#### SUBMIT IN TRIPLICATE\*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side) **UNITED STATES** 

(May 1999)	DEPARTMENT	_	NTEF	reverse s		5. LEASE DESIGNATION AND SERIAL NO.	
		GICAL SURVI				SF078109 6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
	N FOR PERMIT	O DRILL, I	DEEPI	N, OR PLUG E	BACK	- The first of the same	
1a. TYPE OF WORK  DRI	LL 🗵	DEEPEN [		PLUG BA	ск 🗌	7. UNIT AGREEMENT NAME	
b. Type of Well	AS 📆	۲		NGLE MULTIF	LE .	Gallegos Canyon Unit	
WELL W	AS ELL OTHER		ZC	NE X ZONE		C. Paten of Budge Wales	
Energy Reserve	es Group. Inc.		1 %	ナトロストに	.	9. WELL NO.	
3. ADDRESS OF OPERATOR	,			SEPO		308	
	, Casper, Wyomir		vith any State requirements.*)			10. FIELD AND POOL, OR WILDCAT	
At surface	eport location clearly and	in accordance with	ن چ <b>دریج</b> ۳۰۰			West Kutz Pictured Cliffs 11. sec., T., R., M., OR BLK.	
At proposed prod. zon	e 810' FEL & 1		AND SURVEY OR AREA				
• • •		•		(SE/SE)		Sec. 7, T28N-R12W	
	AND DIRECTION FROM NEAR					12. COUNTY OR PARISH 13. STATE	
Approximate  15. DISTANCE FROM PROPO	ly 3.25 miles so oseo*	outh east o	f Fan	omington, New Mon. of acres in lease	lexico	ISan Juan   New Mexico	
PROPERTY OR LEASE 1	r JINE, FT.			Initized ? 25611		60 (137.08 / 37.10	
(Also to nearest drig, unit line, if any) 810'						ARY OR CABLE TOOLS	
TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2,500				1610 <b>'</b>	Rotary		
21. ELEVATIONS (Show who		>			4 21	NovDec., 1980	
23.		graded)	NO ANT	CEMENTING PROGR.	A 3.6	MOVDec., 1900	
	1		_	,			
SIZE OF HOLE	8-5/8"	24#	00T	SETTING DEPTH	-	QUANTITY OF CEMENT	
12-1/4" 6-3/4"	4-1/2"	9.5#		120' 1610'	cement to surface		
		roposes to	dril	l the above re	ference	ed well with rotary tools	
from the surfa					~		
See attached p	olan of operation	ns.					
Gas is dedicat	ted to El Paso N	Matural Gas	Comp	oany.			
IN ABOVE SPACE DESCRIBE zone. If proposal is to precenter program, if an 24.	drill or deepen directions	proposal is to deep ally, give pertinen	pen or I t data c	olug back, give data on pon subsurface locations	oresent proc nd measure	ductive zone and proposed new productive ed and true vertical depths. Give blowout	
	white you	This	m •	1100			
SIGNED		ТГ	ri.e _F_l	eld SErvices A	dminis:	CPATOTDATE	
(This space for Fede	eral or State office use)	· · · · · · · · · · · · · · · · · · ·					
PERMIT NO.		· <del>····································</del>		APPROVAL DATE			
AG					19		
CONDITIONS OF APPROV	VAL, IN ANY / 1980	TI	TLE			DATE	
	NGINEER						
	•						

# OIL CONSERVATION DIVISION

STATE OF NEW MEXICO EHERGY NO MINERALS DEPARTMENT

## P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-107 kevised 10-1-

All distances must be from the cuter boundaries of the Section.

Orientor			11				T Wall Ma					
Operator  DESERVES CROWD			Leas		י דואודיי		Well No.					
ENERGY RESERVES GROUP Unit Letter Section Township		Township	GALLEGOS CANYO		County		308					
P	7	28N	12W		San Juan							
Actual Footage Loca	ation of Well:	2011	L	TCM	Dall	uaii						
1000 feet from the South line and 810 feet from the East line												
Ground Level Elev:	Producing Fo		P∞I	1001	TOTAL LITE		Dedicated Acreage:/3 7,70					
5605	Pictured	Cliffs	Wes	st Kutz Picture	ed Clif		137.08 Acres					
[605   Di-+ 01:55   11   1   1   1   1   1   1   1												
						Name Position Field Se	certify that the information con- rein is true and complete to the removed and belief.  ervice Administrator  Reserves Group					
				0000 81		I hereby shown on notes of under my Is true a knowledge  Date Survey Septem Registered and Lord Free E	Stephen Jr					
-	Sca	le: l"=1000'				3950	ERR. IR.					

