

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG \_\_\_\_\_ ELECTRIC LOGS \_\_\_\_\_ FILE **X** WATER SANDS \_\_\_\_\_ LOCATION INSPEC \_\_\_\_\_ SUB. REPORT/abd \_\_\_\_\_

**990536 LA'D eff 5-21-99!**

DATE FILED **FEBRUARY 28, 1997**

LAND: FEE & PATENTED \_\_\_\_\_ STATE LEASE NO. \_\_\_\_\_ PUBLIC LEASE NO. \_\_\_\_\_ INDIAN # \_\_\_\_\_

DRILLING APPROVED: **NOVEMBER 24, 1997** UTE **14-20-H62**

SPUDED IN: \_\_\_\_\_  
 COMPLETED: \_\_\_\_\_ PUT TO PRODUCING: \_\_\_\_\_

INITIAL PRODUCTION \_\_\_\_\_  
 GRAVITY A.P.I. \_\_\_\_\_  
 GOR \_\_\_\_\_

PRODUCING ZONES \_\_\_\_\_  
 TOTAL DEPTH \_\_\_\_\_  
 WELL ELEVATION \_\_\_\_\_

DATE ABANDONED: **LA'D 5-21-99**  
 FIELD: **BRUNDAGE CANYON**

UNIT: \_\_\_\_\_  
 COUNTY: **DUCHESNE**

WELL NO. **UTE TRIBAL 16-21** API NO. **43-013-31839**

LOCATION **700 FSL** FT. FROM (N) (S) LINE. **690 FEL** FT. FROM (E) (W) LINE. **SE SE** /4 - 1/4 SEC. **21**

TWP	RGE	SEC.	OPERATOR	TWP	RGE	SEC.	OPERATOR
				<b>5S</b>	<b>4W</b>	<b>21</b>	<b>BARRETT RESOURCES</b>

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 Corp

3. ADDRESS OF OPERATOR  
 PO BOX 290, Neola, UT 84053

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface  
 SE 1/4, SE 1/4, 700 FSL, 690' FEL, SEC 21 T.5S, R.4W  
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 21.4 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)                      690'

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.                      1600'

16. NO. OF ACRES IN LEASE                      640

17. NO. OF ACRES ASSIGNED TO THIS WELL                      40

19. PROPOSED DEPTH                      5990'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)                      6630'

22. APPROX. DATE WORK WILL START\*  
 APRIL 15, 1997

5. LEASE DESIGNATION AND SERIAL NO.  
 UTE 14-20-H62

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.  
 UTE TRIBAL 16-21

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 SEC 21, T5S, R4W

12. COUNTY OR PARISH                      13. STATE  
 Duchesne                      Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

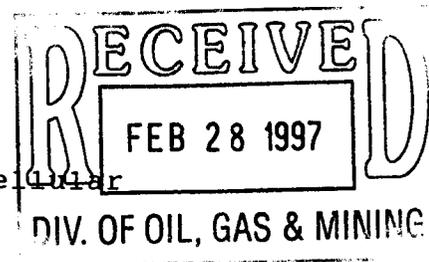
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/2	8-5/8	24	28	TO SURFACE
7-7/8	5 1/2	15.5	5990'	CMT TOP TO COVER OIL SHALE

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:

Doug Barone  
 PO Box 290  
 Neola, UT 84053

801-353-4625 office / 801-828-6116 cellular



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 Doug Barone TITLE Production Supervisor DATE 2-10-97

(This space for Federal or State office use)

PERMIT NO. 43-013-31839 APPROVAL DATE \_\_\_\_\_

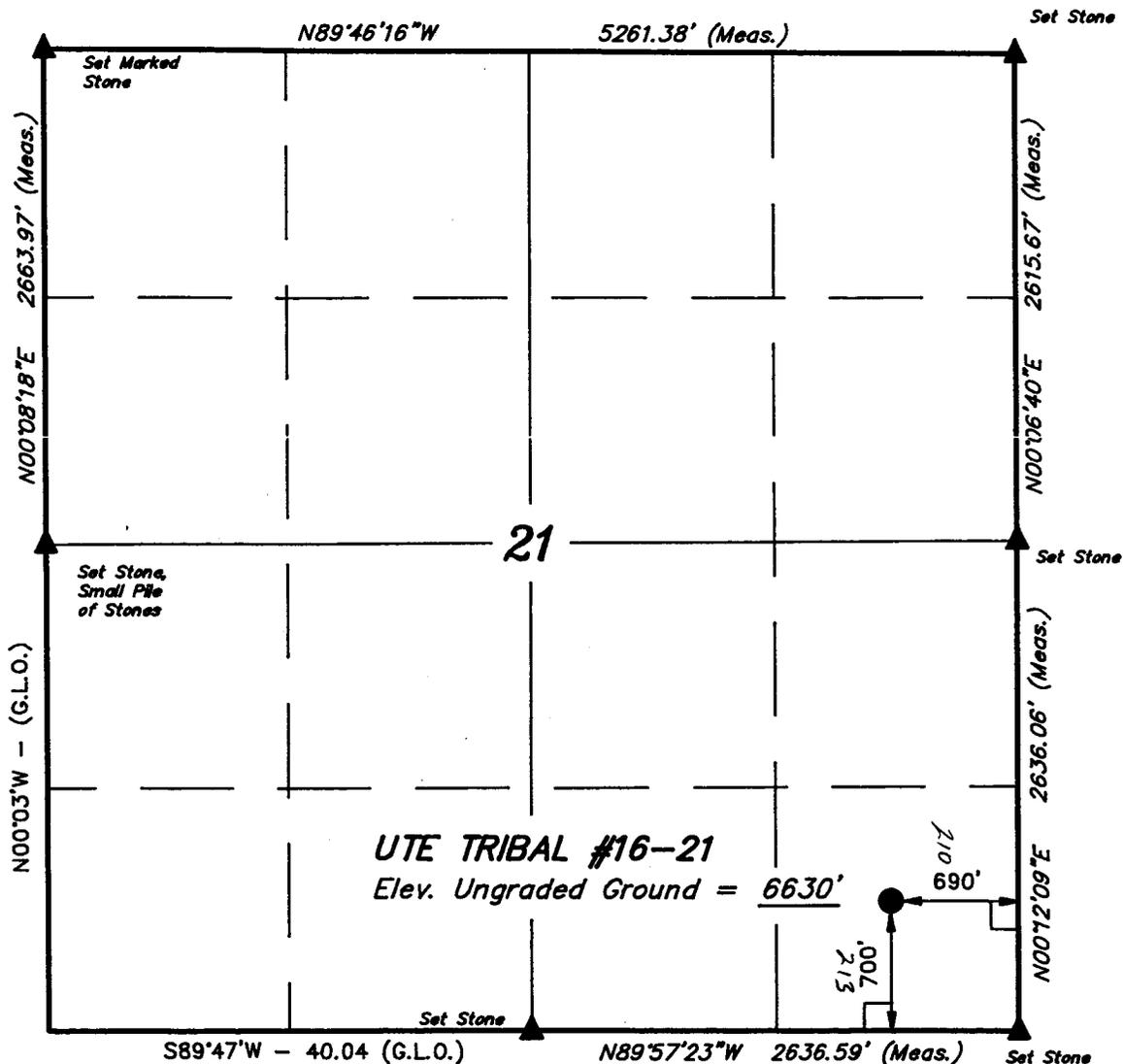
APPROVED BY John R. Boye TITLE Associate Director Utah DOGM DATE 11/24/97  
 CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_

\*See Instructions On Reverse Side

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

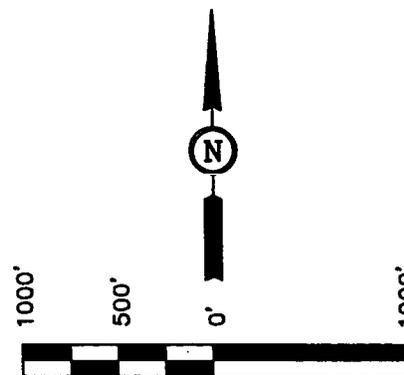
**BARRETT RESOURCES CORPORATION**

Well location, UTE TRIBAL #16-21, located as shown in the SE 1/4 SE 1/4 of Section 21, T5S, R4W, U.S.B.&M. Duchesne County, Utah.



