

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG ELECTRIC LOGS  WATER SANDS LOCATION INSPECTED SUB. REPORT/abd.  
 990301 LAID off 2/26/99!

DATE FILED: **AUGUST 8, 1997**

LAND: FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. INDIAN #  
 DRILLING APPROVED: **FEBRUARY 10, 1998** 14-20-162-3529

SPUDDED IN

COMPLETED: PUT TO PRODUCING:

INITIAL PRODUCTION

GRAVITY API

GOR

PRODUCING ZONES

TOTAL DEPTH

WELL ELEVATION

DATE ABANDONED: **LAID 2-26-99**

FIELD: **BRUNDAGE CANYON**

UNIT

COUNTY: **DUCHESNE**

WELL NO: **UTE TRIBAL 13-20** API NO. **43-013-31662**

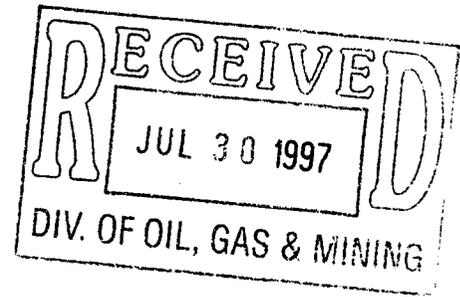
LOCATION FT. FROM (N) (S) LINE. FT. FROM (E) (W) LINE. 1/4 - 1/4 SEC.

TWP.	RGE	SEC.	OPERATOR	TWP.	RGE	SEC.	OPERATOR
				5S	4W	20	BARRETT RESOURCES

BARRETT RESOURCES CORPORATION



July 23, 1997



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

**Re: Request for Exception Location for  
Ute Tribal #13-20 Well, Section 20  
Township 5 South-Range 4 West, USM  
Duchesne County, Utah**

Gentlemen:

Barrett Resources Corporation requests approval to drill an unorthodox location in Section 20, Township 5 South, Range 4 West, USM, Duchesne County, Utah. The Ute Tribal #13-20 has been staked 909' FWL and 689' FSL of Section 20.

The reason for this exception location request is based on topographic reasons, which interferes with a location pursuant to the general spacing pattern set forth under Utah Administrative Code R649-3-2(1).

Barrett Resources Corporation owns 100% of the applicable oil and gas leasehold working interest (BIA Lease No. 14-20-H62-3529) within a 600 foot radius of the proposed exception location.

Approval of this exception location for the Ute Tribal #13-20 is requested as the best location for the drilling of this well within the SW/4SW/4 of Section 20, Township 5 South, Range 4 West, USM.

Very truly yours,

**BARRETT RESOURCES CORPORATION**

  
Brian A. Kuhn  
Division Landman

BAK/cla

T5S, R4W, U.S.B.&M.

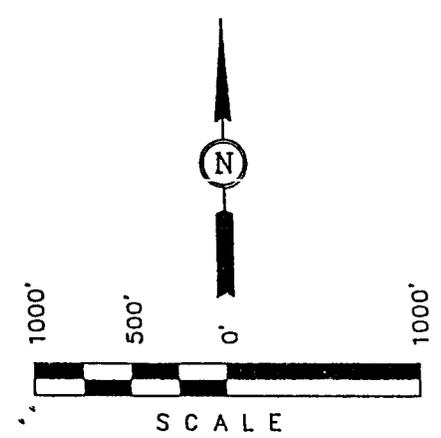
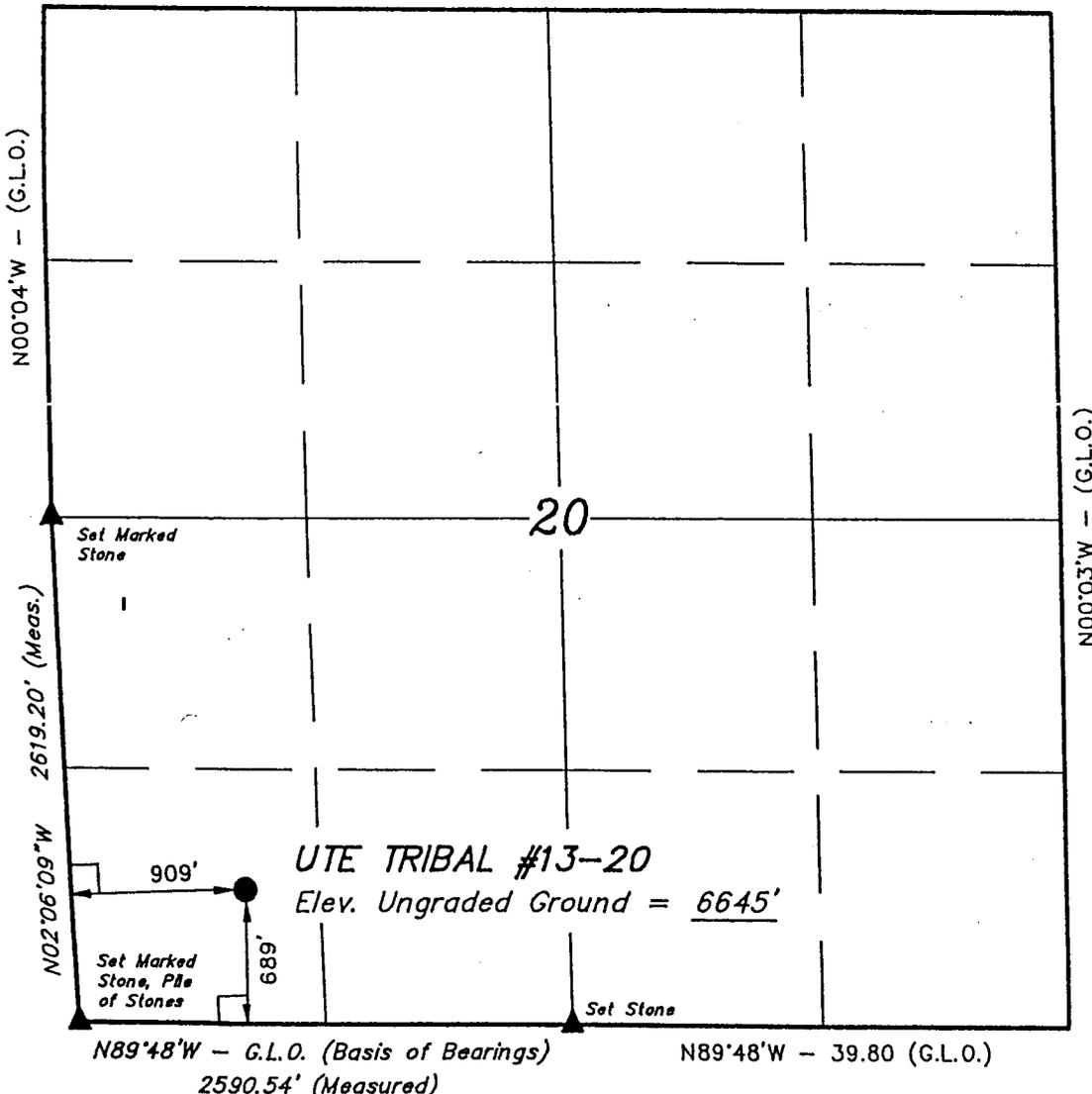
BARRETT RESOURCES CORPORATION

Well location, UTE TRIBAL #13-20, located as shown in the SW 1/4 SW 1/4 of Section 20, T5S, R4W, U.S.B.&M. Duchesne County, Utah.

N89°45'W - 79.82 (G.L.O.)

BASIS OF ELEVATION

SPOT ELEVATION AT THE SOUTHEAST CORNER OF SECTION 18, T5S, R4W, U.S.B.&M. TAKEN FROM THE DUCHESNE SE, QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6559 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

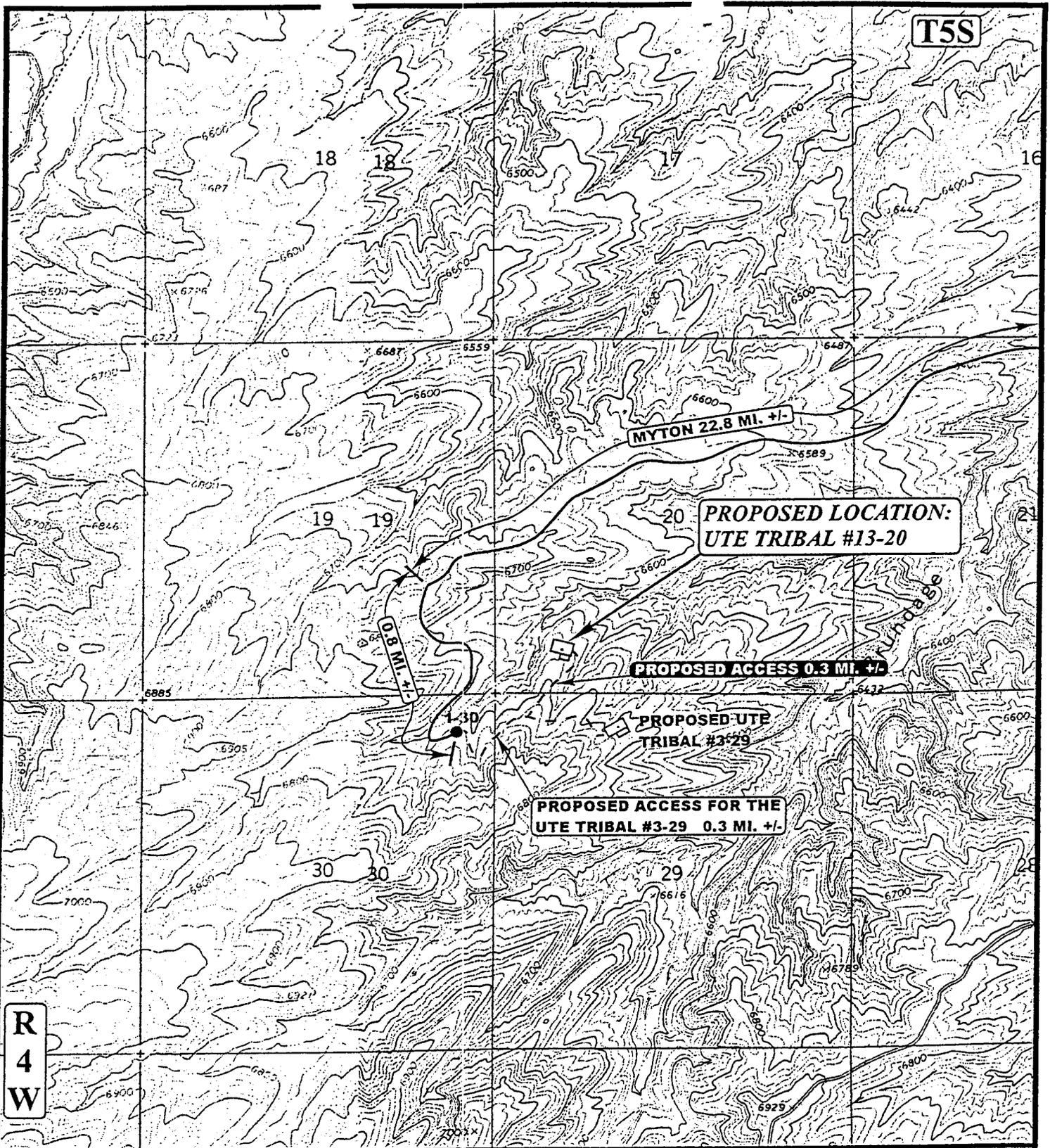
*Robert L. Hays*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 181319  
 STATE OF UTAH

LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

**UINTAH ENGINEERING & LAND SURVEYING**  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 06-03-97	DATE DRAWN: 06-17-97
PARTY G.S. J.W. D.R.B.	REFERENCES G.L.O. PLAT	
WEATHER WAPU	FILE	



**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING ROAD



**BARRETT RESOURCES CORPORATION**

UTE TRIBAL #13-20  
 SECTION 20, T5S, R4W, U.S.B.&M.  
 689' FSL 909' FWL



**Utah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (801) 789-1017 \* FAX (801) 789-1018  
 Email: uels@easilink.com

**TOPOGRAPHIC** **6** **6** **97**  
 MAP MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: D.COX REVISED: 00-00-00



**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

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

**1a. TYPE OF WORK**  
 DRILL       DEEPEN       PLUG BACK

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

**2. NAME OF OPERATOR**  
 BARRETT RESOURCES CORPORATION

**3. ADDRESS OF OPERATOR**  
 PO BOX 290 \* NEOLA, UTAH \* 84053

**4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\***  
 At surface: SW 1/4, SW 1/4, 689' FSL, 909' FWL, SEC 20, T5S, R4W  
 At proposed prod. zone: 210      277

**14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\***  
 24.2 MILES SOUTH OF MYTON, UTAH

**10. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)**      606'

**18. NO. OF ACRES IN LEASE**      640'

**17. NO. OF ACRES ASSIGNED TO THIS WELL**      40 ACRES

**19. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.**      1,400'

**19. PROPOSED DEPTH**      5890'

**20. ROTARY OR CABLE TOOLS**  
 ROTARY

**21. ELEVATIONS (Show whether DF, RT, GR, etc.)**      6645'

**22. APPROX. DATE WORK WILL START\***  
 OCT 18, 1997

**5. LEASE DESIGNATION AND SERIAL NO.**  
 14-20-H62-3529

**6. IF INDIAN, ALLOTTEE OR TRIBE NAME**  
 UTE TRIBAL

**7. UNIT AGREEMENT NAME**

**8. FARM OR LEASE NAME**

**9. WELL NO.**  
 UTE TRIBAL 13-20

**10. FIELD AND POOL, OR WILDCAT**

**11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA**  
 SEC 20, T5S, R4W

**12. COUNTY OR PARISH**      **13. STATE**  
 DUCHESNE      UTAH

**23. PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/2"	8-5/8"	24	280'	TO SURFACE
7-7/8"	5-1/2"	15.5	5890'	CMT TOP TO COVER OIL SHALE

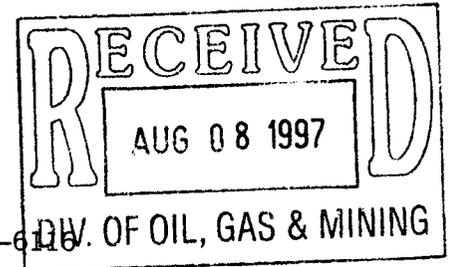
OPERATOR REQUESTS PERMISSION TO DRILL THE SUBJECT WELL.  
 PLEASE SEE THE ATTACHED 10 POINT AND THE 13 POINT SURFACE USE PLAN

IF YOU REQUIRE ADDITIONAL INFORMATION PLEASE CONTACT:

D.P. BARONE  
 PO BOX 290  
 NEOLA, UT 84053

OFFICE: 801-353-4625

CELLULAR: 801-828-6116



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

**24.**  
 SIGNED D.P. Barone      TITLE PRODUCTION SUPERVISOR      DATE 8/4/97

(This space for Federal or State office use)