## Supplemental to Form 9-3310

- 1. The geologic name of the surface formation is the Nacimento.
- 2. The estimated tops of important geologic markers.

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Kirtland @ 140'
Fruitland @ 1,030'
Pictured Cliffs @ 1,360'
Total Depth @ 1,610'
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3. The estimated depths at which anticipated water, oil, gas, orother mineral-bearing formations are expected to be encountered.

The Ojo Alamo Formation is located between 100'-700' depending on the area. The Ojo Alamo is fresh water bearing sand.

Fruitland @ 1030' may be gas productive Pictured Cliffs @ 1360' is expected to be gas productive.

4. The proposed casing program, including the size, grad, and weight-per-foot of each string and whether new or used.

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8-5/8", 24#, K-55, ST&C, New Casing 4-1/2", 9.5#, K-55, ST&C, New Casing (4-1/2" will be cemented to the surface)
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5. The lessee's or operator's minimum specifications for pressure control equipment which is to be used, a schematic diagram thereof showing sizes, pressure ratings (or API series), and the testing procedures and testing frequency.

BOE will consist of and 8" series 900, 3000 psi double ram BOP. The BOP will be tested to 500 psi after installation and prior to drilling out from under surface casing.

6. The type and characteristics of the proposed circulating medium or mediums to be employed for rotary drilling and the quantities and types of mud and weighting material to be maintained.

This well will be drilled using a chemical ge mud plus required additives for hole conditions and formations drilled. Normally about 25 sacks of gel will be on location at one time. Additional materials are available locally in the Farmington Area which could be hauled to the location within thirty minutes.

7. The auxiliary equipment to be used, such as (1) kelly cocks, (2) floats at the bit, (3) monitoring equipment on the mud system, (4) a sub on the floor with a full opening valve to be stabbed into drill pipe when the kelly is not in the string.

A kelly cock stop for 3-1/2" drill pipe plus a sub with a full opening valve with drill pipe thread will be available on the rig floor

8. The testing, logging, fracing, and coring programs to be followed with provision made for required flexibility.

No coring is planned and no DST's are planned. Logs will consist of IES, CNL and FDC. Fracing will consit of Nitrogen water (foam) fracing, approximately 20,000 gallons of 70% quality foan with 25,000 pounds of 10-20 sand.

9. Any anticipated abnormal pressures or temperatures expected to be encountered or potential hazards such as hydrogen sulfide gas, along with plans for mitigating such hazards.

No abnormal pressures or temperatures are anticipated.  ${\rm H}_{\rm o}{\rm s}$  is not a problem in this area.

## Page 2

10. The anticipated starting date and duration of the operations.

It is planned to commence operations as soon as regulatory approval has been received and a rig becomes available. It is anticipated that it will take approximately 3 to  $^{\rm H}$  days to drill and log this well.

## MULTI POINT SURFACE USE PLAN

### 1. Existing Roads

There are existing improved roads to within 2,800' of the proposed well site. The roads are maintained by Energy Reserves Group, Amoco and El Paso Natural Gas Company.

## 2. Planned Access Roads

Approximately 2,800' of new access road will be required.

## 3. Location of Existing Wells

(See attached map)

This well is within the Gallegos Canyon Unit, Pictured Cliffs particapating area. There are numerous wells operated by Amoco and Energy Reserves Group.

## 4. Location of Existing and/or Proposed Facilities

(See attached map)

Most Energy Reserves Group wells in the Gallegos Canyon Unit are equipped with a separator to remove free water. El Paso Natural Gas Co. (gas purchaser) usually installs a Glycol unit at each site. In addition all gas gathering lines are owned by El Paso. There are 4 disposal systems within the Gallegos Canyon Unit. These systems consist of buried plastic pipelines. If the well becomes productive all facilities will be within the previously distrubed areas. A small (20'x20'x6') pit may be required if any water is produced. The pit will be fenced sheep tight to protect livestock and wildlife. The reserve pit will be fenced and allowed to dry. As soon as it is sufficiently dry it will be backfilled and recontoured to its original contour.