BASIS OF ELEVATION

BENCH MARK LOCATED IN THE NW 1/4 SW 1/4 OF SECTION 9, 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 6098 FEET.



SCALE

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. Gray*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH

**UINTAH ENGINEERING & LAND SURVEYING**

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 10-28-96	DATE DRAWN: 11-5-96
PARTY D.A. B.H. D.R.B.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE BARRETT RESOURCES CORP.	

LEGEND:

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

BASIS OF BEARINGS IS THE WEST LINE OF THE SW 1/4 OF SECTION 16, T5S, R4W, U.S.B.&M. WHICH IS ASSUMED FROM G.L.O. INFORMATION TO BEAR N00°03'W.

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 16-21  
SE1/4, SE1/4, 700 FSL, 690' FEL, SECTION 21, T.5 S, R. 4 W.  
LEASE BIA-14-20-H62  
DUCHESNE, COUNTY, UTAH

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

A handwritten signature in black ink that reads "D.P. Barone". The signature is written in a cursive style with large, looped letters.

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

## **HAZARDOUS MATERIAL DECLARATION**

FOR WELL NO. UTE 16-21

LEASE NO. 14-20-H62

BARRETT RESOURCES CORP. GUARENTEES 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 16-21

SURFACE LOCATION SE1/4, SE 1/4, 700' FSL, 690' FEL, SECTION 21, 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>1433'</u>
Oil Shale	<u>2714'</u>
Tgr3	<u>3743'</u>
Douglas Creek	<u>4513'</u>
Castle Peak	<u>5437' (+1206)</u>
Uteland Butte Ls	<u>5867'</u>
TD	<u>5990' 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	5990'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
	Type 5 HALLIBURTON	FLUID YIELD	3.81 FT3/ SKS
	.75% ECONOLITE ( EXTENDER)	FLUID WATER RATIO	22.98 GAL/SKS
	.25 LB/SK FLOCELE ( LOST CIRC.)	TOTAL MIXING FLUID	47.0 BBLS
	7.5 LB/SK GILSONITE ( LOST CIRC.)	APPROX. TOP FLUID	2000 FT
	16 % HALLIBURTON GEL(EXTENDER)	CALCULATED FILL	1600 FT
	2 LB/SK GRANULITE		
	3 % SALT ( 3%) ( ACCELERATOR )	FLUID VOLUME	56.7BBLS
	.8 % HR-7 RETARDER	CALCULATED VOLUME	86.0 SKS.
	MIXED W/ FRESH WATER	PROPOSED VOLUME	86.0 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	57.6 BBLS
	3% KCL ( BWOW)	APPROX. TOP FLUID	3600
	3 LB/SK SILICALITE	CALC. FILL	2390
	1 LB/SK GRANULITE	FLUID VOLUME	86 BBLS
		CALC. VOLUME	333 SKS
		PROPOSED VOLUME	335 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):**

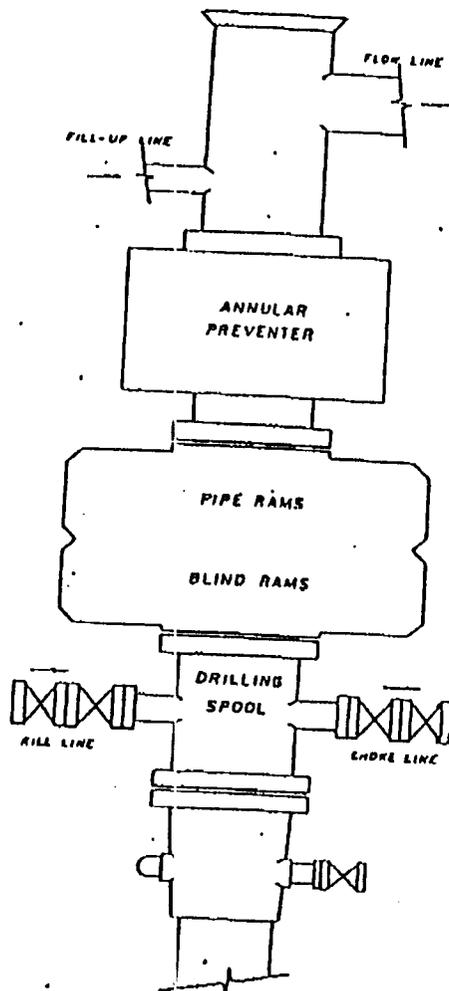
NO ABNORMAL PRESSURES OR TEMPERATURES OR OTHER HAZARDS ARE ANTICIPATED. OIL AND GAS SHOWS ARE ANTICIPATED IN THE GREEN RIVER FORMATION. OTHER WELLS IN THE AREA HAVE NOT ENCOUNTERED OVER- PRESSURED ZONES OR H2S.

**10. DRILLING SCHEDULE:**

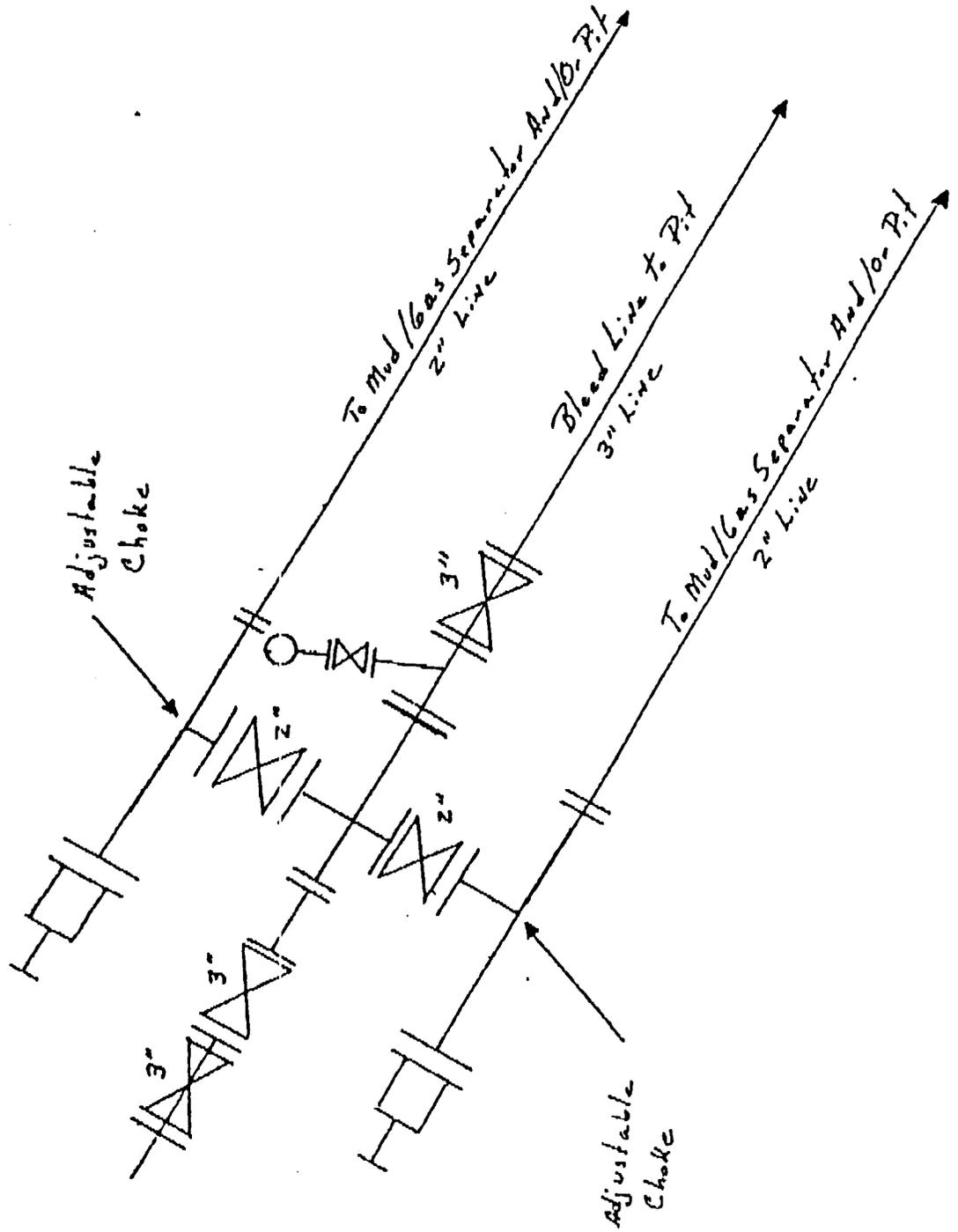
THE ANTICIPATED STARTING DATE IS APRIL 15 , 1997. DURATION OF OPERATIONS IS EXPECTED TO BE 150 DAYS.