PERMIT NO. 43-013-21662      APPROVAL DATE \_\_\_\_\_

APPROVED BY John R. Baya      TITLE Associate Director Utah DDCM      DATE 2/10/98

CONDITIONS OF APPROVAL, IF ANY:

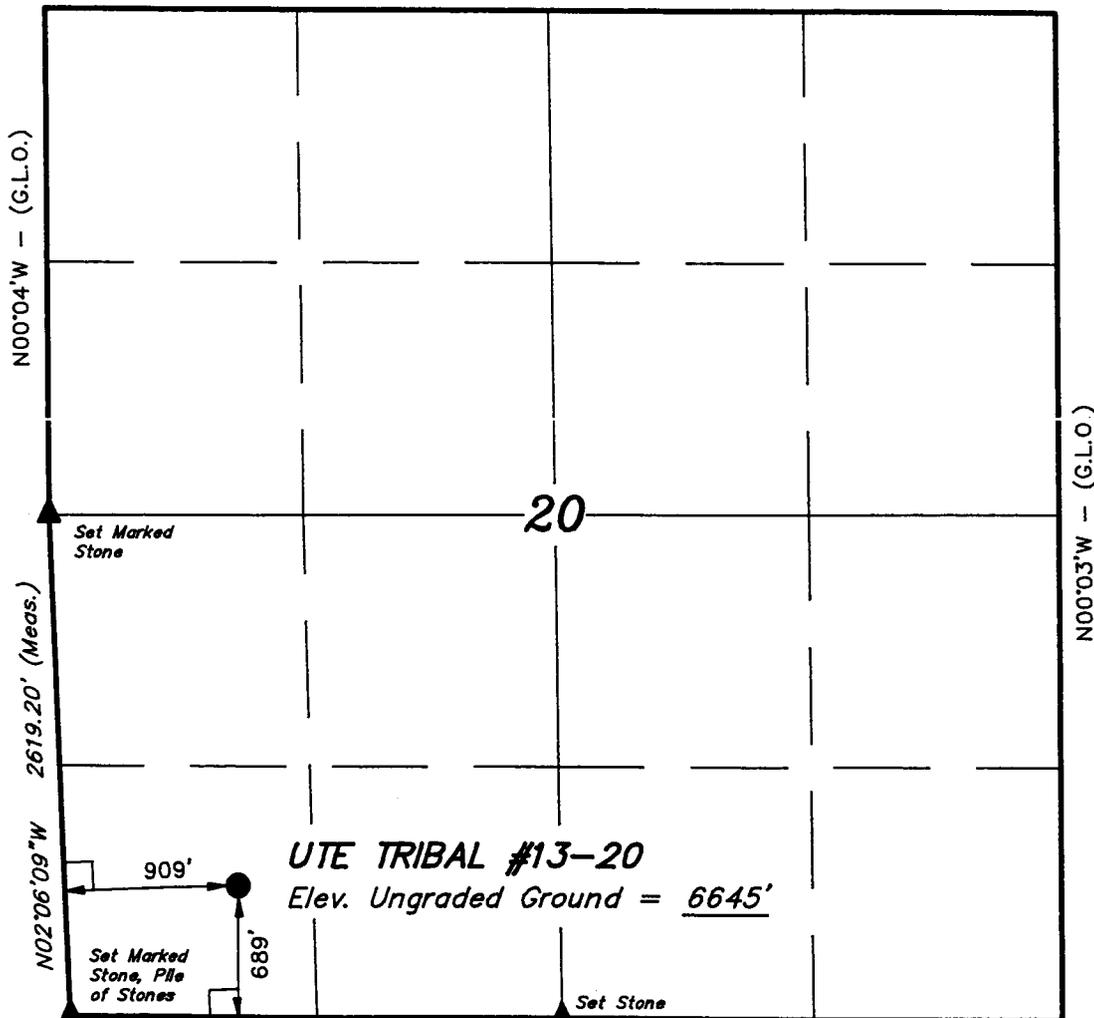
\*See Instructions On Reverse Side

# T5S, R4W, U.S.B.&M.

## BARRETT RESOURCES CORPORATION

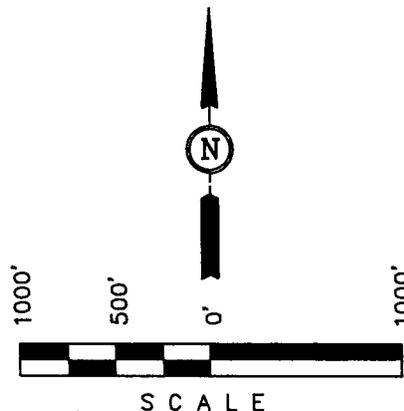
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### BASIS OF ELEVATION

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REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 10349  
 STATE UTAH

N89°48'W - G.L.O. (Basis of Bearings)      N89°48'W - 39.80 (G.L.O.)  
 2590.54' (Measured)

### LEGEND:

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- ▲ = SECTION CORNERS LOCATED.

### UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 06-03-97	DATE DRAWN: 06-17-97
PARTY G.S.    J.W.    D.R.B.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE BARRETT RESOURCES CORP.	

**SELF-CERTIFICATION STATEMENT**

THE FOLLOWING SELF -CERTIFICATION STATEMENT IS PROVIDED PER FEDERAL REQUIREMENTS DATED JUNE 15, 1988.,

PLEASE BE ADVISED THAT **BARRETT RESOURCES CORPORATION** IS CONSIDERED TO BE THE OPERATOR OF THE FOLLOWING WELL.

WELL UTE TRIBAL 13-20  
SW 1/4, SW1/4, 689' FSL, 909' FWL, SECTION 20, T.5 S, R. 4 W.  
LEASE BIA-14-20-H62-3529  
DUCHESNE, COUNTY, UTAH

BARRETT RESOURCES CORP. IS RESPONSIBLE UNDER THE TERMS OF THE LEASE FOR THE OPERATIONS CONDUCTED UPON THE LEASE LANDS.

BARRETT ID# 84-0832476  
BLM BOND # 6101757342



D.P. BARONE  
PRODUCTION SUPERVISOR  
BARRETT RESOURCES CORP.  
BOX 290  
NEOLA, UT. 84053  
801-353-4625

## **HAZARDOUS MATERIAL DECLARATION**

FOR WELL NO. UTE 13-20

LEASE NO. 14-20-H62-3529

BARRETT RESOURCES CORP. GUARANTEES THAT DURING THE DRILLING AND COMPLETION OF THE ABOVE REFERENCED WELLS, WE WILL NOT USE, PRODUCE, OR STORE, TRANSPORT OR DISPOSE 10,000# ANNUALLY OF ANY OF THE HAZARDOUS CHEMICALS CONTAINED IN THE ENVIRONMENTAL PROTECTION AGENCY'S CONSOLIDATED LIST OF CHEMICALS SUBJECT TO REPORTING UNDER TITLE III SUPER AMENDMENTS AND REAUTHORIZATION ACT ( SARA ) OF 1986.

BARRETT RESOURCES CORP. GUARANTEES THAT DURING THE DRILLING AND COMPLETION OF THE ABOVE REFERENCED WELLS, WE WILL USE, PRODUCE, STORE, TRANSPORT, OR DISPOSE LESS THAN THE THRESHOLD PLANNING QUANTITY(TPQ) OF ANY EXTREMELY HAZARDOUS SUBSTANCES AS DEFINED IN 40 CFR 355.

## TEN POINT PLAN

BARRETT RESOURCES CORPORATION

UTE TRIBAL 13-20

SURFACE LOCATION SW 1/4, SW 1/4, 689' FSL, 909' FWL, SECTION 20, T. 5 S., R. 4 W.

### 1. SURFACE FORMATION:

UINTAH

### 2. ESTIMATED FORMATION TOPS AND DATUM:

<u>FORMATION</u>	<u>DEPTH</u>
Uintah	<u>Surface</u>
Green River	<u>1323'</u>
Oil Shale	<u>2589'</u>
Tgr3	<u>3624'</u>
Douglas Creek	<u>4394'</u>
Castle Peak	<u>5316'</u>
Uteland Butte Ls	<u>5736'</u>
Total Depth	<u>5890' TD</u>

### 3. PRODUCING FORMATION DEPTH:

FORMATION OBJECTIVE INCLUDE THE GREEN RIVER AND ITS SUBMEMBERS.

OFF SET WELLS: NONE

**4. PROPOSED CASING:**

<u>HOLE SIZE</u>	<u>CASING</u>	<u>WEIGHT/FT.</u>	<u>GRADE &amp; THREAD</u>	<u>SET @</u>	<u>CASING</u>
12 1/2	8 5/8	24	J-55/STC	280	NEW/USED
7 7/8	5 1/2	15.5	J-55/LTC	5890'TD	NEW/USED

<u>CEMENT PROGRAM: SURFACE CASING</u>		<u>CEMENT</u>	<u>CEMENT AMOUNT</u>
8 5/8		CLASS G	150 SKS +20 %
	<u>CASING</u>		
5 1/2	FLUID 1 LEAD CMT	FLUID WT.	11.00 LB/GAL
	HIFILL STANDARD	FLUID YIELD	3.81 FT3/ SKS
	1% ECONOLITE ( EXTENDER)	FLUID WATER RATIO	22.91 GAL/SKS
	.25 LB/SK FLOCELE ( LOST CIRC.)	TOTAL MIXING FLUID	49 BBLS
	10 LB/SK GILSONITE ( LOST CIRC.)	APPROX. TOP FLUID	2000 FT
	16 % HALLIBURTON GEL(EXTENDER)	CALCULATED FILL	1600 FT
	3 % SALT ( 3%) ( ACCELERATOR )	FLUID VOLUME	59 BBLS
	.2 % HR-7 RETARDER	CALCULATED VOLUME	87.00 SKS.
	MIXED W/ FRESH WATER	PROPOSED VOLUME	90.00 SKS
5 1/2	FLUID 2 TAIL CMT 50:50 POZ	FLUID WT.	13.4 LB/GAL
	.2 % FWCA	FLUID YIELD	1.49 FT3/SKS
	.2% HALAD 322	FLUID WATER RATIO	7.27 GAL/SKS
	2 % HALLIBURTON GEL	TOTAL MIX FLUID	55.3 BBLS
	3% KCL ( BWOW)	APPROX. TOP FLUID	3600
	3 LB/SK SILICALITE	CALC. FILL	2290'
	1 LB/SK GRANULITE	FLUID VOLUME	82.6 BBLS
		CALC. VOLUME	319 SKS
		PROPOSED VOLUME	320 SKS

**5. BOP AND PRESSURE CONTAINMENT DATA:**

THE ANTICIPATED BOTTOM HOLE PRESSURE WILL BE LESS THAN 3000 PSI.

A 3000 PSI WP BOP SYSTEM AS DESCRIBED IN THE BOP AND PRESSURE CONTAINMENT DATA ( ATTACHED ) WILL BE INSTALLED AND MAINTAINED FROM THE 8 5/8 SURFACE CASING. THE BOP SYSTEM INCLUDING THE CASING WILL BE PRESSURE TESTED TO THE MINIMUM STANDARDS SET FORTH IN " ON SHORE ORDER #2". THE BOP WILL BE MECHANICALLY CHECKED DAILY DURING DRILLING OPERATION.

**6. MUD PROGRAM:**

<u>INTERVAL</u>	<u>MUD WT. LBS/GAL</u>	<u>VISCOSITY</u>	<u>FLUID LOSS</u>	<u>MUD TYPE</u>
		<u>SEC./QT.</u>	<u>MI/30 MINS</u>	
0-280	AIR/ CLEAR WATER	-----	NO CONTROL	WATER/GEL
.280-2000	CLEAR WATER	-----	NO CONTROL	WATER/GEL
2000-TD	8.4 - 8.6	30	NO CONTROL	5 % KCL

**7. AUXILIARY EQUIPMENT:**

UPPER KELLY COCK, FULL OPENING STABBING VALVE, 2 1/2 CHOKE MANIFOLD AND PIT LEVEL INDICATOR.

**8. TESTING, CORING, SAMPLING, AND LOGGING:**

- A) TEST: NONE ARE ANTICIPATED
- B) CORING: THERE IS THE POSSIBILITY OF SIDEWALL CORING.
- C) SAMPLING: EVERY 10 FT FROM 2000 ' TO TD.
- D) LOGGING:

<u>TYPE</u>	<u>INTERVAL</u>
DLL/SFL W/GR AND SP	TD TO SURFACE CASING
FDC/CNL W/GR AND CAL	TD TO SURFACE CASING

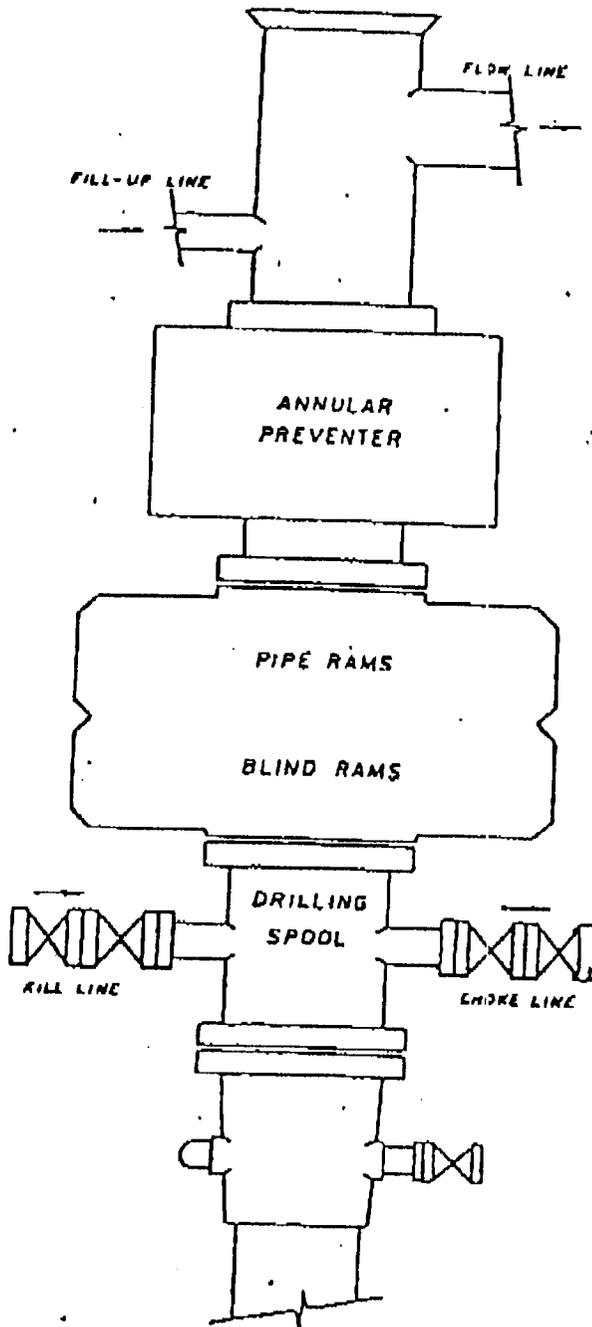
**9. ABNORMALITIES ( INCLUDING SOUR GAS):**

NO ABNORMAL PRESSURES OR TEMPERATURES OR OTHER HAZARDS ARE ANTICIPATED. OIL AND GAS SHOWS ARE ANTICIPATED IN THE GREEN RIVER FORMATION. OTHER WELLS IN THE AREA HAVE NOT ENCOUNTERED OVER- PRESSURED ZONES OR H2S.

