

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☐GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Energy Reserves Group, Inc.

## 3. ADDRESS OF OPERATOR

Box 3280, Casper, Wyoming 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)  
At surfaceAt proposed prod. zone ~~1520' FNL~~ & 1520' FWL (SE/NW)

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

Approximately 15-1/2 miles south of Bloomfield, New Mexico

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

1520'

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

2300'

## 16. NO. OF ACRES IN LEASE

1920

## 19. PROPOSED DEPTH

6400'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

N/ 320 (460)

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6,338' GR (ungraded)

## 22. APPROX. DATE WORK WILL START\*

January, 1981

## 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#	700' +	cement to surface
7-7/8"	4-1/2"	10.5#	6,400'	500 sx cement

Energy Reserves Group, Inc. proposes to drill the above referenced well as described on the attached plan of operations.

Gas is dedicated to El Paso Natural Gas Company.

This action is subject to administrative  
appeal pursuant to 30 CFR 290.

DRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH ATTACHED  
"GENERAL REQUIREMENTS"

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

TITLE Field Services Administrator DATE 11-18-80

(This space for Federal or State office use)

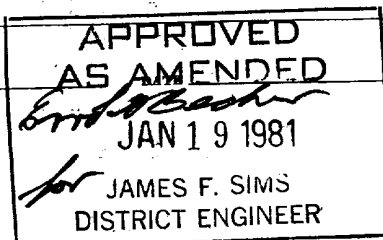
PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:



NMOCC

## OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107  
Revised 10-1-71

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

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

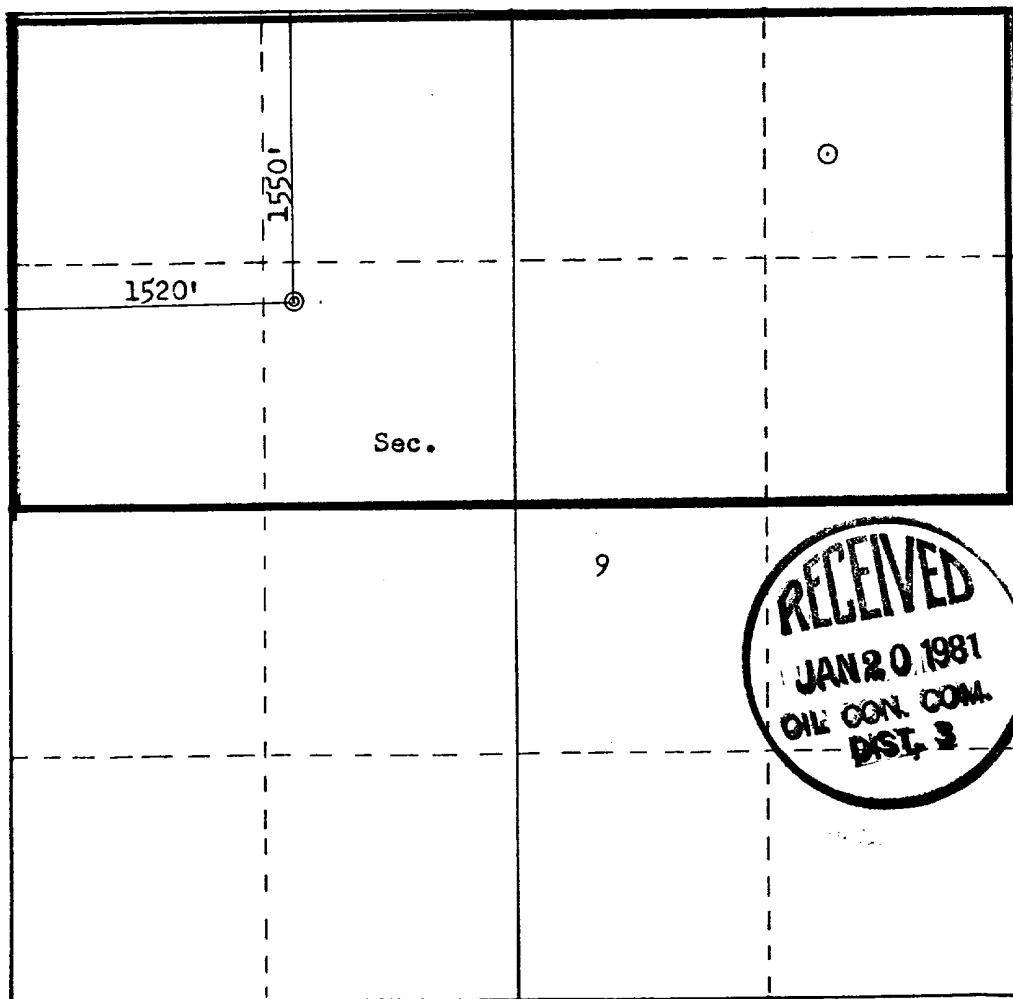
Operator <b>ENERGY RESERVES GROUP</b>		Lease <b>O. H. RANDALL</b>		Well No. <b>3E</b>
Unit Letter <b>F</b>	Section <b>9</b>	Township <b>26N</b>	Range <b>11W</b>	County <b>San Juan</b>
Actual Footage Location of Well: <b>1550</b> feet from the <b>North</b> line and <b>1520</b> feet from the <b>West</b> line				
Ground Level Elev: <b>6338</b>	Producing Formation <b>Dakota</b>	Pool <b>Basin Dakota</b>	Dedicated Acreage: <b>320 (160)</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
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).
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 this form if necessary.) \_\_\_\_\_

