SUBMIT IN TRIPLICATE\*

Form approved. Budget Bureau No. 42-R1425.

,		ED STATES OF THE INTE	RIOR		30-045-23705	
DEPARTMENT OF THE INTERIOR  GEOLOGICAL SURVEY					5. LEASE DESIGNATION AND SERIAL NO.  NM 013860-A	
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK					6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
APPLICATION	FOR PERMIT T	O DRILL, DEEL	PEN, OR PLUG I	BACK		
DRILL X DEEPEN D PLUG BACK					7. UNIT AGREEMENT NAME	
b. TYPE OF WELL OIL GA			SINGLE MULTIN	PLE	S. FARM OR LEASE NAME	
2. NAME OF OPERATOR	CLL X OTHER		ZONE ZONE		Russell	
	ural Gas Com	pany			9. WELL NO.	
3. ADDRESS OF OPERATOR	dial dab com	pany				
DO BOY 289	Farmington,	NM 87401			10. FIELD AND POOL, OR WILDCAT	
4. LOCATION OF WELL (Re	port location clearly and	in accordance with any	State requirements.*)	··	Blanco Mesa Verde —	
_ At surface	1480'N, 18				11. SEC., T., B., M., OR BLK.	
At proposed prod. zone	•	20 11			Sec. 25, T-28-N, R-8-W	
14 DISTANCE IN MILES A	Same	EST TOWN OR POST OFF	(CE*		12. COUNTY OR PARISH   13. STATE	
_	Southeast of				San Juan NM	
12. 3 MILLES 15. DISTANCE FROM PROPO			NO. OF ACRES IN LEASE	17. No. 0	OF ACRES ASSIGNED	
LOCATION TO NEAREST PROPERTY OR LEASE L		1480'	1200	TO T	320.00	
(Also to nearest drlg 18. DISTANCE FROM PROPO	. unit line, if any)	ļ	PROPOSED DEPTH	20. ROTA	ARY OR CABLE TOOLS	
TO NEAREST WELL, DE OR APPLIED FOR, ON THI	RILLING, COMPLETED,	400'	5480'	Rotar		
21. ELEVATIONS (Show whe					22. APPROX. DATE WORK WILL START*	
6303'GL	enter Dr., 161, Gla, Coo.,					
23.	P	ROPOSED CASING AI	ND CEMENTING PROGR	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT	
13 3/4"	9 5/8"	32.3#	200'	224	cu.ft. to circulate	
8 3/4"	7"	20.0#	3182'		cu.ft.to cover Ojo A	
6 1/4"	4 1/2"line		3032-5480'		cu.ft.to circ.liner	
Selectively	y perforate a	nd sandwate:	r fracture th	ie Mesa	a Verde formation.	
A 3000 psi blind and p	WP and 6000 pipe rams wil	psi test do l be used f	uble gate pre or blow out p	vente revent	r equipped with tion on this well.	
This gas is	dedicated.		-1079			
			And a late.		JUL 27 18/9	
The $W/2$ of	Section 25 i	s dedicated	toth this well	1	GEOLOGICAL SURVEY	
IN ABOVE SPACE DESCRIBE zone. If proposal is to preventer program, if an	urm or deepen unectiona	oroposal is to deepen or lly, give pertinent data	pug back, give data or on subsurface locations a	present prod and measure	GEOLOGICAL SHOWEY ductive zone and proposed new productive and true vertical depths. Give blowout	
<del>`</del> <del>`</del>	9-					
<b>24</b> . )	<b>7-</b>				· · · · · · · · · · · · · · · · · · ·	
signed	Bradlu			Clerk	DATE _7-26-79	

of Fresh

PERMIT NO. \_

\*See Instructions On Reverse Side

TITLE

APPROVAL DATE

DATE \_\_\_

# STATE OF NEW MEXICO

1650

1980

#### COMPER ANTION DIVISION

P. O. BOX 2088

Form C-102

ENERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501 Revised 10-1-78 All distances must be from the cuter boundaries of the Section. Operator Well No. EL PASO NATURAL GAS COMPANY (NM-013860-A) RUSSELL. 2<u>A</u> Unit Letter Section Township Range County 25 28N 8W San Juan Actual Footage Location of Well: 1780 North 1820 feet from the West line Ground Level Elev. Producing Formation Dedicated Acreage: 6303 Mesa Verde Blanco Mesa Verde 320.00 Actes 1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 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. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Name 1820 Paulling Clerk Sec. 25 I hereby certify that the well location NM-01.3860-A 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. #7 Date Surveyed June 19, 1979 Fred B. e KERR.

