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SUBMIT IN TRIPLICATE*

Budget Bureau No. 42-R142		approved Bureau		42-R1425
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DEPARTMENT	OF	THE	INTERIOR

(1.11)	IINI	TED STATES	(Other instru reverse s		Budget Bureau No. 42-R1425.
		T OF THE INTE			30-039-22424
		OGICAL SURVEY			5. LEASE DESIGNATION AND SERIAL NO.
A DDI ICATIONI)F\		SF 078503
	FOR PERMIT	TO DRILL, DEEP	PEN, OR PLUG E	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
. TYPE OF WORK	L 🗵	DEEPEN 🗌	DI LIC DA	cv 🖂	7. UNIT AGREEMENT NAME
ONIL. TYPE OF WELL	L M	DEEPEN	PLUG BA	CK 🗀	San Juan 29-7 Unit
OIL GAS			SINGLE MULTIP	LE X	8. FARM OR LEASE NAME
NAME OF OPERATOR	or the contract of the contrac		ZONE ZONE		San Juan 29-7 Unit
El Paso Na	tural Gas C	ompany			9. WELL NO.
ADDRESS OF OPERATOR					114M
PO Box 289	, Farmingto	n, NM 87401			10. FIELD AND POOL, OR WILDCAT
LOCATION OF WELL (Rep. At surface	ort location clearly an	d in accordance with any	State requirements.*)		Blanco Mesa Verde
int Bullace	790'N, 15	30'W			Basin Dakota 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zone	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				1
	same				Sec.33,T-29-N,R-7-W
DISTANCE IN MILES AN		REST TOWN OR POST OFFI	CE.		12. COUNTY OR PARISH 13. STATE
5 miles so	outh of Nava	jo City, NM			Rio Arriba NM
DISTANCE FROM PROPOS LOCATION TO NEAREST	ED*		O. OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL
PROPERTY OR LEASE LIN (Also to nearest drig.		790' /97	0.04 Unit V	320.	
DISTANCE FROM PROPOS TO NEAREST WELL, DRI			ROPOSED DEPTH	20. кота	RY OR CABLE TOOLS
OR APPLIED FOR, ON THIS	LEASE, FT.	2000'	8086'	Rota	ry
ELEVATIONS (Show wheth	her DF, RT, GR, etc.)				22. APPROX. DATE WORK WILL START*
6841'GL					
	1	PROPOSED CASING AN	D CEMENTING PROGRA	M	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	<u> </u>	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48.0#	200'	278	cu.ft.circ.to surface
12 1/2"	9 5/8"	40.0#	3990'	604	cu.ft.cover Ojo Alamo
8 3/4"	7"	20.0#	3840-6365'	646	cu.ft.to circ. liner
6 1/4" '	4 1/2"	10.5#&11.6#	6215-8086'	336	cu.ft.to circ. liner
		and sandwat	er fracture t	the Me	sa Verde and
Dakota for	mations.				$T^{-1}(x) = T^{-1}(x)$
			ouble gate pr	revent	er equipped
	and hipe r	ams will be	used for blow	Out	prevention on this
well.		Elvan			DECEME
mbia ana i	is dedicated	30			RECEIVED
IIIIS yas i	is depromped	b_{0} .	JUN 2 7 198	0 1	430
	COVO	380 / J	JUNZ	M. 1	- JUN 1 1 1980
The W/2 of	Section %	de Vi cate	4/+01/+60N. WAT		4.85 <u>30</u> 30 50 80
1116 M/2 O1	ANTA	DIVINO TO	- COIL DIST. 3		U. S. GEOLOGICAL SURVEY
ABOVE SPACE DESCRIBE D	"T BOPOSED PROCEAM. If	PE SIQUE CONTRACT	plug hack give data a=		U. S. GEOLOGICAL SURVEY FARMINGTON, N. M. uctive zone and proposed new productive
	ill or deepen directions	ally, give pertinent data	on subsurface locations an	d measured	l and true vertical depths. Give blowout
venter program, if any.	.1				
A) Q	1 6.	• ``	Drilling	Cler	k May 12, 1980
SIGNED .	1. Dus i	TITLE			DATE
(This space for Federa	l or State office use)				
PERMIT NO.	····	**	APPROVAL DATE		BATWED
				1	A DEKLIVE LA

