SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR

5. LEASE DESIGNATION AND SERIAL NO.

	SF078807-A								
APPLICATION	6. IF INDIAN, ALLOTTEE OR TRIBE NAME								
a. TYPE OF WORK		DEEPEN [LUG BAC		7. UNIT AGREEMENT NAM		
DKII D. TYPE OF WELL	LL A	DEEPEN		r	LUG BAC	-K 🗀	Gallegos Canyon	Unit	
OIL GA	SLL X OTHER		815 ZOI	NE X	MULTIP ZONE	LE _	Gallegos Canyon 8. FARM OR LEASE NAME	Olite	
NAME OF OPERATOR									
Energy Reserv	es Group, Inc	2.					9. WELL NO.		
							321 10. FIELD AND POOL, OR V	WILDCAM.	
Box 3280, Cas	per, Wyoming port location clearly a	82602 and in accordance wit	th any St	ate require	ments.*)		-		
At surface							West Kutz Pictu 11. sec., T., B., M., OR BLK	<u>red Cliff</u>	
At proposed prod. zone	810' FSI	ι ε 1540' FEI					AND SURVEY OR AREA		
							Sec. 12, T28N-R	13W	
. DISTANCE IN MILES A							12. COUNTY OR PARISH 1	3. STATE	
Approximately		h of Farming		New Mex		i 17 No	San Juan OF ACRES ASSIGNED	New Mexic	
LOCATION TO NEAREST PROPERTY OR LEASE LI		0401	10. NO.	OF ACRES	. 1235.4	TO	THIS WELL		
(Also to nearest drlg. B. DISTANCE FROM PROPO	unit line, if any)	810'	19. PRO	TIZED DEPT		ř	460 (137.61)		
TO NEAREST WELL, DR OR APPLIED FOR, ON THE	ILLING, COMPLETED,	2,300'	1	,700'			Rotary		
. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)		·	,700		1	22. APPROX. DATE WORK WILL START*		
5.68	4' GR (ungrad	led)					NovDec.	, 1980	
J		PROPOSED CASH	NG AND	CEMENTI	NG PROGRA	M			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	00т	SETTIN	G DEPTH	1	QUANTITY OF CEMENT		
12-1/4"	8-5/8"	24#		12		cemer	nt to surface		
6-3/4"	4-1/2"	9.5#		1,700) 1	cemer	nt to surface		
See attached Gas is dedica	-		as Com	npany.		7/7°)			
	Irill or deepen directi					gsen z	ductive zone and proposed need and true vertical depths.		
BIGNED LUX	Period	Y S	rr Fie	eld Ser	vices Ac	lminis	trator _{DATE}		
(This space for Feder	al or State office (us)	-4					hh		
PERMIT NO	3	J		APPROVAL D	ATE _		<u> </u>		
· · · · · · · · · · · · · · · · · · ·)					•		
APPROVED BY	An. wee 1 / 100	en ru	TLE				DATE		
CONDITIONS OF APPROVA	Twee bland	2/							
#	6	31							
; ' ·	I.GIN	≣ER *Se e Instru	ictions (On Rover	ea Sida				
	-	. See instit	CHOUS '	OII IVEVER	e side				
inte No	u Jus-	<i>^</i> _		ಳ ಘ					

OIL CONSERVATION DIVISION

. STATE OF NEW MEXICO NERGY AID MINERALS DEPARTMENT

P. O. DOX 2088 SANTA FE, NEW MEXICO 87501

Form C-107 Revised 10-1-7

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

Operator		Lea	80	Well No.								
ENERGY RESERVES GROUP				GALLEGOS CANYO	N UNIT		321					
Unit Letter	Section	Township		Range	County	_						
O Actual Footage Loc	12	28N		13W	San d	Juan						
810		uth 1:	ine and	1540 feet	from the	East	line					
Ground Level Elev:	Producing For		P∞				Dedicated Acreage:					
5684	Pictured	ed Cliff	s	137. 6 1 Acres								
1. Outline th	e acreage dedica	ted to the sub	ject well	by colored pencil o	r hachure	marks on t	he plat below.					
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).												
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc?												
Yes No If answer is "yes," type of consolidation												
	If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of											
	this form if necessary.)											
							n approved by the Commis-					
sion.	,					•	,					
					ๆ		CERTIFICATION					
						I hereby	certify that the information con-					
						tained he	erein is true and complete to the					
						best of m	ny knowledge and belief.					
						1,5.1	DD 12-12-12					
						Name	7 100					
						Field S	Services Administrator					
				Section 1985		i	Reserves Group, Inc.					
				125 0		Company						
				age of the second		9-18-83	0					
				1 0		Date						
			i									
				$\mathcal{L}_{\mathcal{L}}^{\mathcal{L}}$								
			١			1 hereby	certify that the well location					
						· .	n this plat was plotted from field					
	1			F .		notes of	octual surveys made by me or					
	Se	ec.	12	1		1	r supervision, and that the same					
				1			and correct to the best of my					
	1			·		knowledg	ge and belief.					
	!	· - ·			5							
	i I			, 	22	Date Surve	yed					
	i			@ 1540'		August	23, 1980					
	1			1		1 '	Professional Engineer					
	1	1	.0	1		1	PV. A					
		[ά	oj i		Fred	B. Kerr Jr.					
	<u> </u>			<u> </u>		Certificate						
	Scal	le: 1"=1000	t			3950	.•					

Supplemental to Form 9-3310

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

```
Kirtland @ 210'
Fruitland @ 1,150'
Pictured Cliffs @ 1,450'
Total Depth @ 1,700'
```

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 @ 1150' may be gas productive Pictured Cliffs @ 1450' 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.

```
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)
```

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 opeining 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.