### BOP AND PRESSURE CONTAINMENT DATA

1. BOP EQUIPMENT SHALL CONSIST OF A DOUBLE GATE, HYDRAULICALLY OPERATED PREVENTER WITH PIPE & BLIND RAMS OR TWO SINGLE RAM TYPE PREVENTERS, ONE EQUIPPED WITH PIPE RAMS, THE OTHER EQUIPPED WITH BLIND RAMS.
2. BOP'S ARE TO BE WELL BRACED WITH HAND CONTROLS EXTENDED CLEAR OF THE SUBSTRUCTURE.
3. ACCUMULATOR TO PROVIDE CLOSING PRESSURE IN EXCESS OF THAT REQUIRED WITH SUFFICIENT VOLUME TO OPERATE ALL COMPONENTS.
4. AUXILIARY EQUIPMENT: LOWER KELLY COCK, FULL OPENING STABBING VALVE, 2 1/2" CHOKE MANIFLORD, PIT LEVEL INDICATOR &/OR FLOW SENSORS WITH ALARMS.
5. ALL BOP EQUIPMENT, AUXILIARY EQUIPMENT, STAND PIPE, VALVES, & ROTARY HOSE TO BE TESTED TO THE RATE PRESSURE OF THE BOP'S AT THE 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.



### 3000 PSI CHOKE MANIFOLD EQUIPMENT



**BARRETT RESOURCES CORPORATION**

**13 POINT SURFACE USE PLAN**

**FOR**

**WELL LOCATION**

**UTE TRIBAL 16-21**

**LOCATED IN**

**SE 1/4, SE 1/4, 700' FSL, 690' FEL**

**SECTION 21, T 5 S., R 4 W., U.S.B.M.**

**DUCHESNE COUNTY, UTAH**

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

**SURFACE OWNERSHIP: UTE TRIBE**

## **1. EXISTING ROADS**

TO REACH THE BARRETT RESOURCES WELL, UTE TRIBAL 16-21 LOCATION, IN SECTION 21, T5S., R4W.

START IN MYTON, UTAH. PROCEED WEST ON US HIGHWAY 40, 8.8 MILES TO THE ANTILOPE 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 2.1 MILES. TURN SOUTH ON AN OILFIELD ACCESS ROAD AT THE FORK IN THE ROAD AND PROCEED 4.2 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 50 FEET OF NEW ROAD WILL BE REQUIRED.  
DETAILS OF THE CONSTRUCTION ARE AS FOLLOWS;  
LENGTH- 50 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 DEVELOPEMENT.

### 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 2-21, T. 5 S, R. 4 W.
OIL WELL	UTE TRIBAL 8-21, T. 5 S, R. 4 W.
OIL WELL	UTE TRIBAL 10-21, T. 5 S, R. 4 W.
OIL WELL	UTE TRIBAL 4-22, T. 5 S, R. 4 W.
OIL WELL	UTE TRIBAL 12-22, T. 5 S, R. 4 W.
OIL WELL	UTE TRIBAL 13-22, T. 5 S, R. 4 W.
OIL WELL	UTE TRIBAL 4-27, T. 5 S, R. 4 W.
OIL WELL	UTE TRIBAL 1-28, T. 5 S, R. 4 W.
OIL WELL	UTE TRIBAL 16-16, 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, SEPERATOR 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 SUFFUCIENT 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 DISTUBANCES 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. 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 PIT 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-FLAMABLE 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:

A) PAD LENGTH-	300 FT
B) PAD WIDTH-	140 FT
C) PIT DEPTH-	10 FT
D) PIT LEGTH-	180 FT
E) PIT WIDTH-	70 FT
F) MAX CUT-	17.7 FT
G) MAX FILL-	6.8 FT
H) TOTAL CUT YARDS-	11,640 CU YDS
I) PIT LOCATION-	NORHT EAST CORNER
J) TOP SOIL LOCATION-	WEST OF LOCATION
K) ACCESS ROAD LOCATION-	FROM THE NORTH EAST
L) FLARE PIT-	SOUTH CORNER OF LOCATION

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 RECONTOURED 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 RECONTOURED 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 RESEDED. 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 2 MILES TO THE NORTH.

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 FLARE 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 POINTS 5 AND 6 ON THE LOCATION PLAT. ALL FLUIDS WILL BE REMOVED FROM THE PIT WITHIN 48 HOURS OF OCCURANCE.

I) GRAZING PERMITTEE:

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

### 13. LESSEES OR OPERATORS REPRESENTATIVE AND CERTIFICATION

#### A) REPRESENTATIVE

NAME: DOUG BARONE  
ADDRESS: BARRETT RESOURCES CORP. 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 2-10-97

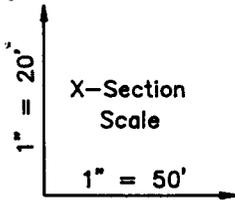
  
Doug Barone  
Production Supervisor  
Barrett Resources Corp.



