

OIL CONSERVATION COMMISSION
Alto DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE Dec. 16, 1980

RE: Proposed MC _____
Proposed DHC _____
Proposed NSL a _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

I have examined the application dated Dec. 15, 1980
for the Energy Resource Inc. SCU #318 0-28-78N-12W
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve

Yours very truly,

Frank J. Chang

Energy Reserves Group, Inc.
P.O. Box 3280
Casper, Wyoming 82602
Phone 307 265 7331



December 11, 1980

State of New Mexico
Oil Conservation Division
Northwest District Office
1000 Rio Brazos Road
Aztec, New Mexico 87401

RE: Unorthodox Well Location - Gallegos Canyon
Unit Well No. 318

Gentlemen:

Energy Reserves Group, Inc. respectfully requests approval of an unorthodox location for the below listed well based on topographical problems.

Gallegos Canyon Unit - Well No. 318
1310' FSL & 1430' FEL
Section 28, T28N-R12W

This well site is located in the Block 1 area of Navajo Irrigation Project. The well site was moved from its original stake to accomidate farming activities. The area is under cultivation and over head irrigation and would have created a problem to the existing surface activity. Energy Reserves Group is the Unit Operator of the Pictured Cliffs Formation. The site has been inspected and approved by BIA project representatives.

If there are any problems or questions please call anytime.

Very truly yours,

ENERGY RESERVES GROUP, INC.

William J. Fiant
Field Services Administrator

WJF/jh



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>				5. LEASE DESIGNATION AND SERIAL NO. SF078828-A	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>				6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Energy Reserves Group, Inc.				7. UNIT AGREEMENT NAME Gallegos Canyon Unit	
3. ADDRESS OF OPERATOR P. O. Box 3280, Casper, Wyoming 82602				8. FARM OR LEASE NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface At proposed prod. zone 1310' FSL & 1430' FEL				9. WELL NO. 318	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Approximately seven miles south of Farmington, New Mexico				10. FIELD AND POOL, OR WILDCAT West Jutz Pictured Cliffs	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1,110'		16. NO. OF ACRES IN LEASE Unitized		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 28, T28N-R12W	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2,300'		19. PROPOSED DEPTH 1,630'		12. COUNTY OR PARISH San Juan	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5,688' GR (ungraded)		20. ROTARY OR CABLE TOOLS Rotary		13. STATE New Mexico	
22. APPROX. DATE WORK WILL START* Nov.-Dec., 1980					
23. PROPOSED CASING AND CEMENTING PROGRAM					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT	
12-1/4"	8-5/8"	24#	120'	cement to surface	
6-3/4"	4-1/2"	9.5#	1,630'	cement to surface	

Energy Reserves Group, Inc. proposes to drill the above referenced well with rotary tools from the surface to T.D.

See attached plan of operations.

Gas is dedicated to El Paso Natural Gas Company.