 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. ${\rm H}_2{\rm s}$ 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 4 days to drill and log this well.

MULTI POINT SURFACE USE PLAN

1. Existing Roads

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

2. Planned Access Roads

Approximately 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

Page_2

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 non-perennial 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

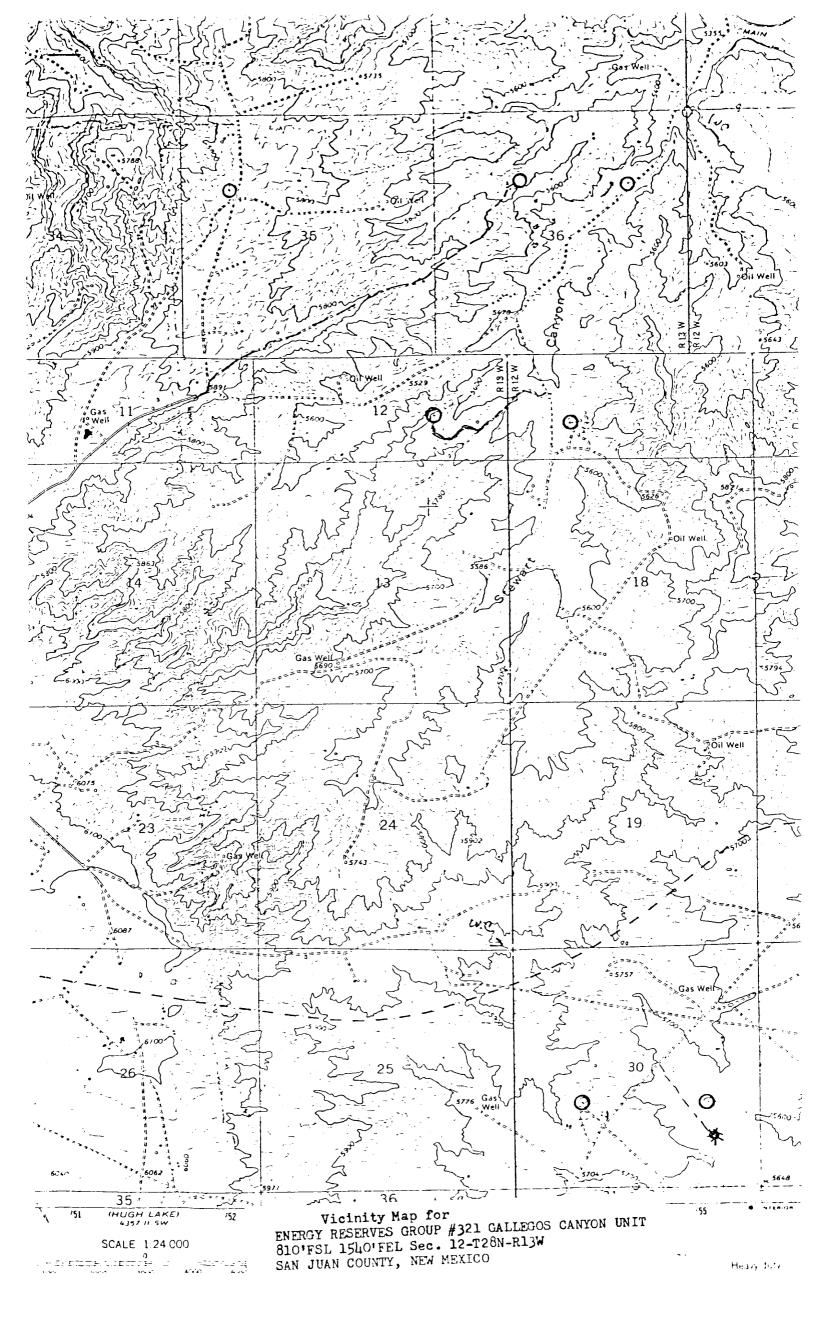
13. Certification

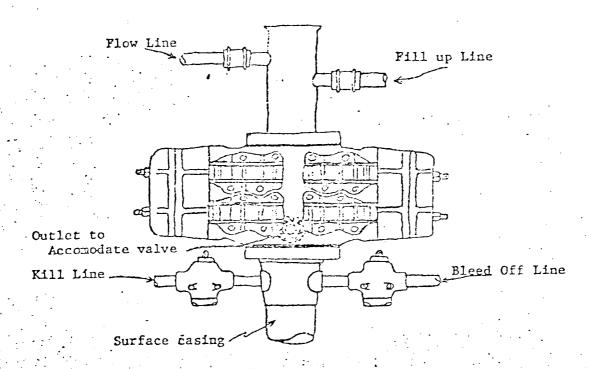
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge true and correct; and that the work associated with operations proposed herein will be performed by ENERGY RESERVES GROUP and its contractors and sub-contractors and in conformity with this and terms and conditions under which it is approved.

9-18-80

William J. Fiant

out sto





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.