SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES

•		NITED STATE INT OF THE		RIOR	reverse si	de)	30-045-	24626 and serial no.	
	GEO	LOGICAL SURV	EY				SF078109		
APPLICATION	N FOR PERMI	T TO DRILL,	DEEP	EN, OR P	LUG B	ACK	6. IF INDIAN, ALLOTTE	G OR TRIBE NAME	
a. TYPE OF WORK		DEEDEN		DI I	IC DAC	·	7. UNIT AGREEMENT N	AME	
b. Type of Well	ILL 🛛	DEEPEN		PLUG BACK 🗌					
OIL G	AS X OTHER			INGLE X	MULTIP	us [Gallegos Cany 8. FARM OR LEASE NAI	on unit	
WELL W.	ELI, A OTHER	<u> </u>	z	ONE [A]	ZONE		-		
	O T						9. WELL NO.		
Energy Reser	ves Group, II	IC •							
D 0 D 200	0 0 U	: 0060	2				322 10. FIELD AND POOL, O	DR WILDCAT	
P.O. Box 328. LOCATION OF WELL (R	o, casper, wy eport location clearly	and in accordance wi	∠ ith any i	State requireme	nts.*)		-		
At surface							West Kutz Pic	Tured Cliff	
At proposed prod. zon	. 1700! FX	L & 1165' FE	Τ.				AND SURVEY OR AL	EEA	
At proposed prod. zon	ie 1/50 IN	II G 1100 I.L.	٠,				Con 21 TOOM	เ อาวน	
4. DISTANCE IN MILES	AND DIRECTION FROM	NEAREST TOWN OR PO	ST OFFIC	E*	·····		Sec. 31, T29M	1 13. STATE	
• • •	0 1		•	M	- W*-	_	San Juan	New Mexic	
Approximatel 15. distance from prope	y 3 miles sou	ith east of F	<u>armır</u> І 16. м	igton, New	/ Mexic	O 17. No.	OF ACRES ASSIGNED	1 NEW HEXTE	
LOCATION TO NEARES' PROPERTY OR LEASE I	T	0501	1			тот	HIS WELL		
(Also to nearest drl;	g. unit line, if any)	850 '	10 5	Unitized	ייושכע	90 707	160 /55,84 ROTARY OR CABLE TOOLS		
 DISTANCE FROM PROF TO NEAREST WELL, D 	RILLING, COMPLETED,	4 0001	19. P			20. ROTA	ARY OR CABLE TOOLS		
OR APPLIED FOR, ON TH		1,000'	<u> </u>	1,600'		I R	Rotary		
21. ELEVATIONS (Show wh	etner DF, KT, GR, etc	.)					22. APPROX. DATE WO		
	<u>5,543' GR (ι</u>	ingraded)					NovDec.,	1900	
23.		PROPOSED CASI	NG AN	D CEMENTING	PROGRA	M			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER I	FOOT	SETTING D	EPTH	i ———	QUANTITY OF CEME	NT	
12-1/4"	8-5/8"	24#		120'		cement to surface			
6-3/4"	4-1/2"	9.5#		1,600'		cement to surface			
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						to provide and	J brk 290		
Energy Reser	ves Group. In	nc. proposes	to dr	ill the a	above r		nced well with	rotary tool	
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220 0 0									
See attached	plan of open	rations.							
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Gas is dedic	ated to El Pa	aso Natural G	as Co	mnanv.					
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CONDITIONS OF APPROV	VAL, IF ANY	T	ITLE				DATE		
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*See Instructions On Reverse Side

CLUMENT ENGINEER

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

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

Form C-107 Revised 10-1-78

		All distances must be	from the cuter l	houndaries el	The Section.	
Operator		······································	Lease			Well No.
ENERGY RESERVES GROUP			GALLE	GOS CANY	ON UNIT	322
Unit Letter Sec	tion	Township	Range		County	
Н	31	29N	12	W	San Juan	
Actual Footage Location	37.	orth line o	md 1165	, .	from the East	Nac
1790 fe Ground Level Elev:	et from the NO		Pool	teet	from the EdSU	line Dedicated Acreage:
5543	Pictured		ļ ⁻	z Pictur	ed Cliffs	160 155.8 YACTOR
	creage dedica	ted to the subject	well by color	ed pencil o	r hachure marks on t	
 2. If more than interest and r 3. If more than of dated by common Yes If answer is this form if ne 	one lease is oyalty). one lease of donunitization, to a lease of donunitization	dedicated to the different ownership unitization, force-points were is "yes," typowners and tract difference difference and tract difference di	is dedicated tooling.etc? oe of consolidates	ach and ide the well,	have the interests of	thereof (both as to working of all owners been consoli- dated. (Use reverse side of nmunitization, unitization,
forced-pooling sion.	, or otherwise)	or until a non-stan	dard unit, elim	inating suc	ch interests, has bee	n approved by the Commis-
						CERTIFICATION
			1790	1165	Name Field Position	certify that the information con- erein is true and complete to the my knowledge and belief. Services Administrato Reserves Group
	Sec		12014		Date	
	1	31			shown o notes s under m is true	y certify that the well location in this plat was plotted from field f actual surveys made by me or y supervision, and that the same and correct to the best of my ge and belief.
					Date Surve Augus Registere and L	a Coloredo Col
	Sca	le: 1"=1000"	! ! 1		Fred Certificate 3950	No.

Supplemental to Form 9-331C

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

Kirtland @ 80'
Fruitland @ 1,060'
Pictured Cliffs @ 1,345'
Total Depth @ 1,600'

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 @ 1060' may be gas productive Pictured Cliffs @ 1345 ' 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.

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.

