SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved.

UNITED STATES

DEPARTMENT OF THE INTERIOR

Bluget Bureau No. 42-K1425.
30-095-23602
5. LEASE DESIGNATION AND SERIAL NO.
CE 07010/

APPLICATION							TEN OR TRUDE NAME
	I FOR PERM	AIT TO DRILL, I	DEEPEN, OR F	LUG B	ACK	6. IF INDIAN, ALLOT	TEE OR THIBE NAME
a. TYPE OF WORK						7. UNIT AGREEMENT	C NAME
DKI b. TYPE OF WELL	DRILL DEEPEN DEEPEN PLUG BACK			.к 🗀	Gallegos Canyon Unit		
OIL GA	S OTF	T PD	BINGLE Z	MULTIPE Zone	.E	8. FARM OR LEASE	1
WELL WI	<u> </u>	1 PAG		202		٧	
Energy Reserv	ves Group.	Inc.				9. WELL NO.	
Energy Reserves Group, Inc.					277	·	
Box 3280 Casper, Wyoming 82602 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)						10. FIELD AND POOR	OR WILDCAT
At surface	eport location clea	rly and in accordance wit	h any State requirem	ents.*)		Pictured 11. sec., T., R., M.,	
E		0				AND SURVEY OR	AREA
At proposed prod. zone 1770' FNL & 820' FWL (SW NW)						Section 1	5, T28N-R12W
4. DISTANCE IN MILES A	AND DIRECTION FRO	M NEAREST TOWN OR POS	r office*		 -	12. COUNTY OR PAR	
		th & 5 miles ea		aton N	Mex	San Juan	New Mexic
5. DISTANCE FROM PROPO	SED*	til 6 5 miles ee	16. NO. OF ACRES IN	LEASE	17. NO. 6	F ACRES ASSIGNED	
LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.			Unitized 16			HIS WELL	-
(Also to nearest drlg. unit line, if any) NA 18. DISTANCE FROM PROPOSED LOCATION*			011111111111111111111111111111111111111			RY OR CABLE TOOLS	· · · · · · · · · · · · · · · · · · ·
TO NEAREST WELL, DE OR APPLIED FOR, ON THE		2000'	1670'		Ro	tary	
1. ELEVATIONS (Show whe	ther DF, RT, GR,	etc.)				22. APPROX. DATE	WORK WILL START
5550	' Gr (ungra	aded)				July-Au	gust,1979
3.		PROPOSED CASH	G AND CEMENTIN	G PROGRA	м		
SIZE OF HOLE	SIZE OF CASI	NG WEIGHT PER F	DOT SETTING	DEPTH	1	. QUANTITY OF CE	MENT
9 7/8''	7''	17#	100'		50	sx.	
tools from s	urface to T	9.5# Inc. proposes to the including the incl	oated zone of	above r	eferen	s the Pictur	ed Cliffs
Energy Reserves	ves Group, urface to T 1450'-1520'	Inc. proposes	to drill the pated zone of DST's are pla	above r comple	eferen tion i opies	ced well wit s the Pictur of all logs	ed Cliffs run will
Energy Reserved tools from some formation @ be furnished be furnished. N. ABOVE SPACE DESCRIBE one. If proposal is to reventer program, if any any and the following space for Federal PERMIT No.	ves Group, urface to T 1450'-1520' upon compl PROPOSED PROGRA drill or deepen dia	Inc. proposes to the inc. No cores or to etion of the wear to the include of the wear to the include of the inc	pen or plug back, give data on subsurface	above recompled not complete no	eferention i	ced well with sthe Picture of all logs	ed Cliffs run will wosed new productive
Energy Reserved tools from some formation @ be furnished be furnished. MABOVE SPACE DESCRIBE TO THE PROPERTY OF THE STATE	ves Group, urface to T 1450'-1520' upon compl PROPOSED PROGRA drill or deepen dir, ral or State office	Inc. proposes to the inc. No cores or to etion of the wear to the include of the wear to the include of the inc	co drill the pated zone of OST's are placed and placed are placed at a consubsurface on subsurface are Field Serv	above recompled not complete no	eferention i	ced well with sthe Picture of all logs active zone and proper dand true vertical description.	ed Cliffs run will cosed new productive cepths. Give blowout

All distances must be from the outer boundaries of the Section Operator 277 Energy Reserves Group, Inc. Township Unit Letter Section San Juan 12 West 28 North 15 E Actual Footage Location of Well: West line 1770 North line and feet from the Dedicated Acreage: Producing Formation Ground Level Elev. Pictured Cliffs 5550 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the 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? 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.). No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commis-CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Section 15 I hereby certify that the well location shown on this plat was plotted from field nates of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Sur

500

1000

1980 2310

- The geologic name of the surface formation. Nacimiento
- 2. The estimated tops of important geologic markers.

Friutland	1000'
Coal Marker	1400 '
Pictured Cliffs "A"	14501
Pictured Cliffs "B"	1520'
T.D.	1670'

The estimated depths at which anticipated water, oil, gas, or other mineralbearing formations are expected to be encountered.

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Fruitland - gas
Coal Marker - water
Pictured Cliffs - gas
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4. The proposed casing program, including the size, grade, and weight-per-foot of each string and whether new or used.

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7" k-55 17# used
4½" k-55 9.5# used
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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.

A 10" or 7" series 900 or 600 dual ram hydraulic preventor will be used. The BOP will be pressure tested to 400 psi after installation and prior to drilling out from under surface casing.