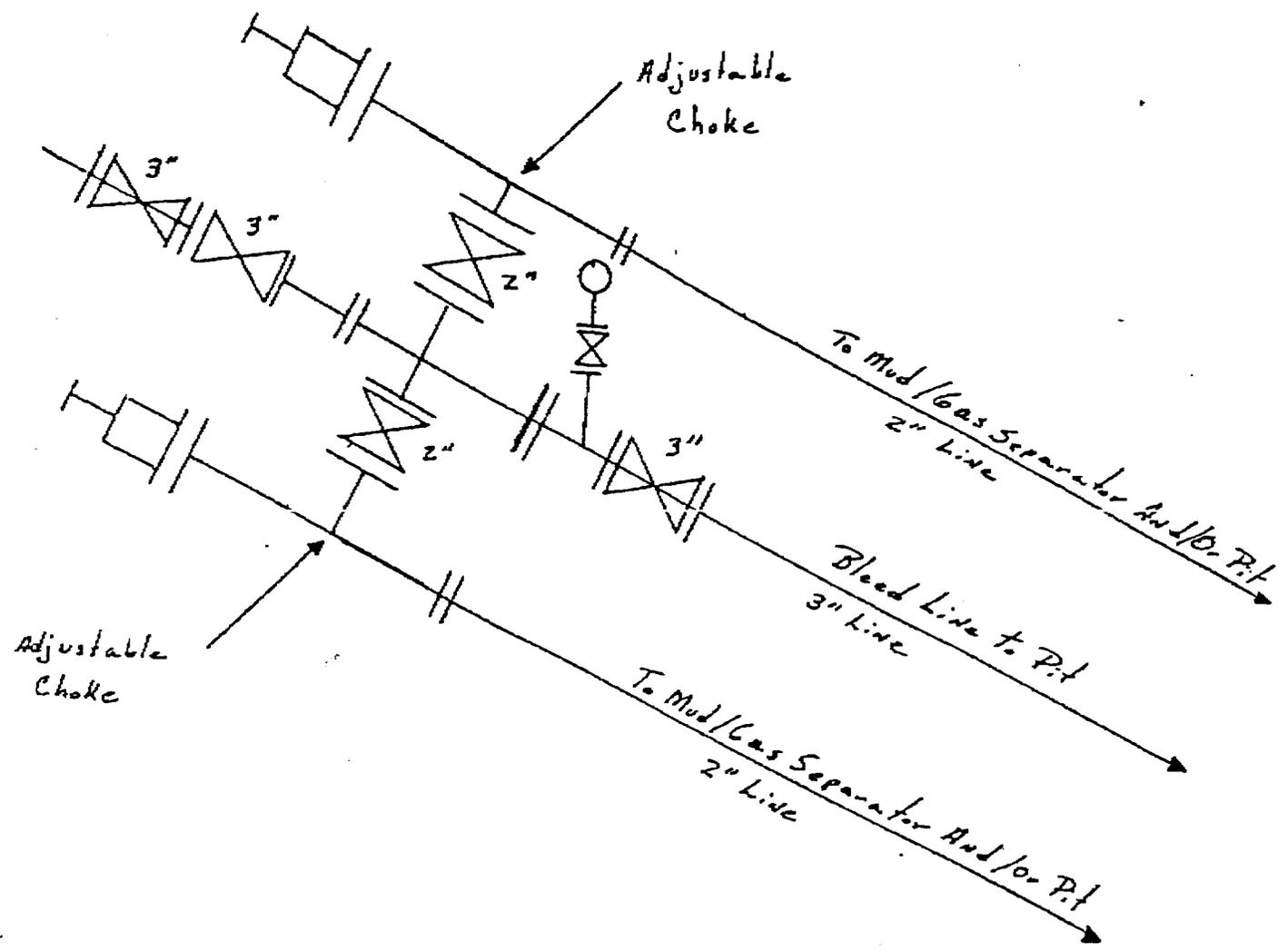
**10. DRILLING SCHEDULE:**

THE ANTICIPATED STARTING DATE IS 10-18 , 1997. DURATION OF OPERATIONS IS EXPECTED TO BE 150 DAYS.

## BOP AND PRESSURE CONTAINMENT DATA



1. BOP equip shall consist of a double gate, hydraulically operated preventer with pipe & blind rams or two single ram type preventers, one equipped w/pipe rams, the other w/blind rams.
2. BOP's are to be well braced w/ hand controls extended clear of substructure.
3. Accumulator to provide closing pressure in excess of that required w/sufficient volume to operate all components.
4. Auxiliary equipment: Lower kelly cock, full opening stabbing valve, 2½" choke manifold, pit level indicator &/or flow sensors w/alarms
5. All BOP equipment, auxiliary equipment, stand pipe & valves & rotary hose to be tested to the rate pressure of the BOP's at time of installation & every 30 days thereafter. BOP's to be mechanically checked daily.
6. Modification of hook-up or testing procedure must be approved in writing on tour reports by wellsite representative.



3,000 Psi Choke Manifold Equipment \*

\* Note: Configuration May Vary

Scott Brady

**BARRETT RESOURCES CORPORATION**

**13 POINT SURFACE USE PLAN**

**FOR**

**WELL LOCATION**

**UTE TRIBAL 13-20**

**LOCATED IN**

**SW 1/4, SW 1/4, 689' FSL, 909' FWL**

**SECTION 20, T 5 S. , R 4 W., U.S.B.M.**

**DUCHESNE COUNTY, UTAH**

**LEASE NUMBER: BIA 14-20-H62-3529**

**SURFACE OWNERSHIP: UTE TRIBE**

## **1. EXISTING ROADS**

TO REACH THE BARRETT RESOURCES WELL, UTE TRIBAL 13-20 LOCATION, IN SECTION 20, T5S., R4W.

START IN MYTON, UTAH. PROCEED WEST ON US HIGHWAY 40, 8.8 MILES TO THE ANTELOPE CANYON ROAD. TURN SOUTH AND PROCEED 6.3 MILES TO THE SOWERS CANYON ROAD. TURN RIGHT ON THE SOWERS CANYON ROAD AND PROCEED SOUTH AND WEST 3.8 MILES. TURN SOUTH ON AN OILFIELD ACCESS ROAD AT THE FORK IN THE ROAD AND PROCEED 3.9 MILES. TURN SOUTH AND PROCEED 0.8 MILES. TURN NORTH EAST AND PROCEED 0.6 MILES TO LOCATION.

THE EXISTING OILFIELD SERVICE ROAD MAY NEED SOME SURFACE MATERIAL TO PREVENT OR REPAIR HOLES IN THE ROAD DUE TO HEAVY TRUCK TRAFFIC DURING THE DRILLING AND COMPLETION OPERATION. IF REPAIRS ARE MADE THE OPERATOR WILL SECURE MATERIAL FROM PRIVATE SOURCES.

PLEASE SEE THE ATTACHED MAP FOR ADDITIONAL DETAILS.

## **2. PLANNED ACCESS ROAD**

APPROXIMATELY 3100 FEET OF NEW ROAD WILL BE REQUIRED. DETAILS OF THE CONSTRUCTION ARE AS FOLLOWS;

LENGTH-	3100 FT (APPROX)
WIDTH-	32 FT (APPROX)
GRADE-	10% OR LESS

PLEASE SEE THE ATTACHED LOCATION PLAT FOR ADDITIONAL DETAILS.

NO RIGHT OF WAY WILL BE REQUIRED. ALL NEW CONSTRUCTION WILL BE CONDUCTED ON LEASE.

ALL TRAVEL WILL BE CONFINED TO EXISTING ROAD RIGHT OF WAYS.

ACCESS ROADS AND SURFACE DISTURBING ACTIVITIES WILL CONFORM TO STANDARDS OUTLINED IN THE USGS PUBLICATION (1978) SURFACE OPERATION STANDARDS FOR OIL AND GAS DEVELOPMENT.

### 3. LOCATION OF EXISTING WELLS

THE FOLLOWING WELLS ARE LOCATED WITHIN ONE MILE RADIUS OF THE LOCATION SITE.

#### A) PRODUCING WELLS:

OIL WELL	UTE TRIBAL 1-19	SECTION 19, T.5 S, R. 4 W.
OIL WELL	UTE TRIBAL 7-19	SECTION 19, T.5 S, R. 4 W.
OIL WELL	UTE TRIBAL 13-19	SECTION 19, T.5 S, R. 4 W.
OIL WELL	UTE TRIBAL 5-20	SECTION 20, T.5 S, R. 4 W.
OIL WELL	UTE TRIBAL 1-30	SECTION 30, T.5 S, R. 4 W.
OIL WELL	UTE TRIBAL 4-30	SECTION 30, T.5 S, R. 4 W.

B) WATER WELLS: NONE

C) ABANDONED WELLS : NONE

D) TEMPORARILY ABANDONED WELLS: NONE

E) DISPOSAL WELLS: NONE

F) DRILLING WELLS: NONE

G) SHUT IN WELLS: NONE

H) INJECTION WELLS: NONE

I) MONITORING OR OBSERVATION WELLS: NONE

PLEASE SEE ATTACHED MAP FOR ADDITIONAL DETAILS.

### 4. LOCATION OF TANK BATTERIES, PRODUCTION FACILITIES, AND PRODUCTION GATHERING AND SERVICE LINES

ALL PRODUCTION FACILITIES ARE TO BE CONTAINED WITHIN THE PROPOSED LOCATION SITE. PLEASE SEE THE ATTACHED PLOT PLAN FOR A TYPICAL PUMP JACK, SEPARATOR INSTALL, AND WELLSITE PIPING CONNECTION.

ALL PERMANENT(ON SITE FOR SIX MONTHS OR LONGER) STRUCTURES CONSTRUCTED OR INSTALLED WILL BE PAINTED A DESERT BROWN COLOR. ALL FACILITIES WILL BE PAINTED WITHIN SIX MONTHS OF INSTALLATION. FACILITIES REQUIRED TO COMPLY WITH O.S.H.A. ( OCCUPATIONAL SAFETY AND HELATH ACT) WILL BE EXCLUDED. THE REQUIRED PAINT COLOR IS DESERT BROWN( 10 YR 6/4)

THE TANK BATTERY WILL BE SURROUNDED BY A DIKE OF SUFFICIENT CAPACITY TO CONTAIN THE STORAGE CAPACITY OF THE LARGEST TANK IN THE BATTERY. THE INTEGRITY OF THE DIKE WILL BE MAINTAINED.

ALL SITE SECURITY GUIDELINES IDENTIFIED IN 43 CFR 3126.7 REGULATION WILL BE ADHERED TO.

AL OFF LEASE STORAGE, OFF-LEASE MEASUREMENT, OR COMMINGLING ON LEASE OR OFF-LEASE WILL HAVE PRIOR WRITTEN APPROVAL FROM THE AUTHORIZED OFFICER.

THE GAS LINE HAS BEEN STAKED ON THE GROUND. THERE WILL BE NO ADDITIONAL SURFACE DISTURBANCES REQUIRED FOR THE INSTALLATION OF A GATHERING LINE.

GAS METER RUNS WILL BE LOCATED WITHIN 100 FT OF THE WELL HEAD. THE GAS LINE WILL BE BURIED, OR ANCHORED DOWN FROM THE WELLHEAD TO THE METER. METER RUNS WILL BE HOUSED AND/OR FENCED.

THE GAS METER WILL BE CALIBRATED AND THE TANK STRAPPED IN PLACE PRIOR TO ANY DELIVERIES. TESTS FOR THE METER ACCURACY WILL BE CONDUCTED MONTHLY FOR THE FIRST THREE MONTHS ON NEW METER INSTALLATIONS AND AT LEAST QUARTERLY THEREAFTER. THE AUTHORIZED OFFICER WILL BE PROVIDED WITH A DATE AND TIME FOR THE INITIAL METER CALIBRATION AND ALL FUTURE METER PROVING SCHEDULES. A COPY OF THE METER CALIBRATION REPORT WILL BE SUBMITTED TO THE VERNAL DISTRICT OFFICE. ALL MEASUREMENT FACILITIES WILL CONFORM WITH API AND AGA STANDARDS FOR GAS AND LIQUID HYDROCARBON MEASUREMENT.

## **5. LOCATION AND TYPE OF WATER SUPPLY**

WATER FOR THE WELL WILL BE HAULED BY TRUCK FROM JIM NEBEKER'S (JOE SHIELDS) POND. #43-1723, #43-1721. WATER FOR COMPLETION WILL COME FROM THE SAME PONDS OR FROM ROOSEVELT CITY. A WATER WELL IS PLANNED FOR USE IN THIS AREA. A WATER USE AGREEMENT IS ALSO IN PLACE WITH UTE TRIBE.

## **6. SOURCE OF CONSTRUCTION MATERIALS**

ALL CONSTRUCTION MATERIAL FOR THIS LOCATION SITE AND ACCESS ROAD SHALL BE BORROW MATERIAL ACCUMULATED DURING CONSTRUCTION OF THE LOCATION SITE AND ACCESS ROAD. ADDITIONAL GRAVEL OR PIT LINING MATERIAL WILL BE OBTAINED FROM PRIVATE SOURCES.

## **7. METHODS FOR HANDLING WASTE DISPOSAL**

### **A) PIT CONSTRUCTION AND LINERS:**

THE RESERVE PIT WILL BE APPROX. 10 FT DEEP AND AT LEAST ONE-HALF OF THE DEPTH SHALL BE BELOW THE SURFACE OF THE EXISTING GROUND.

THE RESERVE PIT WILL BE LINED WITH A 12 MIL PIT LINER. THE PIT LINER WILL BE TORN AND PERFORATED AFTER THE PUT DRIES AND BEFORE BACKFILLING THE RESERVE PIT. THE RESERVE PIT WILL BE REASONABLY FREE OF HYDROCARBONS BEFORE THE PIT IS BACKFILLED.

ONE-HALF OF THE PIT WILL BE USED AS A FRESH WATER STORAGE AREA DURING THE DRILLING OF THIS WELL AND THE OTHER ONE-HALF WILL BE USED TO STORE NON-FLAMMABLE MATERIALS SUCH AS CUTTINGS, SALT, DRILLING FLUIDS, CHEMICALS, PRODUCED FLUIDS, ETC.

### **B) PRODUCED FLUIDS:**

PRODUCED WATER WILL BE CONFINED TO THE RESERVE PIT, OR IF DEEMED NECESSARY, A STORAGE TANK FOR A PERIOD NOT TO EXCEED 90 DAYS AFTER INITIAL PRODUCTION. DURING THE 90 DAY PERIOD AN APPLICATION FOR APPROVAL FOR A PERMANENT DISPOSAL METHOD AND LOCATION WILL BE SUBMITTED TO THE AUTHORIZED OFFICER.