# BARRETT RESOURCES CORPORATION

## TYPICAL CROSS SECTIONS FOR

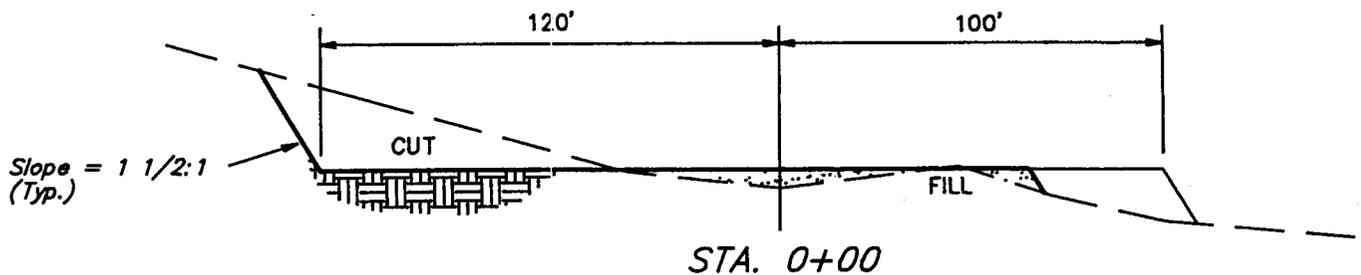
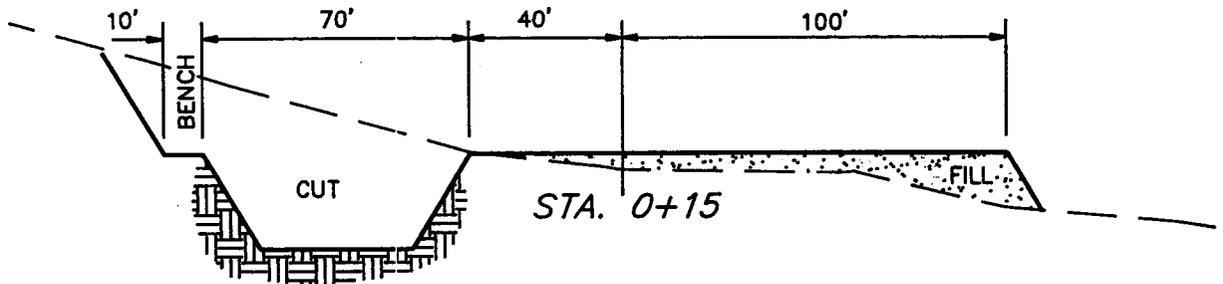
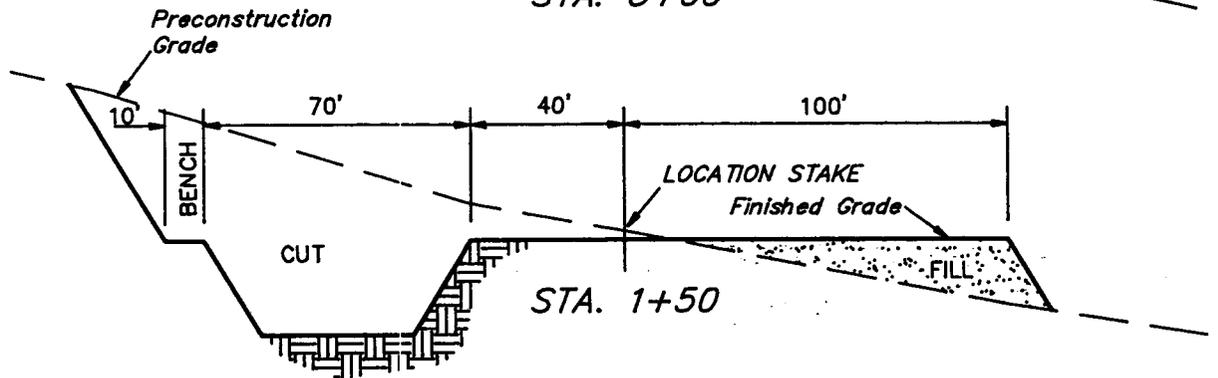
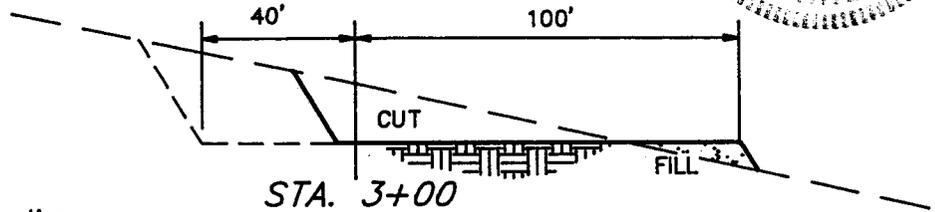
UTE TRIBAL #16-21  
SECTION 21, T5S, R4W, U.S.B.&M.  
700' FSL 690' FEL



DATE: 11-5-96  
DRAWN BY: D.R.B.

**NOTE:**

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

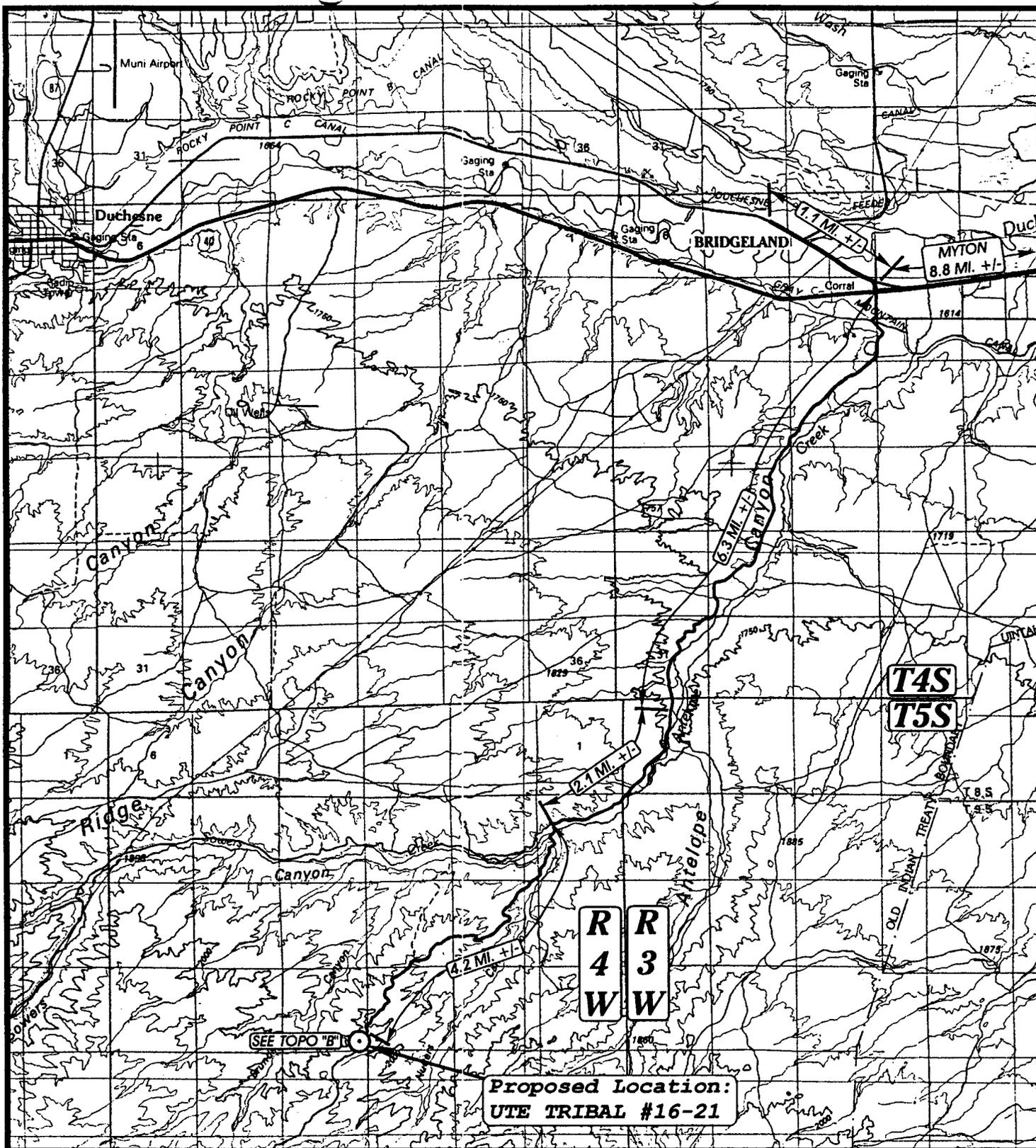


APPROXIMATE YARDAGES

CUT	
(12") Topsoil Stripping	= 2,020 Cu. Yds.
Remaining Location	= 9,620 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 11,640 CU.YDS.</b>
<b>FILL</b>	<b>= 3,750 CU.YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	= 7,690 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,710 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 3,980 Cu. Yds.

