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#### SUBMIT IN TRIPLICATE\*

(Other instructions on

Form approved. Budget Bureau No. 42-R1425. 30-075-2302/

UNITED ST	ATE	ES
DEPARTMENT OF T	HE	INTERIOR

5. LEASE DESIGNATION AND SERIAL NO. **GEOLOGICAL SURVEY** SF-078109 6. IF INDIAN, ALLOTTEE OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 1a. TYPE OF WORK 7. UNIT AGREEMENT NAME DEEPEN DRILL 🗵 PLUG BACK [ h TYPE OF WELL Gallegos Canyon Unit MULTIPLE | OIL SINGLE X WELL WELL X 8. FARM OR LEASE NAME OTHER ZONE 2. NAME OF OPERATOR Gallegos Canyon Unit 9. WELL NO. Energy Reserves Group, Inc. 3. ADDRESS OF OPERATOR 290 10. FIELD AND POOL, OR WILDCAT P. O. Box 3280 Casper, Wyoming 82602
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*) West Kutz Pictured Cliffs-At surface 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA At proposed prod. zone 1520' FSL & 1530 FEL (NW/SE) Sec. 15, T28N-R12W 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\* 12. COUNTY OR PARISH | 13. STATE 7 miles East & 3 miles south of Farmington, New Mexico

15. DISTANCE FROM PROPOSED\*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig, unit line, if any)

Unitized San Juan
17. No. OF ACRES ASSIGNED TO THIS WELL New Mexico 160 18. DISTANCE FROM PROPOSED LOCATION\* 19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1670' 3000' Rotaru 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 22. APPROX. DATE WORK WILL START\* 5660 Sept.-Oct., 1979 **23**. PROPOSED CASING AND CEMENTING PROGRAM SIZE OF HOLE WEIGHT PER FOOT SIZE OF CASING SETTING DEPTH QUANTITY OF CEMENT 120'-200' 1211" 8 5/8" 24# Cmt to surface 6 3/4" 43" 9.5# 1670' 250 sx

Energy Reserves Group, Inc. proposes to drill the above referenced well with rotary tools from surface to T.D. The anticipated zone of completion is the Pictured Cliffs Formation @ 1450'-1670'. No DST's are planned. Copies of all logs run will be furnished upon completion of the well. It is planned to drill 124" hole 120'-200' maximum, set 8 5/8", 24# casing to that depth. Drill 6 3/4" hole to T.D. and set 4½", 9.5# casing. Cement to surface if the Ojo Alamo Formation has not been cemented off by the surface casing. BOP will consist of an 8" series 900, 3000# dual ram preventor. gas dedicated

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive

eventer program, if any.	my, give pertinent data on subsurface locations and measured at	nd true vertical deptas. Give blowout
SIGNED WILLIAM VIOLE	TITLE Field Services Adminst.	DATE September 10, 1979
(This space for Federal or State affice use)		COFF FILE
PERMIT NO.	APPROVAL DATE	(UTTIALD)
APPROVED BYCONDITIONS OF APPROVAL, IF ANY:	TITLE	SEP 24 1979
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-	*See Instructions On Reverse Side	The same of the sa

## OIL CONSERVATION DIVISION

# STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

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

Form C-102 Revised 10-1-78

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

Operator			Lease			Well No.		
ENFRGY RES	ERVES GROUP		GALLEGOS CANYON UNIT		T	290 —		
Unit Letter	Section	Township	Range	County	у			
J	15	2811	12W	Sa	n Juan			
Actual Footage Loc	ation of Well:							
1520	feet from the Sou	ith line o	nd 1530	feet from th	<sub>he</sub> East	line		
Ground Level Elev.	Producing For		Pool	icet from ti		cated Acreage:		
5660		ed Cliffs	West K	ıtz Picture		7.60		
	_				ure marks on the pla			
	nan one lease is nd royalty).	dedicated to the v	vel., outline each	and identify t	he ownership thereo	f (both as to working		
		ifferent ownership nitization, force-po		e well, have t	he interests of all	owners been consoli-		
Yes	☐ No If ar	nswer is "yes;" typ	e of consolidation	n				
	is "no," list the	owners and tract de	escriptions which	have actually	been consolidated.	(Use reverse side of		
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	ling, or otherwise)	or until a non-stand	iard unit, elimina	ting such inter	rests, nas been appr	oved by the Commis-		
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			25000	, <u> </u>	Company			
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#### Supplemental to Form 9-3310

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

Fruitland 1040' Coal Marker 1400'

Pictured Cliffs 1450'-1670'

3. The estimated depths at which anticipated water, oil, gas, or other mineral-bearing formations are expected to be encountered.