1500

1000

500

3950



P. O. BOX 990 FARMINGTON, NEW MEXICO 87401 PHONE: 505-325-2841

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# Multi-Point Surface Use Plan

## Russell #2A

- 1. Existing Road Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map.

  All existing and new roads will be properly maintained during the duration of this project.
- 2. Planned Access Roads Please refer to Map No. 1. The grade of the access roads will be consistent with that of the local terrain. The road surface will not exceed twenty feet (20') in width. Upon completion of the project, the access road will be adequately drained to control soil erosion. Drainage facilities may include ditches, water bars, culverts or any other measure deemed necessary by trained Company personnel to insure proper drainage. Gates and/or cattleguards will be installed if necessary.
- 3. Location of Existing Wells Please refer to Map No. 2.
- 4. Location of Tank Batteries, Production Facilities, and Production
  Gathering and Service Lines Please refer to Maps No. 1 and No. 2.

  Map No. 2 shows the existing gas gathering
  lines. Map No. 1 shows the existing roads and
  new proposed access roads. All known production
  facilities are shown on these two maps.
- Location and Type of Water Supply Water for the proposed project will be obtained from Grambling Water Well.
- 6. Source of Construction Materials No additional materials will be required to build either the access road or the proposed location.
- 7. Methods of Handling Waste Materials All garbage and trash materials will be put into a burn pit shown on the attached Location Plat No. 1. When clean-up operations are begun on the proposed project, the burn pit with its refuse will be buried to a depth of at least three feet (3'). A latrine, the location of which is also shown on Plat No. 1,

7. cont'd.

- will be provided for human waste. If large amounts of liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying any of these materials into the watershed. No earthen pit will be located on natural drainages; all earthen pits will be so constructed as to prevent leakage from occurring.
- 8. Ancillary Facilities No camps or airstrips will be associated with this project.
- 9. Wellsite Layout Please refer to the attached Plat No. 1.
- 10. Plans for Restoration of the Surface After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed mixture as designated by the responsible government agency will be used. The reseeding operation will be performed during the time period set forth by the regulatory body. The location production equipment will be painted as designated by the responsible government agency.
- 11. Other Information The terrain is sagebrush flats with sagebrush growing. Cattle and deer are occasionally seen on the proposed project site.
- 12. Operator's Representative W.D. Dawson, PO Box 990, Farmington, NM
- 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 El Paso Natural Gas Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

T A Aimes

Project Drilling Engineer

#### Operations Plan Russell #2A

I. Location: 1480'N, 1820'W, Section 25, T-28-N, R-8-W, San Juan County, NM

Field: Blanco Mesa Verde <u>Elevation:</u> 6303'GL

### II. Geology:

Α.	Formation '	Tops:	Surface	San Jose	Lewis	2982'
		_	Ojo Alamo	1967 <b>'</b>	Mesa Verde	4477'
			Kirtland	2026'	Menefee	4569'
			Fruitland	2572 <b>'</b>	Point Lookout	5028
			Pic.Cliffs	2840 <b>'</b>	Total Depth	5480'

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4470', 4560', 5020' and at Total Depth.
  Also gauge any noticeable increase in gas. Record all gauges in daily drilling report and on morning report.

#### III. Drilling:

A. Mud Program: mud from surface to 3182'. Gas from intermediate casing to Total Depth.

### IV. Materials:

Α.	Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
	3 3	13 3/4"	200	9 5/8"	32.3# H-40
		8 3/4"	3182'	7"	20.0# K-55
		6 1/4"	3032-5480'	4 1/2"	10.5# K-55