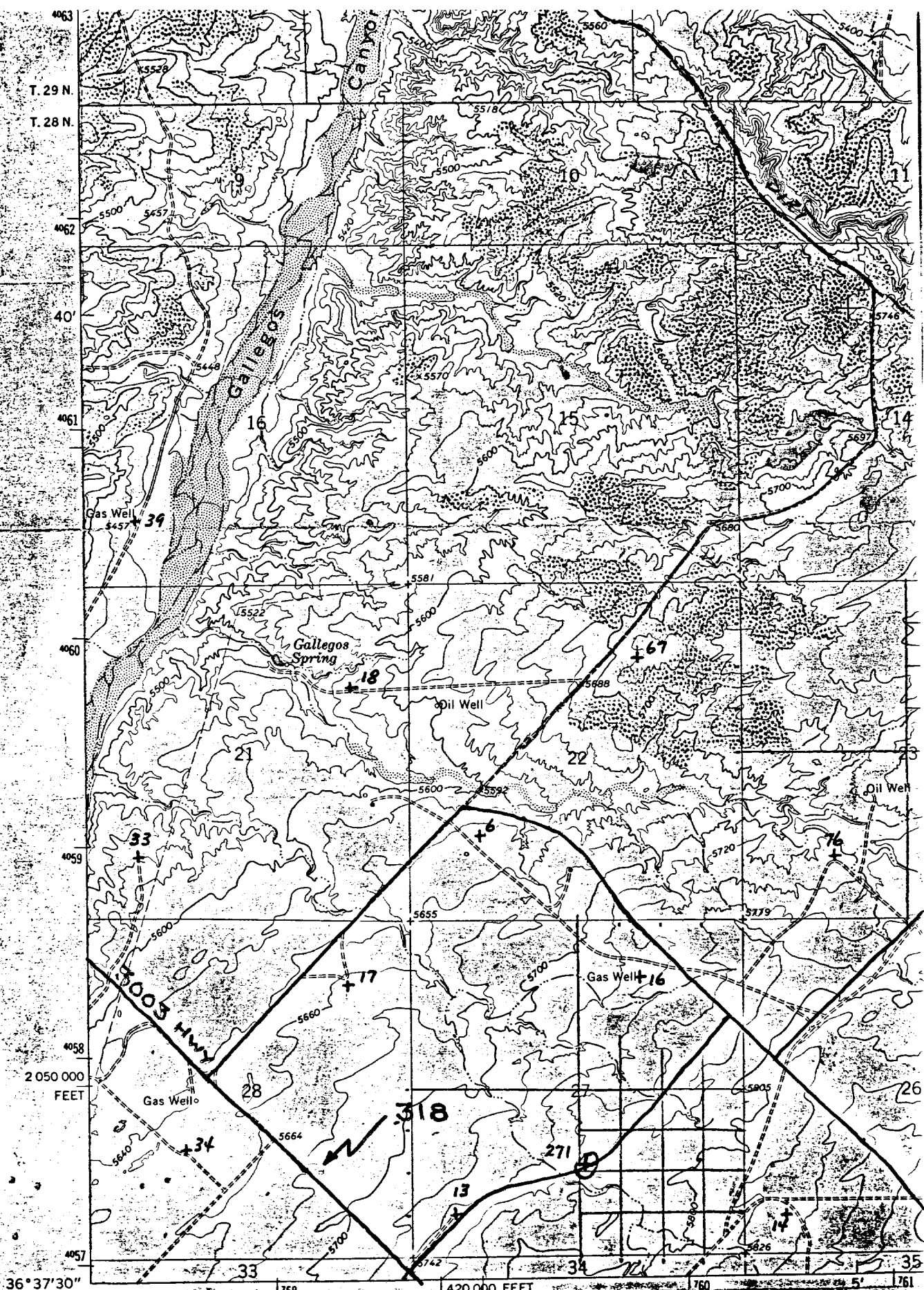


IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED [Signature] TITLE Field Services Administrator DATE 12-11-80
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:



36°37'30" 108°07'30" 420 000 FEET 760 761

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100

Mapped, edited, and published by the Geological Survey
Control by USGS, USC&GS, and U. S. Bureau of Reclamation

Supplemental to Form 9-331C

1. The geologic name of the surface formation is the Nacimiento.

2. The estimated tops of important geologic markers.

Kirtland	@	260'
Fruitland	@	1,110'
Pictured Cliffs	@	1,380'
Total Depth	@	1,630'

3. The estimated depths at which anticipated water, oil, gas, or other 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 @ 1110' may be gas productive
Pictured Cliffs @ 1380' 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#, 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 gelmud 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 opening 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 consist of Nitrogen water (foam) fracing, approximately 20,000 gallons of 70% quality foam 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.
H₂s is not a problem in this 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 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 is an existing improved (black top) road way adjacent to the proposed well site.

