SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425. 31 - C45 - 2465 5

UNITED STATES DEPARTMENT OF THE INTERIOR

		SICAL SURVEY			SF 078105 072	
	FOR PERMIT T	O DRILL, DE	PEN, OR PLUG B	ACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
la. TYPE OF WORK					7. UNIT AGREEMENT N	AME
DRIL!	LX	DEEPEN 🗌	PLUG BAC	_K	Gallegos Canv	on Unit
OIL GAS WELL WELL			SINGLE X MULTIP	LE	8. FARM OR LEASE NAM	AE
NAME OF OPERATOR	<u> </u>					
Energy Reserves	9. WELL NO.					
. ADDRESS OF OPERATOR	315					
P.O. Box 3280,	Casper, Wyomin	ng 82602			10. FIELD AND POOL, O	
LOCATION OF WELL (Report At surface	West Kutz Pictured Clif					
	FNL				AND SURVEY OR AS	EEA
At proposed prod. zone	1685' FWL & 15	540' FWL			Sec. 21, T28N	_R12W
4. DISTANCE IN MILES AN		12. COUNTY OR PARISH				
			gton, New Mexico		San Juan	New Mexic
5. DISTANCE FROM PROPOSE			. NO. OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL	!
LOCATION TO NEAREST PROPERTY OR LEASE LIN (Also to nearest drig.)	(E, FT. 1	,100	Unitized 22536.9		160	
8. DISTANCE FROM PROPOS	SED LOCATION*	19	. PROPOSED DEPTH		ARY OR CABLE TOOLS	
TO NEAREST WELL, DRII OR APPLIED FOR, ON THIS		500'	1,820	R	Rotary	
1. ELEVATIONS (Show wheth					22. APPROX. DATE WO	RK WILL START*
5,522 GR (un	graded)				Nov Dec.,	1980
3.	P	ROPOSED CASING .	AND CEMENTING PROGRA	AM .		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMES	NT
12-1/4"	8-5/8"	24#	120'	cemen	nt to surface	
6-3/4"	4-1/2"	9.5#	1,820'	cemen	nt to surface	
Energy Reserve		proposes to d	rill the above re	eferenc	ed well with r	T .
Gas is dedicat	lan of operation dense led to El Paso I	Natural Gas C	NOV 1 0 1980 OIL CON. COM. DIST. 3	AS DIS	PPROVED AMENDED NOV 0 6 1980 JAMES F. SIMS STRICT ENGINEER	ed new productive
N ABOVE SPACE DESCRIBE IS one. If proposal is to dreventer program, if any. SIGNED	PROFOSED PROGRAM: If prill or deepen directional	roposal is to deepen ly, give pertinent da	NOV 1 0 1980 OIL CON. COM. DIST. 3 or plus set at data on pta on subsurface locations at	DIS	NOV 0 6 1980 JAMES F. SIMS TRICT ENGINEER ductive zone and proposed and true vertical depth	ed new productive
N ABOVE SPACE DESCRIBE IN One. If proposal is to de reventer program, if any. 4. SIGNED (This space for Federa	PROFOSED PROGRAM: If prill or deepen directional	roposal is to deepen ly, give pertinent da	NOV 1 0 1980 OIL CON. COM. DIST. 3 or plus set at data on pta on subsurface locations at	DIS	NOV 0 6 1980 JAMES F. SIMS TRICT ENGINEER ductive zone and proposed and true vertical depth	ed new productive

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OIL CONSERVATION DIVISION

ENERGY AND MINERALS DEPARTMENT

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

Form C-107 Revised 10-1-72

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

Operator			Lease	Well No.						
ENERGY RESERVES GROUP			GALLEGOS CANY	315						
Unit Letter	Section	Township	Range	County	_					
F	21	28N	12W	San Juan						
Actual Footage Location of Well: 1685 feet from the North line and 1540 feet from the West line										
Ground Level Elev:	feet from the NO Producing For	Time data	P∞1	et from the WESC	line Dedicated Acreage:					
5522	Pictured	Cliffs	West Kutz Pict	ured Cliffs	160 Acres					
1. Outline th	e acreage dedica	ted to the subject w	ell by colored pencil	or hachure marks on						
	an one lease is nd royalty).	dedicated to the wel	l, outline each and id	entify the ownership	thereof (both as to working					
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									
	f necessary.)	1 1 1 11 11								
No allowat forced-pool	ole will be assign ling. or otherwise)	ed to the well until al for until a non-standar	l interests have been d unit. eliminating su	consolidated (by co	ommunitization, unitization, en approved by the Commis-					
sion.	<i>,</i>		, ,		a approved by the dominis					
			1		CERTIFICATION					
			ŀ							
	,		i	I hereb	y certify that the information con-					
			i	tained	herein is true and complete to the					
	1685		i	best of	my knowledge and belief.					
	16				00 . 1 . 1					
	1		i	Nome	tout					
	- -			1	Services Administrator					
1540'			(Position	D					
	1		i	Compony	y Reserves Group					
	1			9-17-	80					
	1		1	Date						
	Sec.		I / KI							
The same of the sa	1		Alo.							
	1	21	NOV	10 1990 hereb	y certify that the well location					
			Q - E.	/// A	on this plat was plotted from field					
	ļ		1 & C!	≥ L - 4 1//	f actual surveys made by me or y supervision, and that the same					
	1		!	1.65	and correct to the best of my					
	1]		lge and belief.					
	1		 	Date Surve	aved huma					
] 			1 1 .	t 20, 1980					
	1		1		d Professional Engineer					
			i	and La	Surveyor 2					
	, 		i	dee	affer of					
· [Fred Certificate	No. Wigner					
-	Scal	3950	NAME OF THE PROPERTY OF THE PR							

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 @ 365'
Fruitland @ 1,275'
Pictured Cliffs @ 1,570'
Total Depth @ 1,820'
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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 @ 1275' may be gas productive Pictured Cliffs @ 1570' 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 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. Hos 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 to within 1,500' 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 1,500' 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.