 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.

A fresh water chemical mud gel will be used for drilling. Sufficinet mud materials will be on hand to control minor lost circulation.

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.

Auxiliary equipment will consist of:

A sub on the floor with a full opening valve w/drill pipe thread.

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

No DST's are planned. Logging will consist of DIL, Gamma-Ray, Density-Neutron. Nitrogen-Water(foam) fracing consisting of approximately 20,000 gals. of 70% quality foam w/25,000# 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.

An abnormal pressure high volume gas zone might be encountered between 1000' and 1500' (Fruitland Interval).

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

It is planned to commence operations as soon as regulatory approval has been obtained. It is estimated that the drilling and completion operations can be completed in 10-

1. EXISTING ROADS

- A. See attached topo map
- B. Approximately 3 3/4 miles south & 5 miles east of Farmington, New Mexico.
- C. See attached topo map
- D. This is a development well
- E. See attached topo map
- F. There is an existing road to within 2200' of the proposed site. This road will not require any improvements to allow for rig traffic. Maintanence will be performed by Energy Reserves Group, Inc. and Amoco as needed.

2. PLANNED ACCESS ROADS

Approximately .42 miles of new access roads will be required. Maximum grade will be less than 8%. No turn outs are necessary. Culverts will be installed as per BLM recommendations. No gates, fence cuts, or cattleguards will be required.

3. LOCATION OF EXISTING WELLS

See attached map

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- A. Energy Reserves Group, Inc. operates the Pictured Cliffs (gas) Wells within the Gallegos Canyon Unit. Gas gathering lines are owned by El Paso Natural Gas Company and are installed and operated under rights of way terms. All production facilities are located on the individual well site.
- B. Any new facilities required will be limited to the well site. If a pit is required it will be fenced to protect the livestock and wildlife.
- C. Any disturbed areas no longer needed after drilling and completion operations will be recontoured and rehabilitated as per BLM specifications.

5. LOCATION AND TYPE OF WATER SUPPLY

Water used for drilling will be hauled by truck from Energy Reserves Group, Inc. disposal site located in the Gallegos Canyon Unit.

6. SOURCE OF CONSTRUCTION MATERIALS

None needed

7. METHODS FOR HANDLING WASTE DISPOSAL

The reserve pit will be of adequate size to contain cuttings and drilling fluids. Any produced hydro-carbons will be stored in tanks, produced water will be disposed of as per NTL-2B requirements. Garbage and other waste material will be burned or buried in a small trash pit. Upon completion of operations the entire area will be policed up and the reserve pit fenced. Any oil on the pit will be removed. The trash pit will be buried to prevent scattering of any additional trash.

8. ANCILLARY FACILITIES

None required

9. WELL SITE LAYOUT

1,2,83 (See attached)

It is not planned to line any pit.

10. PLANS FOR RESTORATION OF SURFACE

Upon completion of operations the pit will be fenced and allowed to dry before covering. The entire area will be policed up and all trash buried or burned. Any area not needed for further operations will be recontoured and reseeded as per BLM recommendations.

11. OTHER INFORMATION

The area is generally high desert type country with high erosion potential. Most areas are deeply eroded with gullies and washes. Vegetation consists of pinion and juniper trees with sage and other small scrub bushes, cactus, and assorted native grasses. Surface ownership is Public Lands under Administration of the Bureau of Land Management. There are no occupied dwellings within one mile of the well site. There are no coninuously flowing streams in the area. The San Juan River is the nearest water. An archaeological Inspection has been scheduled with the San Juan Museum.

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, true and correct; and, that the work associated with the operations proposed herein will be performed by

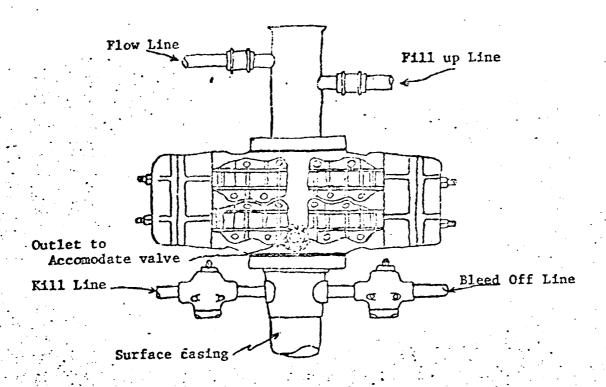
and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

5-25-79

Name and Tiple

Field Serviers

Administrator "



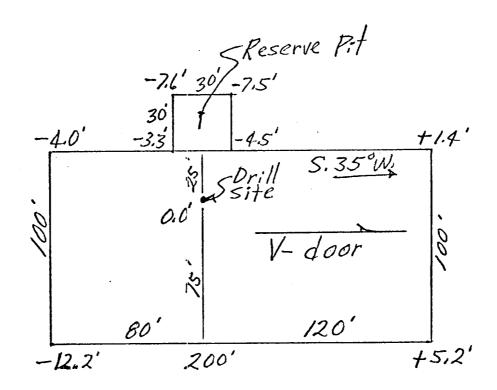
Blowout preventer is Shaffer double hydraulic equipped with drill pipe rams in the top and blind rams in the bottom.

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.

Energy Reserves Group, Inc.
GCU-PC # 277
1770' FN & 820' FW SEC 15-28N-12W
San Juan County, New Mexico





Section 15, 7 2910-1212 1770' FOLT 820' FWL GALLEGOS CANYOS UNF No! # 277

