SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

30-045-23998

UNITE	:D S	SIAIL	:5	
DEPARTMENT	OF	THE	INTERIOR	

	DELARTMENT	01 1112 1	111	1011			5. LEASE DESIGNATION	AND SERIAL	NO.
GEOLOGICAL SURVEY						SF-078904			
APPLICATION	N FOR PERMIT 1	O DRILL, I	DEEPE	N, OR P	LUG B	ACK	6. IF INDIAN, ALLOTTEE	OR TRIBE	VAME
1a. TYPE OF WORK		DEEDEN	-	DI I			7. UNIT AGREEMENT N	4.3CP	
	DRILL 🖫 DEEPEN 🗌 PLUG BACK 🗆								
b. TYPE OF WELL OIL G	AS 📆			GLE 👽	MULTIPI	.в. 🗀	Gallegos C. 8. FARM OR LEASE NAM	anyon	Unit
2. NAME OF OPERATOR	VELL X OTHER		ZON	VE X	ZONE	Ц			
	orizon Croup	Tmo					Gallegos C.	anyon	Unit -
3. ADDRESS OF OPERATOR	erves Group,	THE.							
D U Dox 3	200 Caanam	I.I. ami ma	000	: 0.0			298 10. FIELD AND POOL, O	P WILDCAM	
4. LOCATION OF WELL (R	280 - Casper	in accordance wi	826 th any St		its.*)				
At surface	•		-		,		West Kutz	Pictu:	red Clif:
							AND SURVEY OR AR	EA	
At proposed prod. zon	990 FNL &						Sec. 24, T	28N-R	12W
	AND DIRECTION FROM NEAD						12. COUNTY OR PARISH	13. STAT	E
8-1/2" miles	East & 4-3/4	miles S	outh	of Farr	ningto	on,NM	San Juan	New 1	Mexico
LOCATION TO NEARES'	15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST 16. NO. OF ACRES IN LEASE TO				17. NO. C	OF ACRES ASSIGNED THIS WELL			
(Also to nearest drl	PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) Unitized				16	60 :			
TO NEAREST WELL, D	18. DISTANCE FROM PROPOSED LOCATION* 19. PROPOSED DEPTH 20. ROT				20. ROTA	ARY OR CABLE TOOLS			
or applied for, on this lease, ft. 900' 1,800' R					Ro	otary			
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)						22. APPROX. DATE WO	RK WILL ST	TART*
5,719'		·				·	Oct - Nov	, 1979	9
23.	P	PROPOSED CASI	NG AND	CEMENTING	PROGRA	M			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	00Т	SETTING DI	ЕРТН		QUANTITY OF CEMENT		
12-1/4"	8-5/8''	24 <i>‡</i>		120' -	200'	Cmt	mt to surface		
6-3/4"	4-1/2"	9.5#		1,800'		250	250 sx		
rotary tool Pictured Cl of all logs	rves Group, Ir s from surfactiffs Formation run will be	ce to T.D on @ 1,65 furnishe	. Th 0' d upo	ne antio 1,800'.	cipate No I Letion	ed zor OST's	ne of compleare planned	tion :	is the
W.S. G FAIX	PY 1 9 .513 EGLOCICAL SURVEY MANGRUM, IL III.						NO NO	V26 10 V7. 30	79 n.
zone. If proposal is to	PROPOSED PROGRAM: If a drill or deepen directiona	proposai is to deep lly, give pertinent	pen or pla t data on	ug back, giv e d subsurface lo	iata on pr cations an	esent prod d measured	uctive zone and proposed I and true vertical depub	i new prod s. Give bl	

APPROVAL DATE DATE _

Field Services Adminst. DATE November 2, 1979

CONDITIONS OF APPROVAL, IF ANY: of Fuch

(This space for Federal or State office use)

preventer program, if any.