**UINTAH ENGINEERING & LAND SURVEYING**  
85 So. 200 East • Vernal, Utah 84078 • (801) 788-1017



**UELS**

**TOPOGRAPHIC  
MAP "A"**

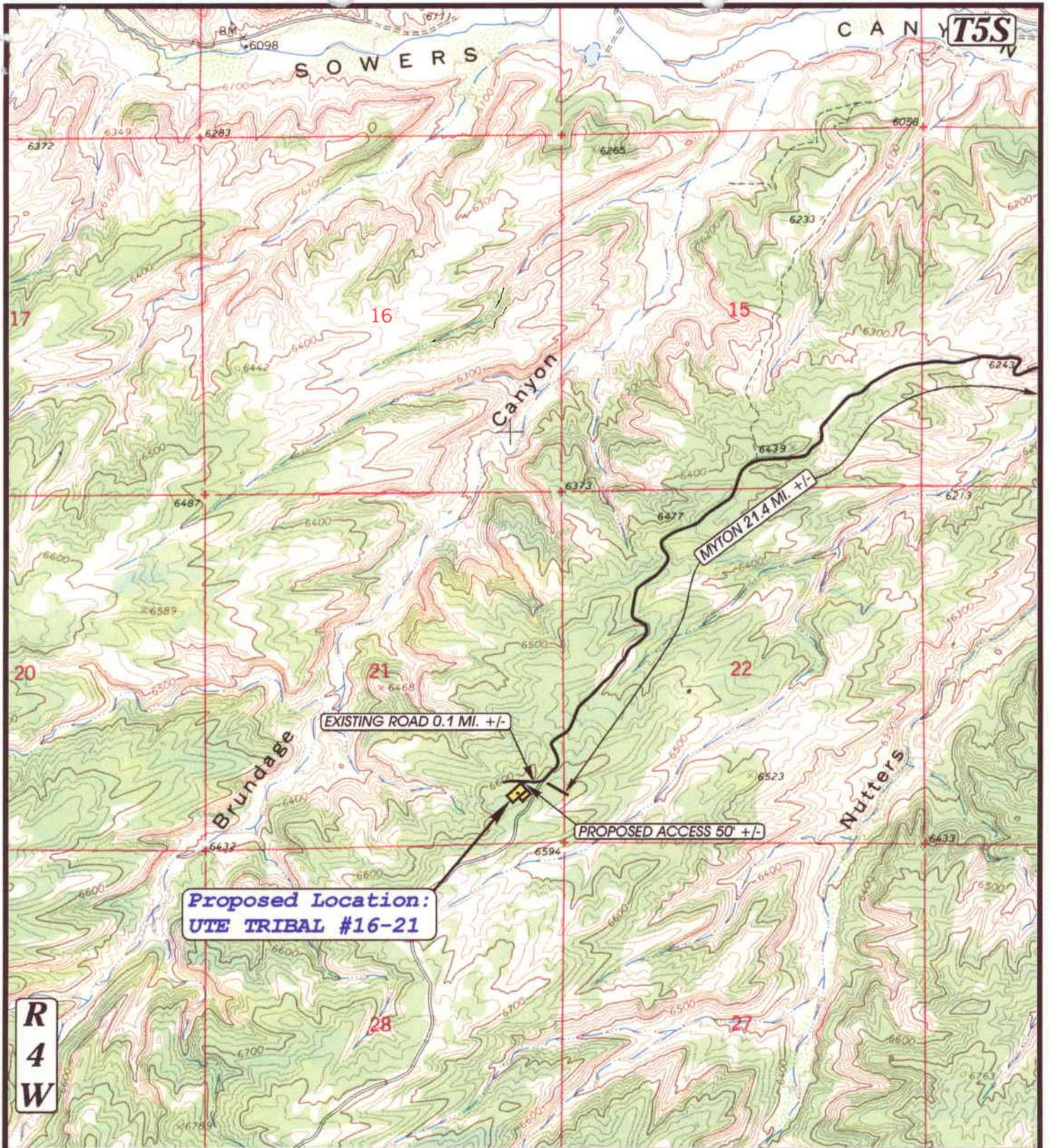
DATE: 11-8-96  
Drawn by: D.COX



**BARRETT RESOURCES CORPORATION**

**UTE TRIBAL #16-21  
SECTION 21, T5S, R4W, U.S.B.&M.  
700' FSL 690' FWL**

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017



**TOPOGRAPHIC  
MAP "B"**

**DATE: 11-9-96  
Drawn by: D.COX**

**BARRETT RESOURCES CORPORATION**

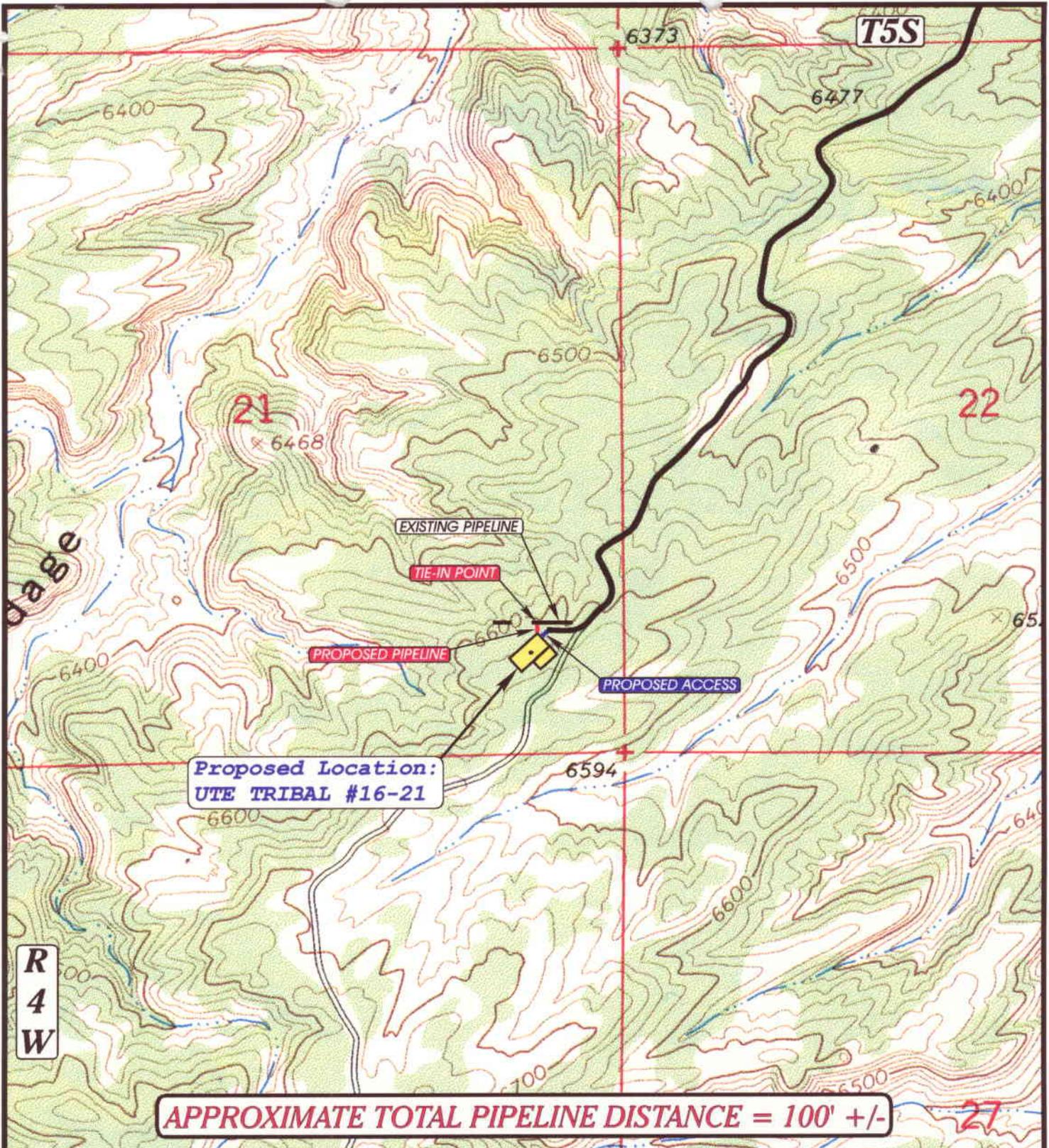
**UTE TRIBAL #16-21  
SECTION 21, T5S, R4W, U.S.B.&M.  
700' FSL 690' FEL**

**UELS**

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017



**SCALE: 1" = 2000'**



**APPROXIMATE TOTAL PIPELINE DISTANCE = 100' +/-**

**UELS**

**TOPOGRAPHIC  
MAP "C"**

- — — Existing Pipeline
- - - Proposed Pipeline



**BARRETT RESOURCES CORPORATION**

**UTE TRIBAL #16-21  
SECTION 21, T5S, R4W, U.S.B.&M.**

**DATE: 11-9-96  
Drawn by: D.COX**

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017

SCALE: 1" = 1000'

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 02/28/97

API NO. ASSIGNED: 43-013-31839
--------------------------------

WELL NAME: UTE TRIBAL 16-21  
 OPERATOR: BARRETT RESOURCES (N9305)

PROPOSED LOCATION:  
 SESE 21 - T05S - R04W  
 SURFACE: 0700-FSL-0690-FEL  
 BOTTOM: 0700-FSL-0690-FEL  
 DUCHESNE COUNTY  
 BRUNDAGE CANYON FIELD (072)

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

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

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 COMMERCIAL SUPPLY)

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

LOCATION AND SITING:

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

R649-3-2. General.