**C) GARBAGE:**

A TRASH CAGE, FABRICATED FROM EXPANDED METAL WILL BE USED TO HOLD TRASH ON LOCATION AND WILL BE REMOVED TO AN AUTHORIZED LANDFILL LOCATION.

D) A PORTABLE CHEMICAL TOILET WILL BE SUPPLIED FOR HUMAN WASTE.

**E) SITE CLEAN-UP:**

AFTER THE RIG IS MOVED OUT, THE AREA AROUND THE WELLSITE WILL BE CLEANED AND ALL REFUSE REMOVED.

**8. ANCILLARY FACILITIES**

THERE ARE NO ANCILLARY FACILITIES PLANNED FOR AT THIS TIME AND NONE ARE FORESEEN IN THE FUTURE.

**9. WELLSITE LAYOUT**

LOCATION DIMENSION ARE AS FOLLOW:

<u>A) PAD LENGTH-</u>	<u>300 FT</u>
<u>B) PAD WIDTH-</u>	<u>140 FT</u>
<u>C) PIT DEPTH-</u>	<u>10 FT</u>
<u>D) PIT LENGTH-</u>	<u>180 FT</u>
<u>E) PIT WIDTH-</u>	<u>70 FT</u>
<u>F) MAX CUT-</u>	<u>30.5 FT</u>
<u>G) MAX FILL-</u>	<u>4.8 FT</u>
<u>H) TOTAL CUT YARDS-</u>	<u>16,200 CU YDS</u>
<u>I) PIT LOCATION-</u>	<u>SOUTH EAST CORNER</u>
<u>J) TOP SOIL LOCATION-</u>	<u>EAST SIDE OF LOCATION</u>
<u>K) ACCESS ROAD LOCATION-</u>	<u>FROM THE NORTH EAST</u>
<u>L) FLARE PIT-</u>	<u>ON THE SOUTH WEST CORNER</u>

PLEASE SEE THE ATTACHED LOCATION DIAGRAM FOR ADDITIONAL DETAILS.

ALL PITS WILL BE FENCED ACCORDING TO THE FOLLOWING STANDARDS:

A) 39 INCH NET WIRE SHALL BE USED WITH AT LEAST ONE STRAND OF WIRE ON TOP OF THE NET WIRE  
(BARBED WIRE IS NOT NECESSARY IF PIPE OR SOME TYPE OF REINFORCEMENT ROD IS ATTACHED TO THE TOP OF THE ENTIRE FENCE.)

**B) THE NET WIRE SHALL BE NO MORE THAN 2 INCHES ABOVE THE GROUND. THE BARBED WIRE SHALL BE 3 INCHES ABOVE THE NET WIRE. TOTAL HEIGHT OF THE FENCE SHALL BE AT LEAST 42 INCHES.**

**C) CORNER POSTS SHALL BE CEMENTED AND/OR BRACED IN SUCH A MANNER TO KEEP THE FENCE TIGHT AT ALL TIMES.**

**D) STANDARD STEEL, WOOD OR PIPE POSTS SHALL BE USED BETWEEN THE CORNER BRACES. DISTANCE BETWEEN ANY TWO POSTS SHALL BE NO GREATER THAN 16 FT.**

**E) ALL WIRE SHALL BE STRETCHED, BY USING A STRETCHING DEVICE, BEFORE IT IS ATTACHED TO THE CORNER POSTS.**

#### **10. PLANS FOR RESTORATION OF THE SURFACE**

PRIOR TO THE CONSTRUCTION OF THE LOCATION, THE TOP 12 INCHES OF SOIL MATERIAL WILL BE STRIPPED AND STOCKPILED. THIS WILL AMOUNT TO 2,020 CUBIC YARDS OF MATERIAL. PLACEMENT OF THE TOP SOIL IS NOTED ON THE ATTACHED LOCATION PLAT. WHEN ALL DRILLING AND COMPLETION ACTIVITIES HAVE BEEN COMPLETED THE UNUSED PORTION OF THE LOCATION( THE AREA OUTSIDE THE DEADMEN) WILL BE RE-CONTOURED AND THE TOPSOIL SPREAD OVER THE AREA.

THE DIRT CONTRACTOR WILL BE PROVIDED WITH AN APPROVED COPY OF THE SURFACE USE PLAN PRIOR TO CONSTRUCTION ACTIVITIES.

ANY DRAINAGE REROUTED DURING THE CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ITS ORIGINAL LINE OF FLOW OR AS NEAR AS POSSIBLE.

ALL DISTURBED AREAS WILL BE RE-CONTOURED TO THE APPROXIMATE NATURAL CONTOURS. PRIOR TO BACKFILLING THE PIT, THE FENCES

AROUND THE RESERVE PIT WILL BE REMOVED. THE PIT LINER WILL BE CUT OFF AT THE WATER OR MUD LINE AND DISPOSED OF AT AN APPROVED LANDFILL SITE. THE LINER WILL ALSO BE TORN AND PERFORATED AFTER THE PIT DRIES AND BEFORE BACKFILLING OF THE RESERVE PIT.

THE RESERVE PIT WILL BE RECLAIMED WITHIN 90 DAYS OF WELL COMPLETION. IF THE RESERVE PIT HAS NOT DRIED SUFFICIENTLY TO ALLOW BACKFILLING AN EXTENSION ON THE TIME REQUIREMENT FOR BACKFILLING THE PIT WILL BE REQUESTED. ONCE RECLAMATION ACTIVITIES HAVE BEGUN, THEY SHALL BE COMPLETED WITHIN 30 DAYS.

AFTER THE RESERVE PIT HAS BEEN RECLAIMED NO DEPRESSIONS IN THE SOIL COVERING THE RESERVE PIT WILL BE ALLOWED. THE OBJECTIVE IS TO KEEP SEASONAL RAINFALL AND RUN OFF FROM SEEPING INTO THE SOIL USED TO COVER THE RESERVE PIT. DIVERSION DITCHES AND WATER BARS WILL BE USED TO DIVERT RUN OFF AS NEEDED.

WHEN RESTORATION ACTIVITIES HAVE BEEN COMPLETED, THE LOCATION SITE AND NEW ACCESS ROAD CUTS AND SHOULDERS SHALL BE RESEEDED. PRIOR TO RESEEDING, ALL DISTURBED AREAS, INCLUDING THE OLD ACCESS ROAD, WILL BE SCARIFIED AND LEFT WITH A ROUGH SURFACE.

**A) RECOMMENDED SEED MIXTURE:**

RUSSION RYE 6# PER ACRE. FAIRWAY CRESTED WHEAT GRASS 6# PER ACRE.

**B) SEEDING DATES:**

AFTER SEPTEMBER 15, AND BEFORE THE GROUND FREEZES.

SEED WILL BE BROADCAST OR DRILLED AT THE TIME SPECIFIED BY THE BLM. IF BROADCAST, A HARROW OR SOME OTHER IMPLEMENT WILL BE DRAGGED OVER THE SEEDED AREA TO ASSURE SEED COVERAGE AND THE SEED MIXTURE WILL BE PROPORTIONATELY LARGER( DOUBLE THE LBS. PER ACRE).

AT SUCH TIME THE WELL IS PLUGGED AND ABANDONED THE OPERATOR WILL SUBMIT A SURFACE RECLAMATION PLAN TO THE SURFACE MANAGEMENT AGENCY FOR PRESCRIBED SEED MIXTURE AND RESEEDING REQUIREMENTS.

**11. SURFACE OWNERSHIP: THE UTE TRIBE**

**12. OTHER INFORMATION**

**A) VEGETATION:**

THE TREES IN THE AREA ARE CEDAR AND PINION. THE VEGETATION COVERAGE IS SLIGHT. THE MAJORITY OF THE EXISTING VEGETATION IS MADE UP OF RABBIT, SAGE, AND BITTER BRUSH. ALSO FOUND ON THE LOCATION IS PRICKLY PEAR, INDIAN RICE GRASS, AND YUCCA.

**B) DWELLINGS:**

THERE ARE NO OCCUPIED DWELLINGS, OR OTHER FACILITIES WITHIN A ONE MILE RADIUS OF THIS LOCATION.

**C) ARCHAEOLOGY:**

THE LOCATION HAS BEEN SURVEYED AND THERE IS NO ARCHAEOLOGICAL, HISTORICAL, OR CULTURAL SITES NEAR THE PROPOSED SITE. PLEASE SEE THE ATTACHED ARCHAEOLOGICAL CLEARANCE MAP.

IF, DURING OPERATIONS, ANY ARCHAEOLOGICAL OR HISTORICAL SITES, OR ANY OBJECTS OF ANTIQUITY ( SUBJECT TO THE ANTIQUITIES ACT OF JUNE 8, 1906) ARE DISCOVERED, ALL OPERATIONS WHICH WOULD AFFECT SUCH SITES ARE TO BE SUSPENDED AND THE DISCOVERY REPORTED PROMPTLY TO THE SURFACE MANAGEMENT AGENCY.

**D) WATER:**

THE NEAREST WATER IS IN THE BOTTOM OF SOWERS CANYON 1.4 MILES TO THE NORTH WEST.

**E) WOOD:**

NO WOOD PERMIT WILL BE REQUIRED FOR THIS LOCATION. BARRETT RESOURCES HAS A JOINT VENTURE AGREEMENT WITH THE UTE TRIBE. THIS AGREEMENT MAKES IT UNNECESSARY FOR BARRETT RESOURCES TO OBTAIN A WOOD PERMIT. PLEASE SEE THE JOINT VENTURE AGREEMENT, BETWEEN ZINKE & TRUMBO LTD. WHICH HAS BEEN ASSIGNED TO BARRETT RESOURCES, IF YOU REQUIRE ADDITIONAL INFORMATION.

**F) CHEMICALS:**

NO PESTICIDES, HERBICIDES OR OTHER POSSIBLE HAZARDOUS CHEMICALS SHALL BE USED WITHOUT PRIOR APPLICATION.

**G) NOTIFICATION:**

a) BLM, VERNAL, UT. STAN OLMSTEAD 801-789-1362, 24 TO 48 HRS BEFORE CONSTRUCTION OF THE LOCATION. ALSO AFTER SITE CONSTRUCTION AND BEFORE THE RIG MOVES IN.

b) BIA, FT. DUCHESNE, UT, CHARLIE CAMERON 801-722-2406, 24 TO 48 HRS BEFORE CONSTRUCTION OF THE LOCATION. ALSO AFTER SITE CONSTRUCTION AND BEFORE THE RIG MOVES IN.

c) UTE TRIBE, MINERALS DIVISION, FT. DUCHESNE, UT, FERRON SECAKUKU 801-722-4992, 24 TO 48 HRS BEFORE CONSTRUCTION AND BEFORE THE RIG MOVES IN.

**H) FLARE PIT:**

THE FLAIR PIT WILL BE LOCATED 120 FEET FROM THE RESERVE PIT FENCE AND 130 FEET FROM THE BORE HOLE ON THE NORTH AND WEST SIDE OF THE LOCATION, BETWEEN POINT'S 5 AND 6 ON THE LOCATION PLAT. ALL FLUIDS WILL BE REMOVED FROM THE PIT WITHIN 48 HOURS OF OCCURRENCE.

**I) GRAZING PERMITTEE:**

UTE TRIBAL LIVESTOCK ENTERPRISES  
FT. DUCHESNE, UT  
801-722-2406

**13. LESSEES OR OPERATORS REPRESENTATIVE AND CERTIFICATION**

**A) REPRESENTATIVE**

NAME: DP BARONE  
ADDRESS: BARRETT RESOURCES CORP.  
PO BOX 290 \* NEOLA,UT \*84053  
PHONE: 801-353-4625  
CELLULAR: 801-828-6116

ALL LEASE AND/OR UNIT OPERATIONS WILL BE CONDUCTED IN SUCH A MANNER THAT FULL COMPLIANCE IS MADE WITH ALL APPLICABLE LAWS, REGULATIONS, ONSHORE OIL AND GAS ORDERS. THE APPLICABLE LAWS, REGULATIONS, AND ANY APPLICABLE NOTICES TO LESSEES. THE OPERATOR IS FULLY RESPONSIBLE FOR THE ACTIONS OF HIS SUBCONTRACTORS. A COPY OF THESE CONDITIONS WILL BE FURNISHED TO THE FIELD REPRESENTATIVE TO ENSURE COMPLIANCE.

THE DRILLING PERMIT WILL BE VALID FOR A PERIOD OF ONE YEAR FROM THE DATE OF APPROVAL. AFTER PERMIT TERMINATION, A NEW APPLICATION WILL BE FILED FOR APPROVAL FOR ANY FUTURE OPERATIONS.

**B) CERTIFICATION:**

I HEREBY CERTIFY THAT I, OR PERSONS UNDER MY DIRECT SUPERVISION, HAVE INSPECTED THE PROPOSED DRILLSITE AND ACCESS ROUTE; THAT I AM FAMILIAR WITH THE CONDITIONS WHICH PRESENTLY EXIST; THAT THE STATEMENTS MADE IN THIS PLAN ARE, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE AND CORRECT; AND THAT THE WORK ASSOCIATED WITH THE OPERATION PROPOSED HEREIN WILL BE PERFORMED BY BARRETT RESOURCES AND ITS CONTRACTORS AND SUBCONTRACTORS IN CONFORMITY WITH THIS PLAN AND TERMS AND CONDITIONS WITH THE PLAN AND THE TERMS AND CONDITIONS UNDER WHICH IT IS APPROVED.

DATE: 8/4/97

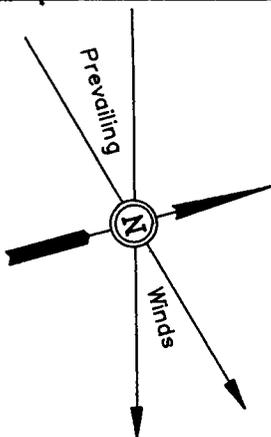


DP Barone  
Production Supervisor  
Barrett Resources Corp.