No maintenance is required on this public road

2. Planned Access Roads

None needed

3. Location of Existing Wells

(See attached map)

This well is within the Gallegos Canyon Unit, Pictured Cliffs participating 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 disturbed 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 currengs 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 non-perennial 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 vegetation 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, rabbits, 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

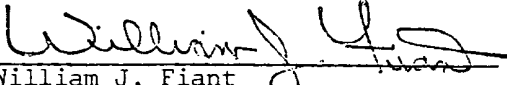
Telephone: 1-307-265-7331

13. Certification

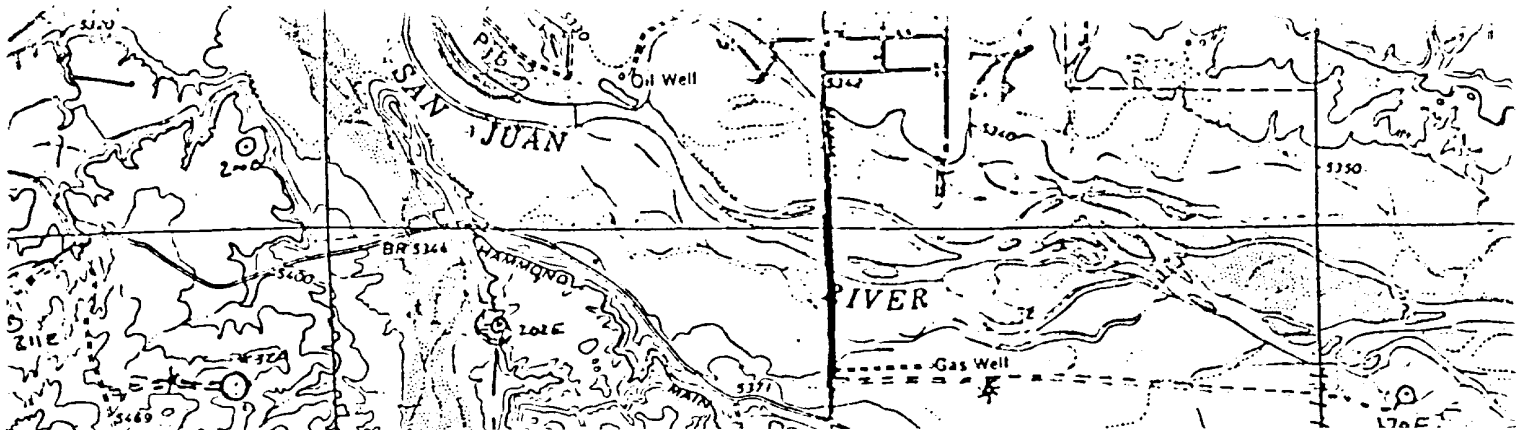
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge true and correct; and that the work associated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

12-11-80

Date



William J. Fiant



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-

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

Operator ENERGY RESERVES GROUP			Lease GALLEGOS CANYON UNIT		Well No. 318
Unit Letter 0	Section 28	Township 28N	Range 12W	County San Juan	
Actual Footage Location of Well: 1310' feet from the South line and 1430' feet from the East line					
Ground Level Elev: 5688	Producing Formation Pictured Cliffs		Pool West Kutz Pictured Cliffs		Dedicated Acreage: 160 Acres
<p>1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.</p> <p>2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).</p> <p>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?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No If answer is "yes," type of consolidation _____</p> <p>If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____</p> <p>No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.</p>					

Sec.		28		1430'	
				1310'	

Scale: 1"=1000'

CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
William J. Yuen Name	
Field Services Administrator	
Position	
Energy Reserves Group	
Company	
12-11-80	
Date	
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.	
Date Surveyed	
August 21, 1980	
Registered Professional Engineer and Land Surveyor	
Fred B. Kerr Jr.	
Certificate No.	
3950	

Mapped by
Control by L

ENERGY RESERVES GROUP #318 GALLEGOS CANYON UNIT
1320'FSL 1530'FEL Sec. 28-T28N-R12W

as on unplaned
1430' 1310'