State #24-2, on state lease number ML-43736 in San Juan County, Utah. This action is being presented to RDCC for consideration of resource issues affecting state interests. The DOGM is the primary administrative agency in this case and must issue approval to drill before operations can commence.
-
8. LAND AFFECTED (site location map required) (indicate county)
SE/4, SW/4, Section 2, Township 34 South, Range 15 East, San Juan County, Utah
-
9. HAS THE LOCAL GOVERNMENT(S) BEEN CONTACTED?
Unknown
-
10. POSSIBLE SIGNIFICANT IMPACTS LIKELY TO OCCUR:
Degree of impact is based on the discovery of oil or gas in commercial quantities
-
11. NAME AND PHONE NUMBER OF DISTRICT REPRESENTATIVE FROM YOUR AGENCY NEAR PROJECT SITE, IF APPLICABLE.
Glenn Goodwin, Monticello, 587-2561
-
12. FOR FURTHER INFORMATION, CONTACT
- John Baza
PHONE: 538-5340
- SIGNATURE AND TITLE OF AUTHORIZED OFFICIAL

DATE 1/10/90 Petroleum Engineer
-



AMPOL EXPLORATION (U.S.A.) INC.

SEVENTEENTH STREET PLAZA SUITE 3060
1225 17TH STREET
DENVER, CO 80202 U.S.A

Phone (303) 297 1009

Telex (303) 297 2050

Subsidiaries
Ampolex (California), Inc
Ampolex (Orient), Inc
Ampolex (Texas) Inc
Ampolex (Wyoming) Inc

REC'D
JAN 23 1990

22 January 1990

OIL
446

Utah Board of Oil, Gas and Mining
3 Triad Center Suite 350
355 West Temple
Salt Lake City, Utah 84180-1203
ATTN Lisha Romero

RE: Application for Permit to Drill
State 24-2 400' FSL 1980' FWL Sec 2-T34S-R15E
San Juan County, Utah
Lease Number ML-43736
Request for Exception to R615-3-2

Dear Lisha:

Pursuant to our conversation today, I am requesting an exception to R615-3-2 for the proposed oil well drilling location, the State 24-2, located in San Juan County, Utah, as detailed above. The only other landowner within a 460 foot radius of the location is the Bureau of Land Management, and that land is leased by Ampolex. All other land in the 460 foot radius is also currently leased by Ampolex. This location was picked primarily based on seismic data and Ampolex hopes to gain a measure of sub-surface control for the seismic line we shot through this location. If there are any other questions pertaining to the processing of this or another Application for Permit to Drill, please do not hesitate to call me in Denver at 303-297-1000.

For and on behalf of
AMPOLEX (TEXAS), INC.

John A. Brooks
Petroleum Engineer
AMPOL EXPLORATION (U.S.A.), INC

SOUTHEASTERN UTAH ASSOCIATION OF LOCAL GOVERNMENTS

HAROLD JACOBS
Chairman
WILLIAM D. HOWELL
Executive Director

P. O. Drawer A1 • Price, Utah 84501 • Telephone 637-5144

AREAWIDE CLEARINGHOUSE A-95 REVIEW

1401-07

NOI ___ Preapp ___ App ___ State Plan ___ State Action X Subdivision ___ (ASP # 1-116-19)

Other (indicate) _____ SAI Number UT9001120-030

Applicant (Address, Phone Number):

Federal Funds:
Requested: _____

Div. of Oil, Gas and Mining
355 North West Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

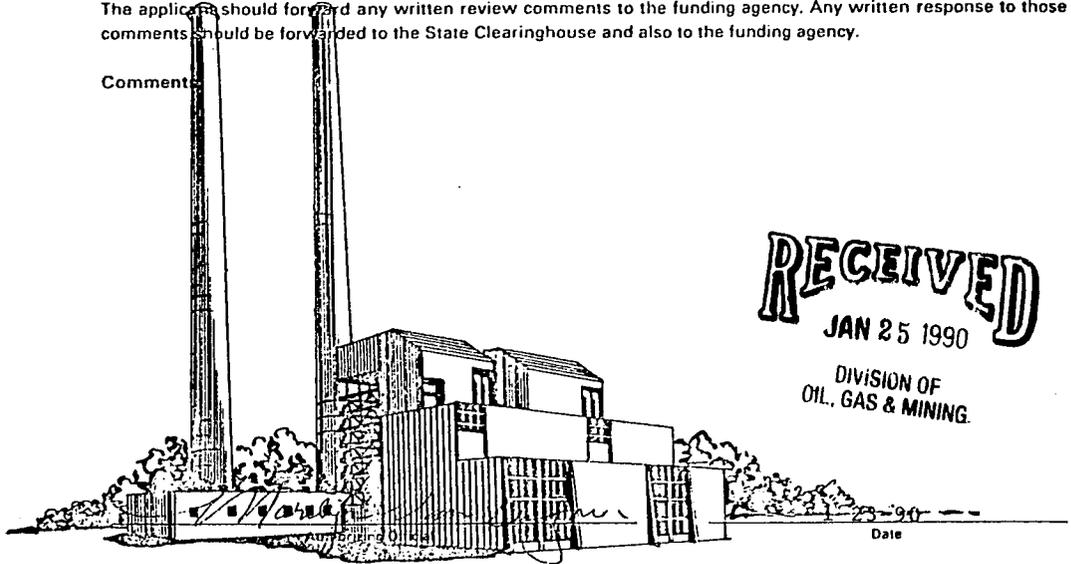
Title:

APPLICATION FOR PERMIT TO DRILL

- No comment
- See comments below
- No action taken because of insufficient information
- Please send your formal application to us for review. Your attendance is requested

The applicant should forward any written review comments to the funding agency. Any written response to those comments should be forwarded to the State Clearinghouse and also to the funding agency.

Comments:



RECEIVED
 JAN 25 1990
 DIVISION OF
 OIL, GAS & MINING.

Date



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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

355 West North Temple
3 Triad Center Suite 350
Salt Lake City Utah 84180 1203
801 538 5340

January 31, 1990

Ampolex (Texas), Incorporated
1225 17th Street, Suite #3000
Denver, Colorado 80202

Gentlemen:

Re: State #24-2 - SE SW Sec 2, T. 34S, R. 15E - San Juan County, Utah
400' FSL, 1980' FWL

Approval to drill the referenced well is hereby granted in accordance with Rule R615-3-3, Oil and Gas Conservation General Rules, subject to the following stipulations:

1. The reserve pit shall be lined with a synthetic liner with a minimum thickness of 12 mil.
2. To avoid conflict with Bighorn sheep mating and lambing, construction and drilling activities shall be restricted to the time period between January 1st to April 15th.
3. Upon plugging and abandonment of the well, the site shall be reclaimed and recontoured as required by the Utah Division of State Lands and Forestry. As discussed at the onsite predrill meeting, the following shall be required for full well site restoration:
 - a) Contouring of well pad, water bars and ditches on access road
 - b) If adequate topsoil is not present for drilling in seed, broadcast seed at double the rate with BLM recommended seed list
 - c) Substitute yellow sweet clover for Mormon Tea (*Ephedra Viridis*) and Hycrest Wheatgrass for sand dropseed.

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

1. Spudding notification within 24 hours after drilling operations commence
2. Submittal of an Entry Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.

3. Submittal of the Report of Water Encountered During Drilling, Form 7.
4. Prompt notification if it is necessary to plug and abandon the well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or Jim Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Rule R615-3-20, Gas Flaring or Venting, Oil and Gas Conservation General Rules.
6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
7. 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 43-037-31480.

Sincerely,



R. J. Birth
Associate Director, Oil & Gas

lcr
Enclosures
cc: Bureau of Land Management
Div. of State Lands & Forestry
D. R. Nielson
J. L. Thompson
WE14/9-10



AMPOL EXPLORATION (U.S.A.) INC.

SEVENTEENTH STREET PLAZA, SUITE 3000
1225 17TH STREET
DENVER CO 80202 U.S.A.

Phone (303) 297 1000

Telex (303) 297 2050

Subsidiaries

Ampolex (California), Inc.
Ampolex (Oman), Inc.
Ampolex (Texas), Inc.
Ampolex (Wyoming), Inc.

December 20, 1990

Utah Board of Oil, Gas and Mining
3 Triad Center, Suite #350
355 West Temple
Salt Lake City, Utah 84180-1203

ATTN: Mr. Jim Thompson

RE: Application for Permit to Drill
San Juan County, Utah

Dear Mr. Thompson:

Pursuant to our conversation today, Ampolex (Texas), Inc. is requesting an extension for four (4) Application for Permit to Drill permits scheduled to expire on January 31, 1991. The pertinent information on these four APD's are listed below.

State #24-2	SE SW	Section 2-T34S-R15E	API No. 43-037-31480
State #21-32	NE NW	Section 32-T34S-R15E	API No. 43-037-31481
State #11-36	NW NW	Section 36-T34S-R15E	API No. 43-037-31482
State #32-16	SW NE	Section 16-T35S-R15E	API No. 43-037-31483

I have enclosed a copy of each of the approved APD's for your information. Please do not hesitate to call should you have any questions.

Sincerely,

For and on behalf of
AMPOLEX (TEXAS), INC.

Richard L. Vine
Senior Engineer
AMPOL EXPLORATION (U.S.A.) INC.

RLV/dc
Enclosures

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 1-2-91
BY:



AMPOL EXPLORATION (U.S.A.) INC.