# BARRETT RESOURCES CORPORATION

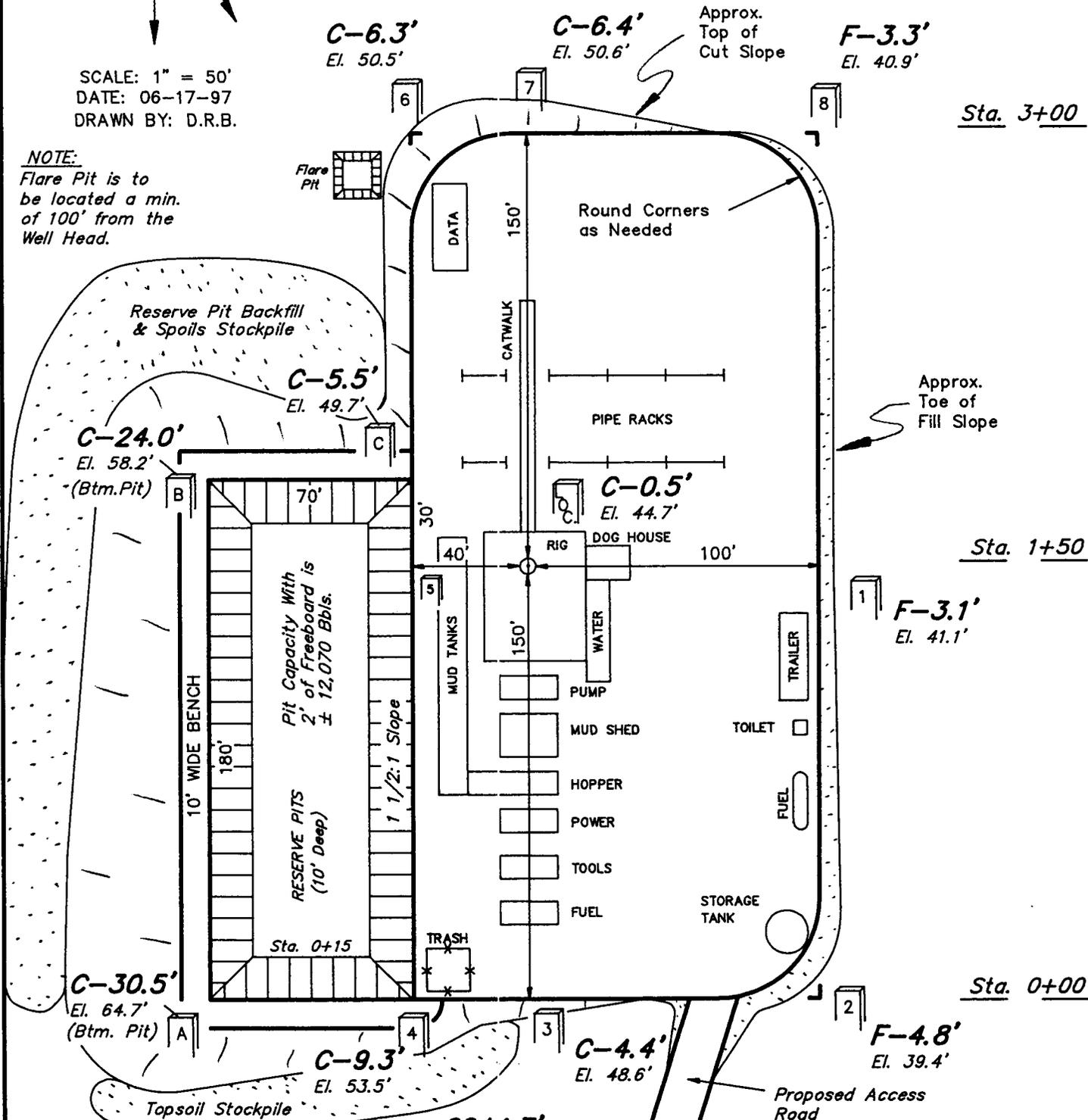
## LOCATION LAYOUT FOR

UTE TRIBAL #13-20  
SECTION 20, T5S, R4W, U.S.B.&M.  
689' FSL 909' FWL



SCALE: 1" = 50'  
DATE: 06-17-97  
DRAWN BY: D.R.B.

**NOTE:**  
Flare Pit is to be located a min. of 100' from the Well Head.



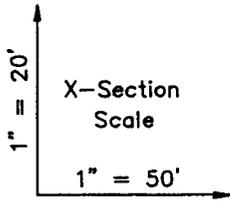
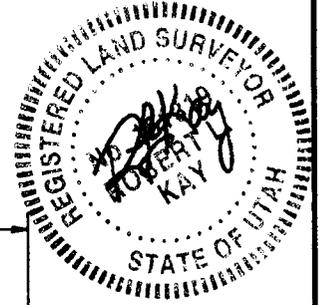
Elev. Ungraded Ground at Location Stake = 6644.7'  
Elev. Graded Ground at Location Stake = 6644.2'

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85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017

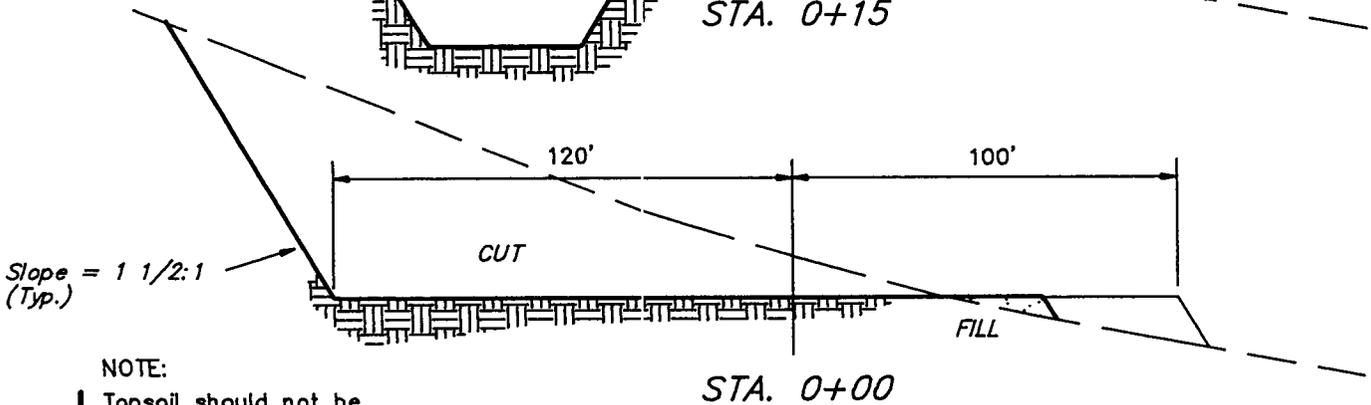
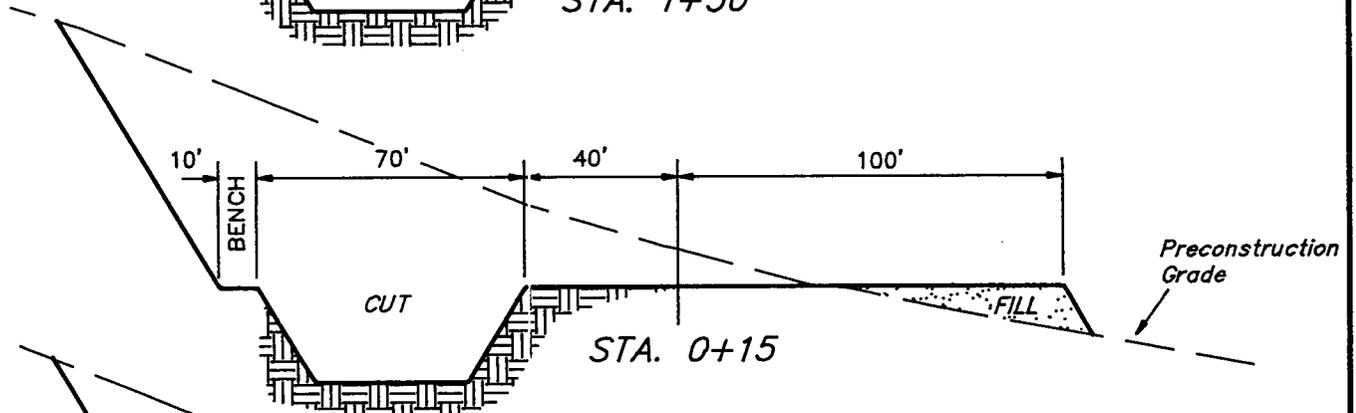
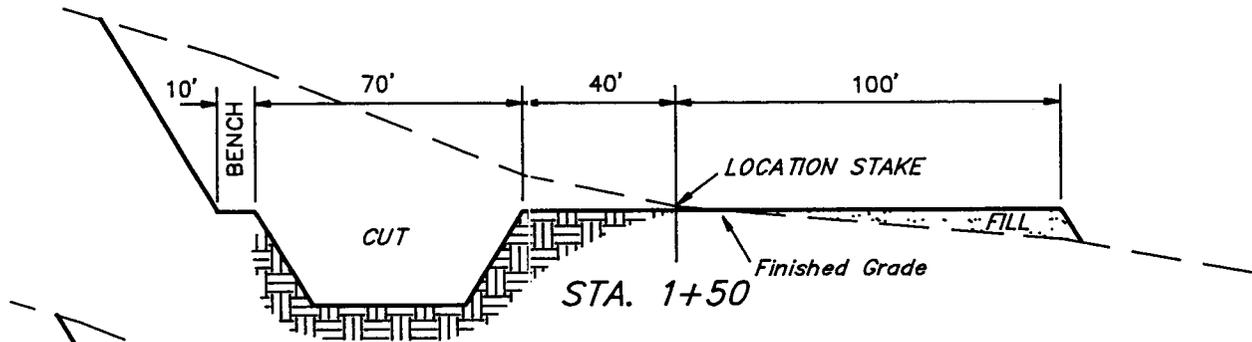
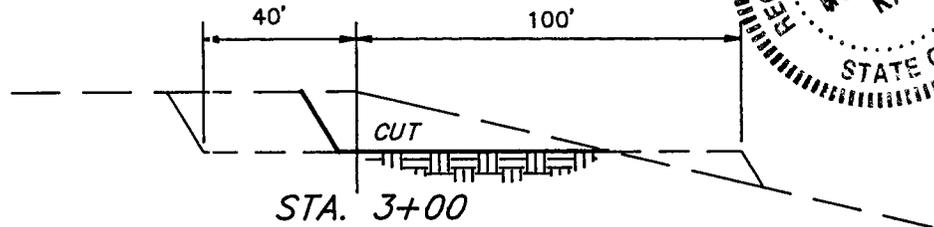
# BARRETT RESOURCES CORPORATION

## TYPICAL CROSS SECTIONS FOR

UTE TRIBAL #13-20  
SECTION 20, T5S, R4W, U.S.B.&M.  
689' FSL 909' FWL



DATE: 06-17-97  
DRAWN BY: D.R.B.



**NOTE:**

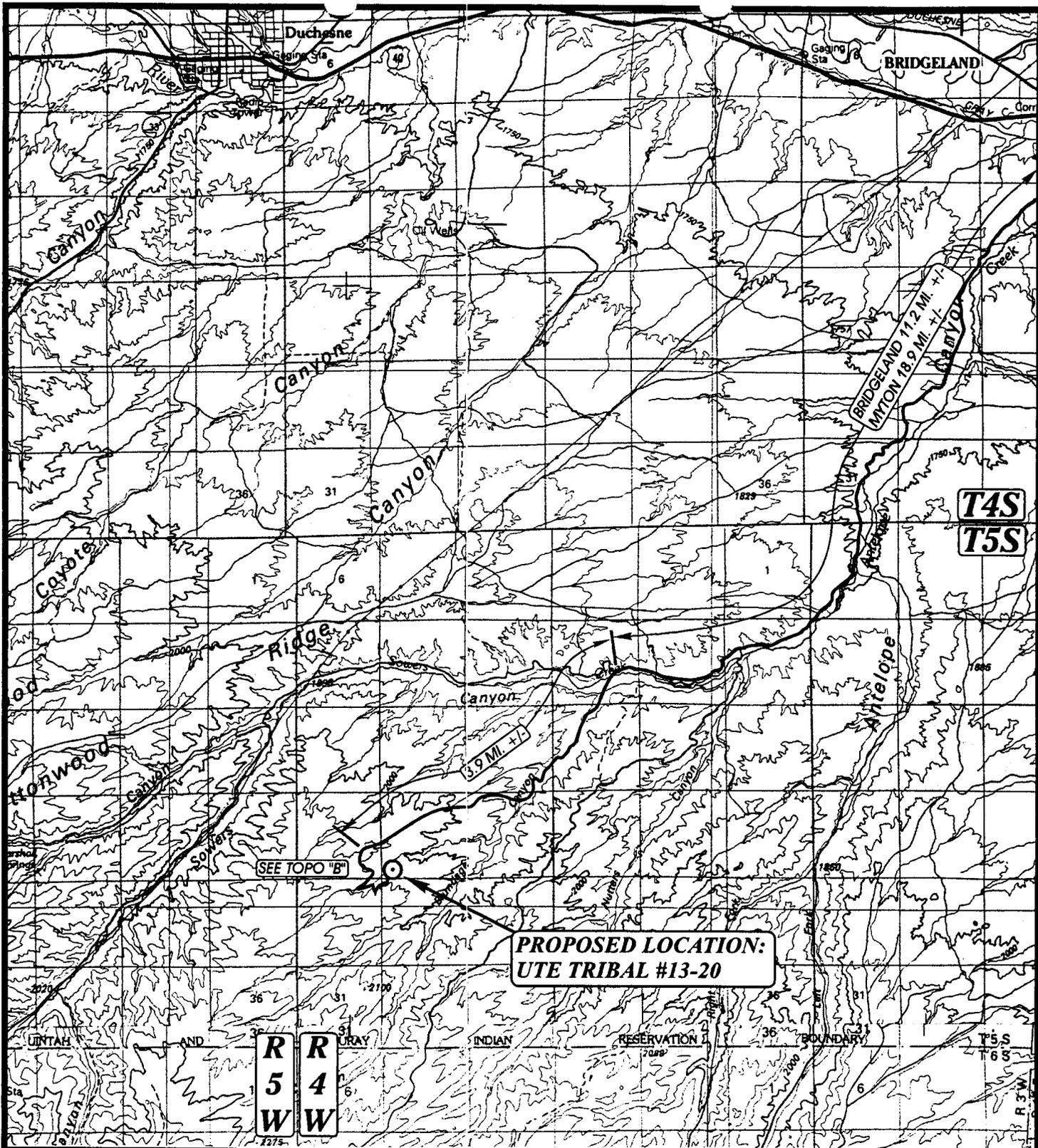
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

**APPROXIMATE YARDAGES**

CUT	
(12") Topsoil Stripping	= 2,020 Cu. Yds.
Remaining Location	= 14,180 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 16,200 CU.YDS.</b>
<b>FILL</b>	<b>= 1,990 CU.YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	= 14,110 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,710 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 10,400 Cu. Yds.