APPROVED BY _

NMOCC

*See Instructions On Reverse Side

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 cuter houndaries of the Section

						Well No.
• ENERGY RES	פווחפה פפוזרים		Lease GAILEGOS	S CANYON U	NTT	298
Unit Letter	Section Section	Township	Range		County	
C	24	28N	127	1	San J	uan
Actual Footage Loc						
990	feet from the No	orth line and	1570	feet f	rom the	West line
Ground Level Elev.	Producing For		Pool			Dedicated Acreage:
5719	Pictured	Cliffs	West Ku	tz Pictu	red C	liffs 160 Acres
2. If more th interest ar	an one lease is nd royalty).	dedicated to the wel	l, outline ea	ch and ident	ify the o	wnership thereof (both as to working
dated by c	ommunitization, u	nitization, force-pooli	ng. etc? f consolidat	ion		nterests of all owners been consoli-
this form i No allowat	f necessary.) ole will be assign	ed to the well until al	interests h	ave been co	nsolidate	ed (by communitization, unitization, s, has been approved by the Commis-
			\$ }			CERTIFICATION
1570'			 			I hereby certify that the information con- tained herein is true and complete to the best of my knowledge and belief.
	+ 		 		_	Position Field Services Administ. Company Energy Reserves Group Date
	See	0.	i			November 6, 1979
		24				I hereby certify that the well location shown on this plat was plotted from field notes 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.
	+			<u></u>		Date Surveyed (1131-R10) October 5 5 1979 Registered Professional Engineer and/or Land Surveyor 5 5 1979 Fred Beacerr Jr
				7		Certificate No. 11.
0 330 660	90 1320 1650 194	0 2310 2640 200	0 1500	1000 500	0	3950

Supplemental to Form 9-3310

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

Ojo Alamo 400'
Kirtland 500'
Fruitland 1300'
Pictured Cliffs 1650'
T.D. 1800'

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

The Pictured Cliffs Formation @ 1650' - 1800' 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 4½" 9.5# @ 1800' Cement to 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.

Pressure control equipment to consist of an 8" hydraulically operated - double ram BOP series 900, 3000#. The BOP will be presure tested to 500 psi after installation and prior to drilling

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 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.

Kelly cock stop for 3½" drill pipe, and a full opening floor valve to stab into the drill pipe.

Page 2

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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. Nitrogen - water (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. 6-3/4 miles.

2. PLANNED ACCESS ROADS

Approx. 1000' of new toad will be required.

LOCATION OF EXISTING WELLS

See attachments.

4. LOCATION OF EXISTING 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'X20') may be required if any water is produced. The pit will be fenced w/sheep wire to protect livestock and wildlife. 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.

LOCATION AND TYPE OF WATER SUPPLY

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

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 4C ANCILLARY FACILITIES

None required.

WELL SITE LAYOUT 9.

- (1) See attachment
- See attachment (2)
- (3) See attachment
- It is not planned to line any pits. (4)

PLANS FOR RESTORATION OF SURFACE 10.

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 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.

OTHER INFORMATION 11.

- (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

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 exit; 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

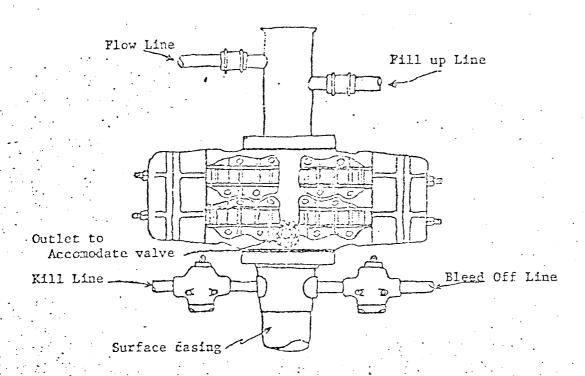
Jack Fritz

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

11-15-79

William J. Fiant

Tie (0)



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.