SEVENTEENTH STREET PLAZA, SUITE 3000
1225 17TH STREET
DENVER, CO 80202 U.S.A

Phone (303) 297-1000

Telecopy (303) 297-2010

Subsidiaries
Ampolex (California) Inc
Ampolex (Orient) Inc
Ampolex (Texas) Inc
Ampolex (Wyoming) Inc

December 13, 1991

Utah Board of Oil, Gas and Mining
3 Triad Center, Suite #350
355 West Temple
Salt Lake City, Utah 84180-1203

ATTN: Mr. Jim Thompson

RF: Request for Extension
Application for Permit to Drill
San Juan County, Utah

Dear Mr. Thompson:

Pursuant to our conversation yesterday, Ampolex (Texas), Inc. is requesting an extension for four (4) Application for Permit to Drill permits scheduled to expire on January 31, 1992. Sundry Notices requesting extensions for these four APD's are attached.

If you have any questions, please feel free to contact this office.

Sincerely,

For and on behalf of
AMPOLEX (TEXAS), INC.

Richard L. Vine
Senior Engineer
AMPOLEX (USA), INC.

RLV/dc
Attachments

RECEIVED

DEC 16 1991

DIVISION OF
OIL GAS & MINING

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

<p>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.)</p>		<p>5. LEASE DESIGNATION & SERIAL NO. ML-43736</p>	
<p>1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/></p>		<p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A</p>	
<p>2. NAME OF OPERATOR Amplolex (Texas), Inc.</p>		<p>7. UNIT AGREEMENT NAME N/A</p>	
<p>3. ADDRESS OF OPERATOR 1225 17th Street, Suite #3000, Denver, Colorado 80202</p>		<p>8. FARM OR LEASE NAME State</p>	
<p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface SE SW Sec. 2-T34S-R15E 400' FSL & 1,980' FWL At proposed prod. zone</p>		<p>9. WELL NO. 24-2</p>	
<p>14. API NO. 43-037-31480</p>		<p>10. FIELD AND POOL, OR WILDCAT Wildcat (001)</p>	
<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5,250' GR (Est.)</p>		<p>11. SEC., T., A., M., OR BLK. AND SURVEY OR AREA Section 2-T34S-R15E</p>	
<p>12. COUNTY San Juan</p>		<p>13. STATE Utah</p>	

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) <u>Request for Extension</u>		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	
APPROX. DATE WORK WILL START _____		DATE OF COMPLETION _____	

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.)

* Must be accompanied by a cement verification report.

Request (1) one year extension to Application for Permit to Drill.

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DEC 16 1991

DIVISION OF
OIL GAS & MINING

DATE: 12-18-91
JAM Matthew

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

SIGNED Richard D. Vane TITLE Senior Engineer DATE 12/13/91

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

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

5. LEASE DESIGNATION AND SERIAL NO. ML-43736
6. IF INDIAN, ALLOTTEE OR TRUST NAME --
7. UNIT AGREEMENT NAME --
8. FARM OR LEASE NAME State
9. WELL NO. 24-2
10. FIELD AND POOL, OR WILDCAT Wildcat (001)
11. SEC., T., R., M., OR BLM. SURVEY OR AREA Section 2-T34S-R15E
12. COUNTY OR PARISH 13. STATE San Juan Utah

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"/>	
2. NAME OF OPERATOR Ampolex (Texas), Inc.	
3. ADDRESS OF OPERATOR 1225 17th Street, Suite #3000, Denver, CO 80202	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below) At surface 400' FSL & 1,980' FWL SE SW	
14. API NUMBER 43-037-31480	15. ELEVATIONS (Show whether DF, ST, OR, etc.) 5,250' GR (Est.)

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"/>	FILL 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) <input type="checkbox"/>	(Other) <input type="checkbox"/>

(Other) **Request for Extension** (NOTE: Report results of multiple completion or 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.)*

Request for one (1) year extension to Application for Permit to Drill due to drilling a ten well program with two rigs. Will not be able to drill by expiration of Application for Permit to Drill.

RECEIVED

NOV 09 1992

DIVISION OF
OIL GAS & MINING

Richard L. Vane

18. I hereby certify that the foregoing is true and correct
SIGNED Richard L. Vane TITLE Senior Engineer DATE 11/05/92

(This space for Federal or State office use)
APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY



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

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

355 West North Temple
3 Triad Center Suite 150
Salt Lake City, Utah 84118-1203
801 538 5340
801 359 3040 (Fax)
801 538 5319 (TDD)

February 14, 1994

Ampolex (Texas), Inc.
1225 17th Street, Suite #3000
Denver, Colorado 80202

Re: Application for Permit to Drill
Well No. State #24-2
SESW, Sec. 2, T. 34S, R. 15E
San Juan County, Utah
API No 43-037-31480

Dear Sirs

Your referenced application submitted for approval was approved January 31, 1990. In accordance with R 649-3-4-4, the Division rescinds its approval of the referenced application.

In order to drill this well in the future, a new application will have to be submitted.

Yours truly,

A handwritten signature in cursive script that reads "Frank Matthews".

Frank Matthews
Petroleum Engineer

cc R J Firth
State Lands and Forestry
Well file