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**LEGEND:**

○ PROPOSED LOCATION

**BARRETT RESOURCES CORPORATION**

**UTE TRIBAL #13-20**  
**SECTION 20, T5S, R4W, U.S.B.&M.**  
**689' FSL 909' FWL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (801) 789-1017 \* FAX (801) 789-1018  
 Email: uels@easilink.com

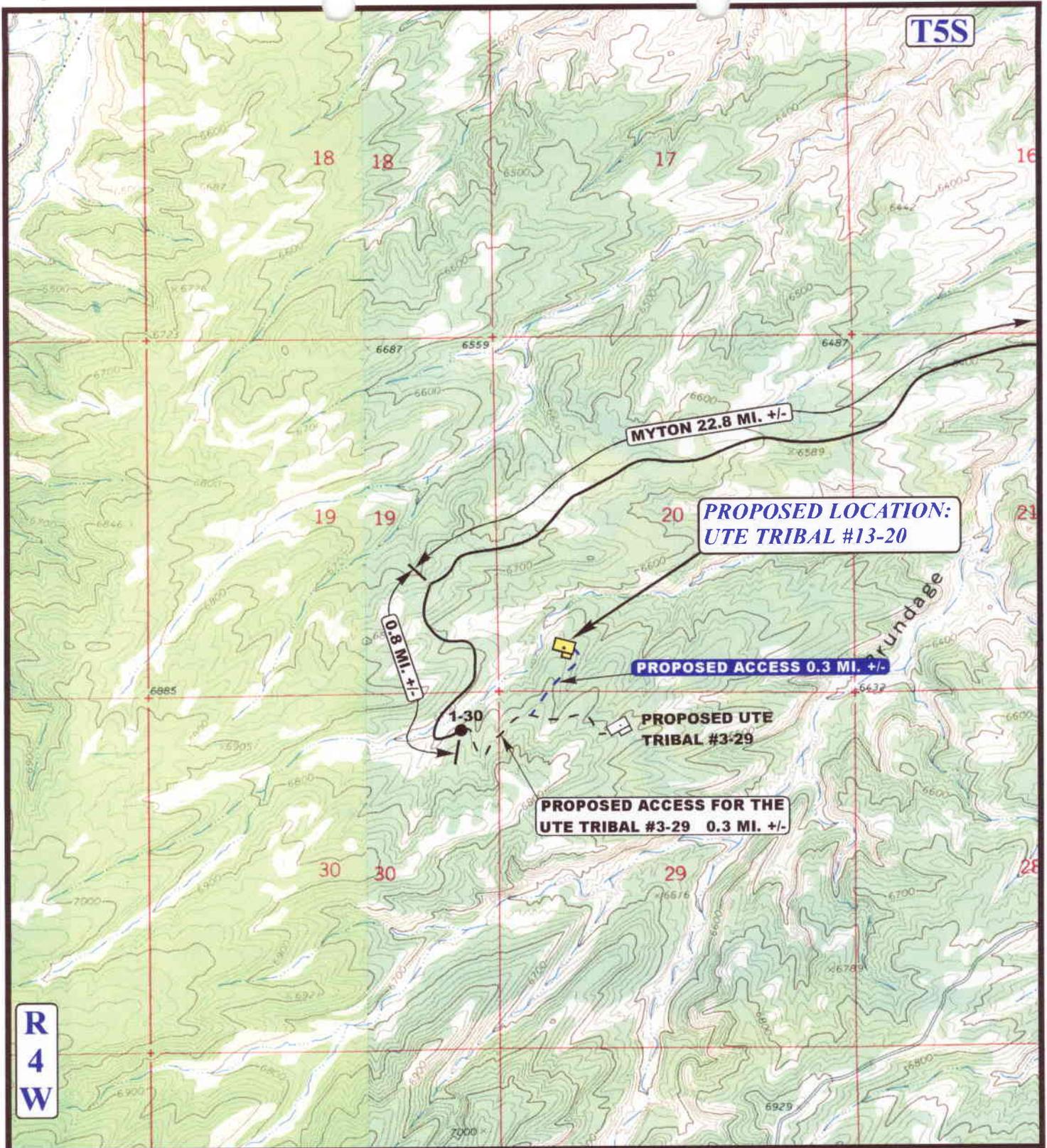


**TOPOGRAPHIC**  
**MAP**

<b>6</b>	<b>6</b>	<b>97</b>
MONTH	DAY	YEAR

SCALE: 1 : 100,000 DRAWN BY: D.COX REVISED: 00-00-00





**R  
4  
W**

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING ROAD

**BARRETT RESOURCES CORPORATION**

**UTE TRIBAL #13-20  
SECTION 20, T5S, R4W, U.S.B.&M.  
689' FSL 909' FWL**



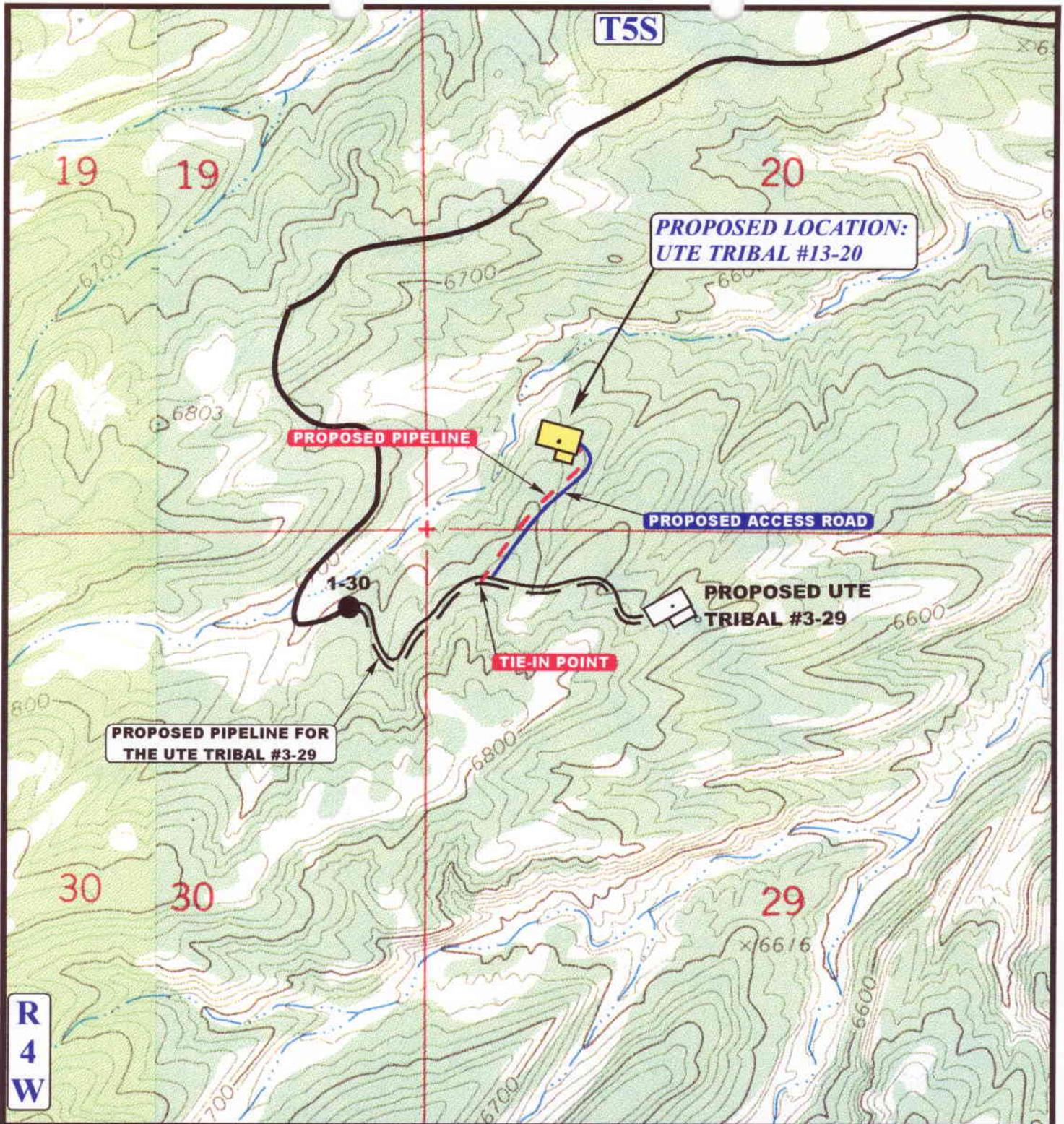
**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(801) 789-1017 \* FAX (801) 789-1018  
Email: [uels@easilink.com](mailto:uels@easilink.com)

**TOPOGRAPHIC  
MAP**

<b>6</b>	<b>6</b>	<b>97</b>
MONTH	DAY	YEAR

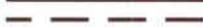


SCALE: 1" = 2000' DRAWN BY: D.COX REVISED: 00-00-00



**APPROXIMATE TOTAL PIPELINE DISTANCE = 1440' +/-**

**LEGEND:**

-  EXISTING PIPELINE
-  PROPOSED PIPELINE
-  PROPOSED ACCESS

**BARRETT RESOURCES CORPORATION**

**UTE TRIBAL #13-20  
SECTION 20, T5S, R4W, U.S.B.&M.  
689' FSL 909' FWL**



**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(801) 789-1017 \* FAX (801) 789-1018  
Email: uels@easilink.com



**TOPOGRAPHIC  
MAP**

<b>6</b>	<b>6</b>	<b>97</b>
MONTH	DAY	YEAR

SCALE: 1" = 1000' DRAWN BY: D.COX REVISED: 00-00-00





- (h) To build and repair such roads, fences, and trails as may be destroyed or injured by construction work and to build and maintain necessary and suitable crossings for all roads and trails that intersect the works constructed, maintained, or operated under the Right-of-Way.
- (I) That upon revocation or termination of the Right-of-Way, the applicant shall, so far as is reasonably possible, restore the land to its original condition.
- (j) To at all times keep the Secretary informed of its address, and in case of corporations of the address of its principal officers.
- (k) That the applicant will not interfere with the use of the lands by or under the authority of the landowners for any purpose not inconsistent with the primary purpose for which the Right-of-Way is granted.

IN WITNESS THEREOF, BARRETT RESOURCES CORPORATION. has caused this instrument to be executed this 27 day of JUNE, 1997.

Chris Anderson  
WITNESS

Dwight R. Boyce  
WITNESS

**BARRETT RESOURCES CORPORATION**  
APPLICANT

Doug Barone  
Doug Barone/Production Supervisor-Utah  
P.O. Box 290  
Neola, Utah 84053  
Phone:(801)353-4625

**SUPPORTING DOCUMENTS:**

- ( ) Written consent of the landowners.
- ( ) Evidence of good faith and financial responsibility.
- (x) \$0 as per the terms of the Exploration and Development Agreement.
- ( ) State certified copy of corporate charter or articles of corporation.
- ( ) Certified copy of resolution or bylaws of the corporation authorizing the filing of the stipulations.
- ( ) State certification that the applicant is authorized to do business in the State where the land is located.
- ( ) Certified copy of the articles of partnership or association.
- (x) Map of definite location.
- ( ) Other:

BARRETT RESOURCES CORPORATION  
UTE TRIBAL #13-20  
CORRIDOR RIGHT-OF-WAY & DAMAGE AREA  
SECTIONS 20 & 29, T5S, R4W, U.S.B.&M.

TOTAL CORRIDOR RIGHT-OF-WAY ON UTE TRIBAL LANDS

TOTAL LENGTH OF RIGHT-OF-WAY IS 1440.90' OR 0.273 MILES. WIDTH OF RIGHT-OF-WAY IS 30' (15' PERPENDICULAR ON EACH SIDE OF THE CENTERLINE). CONTAINS 0.992 ACRES MORE OR LESS.

ENGINEER'S AFFIDAVIT

STATE OF UTAH }  
COUNTY OF Uintah } SS

ROBERT L. KAY, BEING FIRST DULY SWORN DEPOSES AND STATES THAT HE IS THE REGISTERED LAND SURVEYOR FOR BARRETT RESOURCES CORPORATION, THAT THESE SURVEYS WERE MADE BY HIM (OR UNDER HIS SUPERVISION) THAT HE HAS EXAMINED THE FIELD NOTES OF THE SURVEYS OF THE DAMAGE AREA & CORRIDOR RIGHT-OF-WAY AS DESCRIBED AND SHOWN ON THIS MAP, THAT THIS MAP WAS PREPARED UNDER HIS DIRECTION FROM SAID FIELD NOTES; AND THAT SAID RIGHT-OF-WAY, 0.273 MILES IN LENGTH BEGINNING AND ENDING AS SHOWN ON THIS MAP IS ACCURATELY REPRESENTED.

*Robert L. Kay*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 6119  
STATE OF UTAH

ACKNOWLEDGEMENT

SUBSCRIBED AND SWORN BEFORE ME THIS 23 DAY OF June 1997

MY COMMISSION EXPIRES Aug 17, 1998

NOTARY PUBLIC  
TRACK D WENLINE  
279 East 600 South  
Vernal, Utah 84078  
NOTARY PUBLIC Commission Expires 8/17/98  
VERNAL, UTAH STATE OF UTAH

APPLICANT'S CERTIFICATE

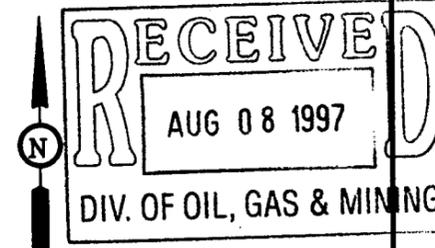
I, DOUG BARONE, DO HEREBY CERTIFY THAT I AM THE AGENT FOR BARRETT RESOURCES CORPORATION, HEREINAFTER DESIGNATED THE APPLICANT; THAT ROBERT L. KAY WHO SUBSCRIBED TO THE FOREGOING AFFIDAVIT, IS EMPLOYED BY THE APPLICANT AS A LAND SURVEYOR AND THAT HE WAS DIRECTED BY THE APPLICANT TO SURVEY THE LOCATION OF THIS DAMAGE AREA & CORRIDOR RIGHT-OF-WAY, 0.273 MILES IN LENGTH BEGINNING AT STA. 0+00 AND ENDING AT STA. 14+40.90, THAT SAID DAMAGE AREA & CORRIDOR RIGHT-OF-WAY ARE ACCURATELY REPRESENTED ON THIS MAP; THAT SUCH SURVEY AS REPRESENTED ON THIS MAP HAS BEEN ADOPTED BY THE APPLICANT AS THE DEFINITE LOCATION OF THE RIGHT-OF-WAY THEREBY SHOWN; AND THAT THE MAP HAS BEEN PREPARED TO BE FILED WITH THE SECRETARY OF THE INTERIOR OR HIS DULY AUTHORIZED REPRESENTATIVE AS PART OF THE APPLICATION FOR SAID RIGHT-OF-WAY TO BE GRANTED THE APPLICANT, ITS SUCCESSORS AND ASSIGNS, WITH THE RIGHT TO CONSTRUCT, MAINTAIN, AND REPAIR IMPROVEMENTS, THEREON AND THEREOVER, FOR SUCH PURPOSES, AND WITH THE FURTHER RIGHT IN THE APPLICANT, ITS SUCCESSORS AND ASSIGNS TO TRANSFER THIS RIGHT-OF-WAY BY ASSIGNMENT, GRANT, OR OTHERWISE.