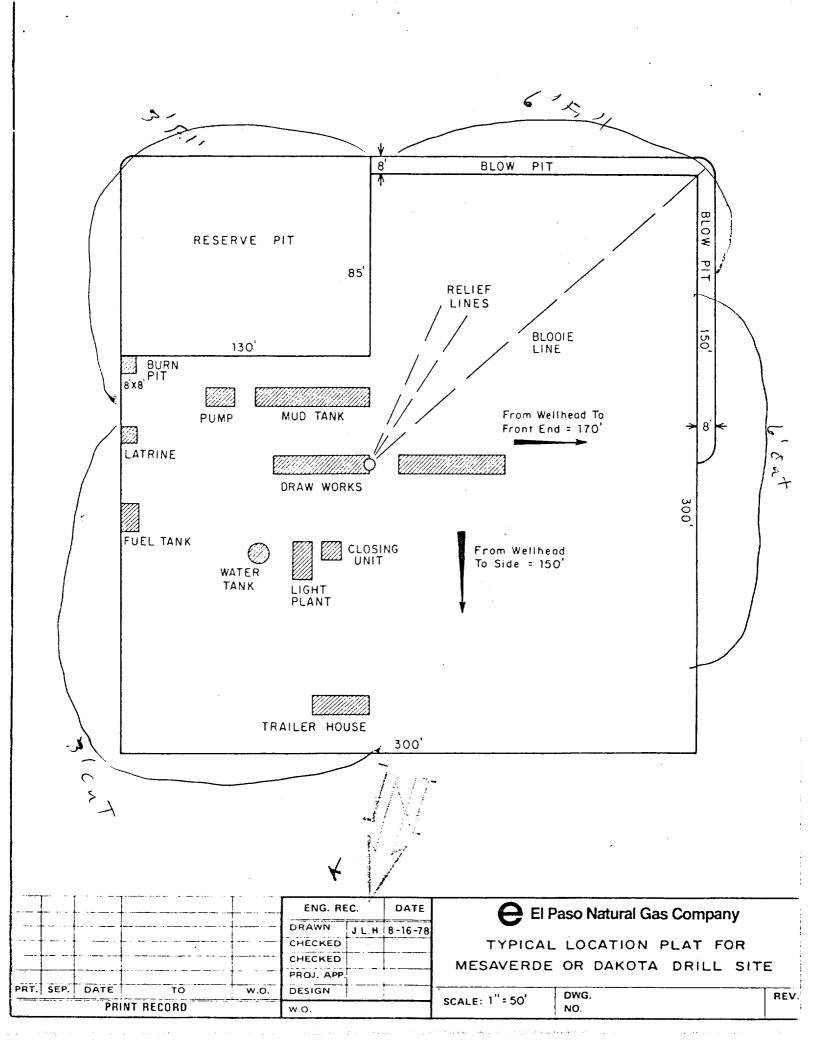
B. Float Equipment: 9 5/8" surface casing - B & W guide shoe
 (Prod. No. FC 06-09611-0200)

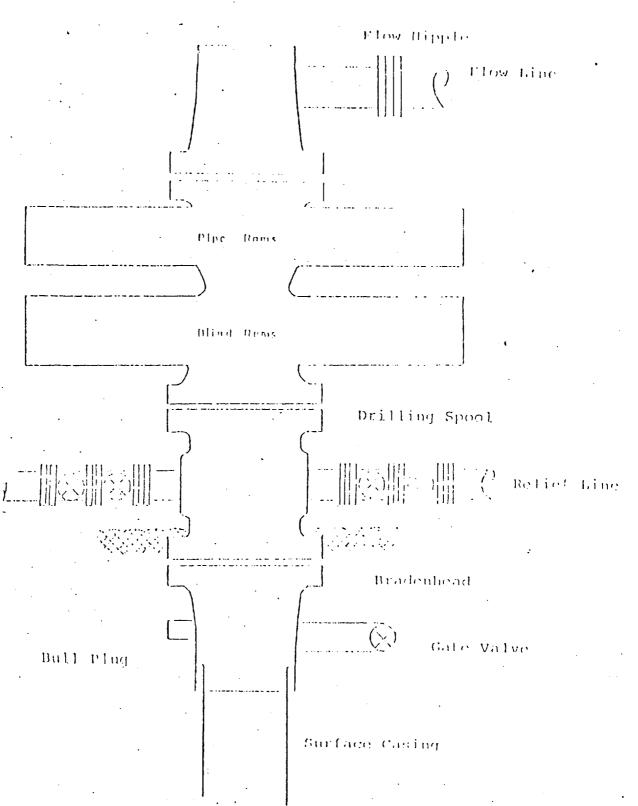
7" intermediate casing - Pathfinder guide shoe (Part #1003-1-007) and Howco self-fill insert float valve (Price Ref.36A&37), 5 Pathfinder stabilizers (Part #107-10) every other joint above shoe. Run float two joints above shoe.

- 4 1/2" liner 4 1/2" liner hanger with neoprene packoff. Larkin geyser shoe (Fig. 222) and Larkin flapper type float collar(fig. 404 M&F).
- C. Tubing: 5480' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple one joint above bottom. Tubing will be open ended.
- D. Wellhead Equipment: 10" 900 x 9 5/8" casing head. 10" 900 x 6" 900 xmas tree.