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.



Scale: 1"=1000'

## CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name William J. Fiant  
Position  
Field Services Administrator  
Company  
Energy Reserves Group, Inc.  
Date  
11-18-80

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  
October 9, 1980  
Registered Professional Engineer  
and Land Surveyor  
Fred B. Kerr, Jr.  
Certificate No. 3950  
KERR, JR.

Supplemental to Form 9-331C

1. The geologic name of the surface formation.

Nacimiento

2. The estimated tops of important geologic markers.

Ojo Alamo	655'
Kirtland	775'
Fruitland	1500'
Pictured Cliffs	1715'
Cliff House	3265'
Mancos	4440'
Gallup	5290'
Greenhorn	6120'
Dakota	6235'
TD	6400'

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

Ojo Alamo @ 655' is expected to be water productive  
Kirtland @ 755' possible gas  
Fruitland @ 1500' possible gas  
P. Cliffs @ 1715 gas  
Gallup @ 5290' oil  
Dakota @ 6235' primary objective (gas)

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", 10.5#, K-55, ST&C, new casing.

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.

An 8", series 900 2000# dual ram hydraulic preventor will be used. It will be pressure tested to 70% of the yield strength of the casing after setting surface casing and prior to drilling out cement. The BOE will be operated on each trip and recorded on the drillers log.

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 base chemical gel mud will be used during the drilling of this well. Sufficient quantities of mud materials will be on location to handle minor lost circulation and blow out conditions.

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.

(1) A kelly cock will be used.  
(2) Floats will be available if needed.  
(3) Monitoring of the mud system will be visual.  
(4) A sub with drill pipe thread and full opening valve 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 DST's are planned.  
- Logging will consist of: DIL, CNL-FDC-GR from the base of surface casing to TD.  
- No coring is planned

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.

Possible lost circulation in the Gallup Formation.

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

It is proposed to commence operations as soon as regulatory approval has been granted. It will take approximately 15-20 days to drill, complete and test this well.

## MULTI-POINT SURFACE USE PLAN

### 1. EXISTING ROADS

A-E. See attached map

F. Existing roads will not require any improvement to allow for rig traffic. They are currently maintained by Energy Reserves Group, Inc. and Southern Union Refinery Company.

### 2. PLANNED ACCESS ROADS

No new access required

### 3. LOCATION OF EXISTING WELLS

See attached map

Energy Reserves Group, Inc. Lease covers Section 9, 10, & 15

### 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

#### A. (Existing)

See attached map

(1) There are tank batteries located @ Wells #1, #2, & #5

(2) Wells #1 & #2 are equipped with pumping units. Wells #3 & #5 have a separator only

(3) Oil gathering lines are very short, running from the well head to the battery located at the edge of the well site.