The Pictured Cliffs Formation @ 1450'-1670' is expected to be gas productive.

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

8 5/8" 24# @ 120'-200' cement to surface

4 1/2" 9.5# @ 1670' cement with 250 sx.

- 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.

  Pressure control equipment to consist of an 8" hydraulically operated double ram BOP series 900, 3000#. The EOP will be pressure 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.

Well is to be drilled with gel mud plus required additives for hole conditions and formations to be drilled. Normally about 25 sx. of gel will be on location at one time.

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

Kelly cock stop for 32" drill pipe, and a full opening floor valve to stab into

### Page 2

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

No coring is planned, no DST's are planned. Logs will probably be IES only. Nitrogenwater (foam) fracing consisting of approximately 20,000 gal. of 70% quality foam with 25,000# 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. H2s is not a potential problem in the area.

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 can be obtained. It is anticipated it will take 3-4 days to drill and log this well.

#### MULTI-POINT SURFACE USE PLAN

1. EXISTING ROADS

Go east from Farmington 6% miles, turn south for approx 4 miles.

2. PLANNED ACCESS ROADS

No new access road will be required.

3. LOCATION OF EXISTING WELLS

See Attachments

- 4. LOACTION OF EXCISTING AND/OR PROPOSED FACILITIES
  - A. (1) None anticipated
    - (2) A separator may be required if well produces fluid.
    - (3) N.A.
    - (4) If the well is a producer, El Paso Natural Gas Co. will install gathering line under a right-of-way permit.
    - (5) N.A.
    - (6) N.A.
  - B. If the well is productive, all facilities will be within the disturbed area. A small pit (20'  $\times$  20') may be required if any water is produced. The pit will be fenced w/sheep wire to protect livestock and wildlife.
  - C. If the well is productive, the reserve pit will be fenced and allowed to dry up. As soon as it is dry, it will be filled and the area restored to its original contour. All trash and debris will be removed.

If the well is dry, the pit will be fenced and allowed to dry. The location and access road will be recontoured and reseeded as per BLM specifications.

5. LOCATION AND TYPE OF WATER SUPPLY

Water will be hauled by truck, probably from Well 267 injected facilities.

6. SOURCE OF CONSTRUCTION MATERIALS

None Anticipated.

- 7. METHODS FOR HANDLING WASTE DISPOSAL
  - (1&2) All cuttings and drilling fluids will be contained in the reserve pit.
  - (3) Produced fluids, if any, will be contained in portable tanks, unless it is good water which will be directed into the pit and allowed to evaporate or soak into the ground.
  - (4) A portable toilet will be used during drilling and completion operations/
  - (5) All trash will be buried in a small trash pit along side of the reserve pit.
  - (6) See Item 4.C.
- 8. ANCILLARY FACILITIES

None required.

- 9. WELL SITE LAYOUT
  - (1) See Attachment
  - (2) See Attachment
  - (3) See Attachment
  - (4) It is not planned to line ary pits.

ENERGY RESERVES GROUP, INC.

#### 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 has been policed up.

The disturbed area will be recontoured to its original contour and reseeded as per BLM's recommendations. It is planned to commence rehabilitation as soon as the pit has dried and weather permits.

### 11. OTHER INFORMATION

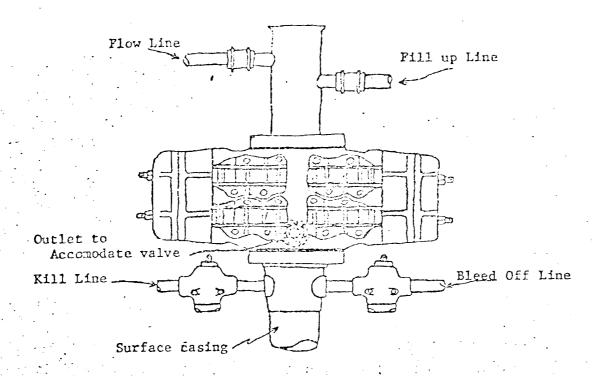
- (1) The area is generally rolling hills near the well site. The soil is composed mostly of sand with only sparce vegetation. Sage brush, cactus and assorted native grasses. Wildlife consists of rodents and birds.
- (2) The surface is public land and is not presently used for any activity, ie: grazing, recreation, etc.
- (3) The San Juan River is appx. 2½ miles north of the proposed well.

There was no evidence of any historical archaeological or cultural sites in the area to be disturbed.