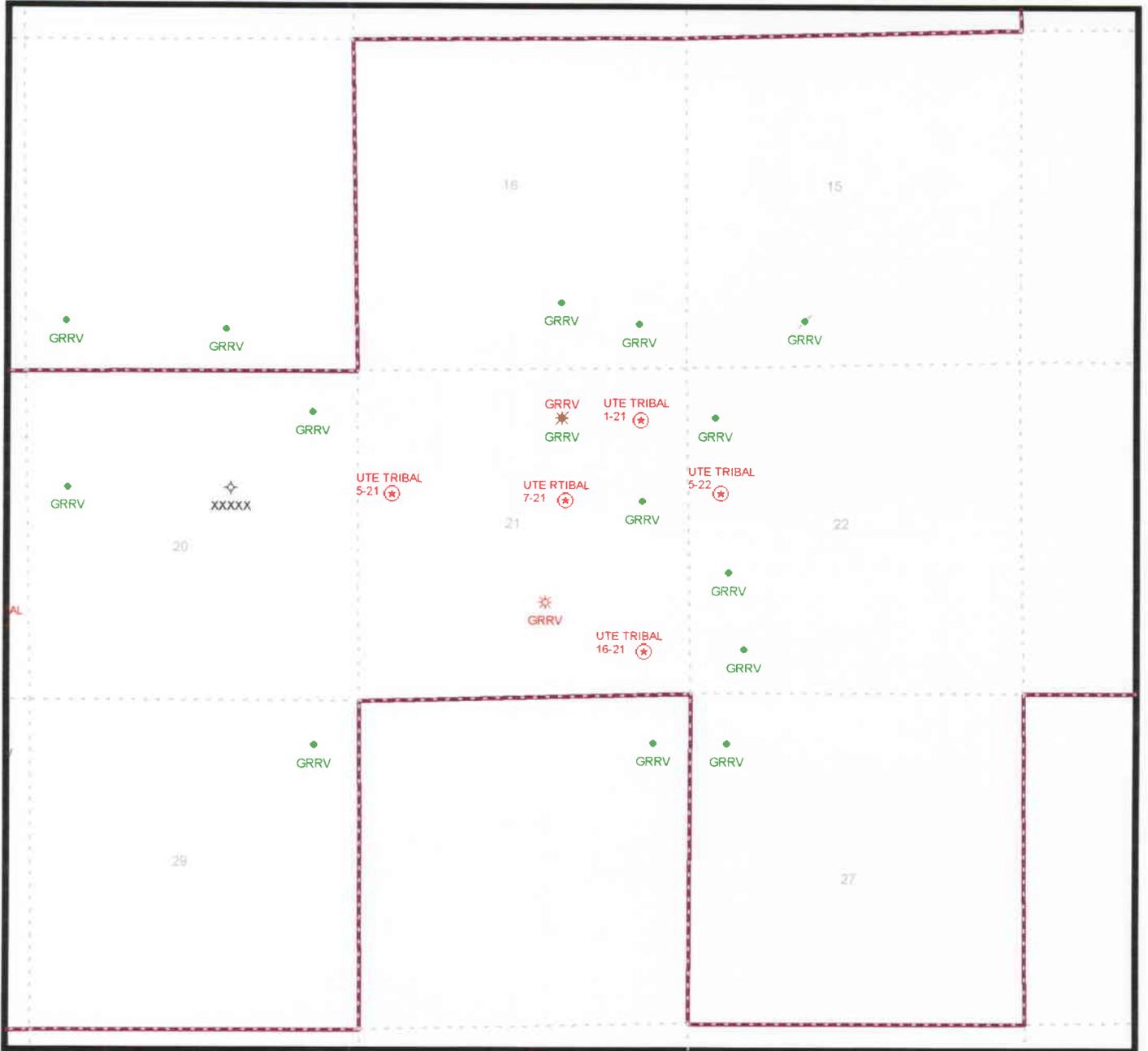
\_\_\_ R649-3-3. Exception.

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

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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

OPERATOR: BARRETT (N9305)  
FIELD: BRUNDAGE CANYON (072)  
SEC, TWP, RNG: 21 & 22, T5S, R4W  
COUNTY: DUCHESNE  
UAC: R649-3-2



PREPARED:  
DATE: 3-MAR-97

DOGMIT

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 Corp

3. ADDRESS OF OPERATOR  
 PO BOX 290, Neola, UT 84053

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
 At surface  
 SE 1/4, SE 1/4, 700 FSL, 690' FEL, SEC 21 T.5S, R.4W  
 At proposed prod. zone  
 43-013-31839

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 21.4 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)  
 690'

16. NO. OF ACRES IN LEASE  
 640

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.  
 1600'

19. PROPOSED DEPTH  
 5990'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 6630'

22. APPROX. DATE WORK WILL START\*  
 APRIL 15, 1997

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	28	TO SURFACE
7-7/8	5 1/2	15.5	5990'	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:

Doug Barone  
 PO Box 290  
 Neola, UT 84053

RECEIVED  
 FEB 20 1997

RECEIVED  
 MAY 22 1997

801-353-4625 office / 801-828-6116 cellular

DIV. OF OIL, GAS & MINING

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 Doug Barone TITLE Production Supervisor DATE 2-10-97

(This space for Federal or State office use)

NOTICE OF APPROVAL

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
 Assistant Field Manager  
 APPROVED BY [Signature] TITLE Mineral Resources DATE MAY 15 1997

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

44-080-7M-153

\*See Instructions On Reverse Side

## memorandum

DATE: MAY 6 1997

REPLY TO  
ATTN OF:

Superintendent, Uintah &amp; Ouray Agency

SUBJECT:

Concurrence Letter for BARRETT RESOURCES CORPORATION  
TOWNSHIP 5 SOUTH, RANGE 4 WESTTO: UT#16-21, SE/4 SEC. 21, UT#1-21, NE/4, SEC. 21 & NW/4 SEC. 22  
UT# 3-19, SE/4 SEC. 18 & N1/2 SEC. 19, UT#7-21, NE/4 SEC. 21Bureau of Land Management, Vernal District Office  
ATTENTION: Minerals and Mining Division

We recommend approval of the Application for Permit to Drill on the subject well.

Based on available information received on MAY 6, 1997, we cleared the proposed location in the following areas of environmental impact.

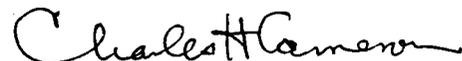
RECEIVED

MAY 12 1997

YES  NO  Listed threatened or endangered species  
 YES  NO  Critical wildlife habitat  
 YES  NO  Archaeological or cultural resources  
 YES  NO  Air quality aspects (to be used only if  
 project is in or adjacent to a Class I area

REMARKS: The Ute Tribe Energy &amp; Minerals Department is recommending the following criteria to be adhered during all phases of construction activities.

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. Access roads shall be limited to 22 feet, except as granted for sharp turns.
3. Barret Resources Corp. will assure the Ute Tribe that any/all contractors and any sub-contractors has acquired a Tribal Business License and have access permits prior to construction.
4. All vehicular traffic, personnel movement, construction and restoration operations should be confined to the area examined, as referenced in report, and to the existing roadways and/or evaluated access routes.
5. All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.
6. The personnel from the Ute Tribe Energy & Minerals Department should be consulted, should cultural remains from subsurface deposits be exposed or identified during construction work.
7. All mitigative stipulations contained in the Bureau of Indian Affairs site specific Environmental Analysis (EA) will be strictly adhered.
8. Upon completion of Application for Right-of-way, the Ute Tribe Energy and Minerals Department will be notified by Barrett Resources Corp., so that a Tribal Technician can verify Affidavits of Completion's.