## V. Cementing:

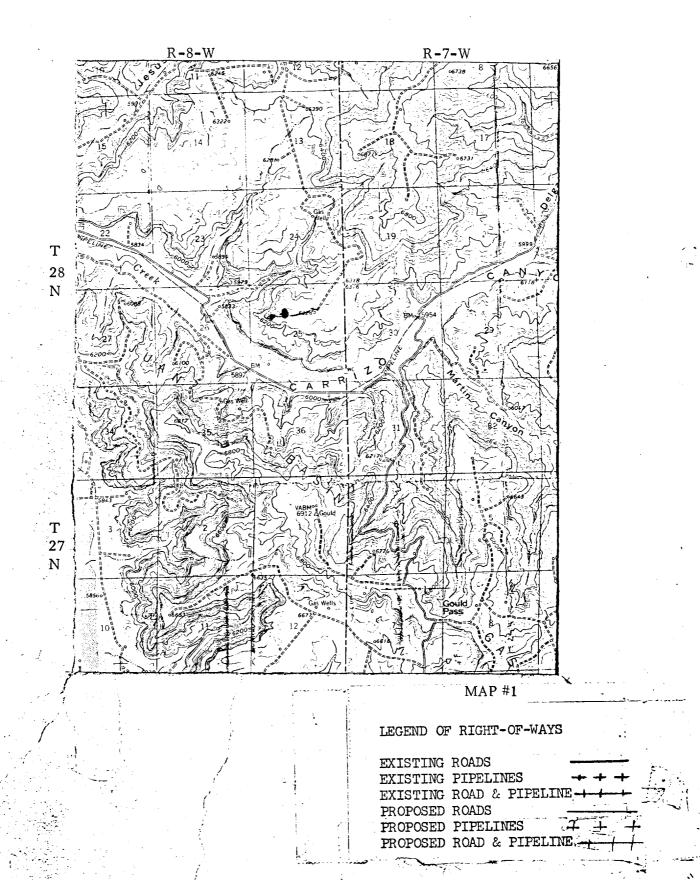
- 9 5/8" surface casing use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.
- 7" intermediate casing use 96 sks. of 65/35 Class "B" Poz with 6% gel and 2% calcium chloride (8.3 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (274 cu.ft. of slurry, 50% excess to cover Ojo Alamo). Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1200#/30 minutes.
- 4 1/2" liner precede cement with 20 barrels of gel water (2 sks. gel) Cement with 307 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (427 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



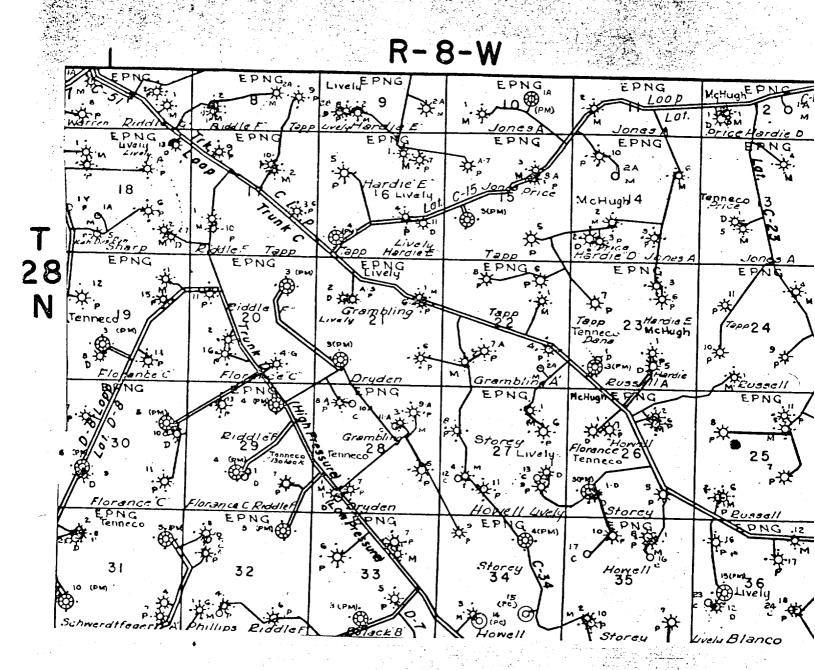


Series 900 Double Gate BOP, rated at 3000 psi Working Pressure When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line

# EL PASO NATURAL GAS COMPANY Russell #2A NW 25-28-8



EL PASO NATURAL GAS COMPANY Russell #2A NW 25-28-8



MAP #2

Proposed Location