(4) Gas is sold to El Paso Natural Gas Company @ the well head. Gathering lines are buried and they belong to El Paso Natural Gas Company.

(5) NA

(6) NA

#### B. (Proposed)

(1&2) See attached plat

It will probably be necessary to set a 200-400 barrel tank at the edge of the well site to collect condensate.

(3) Standard oil field construction methods will be used. No outside construction materials will be needed

(4) All pits and any rotating machinery will be fenced or guarded so as to protect livestock & wildlife

#### C. (Rehabilitation)

Those disturbed areas no longer needed after drilling and completion operations will be recontoured and reseeded as per BLM recommendations.

### 5. LOCATION & TYPE OF WATER SUPPLY

A. Water will be obtained from the Hill Top Water Well located approximately 2 miles east

B. Water will be hauled by trucks over existing roads.

C. No water wells are planned

### 6. SOURCE OF CONSTRUCTION MATERIALS

None needed

### 7. METHODS OF HANDLING WASTE DISPOSAL

(1-5) Cuttings, drilling fluids and produced water will be contained in the reserve pit. Any oil produced will be put into tanks. A portable toilet will be used during drilling and completion operations. Garbage and other trash will be placed in a deep pit and buried.

(6) Upon completion of operations the location will be policed up and all trash and garbage placed in the trash pit. The pit will then be covered to prevent scattering. The reserve pit will be fenced and allowed to dry. After drying it will be backfilled and recontoured to as near its original contour as possible.

### 8. ANCILLARY FACILITIES

No camps or airstrips are planned

9. WELL SITE LAYOUT

See attached

10. PLANS FOR RESTORATION OF THE SURFACE

See 7. (6)

If the drilling results in a dry hole or failure, the entire disturbed area including access road will be contoured and reseeded as per BLM recommendations. The location rehabilitation will commence as soon as the pit has sufficiently dried to allow back-filling.

11. OTHER INFORMATION

The area is generally arid, high desert type country. The area near the location is relatively flat with gentle rolling hills with numerous small gullies and dry washes. Vegetation is sparse, consisting of sage brush and assorted native grasses. Wildlife is also sparse with an occasional mule deer, coyotes, rabbits, badgers, and other small rodents and birds. There are no nearby occupied dwellings. An Archaeological Inspection has been conducted.

12. LESSEE'S OR OPERATOR'S REPRESENTATIVES

The below listed personnel will be responsible for assuring compliance with the approved surface use plan.

Mr. T.C. Durham  
P.O. Box 977  
Farmington, New Mexico 87401  
Home Phone 505-325-7978  
Office Phone 505-327-1639  
Mobile Phone 505-325-1873 #539

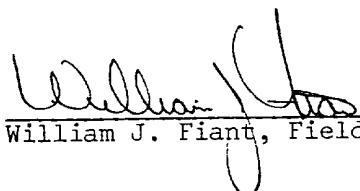
Mr. Harland Gould  
2124 Summit Drive  
Farmington, New Mexico 87401  
Home Phone 505-325-3235  
Office Phone 505-334-6200  
Mobile Phone 505-325-0474