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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 access roads adjacent to the proposed well site. These roads are maintained by Energy Reserves Group, Amoco, and El Paso Natural Gas Company.

2. Planned Access Roads

None needed.

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.

9. Well-Site Layout

See attached plat.

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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.

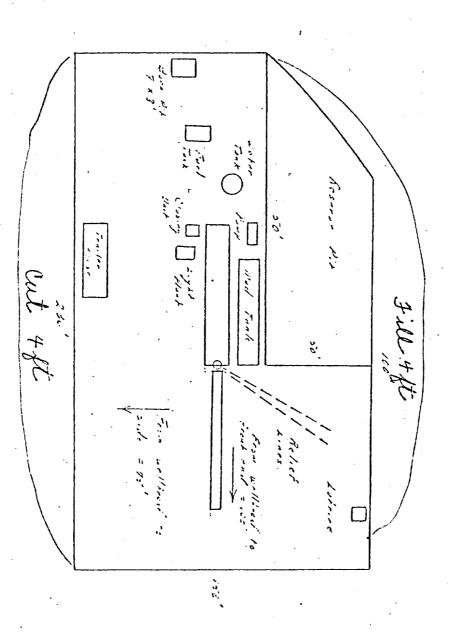
12. Lessee's or Operator's Representative

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 the and terms and conditions under which it is approved.

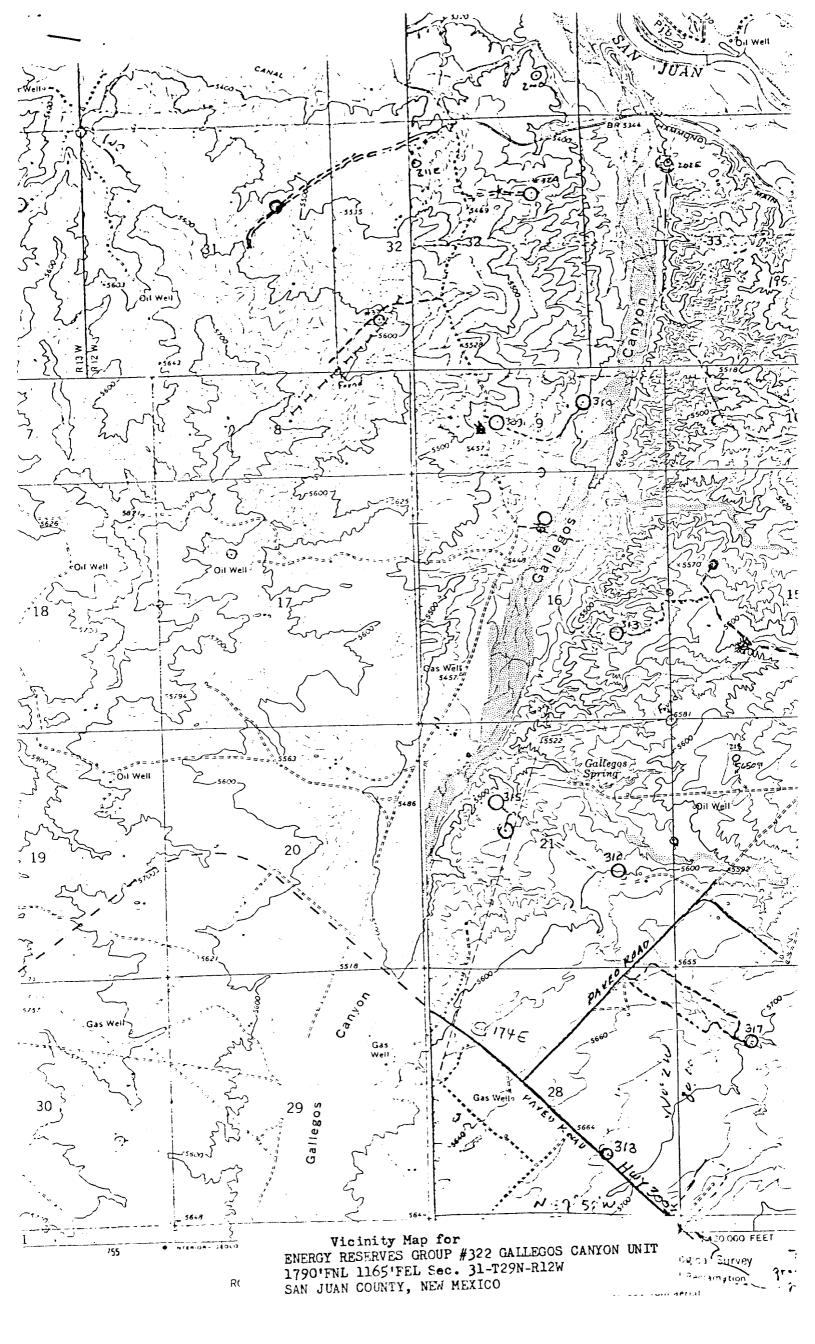


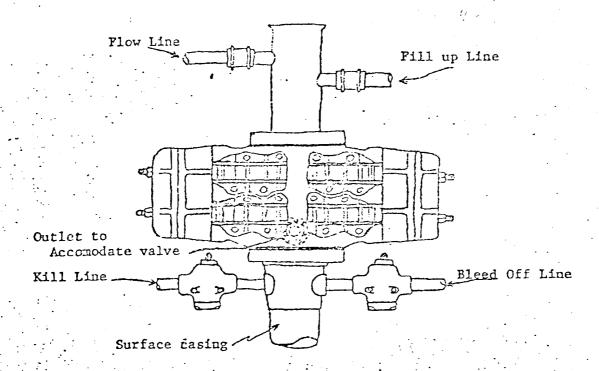
Typical Location Plat for Pertured Chites Well

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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.