## 5. Location and Type of Water Supply

Water will be hauled from Energy Reserves Group's disposal system or from the San Juan River. Method of transportation will be by truck.

## 6. Sources of Construction Materials

None are necessary.

## 7. Methods for Handling Waste Disposal

All drill currings and fluids will be disposed of in the reserve pit. Any produced fluids will be contained in portable tanks. A portable chemical toilet will be used during drilling and completions operations. Trash will be disposed of in a small trash pit constructed along-side of the reserve pit.

#### 8. Ancillary Facilities

None are necessary.

#### 10. Plans for Restoration of Surface

Upon completion of the well the reserve pit will be fenced and allowed to dry. Any accumulation of oil will be skimmed off the pit and trucked to a disposal site. The disturbed areas will be recontoured to its original contour and re-seeded as per Bureau of Land Management or Bureau of Indian Affairs recommendations. It is planned to commence rehabilitation as soon as the pit has dried and weather permits.

#### 11. Other Information

The topography of the general area slopes from the south to the San Juan River Drainage. The majority of the surrounding drainages are of a nonperennial nature with a normal flow limited to spring run off and heavy rain storms.

The soils in this semi-arid area are of the Nacismento formation and are largely light brown, sandy soils with poorly graded gravels. Out crops of sanstone and conglomerates are common.

Due to the low precipitation average, climatic conditions, and this marginal types of soils, the vegitation that is found in the area is common of the semi arid region we are located in and consits of pinion pins and juniper trees, sagebrush, rabbit brush, some sparce grasses and cacti as the primary flora. The fauna of the area consists predominantly of mule deer, coyotes, rabits, and varities of small rodents.

The area is used by man for the primary purpose of domestic livestock grazing. Some of the area is within the Navajo Irrigation Project which is presently under cultivation. These areas are used for farming a variety of different crops.

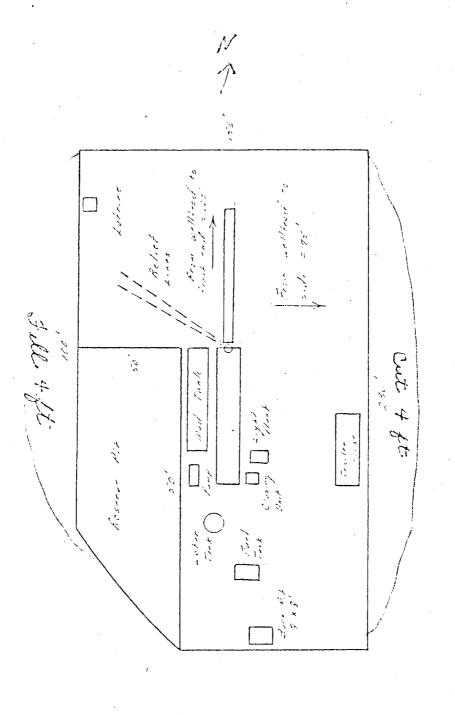
#### 12. Lessee's or Operator's Representative