*D. Barone*  
APPLICANT

PRODUCTION SUPERVISOR - UTAH  
TITLE

**BARRETT RESOURCES CORPORATION**  
**LOCATION DAMAGE AREA & CORRIDOR RIGHT-OF-WAY ON UTE TRIBAL LANDS**

(For UTE TRIBAL #13-20)  
 LOCATED IN  
 SECTIONS 20 & 29, T5S, R4W, U.S.B.&M.  
 DUCHESNE COUNTY, UTAH



**CORRIDOR RIGHT-OF-WAY DESCRIPTION**

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE NW 1/4 NW 1/4 OF SECTION 29, T5S, R4W, U.S.B.&M. WHICH BEARS S40°24'29"E 653.10' FROM THE NORTHWEST CORNER OF SAID SECTION 29, THENCE N63°09'57"E 49.73'; THENCE N28°18'42"E 536.51' TO A POINT ON THE NORTH LINE OF THE NW 1/4 OF SECTION 29, WHICH BEARS S89°48'00"E 722.18' FROM THE NORTHWEST CORNER OF SAID SECTION 29, THENCE N28°18'42"E 55.28'; THENCE N41°30'20"E 451.49'; THENCE N21°56'05"E 212.47'; THENCE N14°50'41"W 93.87'; THENCE N57°40'31"W 41.55' TO A POINT IN THE SW 1/4 SW 1/4 OF SECTION 20, T5S, R4W, U.S.B.&M. WHICH BEARS N56°58'02"E 1273.69' FROM THE SOUTHWEST CORNER OF SAID SECTION 20. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS THE SOUTH LINE OF THE SW 1/4 OF SECTION 20, T5S, R4W, U.S.B.&M. WHICH IS ASSUMED FROM G.L.O. INFORMATION TO BEAR N89°48'W. CONTAINS 0.992 ACRES MORE OR LESS.

NOTE:  
 ENDING STA. 14+40.90 BEARS N56°58'02"E 1273.69' FROM THE SOUTHWEST CORNER OF SECTION 20, T5S, R4W, U.S.B.&M.

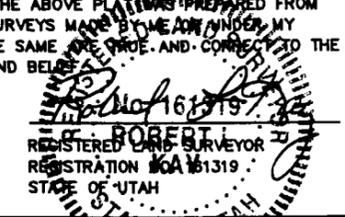
**DAMAGE AREA DESCRIPTION**

BEGINNING AT A POINT IN THE SW 1/4 SW 1/4 OF SECTION 20, T5S, R4W, U.S.B.&M. WHICH BEARS N56°58'02"E 1273.69' FROM THE SOUTHWEST CORNER OF SAID SECTION 20, THENCE S15°00'39"W 190.37'; THENCE N74°59'21"W 230.00'; THENCE N44°43'58"W 138.92'; THENCE N15°00'39"E 190.00'; THENCE S74°59'21"E 350.00'; THENCE S15°00'39"W 69.63' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS THE SOUTH LINE OF THE SW 1/4 OF SECTION 20, T5S, R4W, U.S.B.&M. WHICH IS ASSUMED FROM G.L.O. INFORMATION TO BEAR N89°48'W. CONTAINS 1.992 ACRES MORE OR LESS.

LINE	DIRECTION	DISTANCE
L1	N63°09'57"E	49.73'
L2	N28°18'42"E	55.28'
L3	N14°50'41"W	93.87'
L4	N57°40'31"W	41.55'
L5	N44°43'58"W	138.92'
L6	S15°00'39"W	69.63'

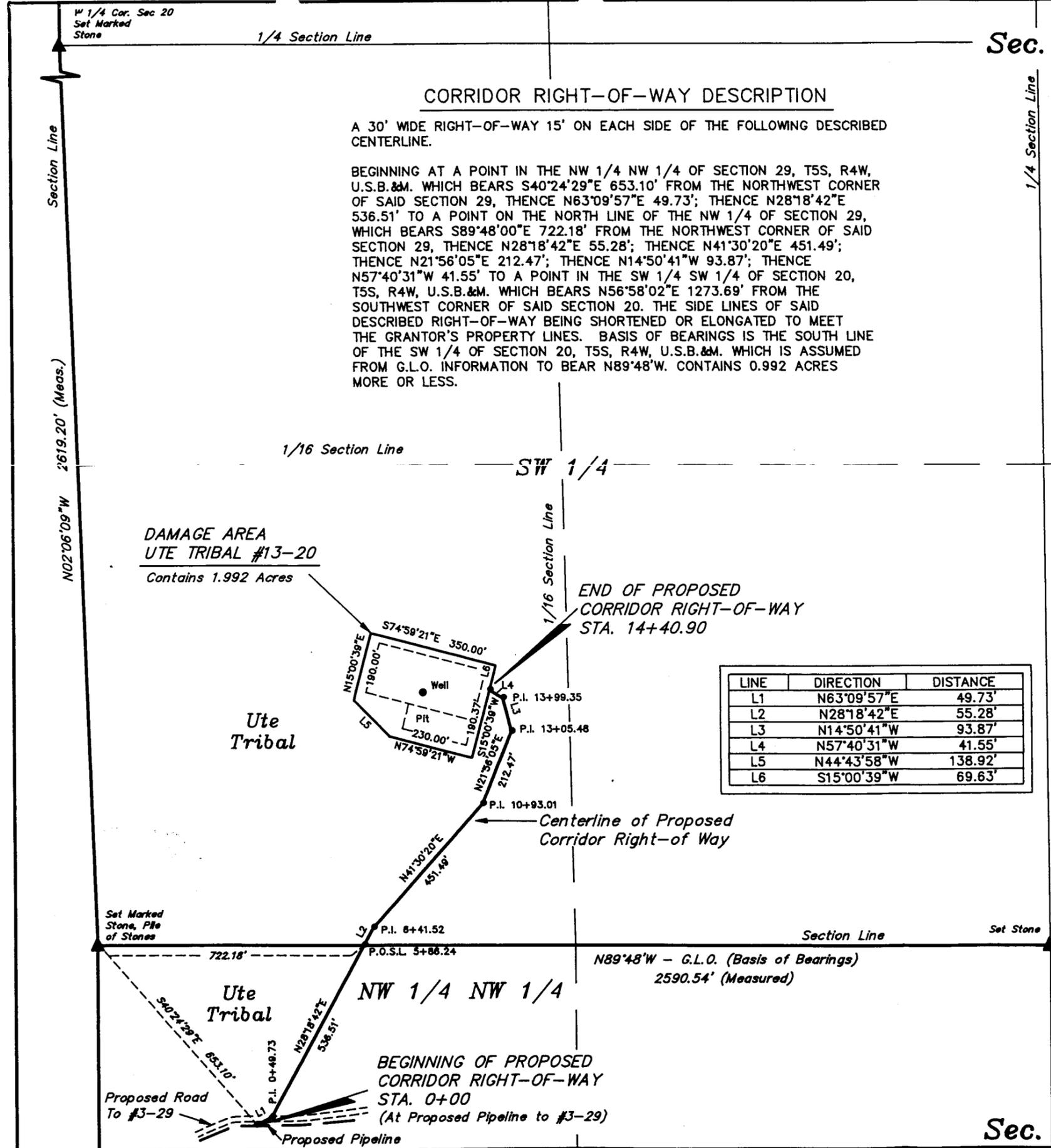
**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME AND UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



**UNTAM ENGINEERING & LAND SURVEYING**  
 85 SOUTH - 200 EAST • (801) 789-1017  
 VERNAL, UTAH - 84078

SCALE 1" = 300'	DATE 06-18-97
PARTY G.S. J.W. D.R.B.	REFERENCES G.L.O. PLAT
WEATHER WARM	FILE 4 1 0 0 6



Sec. 29

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 08/08/97

API NO. ASSIGNED: 43-013-31662

WELL NAME: UTE TRIBAL 13-20  
 OPERATOR: BARRETT RESOURCES (N9305)

PROPOSED LOCATION:  
 SWSW 20 - T05S - R04W  
 SURFACE: 0689-FSL-0909-FWL  
 BOTTOM: 0689-FSL-0909-FWL  
 DUCHESNE COUNTY  
 BRUNDAGE CANYON FIELD (072)

INSPECT LOCATION BY: / /		
TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: IND  
 LEASE NUMBER: 14-20-H62-3529

PROPOSED PRODUCING FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

Plat  
 Bond: Federal  State  Fee   
 (Number 6101757342)

Potash (Y/N)  
 Oil shale (Y/N)  
 Water permit  
 (Number 43-1721)

RDCC Review (Y/N)  
 (Date: \_\_\_\_\_)

LOCATION AND SITING:

\_\_\_ R649-2-3. Unit: \_\_\_\_\_

\_\_\_ R649-3-2. General.

R649-3-3. Exception. *EXCEPTION REQUESTED*

\_\_\_ Drilling Unit.  
 Board Cause no: \_\_\_\_\_  
 Date: \_\_\_\_\_

COMMENTS: Exc. loc. OK - see letter dated 7/23/97.

STIPULATIONS: \_\_\_\_\_

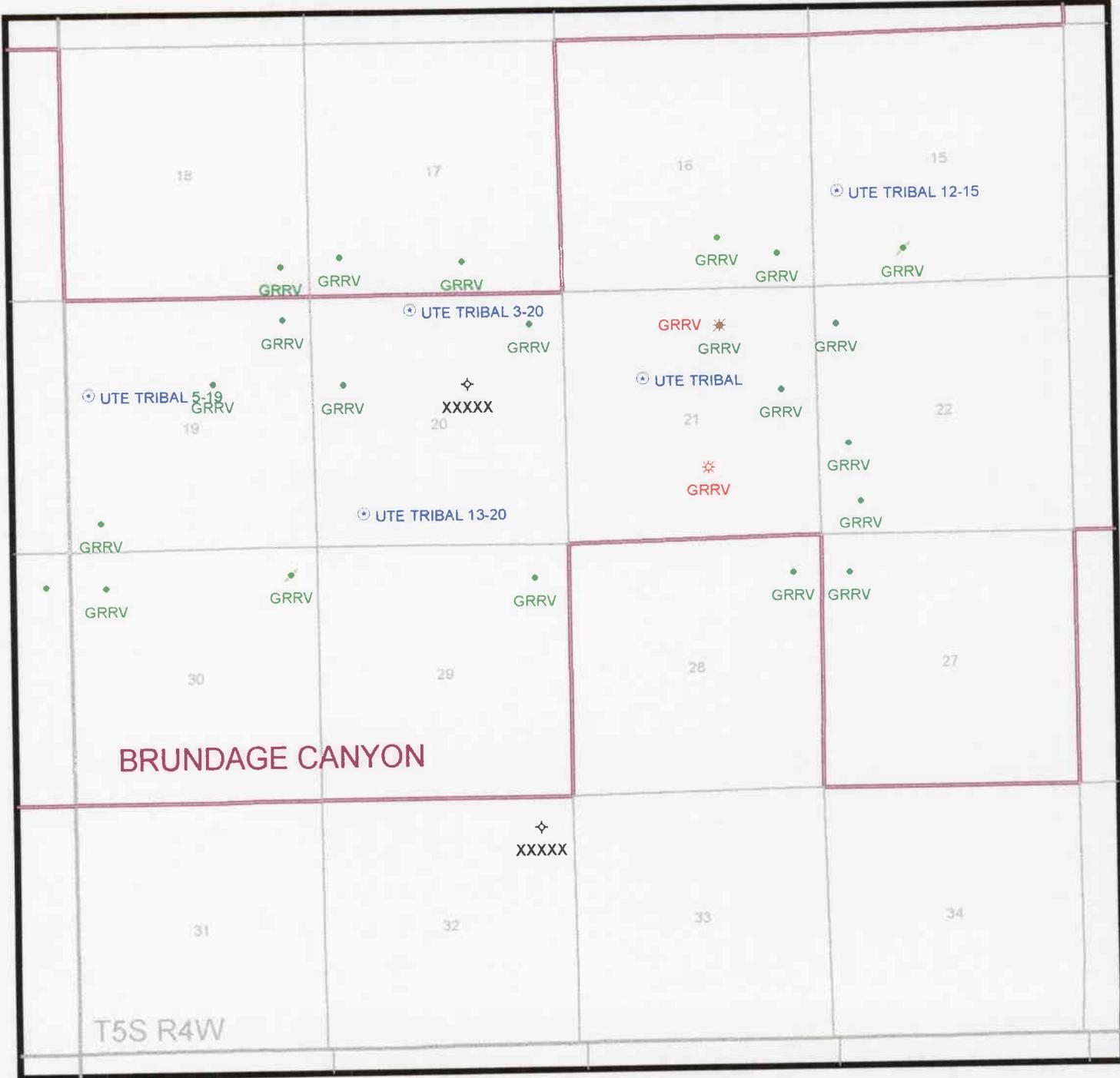
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

OPERATOR: BARRETT RESOURCES (N9305)  
 FIELD: BRUNDAGE CANYON (072)  
 SEC, TWP, RNG: 15,19,20 & 21, T5S, R4W  
 COUNTY: DUCHESNE UAC: R649-3-2 & R649-3-3



PREPARED:  
 DATE: 11-AUG-97



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

1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801  
801-538-5340  
801-359-3940 (Fax)  
801-538-7223 (TDD)

February 10, 1998

Barrett Resources Corporation  
P.O. Box 290  
Neola, Utah 84053

Re: Ute Tribal 13-20 Well, 589' FSL, 909' FWL, SW SW, Sec. 20,  
T. 5 S., R. 4 W., Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-31662.

Sincerely,

A handwritten signature in black ink, appearing to read 'John R. Baza'.

John R. Baza  
Associate Director

lwp

Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal District Office

Operator: Barrett Resources Corporation  
Well Name & Number: Ute Tribal 13-20  
API Number: 43-013-31662  
Lease: 14-20-H62-3529  
Location: SW SW Sec. 20 T. 5 S. R. 4 W.

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jim Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact John R. Baza (801)538-5334.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.



**CONDITIONS OF APPROVAL**  
**APPLICATION FOR PERMIT TO DRILL**

Company/Operator: Barrett Resources Corporation

Well Name & Number: Ute Tribal 13-20

API Number: 43-013-31662

Lease Number: 14-20-H62-3529

Location: SWSW Sec. 20 T. 5S R. 4W

**NOTIFICATION REQUIREMENTS**

- Location Construction - at least forty-eight (48) hours prior to construction of location and access roads.
- Location Completion - prior to moving on the drilling rig.
- Spud Notice - at least twenty-four (24) hours prior to spudding the well.
- Casing String and Cementing - at least twenty-four (24) hours prior to running casing and cementing all casing strings.
- BOP and Related Equipment Tests - at least twenty-four (24) hours prior to initiating pressure tests.
- First Production Notice - within five (5) business days after new well begins, or production resumes after well has been off production for more than ninety (90) days.

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

## CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

### A. DRILLING PROGRAM

#### 1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to Tim Ingwell of this office **prior to setting the next casing string or requesting plugging orders**. Faxed copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

#### 2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a **3M** system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the base of the usable water zone, identified at 2,620 ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. .Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to the top of the cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within thirty (30) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling onlease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted on initial meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, please contact one of the following individuals:

Ed Forsman (801) 789-7077  
Petroleum Engineer

Wayne P. Bankert (801) 789-4170  
Petroleum Engineer

Jerry Kenczka (801) 781-1190  
Petroleum Engineer

BLM FAX Machine (801) 781-4410

**EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES**

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

## **SURFACE CONDITIONS OF APPROVAL**

The Ute Tribe Energy and Mineral Department is to be notified 48 hours prior to construction. A Tribal Technician is to monitor construction.

Rights-Of-Way (ROWs) corridor shall be granted for the following:

Access roads which shall have constructed travel width limited to 18 feet.

