SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

30-045-33652

GEOLOGICAL SURVEY							SF-078106			
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK							6. IF INDIAN, ALLOTTEE OR TRIBE NAME			
b. TYPE OF WELL OIL G. WELL W	AS OTHER	DEEPEN [s	PLUC	G BAC		7. UNIT AGREEME Gallegos 8. FARM OR LEASE	Canyon U	Init -	
2. NAME OF OPERATOR FREETOV Reserv	es Group, Inc.						9. WELL NO.			
3. ADDRESS OF OPERATOR							278			
P.O. Box 3280 Casper, Wyoming 82602 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface 870' FSL & 1730' FEL (SW/SE)							10. FIELD AND POOL, OR WILDCAT KUTZ PICTURED Cliffs 11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA			
At proposed prod. zone O/C FSL G 1/30 FEL (SW/SE)							Section 1	7, T28N-	R12W	
	and direction from NEA						12. COUNTY OR PA	RISH 13. STA	TE	
4½ miles south & 4 miles east of Farm 15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST				16. NO. OF ACRES IN LEASE 17			San Juan New Mexic NO. OF ACRES ASSIGNED TO THIS WELL			
PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)				Unitized 19. PROPOSED DEPTH			160			
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2600				1450'			_			
21. ELEVATIONS (Show whether DF, RT, GR, etc.)				1 1450			Rotary 22. APPROX. DATE WORK WILL START*			
5589 (GR) ungraded							July-August, 1979			
23.	I	PROPOSED CASIN	G ANI	CEMENTING I	PROGRAI	M				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	от	OT SETTING DEPTH		QUANTITY OF CEMENT				
9 7/8''	7''	17#	100'			cement to surface				
6 1/4"	4111	9.5#		1600'		10	00sx			
from surface 1400'-1600'. completion of	tes Group, Inc. to T.C. The ant No cores or DST the well.	icipated zo	one c	of completi	on is	the F	oictured Cli	ffs Form	ation	
one. If proposal is to reventer program, if any	PROPOSED PROGRAM: If drill or deepen directions	proposal is to deep lly, give pertinent	data o	lug back, give da n subsurface loca ield Servi	tions and	measuree	d and true vertical d	posed new prolepths. Give	blowout	
(This space for Wede	ral or State office use)	TIT					DATE			
PERMIT NO.	onice use)			APPROVAL DATE						
APPROVED BY		ТІТ	LE				DATE	<u> </u>		

ah Fruh

Jul Occ

*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-12 Effective 1-1-65

All distances must be from the ourne boundaries of the Section ĴĴ-078106 Energy Reserves Group, Inc. 278 28 North 12 West San Juan East South Dedicates Acrealer 5589 Gallegos Canyon Unit 160 Pictured Cliffs 1. Online the acreege deducated to the subject well by colored pencil or hachere marks on the plat below. 2. If more than one lease is dedicated to the well, online such and identify the ownership thereof (both as to working interest and royally's 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidetail by communitization, unitization, force-pooling, etc? Heaswar is "yes," type of considerion if one ver is "not" list the owners and trace descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)___ No ellowable will be assigned to the well usulf al. interests have been consolidated (by communitization, unitization, from depending, or otherwise or natil a non-standard unit, eliminating such interests, has been approved by the Commis-CERTIFICATION I hareby certify that the information contained hazala is true and complete to the best of my knowledge and bellef. Field Services Administrator Energy Reserves Group, Inc. June 28, 1979 Section 17 I hereby curtify that the well location shown on this plot was plotted from field notes of actual surveys made by me or under my aupervision, and that the some Is true and correct to the best of my knowledge and belief. Reji . And the state of the state of

185 (323) 1810 (480 2310 3440 2010 1500 1500 1500

SUPPLEMENTAL TO FORM 9-331C

1. The geologic name of the surface formation.

Nacimiento

2. The estimated tops of important geologic markers.

Fruitland	10001
Coal Marker	1350'
Pictured Cliffs "A"	1400'
Pictured Cliffs "B"	1450'
T.D.	1600'

3. The estimated depths at which anticipated water, oil, gas, and 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 4\frac{1}{2}'' 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 drawing 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.

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.

A fresh water chemical mud gel will be used for drilling. Sufficient 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 to be used will consist of: a sub on the floor with a full opening valve with 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 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.