Attachments: Environmental Analysis Reports (4) 3-19,16-21,7-21,1-21.



United States Department of the Interior

BUREAU OF INDIAN AFFAIRS

UINTAH AND OURAY AGENCY  
FORT DUCHESNE, UTAH 84026

(800) 722-4310

IN REPLY REFER TO: **MINERALS & MINING**

MINERALS & MINING

05/06/97

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

RECEIVED  
MAY 12 1997

Dear Sirs:

This is your authority to proceed with construction of the following proposed wellsites, their access and pipeline rights-of-ways which are identified as Mineral Access Agreements.

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

Ute Tribal 16-21, SE/4, Sec 21.	Ute Tribal 3-19, SE/4 Sec. 18 & N/2 Sec. 19
Ute Tribal 1-21, NE/4 Sec. 21 & NW/4 Sec. 22	Ute Tribal 7-21, NE/4. Sec. 21

Enclosed is a copy of the BIA's, Environmental Analysis Item 6.0 for Mitigation Stipulations for each well. The Ute Tribe Energy & Minerals Department requires that Barrett Resources Corporation 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. Access roads shall be limited to 22 feet, except as granted for sharp turns.
3. Barrett Resources Corporation will assure the Ute Tribe that any/all contractors and any sub-contractors has acquired a Tribal Business License and have access permits prior to construction.
4. All vehicular traffic, personnel movement, construction and restoration operations should be confined to areas examined, as referenced in report, and to the existing and/ or evaluated access routes.
5. All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.
6. The personnel from the Ute Tribe Energy & Minerals Department should be consulted should cultural remains from subsurface deposits be exposed or identified during construction.
7. All mitigative stipulations contained in the Bureau of Indian Affairs site specific Environmental Analysis (EA), will be strictly adhered.

Brt- 16-21,3-19,1-21,7-21 atc ltr.

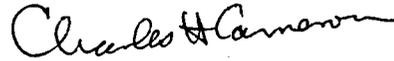
**8. Upon completion of Application for Right -of-way, the Ute Tribe Energy and Minerals Department will be notified by Barrett Resources Corporation, so that a Tribal Tehnician can verify Affidavit of Completions.**

Enclosed are two (2) approved Mineral Access Agreements dated May 6, 1997 for your files. Upon completion of construction, please submit in triplicate, the following documents.

- a. Affidavits of Completion of Construction
- b. "As Built" maps, with accompanying Certification of Right-of-way

If you have any questions in regards to the above, please feel free to contact us at (801) 722-4310.

Sincerely,



Superintendent

Enclosures  
c: winword/atc.doc-



United States Department of the Interior

BUREAU OF INDIAN AFFAIRS

UINTAH AND OURAY AGENCY
FORT DUCHESNE, UTAH 84026
(801) 722-2486

RECEIVED

MAY 12 1997

BY REPLY MAIL TO:
EXHIBIT F

MINERAL ACCESS AGREEMENT
ON INDIAN OWNED LANDS

Well No. UTE TRIBAL 16-21

The purpose of this agreement is to regulate the surface development of Indian Lands which have been leased for oil and gas development. An approved agreement must be obtained prior to the commencement of any surface disturbing activity and will be in effect for the term of the lease and the agreed upon contractual provisions referenced therein. It is not revoked under the terms in Item 4 of this agreement.

1. The authorized officer for the Bureau of Indian Affairs, in conjunction with the Indian Surface owner and Tribe hereby grants permission to:
BARRETT RESOURCES CORPORATION
PO BOX 290
NEOLA, UT 84053

To improve and/or construct and maintain a development corridor which may contain an access road, pipeline, powerlines, communication lines and well pads on the following trust land (reference lease number and legal description):
UTE 14-20-H62, UTE TRIBAL 16-21, SE 1/4, SE 1/4, 700' E 1/4, 690' E 1/4, SEC 21, T5S, R4W

2. In consideration of the approval of this agreement, the above company agrees to adhere to all lease provisions, A.P.D. stipulations and regulations of the Secretary of the Interior now or hereafter in force relative to such leases.
\*\*per\*\*

3. The Company herewith submits an estimated surface damage fee in the amount of \$ agreement, for a total of 2.019 acres Pending Agency appraisal and the Affidavit of Completion.

4. This agreement will remain in effect unless revoked upon 30 days written notice by the Superintendent or the appropriate official, depending upon circumstances.

5. The permittee will submit a certified survey map of the proposed access road and/or well pad with this permit. The map must adhere to all specifications and requirements of the Branch of Minerals and Mining, Uintah and Ouray Agency, Bureau of Indian Affairs. Upon completion of construction, an Affidavit of Completion will be submitted by the company to certify that the construction completed was in accordance to the specifications certified to on the survey map accompanying this agreement.

ON FILE

The Company agrees to furnish a bond in the amount of \$ BIA, or to utilize said company's existing Nationwide Oil and Gas Bond No. 00077 to guarantee performance of this permit.

7. The Company agrees to contact immediately the Bureau of Indian Affairs (BIA) and the Bureau of Land Management (BLM), if cultural resources discovered during construction or anytime during the course of daily operations.

8. ADDITIONAL STIPULATIONS: (If Applicable)

Signed on this 17 day of MARCH, 19 97

WITNESSES:

Gene Mark
Debra Schwarz

APPROVED: 5/16/97
DATE

Charles Cannon
Superintendent

Authorized Agent Signature
AUTHORIZED AGENT
BARRETT RESOURCES CORPORATION
COMPANY NAME
PO BOX 290
ADDRESS
NEOLA, UT 84053
CITY/STATE ZIP CODE

**SITE SPECIFIC  
ENVIRONMENTAL ANALYSIS**

**1.0 PROPOSED ACTION**

Barrett Resources Corporation is proposing to drill the Ute Tribal Well #16-21 and construct 0.1 mile of access road, and 100 feet of surface 4.0 inch diameter pipeline.

**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
- B. Date- 11-13-96
- C. Well number- Ute Tribal #16-21
- D. Right-of-way- Access road 0.1 mile, & 100 feet of pipeline.
- E. Site location SESE, Section 21, T5S, R4W, USB&M.

**4.0 SITE SPECIFIC SURVEY**

**A. SITE DESCRIPTION**

- 1. Elevation (feet) 6630
- 2. Annual precipitation (inches)- 14-16
- 3. Topography- hills
- 4. Soil- The soil texture is (0 to 6") shallow shally loam with moderate permeability over bedrock.

**B. VEGETATION**

- 1. Habitat type is upland/pinon juniper.
- 2. Percent Ground Cover- estimated to be 40%.
- 3. Vegetation consists of approximately 0.05% grasses, 15% shrubs, 10% forbs, 70% trees. The main variety of grasses are Indian rice, Bluebunch wheat, Blue gramma, Squirrel tail, Poa. Forbs are lambs quarter, Astragalus, Lambs quarter, Mustard, and other annuals. Scrubs consist of Black sagebrush, & Mahogany, Snakeweed. Trees are Pinion pine, and 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, & elk. During the winter it is used mainly by mule deer and elk.
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. Ferruginous hawk hunt in the area and are known to nest several miles to the north-east of the project area.
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	1.88
Irrigable land	0
Woodland	0
Non-Irrigable land	1.88
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 archeologist on November 12, 1996.

## 5.0 ENVIRONMENTAL IMPACTS

### A. SURFACE ALTERATIONS

	<u>acres</u>
1. Access road	0.36
2. Well site	1.45
3. Pipeline right-of-way	0.07
4. Total area disturbed	1.88

### B. VEGETATION/LANDSCAPE

1. Production loss (AUM's)/year: 0.13
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 wind and water erosion as a result of removing vegetation and exposing the soil from construction of the wellsite and access road. This will increase water runoff and the soil will remain exposed causing erosion to continue for the life of the well, and until the site is rehabilitated.