Bill Fiant P.O. Box 3280 Casper, Wyoming 82602

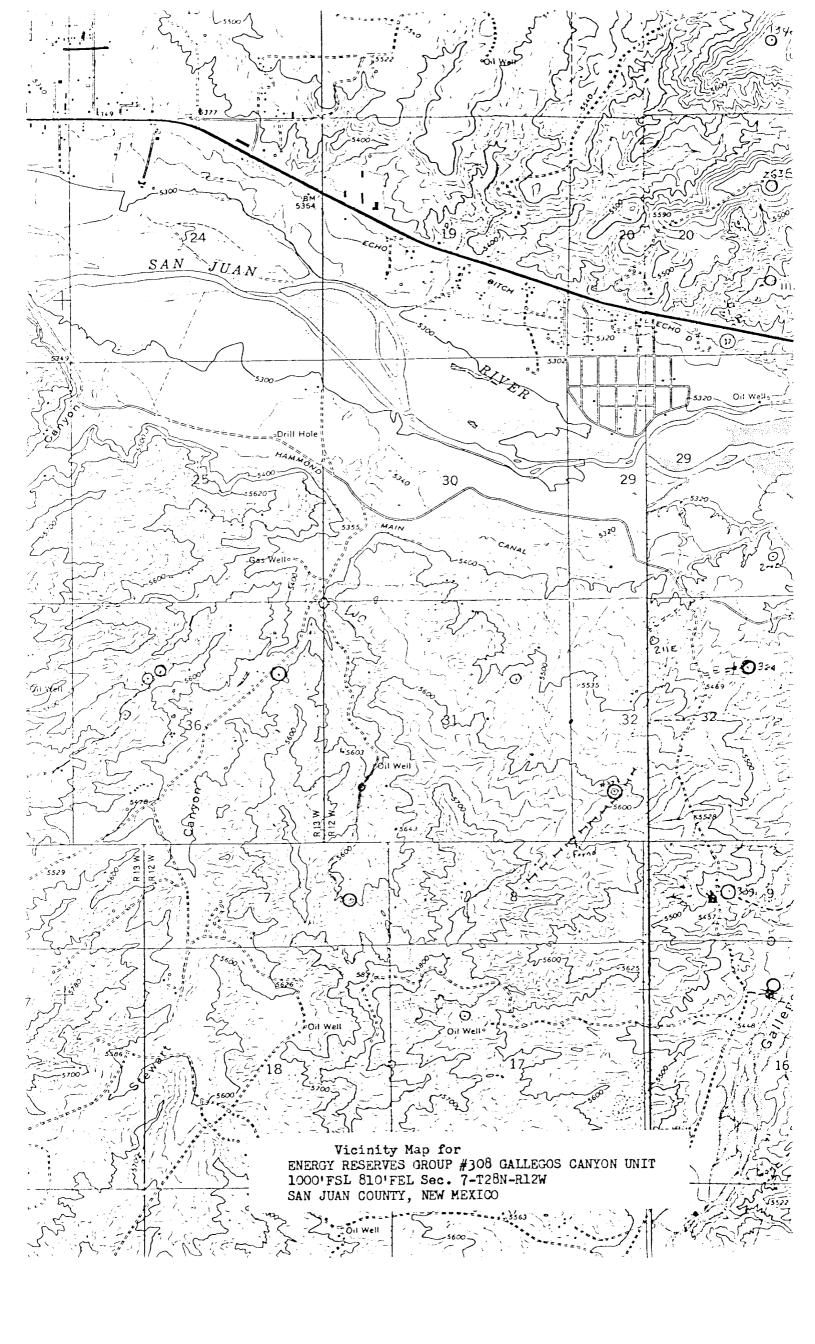
Telephone: 1-307-265-7331

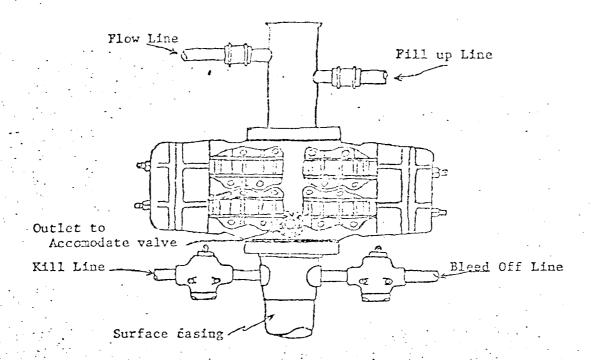
#### 13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site 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 true and correct; and that the work associated with operations proposed herein will be performed by ENERGY RESERVES GROUP and its contractors and sub-contractors and in conformity with this to and terms and conditions under which it is approved.



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Blowout preventer is Shaffer double hydraulic equipped with drill pipe rams in the top and blind rams in the bottom.

Blowout preventer closing unit is Koomey 30 gallon accumulator unit.

When choke manifold is used, it will be installed downstream from bleed off valve.

Kill line or bleed off line may be installed at flanged opening in blowout preventer.