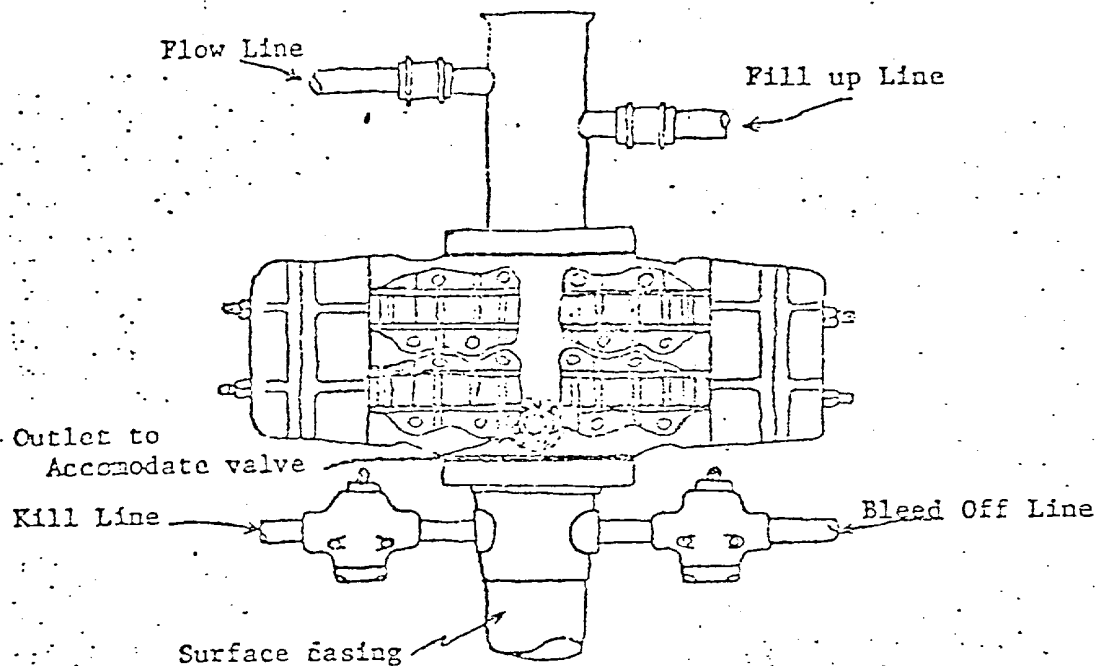
Mr. Bill Fiant  
P.O. Box 3280  
Casper, Wyoming 82602  
Home Phone 307-265-2529  
Office Phone 307-265-7331

13. 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 Jack Fritz and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

11-18-80  
Date

  
William J. Fiant, Field Services Administrator



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 Kocway 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.

RECEIVED

OCT 22 1980

RMD CASPER

Well Name G. H. Randel # 3E  
Location NW 9-26-11  
Formation Dakota

We, the undersigned, have inspected this location and road.

U. S. Forest Service  
Randall D. Mooka  
Archaeologist  
Date 10-17-80

B. W. Nair N.I.P.  
Bureau of Indian Affairs Representative  
Date 10-17-80

Bureau of Land Management Representative  
[Signature]  
Date 10/17/80  
U. S. Geological Survey Representative - AGREES  
TO THE FOOTAGE LOCATION OF THIS WELL.

REASON:

Seed Mixture: #4

Equipment Color: Sand Brown

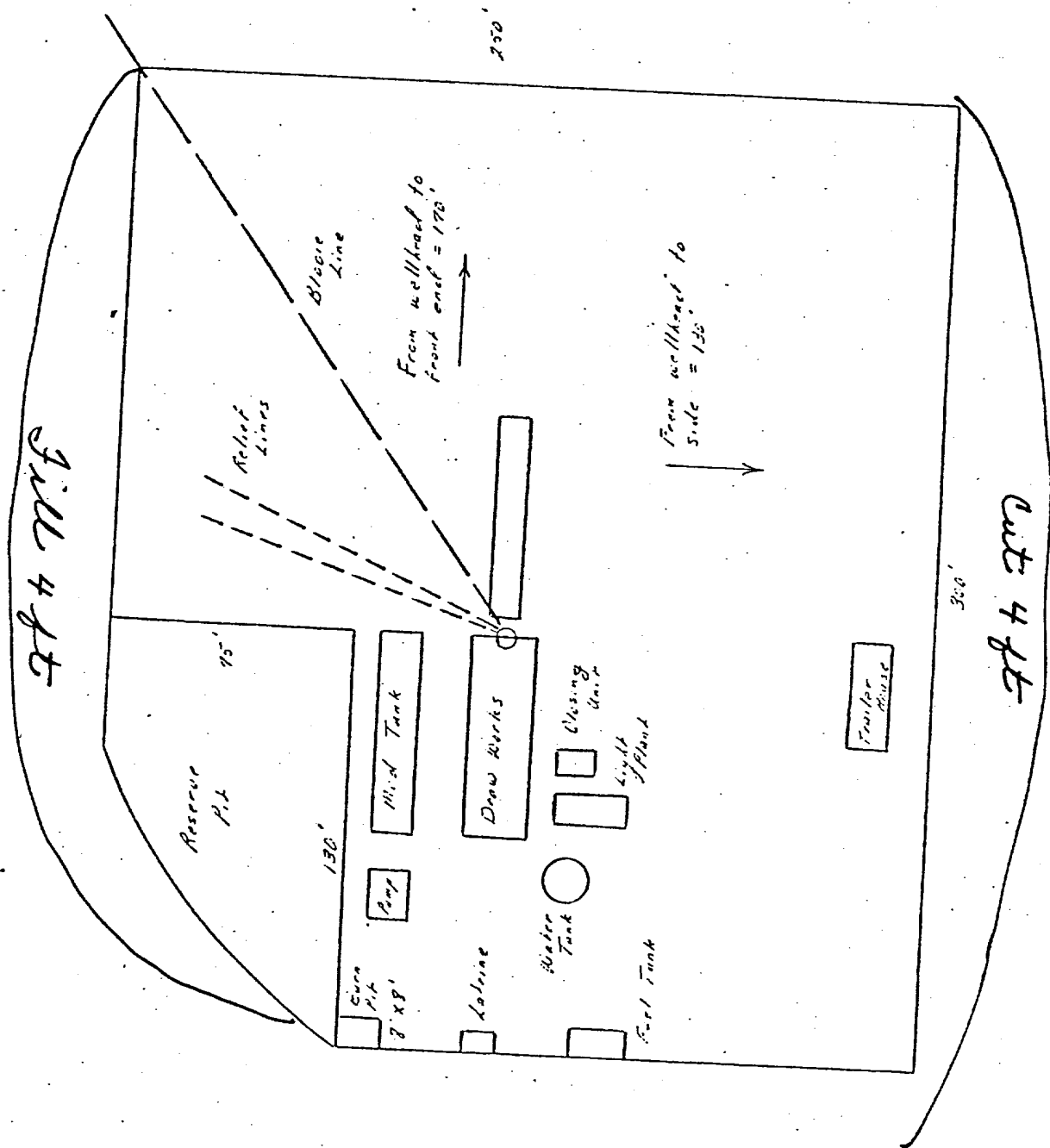
Road and Row: (Same) or (Separate)