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

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

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

MULTI-POINT SURFACE USE PLAN

1. EXISTING ROADS

- A. See attached topo map
- B. Approximately $4\frac{1}{2}$ miles south and 4 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 within $\frac{1}{2}$ mile of the location. This road will not require any improvements to allow for rig traffic.

2. PLANNED ACCESS ROADS

Approximately $\frac{1}{2}$ mile of new access road will be required. Maximum grade will be less than 10-12%. No turn outs are necessary. Culverts will be installed as per BIA recommendations. No gates, fence cuts, or cattleguards will be required. The road will require two (2) switch backs and considerable side hill cuts.

3. LOCATION OF EXISTING WELLS

See attached topo 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 BIA recommendations.

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 if any 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

1,2,3 See attached

4 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 future operations will be recontoured and reseeded as per BIA 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 Navajo Tribal under Administration of the Bureau of Indian Management. There are no continuously flowing streams in the area. The San Juan River is the nearest water. There are no occupied dwellings within one mile of the well site. An Archaeologica Inspection has been scheduled with the San Juan Museum.

MULTI-POINT SURFACE USE PLAN

PAGE TWO

. 12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

Bill Fiant, T.C. Durham or Roscoe Gillespie will be responsible for assuring compliance with approved surface use and operations plan.

BILL FIANT

Box 3280 Casper, Wyoming 307-265-7331 Office 307-265-2529 Home T.C. DURHAM

11:

Box 977 Farmington, New Mexico 505-327-1639 Office 505-325-7978 Home 505-325-1873 #539 Mobil R. GILLESPIE

Box 3280 Casper, Wyoming 307-265-7331 Office 307-234-0745 Home 307-265-4541 Mobil

13. CERTIFICATION

See attached

CERTIFICATION

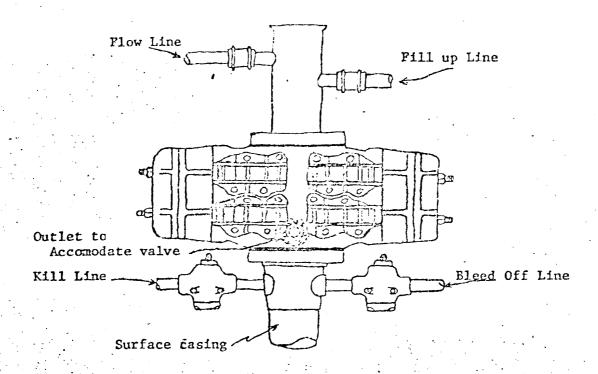
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated 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.

6-28-79

Name and Title

F. SERVICES ADM

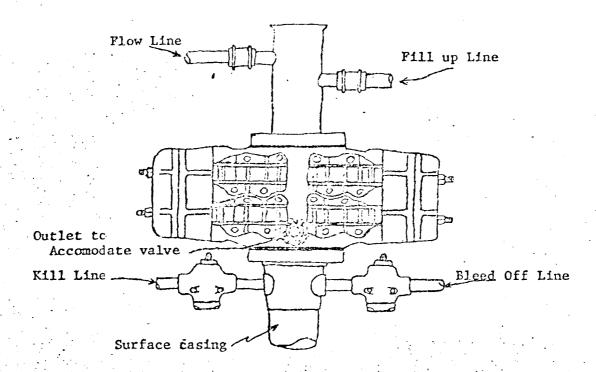


Blowout preventer is Shaffer double hydraulic equipped with drill pipe rams in the top and blind rams in the bottom.

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.



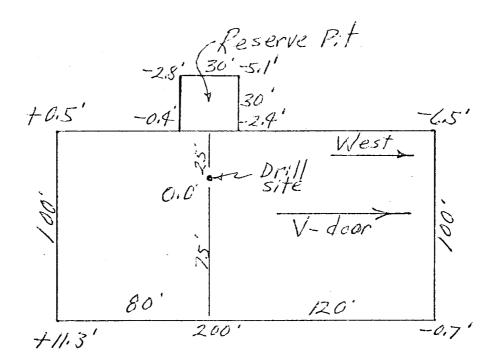
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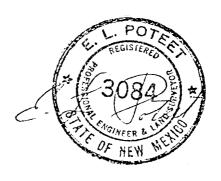
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Energy Reserves Group, Inc. GCU-PC # 278 870' FS & 1730' FE Sec 17-28N-12W San Juan County, New Mexico





June 14, 1979