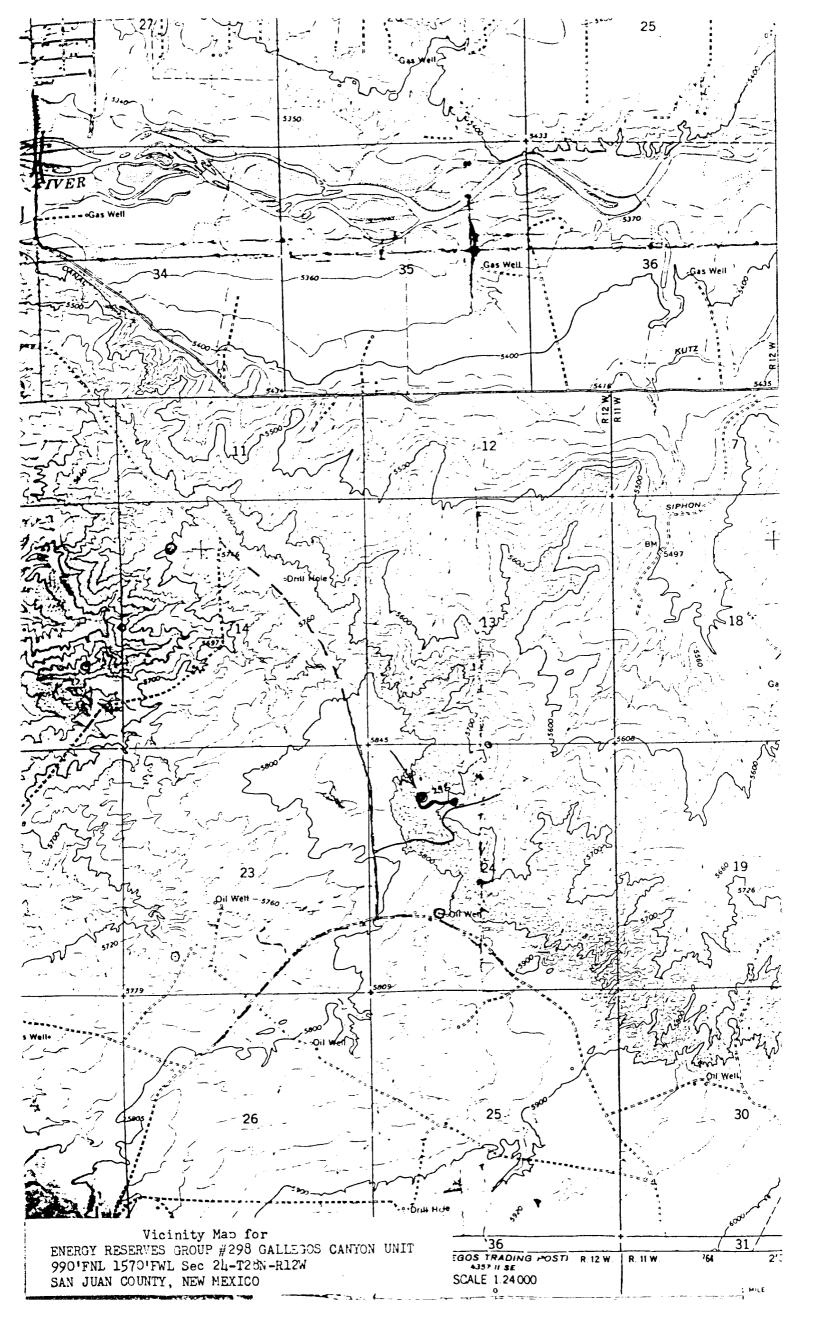
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Typical Location Mit for Pertired Custs Well

00, なさんな 7376

South ! By Truly

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Well Name Gallagor Canana 171 + 2	4 900
Well Name Gallegos Carryon Unit 7 Location NW 24-28-12	+2/1
Formation PC	-
We, the undersigned, have inspected this location	and road.
U. S. Forest Service	Date .
Archaeologist	10 16/7°
Bureau of Indian Affairs Representative Bureau of Land Management Representative	Date ///
U. S. Geological Survey Representative	10/16/79 Date
Seed Mixture:	:
Equipment Color: 30000	
Road and Row: (Same) or (Separate) $\frac{7}{0}$. Remarks:	
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