Remarks:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



M

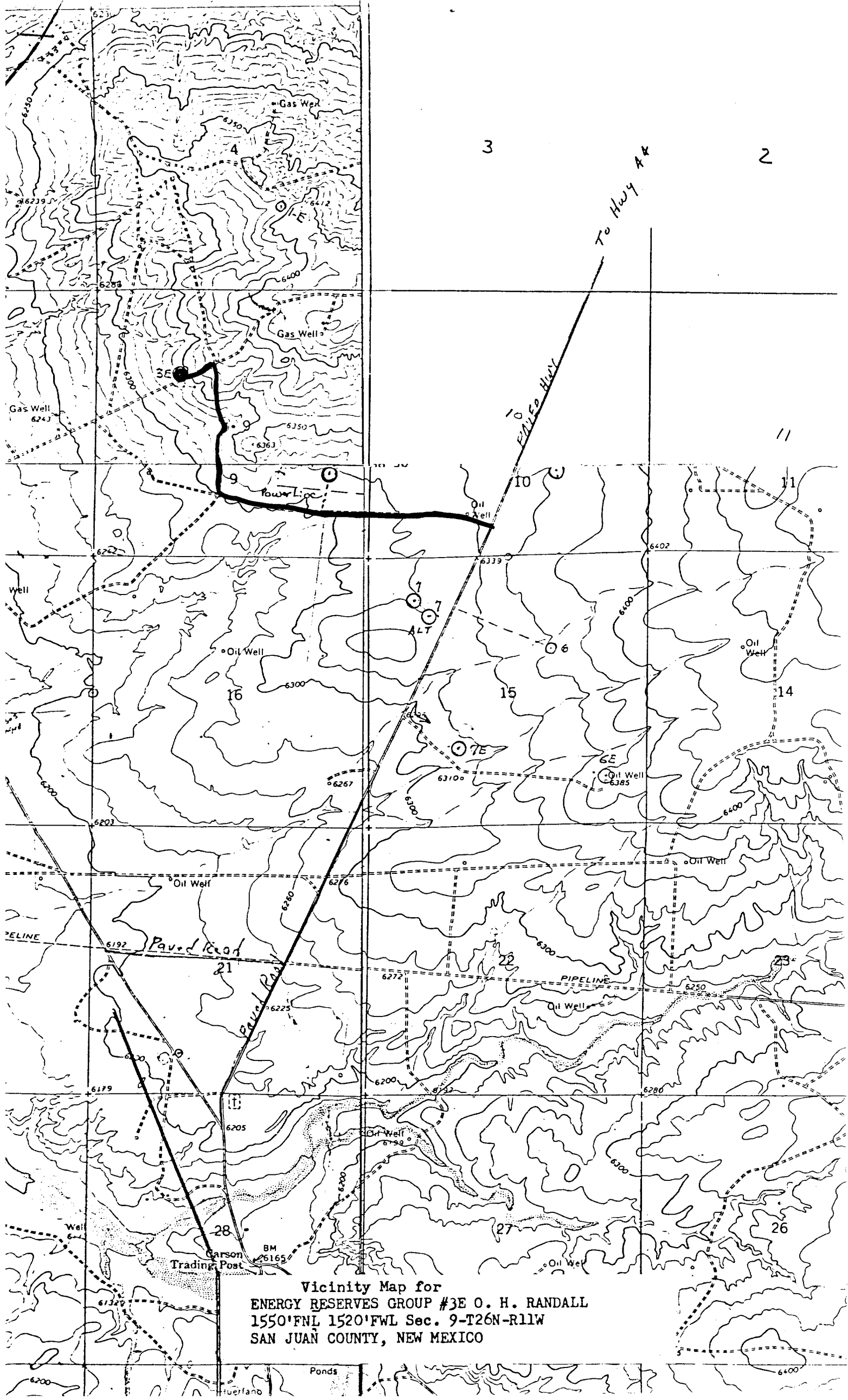
Typical location plot for Mesa Verde and Dakota Wells



S

NO  
↙

E



Vicinity Map for  
ENERGY RESERVES GROUP #3E O. H. RANDALL  
1550'FNL 1520'FWL Sec. 9-T26N-R11W  
SAN JUAN COUNTY, NEW MEXICO

## SUNDRY NOTICES AND REPORTS ON WELLS

1. oil well ☐ gas well ☒ other

2. NAME OF OPERATOR  
Energy Reserves Group, Inc.

3. ADDRESS OF OPERATOR  
P.O. Box 3280 - Casper, Wyoming 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1,520' FNL & 1,520' FWL (SE/NW)  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,  
REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>
(other)	<input type="checkbox"/>

SUBSEQUENT REPORT OF:

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

The above referenced well was spudded @ 1:30 PM 2-14-81.

Drilled 12-1/4" hole to 925' - Ran 22 jts 8-5/8" O.D., 24#, K-55, 8Rth, R-3 casing set @ 914' KB. Cemented w/600 sx Class "B" cement w/2% CaCl<sub>2</sub> & 1/4# Flocele/sx. Plug down @ 5:15 AM 2-15-81. Good cement returns.

Nippled up & pressure tested BOPE to 800 psi--held ok

2-16-81 - Drlg 7-7/8" hole @ 2,194'.

Subsurface Safety Valve: Manu. and Type

**18. I hereby certify that the foregoing is true and correct**

SIGNED W. A. Thomas TITLE Drly Foreman-RMD

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

FEB 24 1981

## FARMINGTON DISTRICT

**\*See Instructions on Reverse Side**

5. LEASE  
NM-03153

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
O.H. Randel

9. WELL NO.  
3-E

10. FIELD OR WILDCAT NAME  
Basin Dakota

11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA  
Sec. 9-T26N-R11W

12. COUNTY OR PARISH	13. STATE
San Juan	New Mexico

14. API, NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
G.L. 6,338' - K.B. 6,351'

OIL CONE BOM  
DIST 3 Set

2-17-81