The production system will be closed. All produced water and oil field by-products will be contained in closed tanks and they will be disposed of in approved disposal sites.

Within 90 days after the well is completed the reserve pits will be backfilled. Well cuttings, clays, and additives for drilling are not considered hazardous but excess fluids left in the pit after the well is drilled will be hauled to approved disposal pits. The solid contents left in the reserve pits after drilling will be buried on the location. Loading the soil with salt from produced water will only occur when there are accidental spills. Therefore, the impact to the soil resources, or ground water aquifers will be minimal.

The area is presently used as rangeland, and has been permitted for livestock grazing. At the present time the area is being used by the UTLE. This project will reduce wildlife and livestock grazing by approximately 0.13 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 a 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 but the area is important winter range for big game.

Ferruginous Hawks do not use this area for nesting, but they may use the area for hunting. There is an active nest located several miles to the north east of the location in Section 20, T5S, R3W, USB&M. Since 1991 young hawks have been raised every year on the nest.

## 6.0 MITIGATION STIPULATIONS

### A. VEGETATION/LANDSCAPE

1. Before the site is abandoned the company will be required to restore the well pad, and access road to near their original state. The disturbed area will be reseeded with desirable perennial vegetation.

Although the road rights-of-way will be 30 feet wide, the graded area of the road will be limited in most places to 21 feet between the two outer edges of the barrow pits. Where deep cuts are required for road construction, or where intersections or sharp curves occur the road may be constructed wider than 21 feet so that large pieces of equipment will have enough room to make turns.

2. Noxious weeds will be controlled on all well sites and rights-of-way. If noxious weeds spread from the well sites or rights-of-way onto adjoining land, the company will also be responsible for their control.
3. Fire wood will be stockpiled in appropriate locations adjacent to the access road, and wellsite.

### B. SOILS/RANGE/WATERSHEDS

1. Soil erosion will be mitigated by reseeded all disturbed areas.
2. Approximately 17 rods of fence will be constructed around the reserve pit until it is back filled.
3. Salt and pollution loading of the soil and

geological formations will be mitigated by requiring the oil company to:

a. Line reserve pits with impervious synthetic liners.

b. Have a closed production system. All produced waters and by products will either be piped to approved injection wells, or hauled to approved disposal sites.

c. Production water, oil, and other by-products will not be applied to roads or well pads for the control of dust or weeds. Indiscriminate dumping of oil field by-products on tribal lands will not be allowed.

C. WILDLIFE/VEGETATION/THREATENED & ENDANGERED SPECIES

No Threatened & Endangered species have been identified associated with this project. Therefore, no stipulations have been developed 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

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

Company/Operator: Barrett Resources Corporation

Well Name & Number: Ute Tribal 16-21

API Number: 43-013-31839

Lease Number: 14-20-H62-3414

Location: SESE Sec. 21 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 845 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 Surface Use Conditions of Approval all come from the Bureau of Indian Affairs Concurrence Memorandum and Site Specific Environmental Analysis.

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

Thirty (30) foot wide Rights-Of-Way (ROWs) corridor shall be granted for the following:

Access roads shall have travel width limited to 22 feet, except as granted for sharp curves or intersections or where deep cuts are required for road construction.

Barrett 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.

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.

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.

Firewood shall be stockpiled at convenient locations near the wellsite and along the access road.

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.



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)

November 24, 1997

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

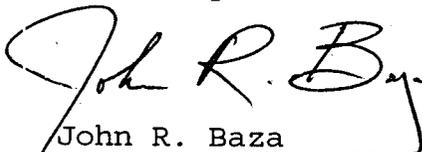
Re: Ute Tribal 16-21 Well, 700' FSL, 690' FEL, SE SE, Sec. 21,  
T. 5 S., R. 4 W., Duchesne County, Utah

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 43-013-31839.

Sincerely,

  
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 16-21  
API Number: 43-C13-31839  
Lease: Ute 14-20-H62  
Location: SE SE Sec. 21 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.

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

6. LEASE DESIGNATION AND SERIAL NO.  
**UTE 14-20-H62-3414**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.  
**UTE TRIBAL 16-21**

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
**SEC 21, T5S, R4W**

12. COUNTY OR PARISH  
**Duchesne**

13. STATE  
**Utah**

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

20. ROTARY OR CABLE TOOLS  
**Rotary**

22. APPROX. DATE WORK WILL START\*  
**APRIL 15, 1997**

**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 Corp**

3. ADDRESS OF OPERATOR  
**PO BOX 290, Neola, UT 84053**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface  
**SE 1/4, SE 1/4, 700 FSL, 690' FEL, SEC 21 T.5S, R.4W**  
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
**21.4 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)      **690'**

16. NO. OF ACRES IN LEASE      **640**

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.      **1600'**

19. PROPOSED DEPTH      **5990'**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)      **6630'**

**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	28	TO SURFACE
7-7/8	5 1/2	15.5	5990'	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:

**RECEIVED**  
**JUL 01 1998**  
 DIV. OF OIL, GAS & MINING

Doug Barone  
 PO Box 290  
 Neola, UT 84053  
 801-353-4625 office / 801-828-6116 cellular

**RECEIVED**  
**FEB 20 1997**

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 Doug Barone TITLE Production Supervisor DATE 2-10-97

(This space for Federal or State office use)

**NOTICE OF APPROVAL**

**43-013-31839**

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
Assistant Field Manager  
 APPROVED BY [Signature] TITLE Mineral Resources DATE MAY 15 1997  
 CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

**UT 080-7M-153**

\*See Instructions On Reverse Side

**From:** Margie Herrmann <mherrman@ut.blm.gov>  
**To:** <nrogm.dstaley@state.ut.us>  
**Date:** Thu, Mar 4, 1999 1:24 PM  
**Subject:** Permits to be rescinded? - Reply

Hi Don,

Below is a list of permitted Federal and Indian lease wells that are due to be rescinded per our records and permit dates. Could you let me know what the status of these wells is. Thanks! --  
 In answer to your request.  
 Margie

*APD Approval Extensions  
 per  
 Margie Herrmann -  
 BLM Vernal -*

=====

Barrett Resources expires 5/14/99  
 Ute Tribal 1-21  
 21-5S-4W  
 43-013-31836

Barrett Resources expires 5/14/99  
 Ute Tribal 16-21  
 21-5S-4W  
 43-013-31839

Coastal expires 11/17/99  
 CIGE 223-1-10-22  
 1-10S-22E  
 43-047-32983

Coastal expires 11/17/99  
 CIGE 226-3-10-21  
 3-10S-21E  
 43-047-32995

Coastal expires 11/8/99  
 CIGE 206-4-10-21  
 4-10S-21E  
 43-047-32996

Inland Production expired 1/28/99  
 Monument Federal 21-22-9-16Y letter being done  
 22-9S-16E  
 43-013-31727

Inland Production expired 2/25/99  
 West Point 10-31-8-16 letter being done  
 31-8S-16E  
 43-013-31772

Inland Production expired 2/18/99  
 Monument Butte Federal 12-27 letter being done  
 27-8S-16E  
 43-013-31919

Inland Production expired 1/22/99

*Well File*



# 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>

Phone: (435) 781-4400

Fax: (435) 781-4410

IN REPLY REFER TO:

3160

UT08300

May 17, 1999

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

Re: Notification of Expiration  
Well No. Ute Tribal 16-21  
SESE, Section 21, T5S, R4W  
Lease No. 14-20-H62-3414  
Duchesne County, Utah

Gentlemen:

43-013-31839

The Application for Permit to Drill the above-referenced well was approved on May 15, 1997. Barrett Resources Corporation requested an extension of the original APD approval for an additional year. The request was reviewed and the extension approved until May 15, 1999. According to our records, no known activity has transpired at the approved location. 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