Surface pipelines will be constructed to lay on the soil surface. The ROW for the pipeline will not be bladed or cleared of vegetation. The pipeline shall be either constructed on the access road and then lifted to its location or welded in place at a welding station at the wellsite or along the access road and dragged into place with a suitable piece of equipment so the construction process will not destroy the natural vegetation.

Barrett Resources Corporation will assure the Ute Tribe that any/all contractors and subcontractors have acquired a Tribal Business License and have access permits prior to construction.

All vehicular traffic, personnel movement, construction, and restoration activities shall be confined to the areas examined, as referenced in report, and to the existing roadways and/or evaluated access routes. Traffic shall be confined to the designated road right-of-way and pipeline construction to the designated corridor and existing or authorized pads and roads.

All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.

The Ute Tribe Energy & Mineral Department shall be consulted if cultural remains from subsurface deposits are exposed or identified during construction.

Before the site is abandoned, the company will be required to restore the well site and ROWs to near their original state. The disturbed areas will be reseeded with desirable perennial vegetation.

Noxious weeds will be controlled on the well site and rights-of-way. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.

Reserve pits will be lined with impervious synthetic liners. Liners will be constructed to lay under the mud tanks and shall be reinforced to prevent the liner from developing holes where fluids flow from the mud tank into the reserve pit. Prior to backfilling the reserve pit all fluids will be pumped from the pit into trucks and hauled to approved disposal sites. When the reserve pits are backfilled the surplus oil and mud, etc will be buried to a minimum of 3.0 feet below the surface of the soil.

A closed production system will be used. Production fluids will be contained in leak proof tanks. All production fluids will be disposed of at approved disposal sites. The indiscriminate dumping of production fluids on roads, wellsites or other areas will not be allowed.

Upon completion of the project approved under this Application for Permit to Drill and Right-of-way, the Ute Tribe Energy & Minerals Resources Department will be notified by Barrett Resources Corporation so that a Tribal Technician can verify Affidavit of Completion's.

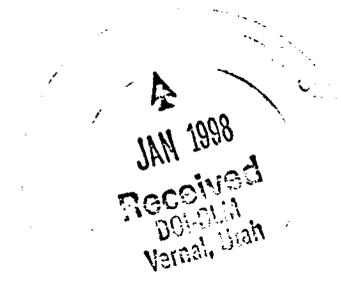
UNITED STATES GOVERNMENT  
**memorandum**

DATE: January 27, 1998

REPLY TO  
ATTN OF: Superintendent, Uintah & Ouray Agency

SUBJECT: APD Concurrence Letter for BARRETT RESOURCES CORP.

TO: Bureau of Land Management, Vernal District Office  
Attention: Minerals and Mining Division **RECEIVED**



**JAN 29 1998**

We recommend approval of the Application for Permit to Drill on the wells listed below.

**TOWNSHIP 5 SOUTH, RANGE 4 WEST, USB&M**

Ute Tribal #13-20	Section 20, SW/4SW/4
	1. Location to include a 30 foot corridor ROW for 1440' surface pipeline and .03 access road
	2. Access road shall be limited to 18 feet, except for sharp turns or at intersections

Based on available information received on January 26, 1998 and July 8, 1997, we cleared the proposed location in the following areas of environmental impact.

YES	<input checked="" type="checkbox"/>	NO		Listed threatened or endangered species
YES	<input checked="" type="checkbox"/>	NO		Critical wildlife habitat
YES	<input type="checkbox"/>	NO		Archaeological or cultural resources
YES	<input type="checkbox"/>	NO		Air quality aspects (to be used only if Project is in or adjacent to a Class I area)

Enclosed a copy of the Bureau of Indian Affairs, Environmental Analysis Item 6.0 for Mitigation Stipulations.

REMARKS: The Ute Tribe Energy & Minerals Department requires that Petroglyph adhere to the following criteria during all phases of construction activities, during and after.

1. The Ute Tribe Energy and Minerals Department is to be notified 48 hours prior to construction, as a Tribal Technician is to monitor construction.
2. Barrett Resources will assure the Ute Tribe that any/all contractor and any sub-contractors have acquired a Tribal Business license and have an access permit prior to construction.
3. All vehicular traffic, personnel movement, construction and restoration operations should be confined to the areas examined, as referenced in report, and to the existing roadways and/or evaluated access routes.
4. All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.

5. The personnel from the Ute Energy and Minerals Department should be consulted should cultural remains from subsurface deposits be exposed or identified during construction.
6. All mitigative stipulations contained in the Bureau of Indian Affairs site specific Environmental Analysis (EA), will be strictly adhered.

If you have any questions in regards to the above, please feel free to contact us (435) 722-4310.

A handwritten signature in black ink, appearing to be 'M. A. ...', located in the lower right quadrant of the page.

**SITE SPECIFIC  
ENVIRONMENTAL ANALYSIS**

**RECEIVED**

JAN 29 1998

**1.0 PROPOSED ACTION**

Barrett Resources Corporation., Inc. is proposing to drill oil well Ute Tribal #13-20 and construct a plastic surface pipeline, and an access road..

**2.0 ALTERNATIVE ACTIONS**

- A. ALTERNATIVE CONSIDERED: The proposed action is the preferred alternative.
- B. NO ACTION: Under the no action alternative the proposed action would not be implemented.
- C. OTHER: NA

**3.0 PERMITTEE/LOCATION**

- A. Permittee- Barrett Resources Corporation, Ind.
- B. Date 6-30-97
- C. Well number- Ute Tribal 13-20
- D. Right-of-way- 0.3 mile of access road & 1440 feet of surface plastic pipeline in a corridor right-of-way.
- E. Site location- SWSW, Section 20, T5S, R4W, USB&M.

**4.0 SITE SPECIFIC SURVEY**

**A. SITE DESCRIPTION**

- 1. Elevation (feet) 6645
- 2. Annual precipitation (inches)- 12-14
- 3. Topography- hills
- 4. Soil- The soil texture is (0 to 6") shallow gravelly loam over bedrock with moderate permeability.

**B. VEGETATION**

- 1. Habitat type is upland pinion juniper.
- 2. Percent Ground Cover- estimated to be 60%.
- 3. Vegetation consists of approximately 5% grasses, 20% shrubs, 3% forbs, 72% Trees. The main variety of grasses are blue grama, bluebunch wheat, squirrel tail, needle & thread, poa. Forbs are lambs quarter, gilia, penstamen, mustard. Scrubs are black sage, snake weed. Trees are pinion pine & Utah juniper.
- 4. Observed Threatened & Endangered species: None.

- 5. Potential For Threatened & Endangered species: Slight
- 7. Observed Noxious Weeds: None
- 8. AFFECTED ENVIRONMENTAL
  - 1. There are no surface damages as a result of the initial survey.

#### 4.1 WILDLIFE

##### A. POTENTIAL SITE UTILIZATION

- 1. Big Game-The area is used throughout the year by mule deer, and elk. (elk & mule deer use this area most during spring & fall.)
- 2. Small Game-The area is used by cottontail rabbit.
- 3. Raptor- Various species of raptors use this area for habitat. Raptors which are observed using the area are Golden eagles, Redtail hawk, & Kestrel.
- 5. Non-Game Wildlife- Animal species which have been observed using this area are black tail jack rabbit, coyote, fox, badger, and various species of reptiles, and song birds.
- 6. Threatened & Endangered Species: No T&E species are reported using the area of this project.

#### 4.2 PRESENT SITE USE

##### A. USAGE

	<u>acres</u>
Rangeland	2.64
Irrigable land	0
Woodland	0
Non-Irrigable land	2.64
Commercial timber	0
Floodplain	0
Wetland	0
Riparian	0
Other:	0

#### 4.3 CULTURAL RESOURCES

##### A. CULTURAL SURVEY

Cultural Resource Surveys were performed by James A. Truesdale, an Independent Archaeologist.

#### 5.0 ENVIRONMENTAL IMPACTS

A. SURFACE ALTERATIONS

	<u>acres</u>
1. Access road	0.00
2. Well site	1.65
3. Pipeline right-of-way	0.00
4. Corridor right-of-way	0.99
5. Total area disturbed	2.64

B. VEGETATION/LANDSCAPE

1. Production loss (AUM's)/year: 0.19
2. Permanent scar on landscape: Yes x No
3. Potential impacts to Threatened & Endangered species:  
Yes No X

C. SOIL/RANGE/WATERSHED

There will be an increase in soil erosion from wind and water. There will not be any possible point source of water pollution.

The area is presently used as rangeland. In recent years the area has been permitted for livestock grazing by the Ute Tribal Livestock Enterprise. This project will reduce livestock grazing by approximately 0.19 AUM/year.

The area is not used as irrigated cropland and a water right has not been designated for the area.

D. WILDLIFE/THREATENED & ENDANGERED SPECIES

There will be an insignificant reduction of wildlife habitat and grazing for livestock. There will also be an increase in wildlife disturbance and poaching resulting from the additional traffic and people using the area.

There are no known impacts to Threatened or Endangered species. The area is important spring & fall range for big game.

**6.0 MITIGATION STIPULATIONS**

A. VEGETATION/LANDSCAPE

1. Before the site is abandoned the company will be required to restore the well site and right-of-ways to near their original state. The disturbed area will be reseeded with desirable perennial vegetation.
2. Noxious weeds will be controlled on the well site and rights-of-way. If noxious weeds spread from the project area onto adjoining land, the company

will also be responsible for their control.

#### B. SOILS/RANGE/WATERSHEDS

1. Soil erosion will be mitigated by reseeded all disturbed areas.

#### 2. SURFACE PIPELINES

Surface pipelines will be constructed to lay on the soil surface, and the right-of-way will not be bladed or cleared of vegetation.

#### 3. RIGHT-OF-WAY

A 30 foot wide right-of-way will be used for, surface pipelines, and an access road.

#### 4. ACCESS ROADS

Although the access road rights-of-way is 30 feet, the constructed travel width of the access road shall be limited to 18 feet, except it may be wider where sharp curves, or intersections are required.

#### 5. DRILLING SYSTEM

An open drilling system will be used. Reserve pits will be lined with impervious synthetic liners. Prior to backfilling the reserve pit all fluids will be pumped from the pit into trucks and hauled to approved disposal sites. When the reserve pits are backfilled the surplus oil and mud, etc will be buried a minimum of 3.0 feet below the surface of the soil.

#### 6. PRODUCTION SYSTEM

A closed production system will be used. Production fluids will be contained in leak proof tanks. All production fluids will be disposed of at approved disposal sites. The indiscriminate dumping of production fluids on roads, wellsites or other areas will not be allowed.

#### C. WILDLIFE/VEGETATION/THREATENED & ENDANGERED SPECIES

Because no T&E species have been identified with this location no stipulations have been required for their protection.

#### D. CULTURAL RESOURCES

Cultural resource surveys were performed by James A. Truesdale. The consultant recommends clearance of the project as it is presently staked.

## E. UTE TRIBAL REGULATIONS

(1). Prior to commencing surveys or construction on the U&O Indian Reservation the operator, and any of its sub-contractors, shall acquire access permits and business permits from the Ute Indian Tribe.

(2). Prior to the commencement of construction, the operator shall notify the Ute Tribal Department of Energy and Minerals of the date construction shall begin.

## 7.0 UNAVOIDABLE ADVERSE IMPACTS

### A. SURFACE ALTERATIONS

None of the adverse impacts listed in 5.0 above can be avoided in a practical manner except those which are mitigated in item 6.0 above, and those specified in BLM's 13 point surface use plan.

### B. RELATIONSHIP BETWEEN SHORT-TERM USE OF THE ENVIRONMENT VS LONG TERM PRODUCTIVITY.

1. Short Term: (Estimated 20 years) A total loss of production on the land and the associated environmental impacts will continue to influence the surrounding area for the productive life of the well.
2. Long Term: Standard policies provide for rehabilitation of wellsite and rights-of-ways. After the land is rehabilitated, it is not expected to return to its original productive capability. Normally, there will be a permanent scar left on the landscape.

### C. IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT

Oil and Gas are non-renewable resources, once they have been removed they can never be replaced.

## 8.0 CUMULATIVE IMPACTS

### A. FULL DEVELOPMENT

Each additional well drilled for development increases the soil erosion potential, reduces wildlife habitat and grazing, increases potential soil and geologic pollution resulting from salt loading, reduces the soil's potential to recover, and increases the potential of water pollution from produced waters and hydro-carbons. Therefore, strict conformance with the mitigation measures and recommendations in this document is

emphasized to minimize the adverse environmental impacts.

9.0 NEPA COMPLIANCE

RESEARCH/DOCUMENTATION

Based on available information, 7-3-97, the proposed location in the following areas of environmental impacts has been cleared:

<u> X </u>	Yes	<u>    </u>	No	Listed Threatened & Endangered species
<u> X </u>	Yes	<u>    </u>	No	Critical wildlife habitat
<u> X </u>	Yes	<u>    </u>	No	Historical and cultural resources

10.0 REMARKS

SURFACE PROTECTION/REHABILITATION

All essential surface protection and rehabilitation requirements are specified above.

11.0 RECOMMENDATIONS

APPROVAL/DISAPPROVAL

We recommend approval of the proposed action as outlined in item 1.0 above.

-11-97   
Date

*David Hunter*   
Representative - BIA Land Operations, Uintah and Ouray Agency

12.0 DECLARATION

APPROVAL

It has been determined that the proposed action is not a federal action significantly affecting the quality of the environment as it would require the preparation of an environmental impact statement in accordance with Section 102 (2) (c) of the National Environmental Policy Act of 1969 (42 USC 4331) (2) (C).

9/12/97   
Date

*[Signature]*   
Superintendent,  
Uintah and Ouray Agency

## 14.0 CONSULTATION

### A. REPRESENTATIVES/ORGANIZATION

Dale Hanberg- BIA  
Mike Brady-Contractor  
Lonnie Nephi-UTEM  
Greg Darlington-BLM  
Gary Streeter-Uintah Engineering  
Doug Barone-Barrett Resources  
Roger Mitchell-Contractor  
Kevin Kielbasa-Contractor

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RECEIVED February 1 1999

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Vernal Field Office

170 South 500 East

Vernal, Utah 84078-2799

[http //www.blm.gov/utah/vernal](http://www.blm.gov/utah/vernal)

Phone: (435) 781-4400

Fax: (435) 781-4410

IN REPLY REFER TO:

3160

UT08300

February 22, 1999

Barrett Resources Corporation  
P O Box 290  
Neola, Utah 84053

31662  
43-013-~~31065~~

Re: Notification of Expiration  
Well No. Ute Tribal 13-20  
SWSW, Section 20, T5S, R4W  
Lease No. 14-20-H62-3529  
Duchesne County, Utah

Dear Mr. Barone:

The Application for Permit to Drill the above-referenced well was approved on February 5, 1998. Since that date no known activity has transpired at the approved location. Applications for Permit to Drill are effective for a period of one year. In view of the foregoing, this office is notifying you the approval of the referenced application has expired. If you intend to drill at this location at a future date, a new Application for Permit to Drill must be submitted.

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

Sincerely,

Margie Herrmann  
Legal Instruments Examiner

cc: State Div. OG&M

2/16/99



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