Certification Attached.

# 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.
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9-13-79
Date Name and Title
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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.

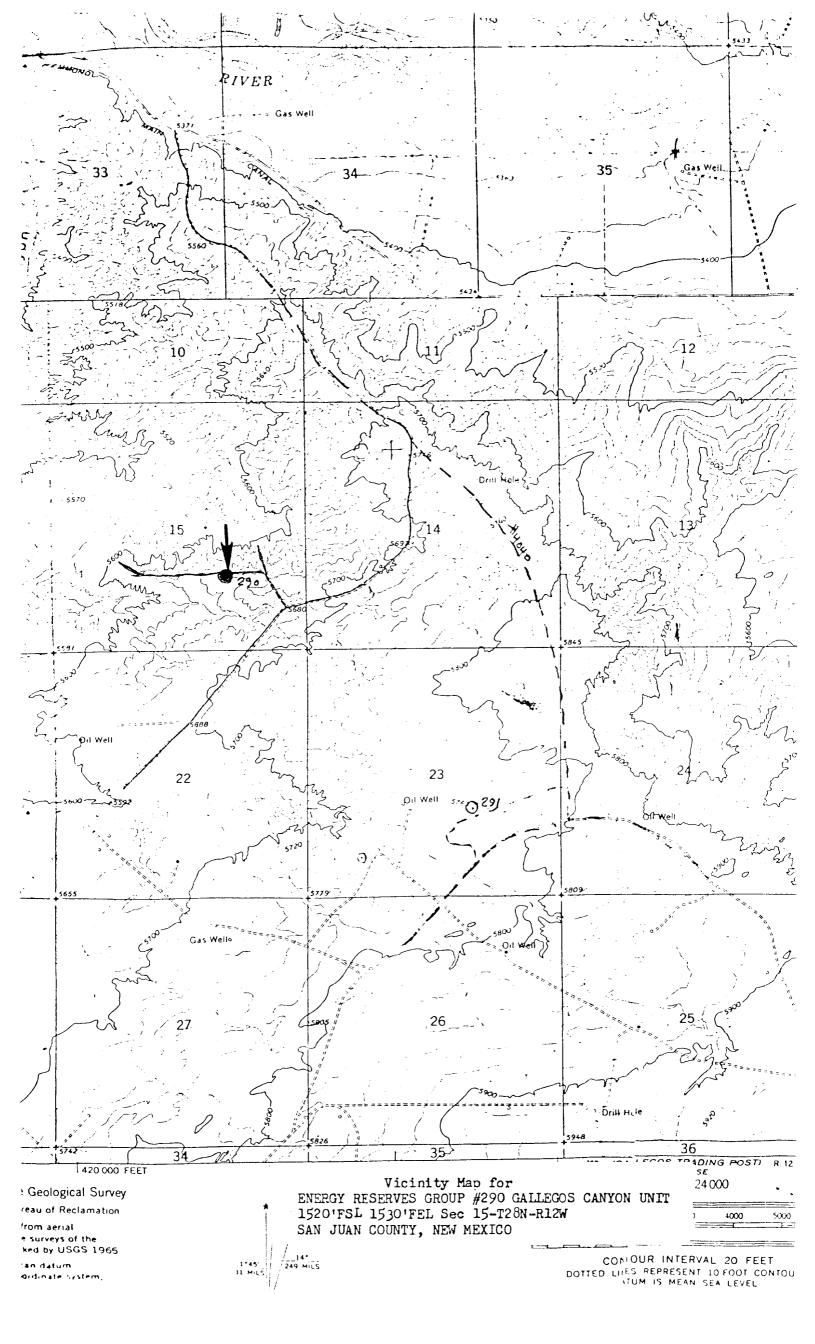
Kill line or bleed off line may be installed at flanged opening in blowout preventer.

Typical Location Mit for Portional Clift's Well

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E



Well Name Sallegro Canyon Unit Location SE 15 - 28 - 12	/
Well Name Nallegro Canyon Unil	J # 290
Location $SE15-28-12$	••
Formation P.C.	
We, the undersigned, have inspected this locati	on and road.
U. S. Forest Service	Date .
Archaeologist	9/5/79 Date /
Bureau of Indian Affairs Representative	Date
Banal	9/5%9
Bureau of Land Management Representative	Date
U. S. Geological Survey Representative	6.5.76
U. S. Geological Survey Representative	Date 75
Seed Mixture:	
Equipment Color: Trows	
Road and Row: (Same) or (Separate)	
Remarks:	•
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