9. Well-Site Layout

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

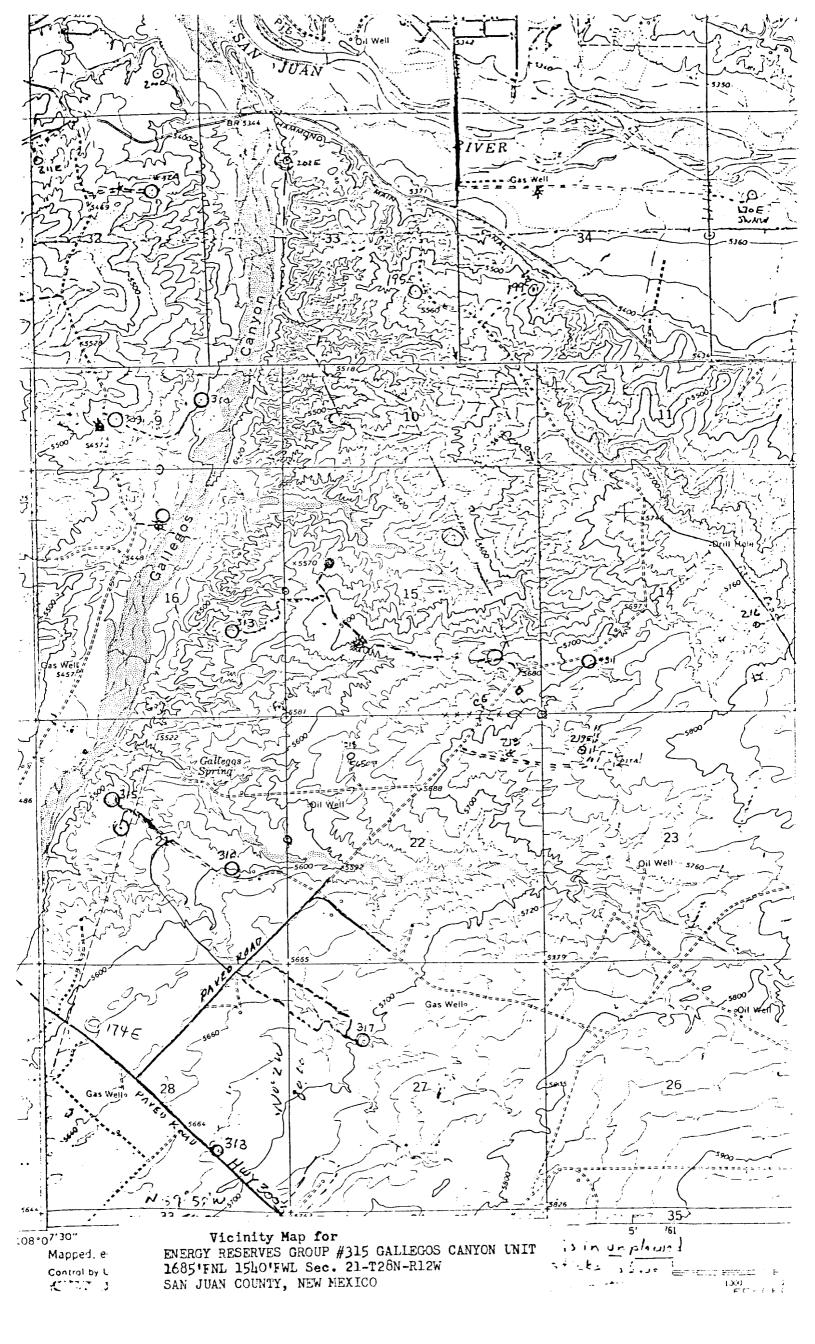
13. Certification

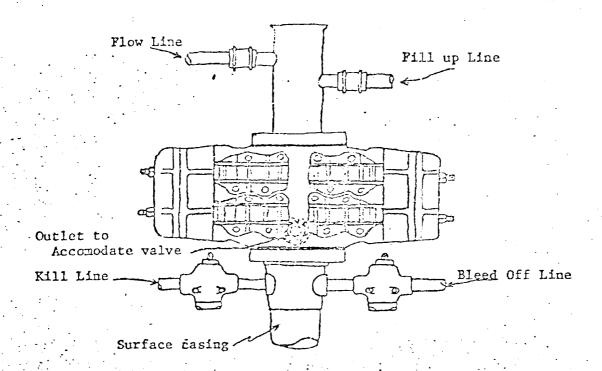
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge true and correct; and that the work associated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

Rosmon Mix Fill 456 1,

Typical Lucation Plat for Pecturial Chiefs Well

E.'





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.