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to depen zone. If proposal is to drill or deepen directionally, give pertinent da preventer program, if any. SIGNED TITLE (This space for Federal or State office use) PERMIT NO. AS AMENDED APPROVED BY TITLE CONDITIONS OF APPROVAL, IF ANY: ah 3ml DISTRICT ENGINEER *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

Departmor EL PASO NATURAL GAS COMPANY SAN JUAN 29-7 UNIT (SF-078503) 111.M	working
Unit Letter C 33 Township C 29N TW Rio Arriba Actual Footoge Location of Well: 790 feet from the North Ine and 1530 Feet from the West Ine Ground Level Elev. 68h1 MESA VERDE - DAKOTA BASIN DAKOTA 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 vinterest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been added by communitization, unitization, force-pooling.etc? Yes No If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitiforced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Communitization. CERTIFICATION NOTE: THIS PRAT IS PETSSIED	working
Actual Footoge Location of Well: 790	working
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790 Seet from the North State State	working
Ground Level Elev. 6841 MESA VERDE - DAKOTA BASIN DAKOTA 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 vinterest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been condition dated by communitization, unitization, force-pooling, etc? Yes No If answer is "yes," type of consolidation Unitization If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitificated-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Communitization. CERTIFICATION	working
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CERTIFICATION NOTE: THIS PLAT IS REISSIED	
NOTE. THIS PLAT IS BEISSIED	
TO SHOW MOVED LOCATION AT REQUEST OF LAND DEPARTMENT. 5-19-80 I hereby certify that the information of the principle of the	te to the
May 30, 1980	
Sec.	
JUL 0 9 1980 #114 CIL CONS EVATION DISSION Is hereby certify that the well on this plat was plotted for notes of actual surveys made to under-my supervision, and that is SANTA FE knowledge and belief.	rom field by me or the same
Date Surveyed May 11, 791 = 0 Registered Projects built Engineer and/or Land Surveyor Pred B. Ker. Jr.	5

790N 1530W

EIPEED COMPANY

P.O. ROSCORIO FARIMITATION, HEST MESS OF CONTRAC-VIRONE, 1975 CONTRAC-

Well Name 5. J. 29-7 Unit# 114M	
Location NW 33 29-7	
Formation $MV-DK$	-
We, the undersigned, have inspected this location	and road
U. S. Forest Service	Date
Archaeologist Toed	5/116/80
, ·	Datd T
Bureau of Indian Affairs Representative	Date
Gobbe Maile	5/4/
Bureau of Land Management Representative	Date
U. S. Geological Survey Representative - AGREES TO THE FOOTAGE LOCATION OF THIS WELL. REASON:	16 May 81 Date 9
Seed Mixture:	
Equipment Color: PGREW	
Road and Row: '(Same) or (Separate)	
Remarks:	



P. O. BOX 289 FARMINGTON, NEW MEXICO 87401 PHONE: 505-325-2841

Multi-Point Surface Use Plan San Juan 29-7 Unit #114M

- 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.
- 5. Location and Type of Water Supply Water for the proposed project will be obtained from Ridge Road Water Well #1.
- 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,

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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 rock and rolling hills with sage, pinon, and juniper growing. Deer and cattle 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.

D. R. Read

Project Drilling Engineer

Operations Plan San Juan 29-7 Unit #114-M

I. <u>Location</u>: 790'N, 1530'W, Sec. 33, T-29-N, R-7-W, Rio Arriba, NM

Field: Blanco Mesa Verde & Basin Dakota Elevation: 6841 GL

II. Geology:

Α.	Formation	Tops:	Surface	San Jose	Menefee	5260 '
			Ojo Alamo	2720 '	Point Lookout	5765 '
			Kirtland	2810'	Gallup	6770'
			Fruitland	3305 '	Greenhorn	7737 '
			Pic.Cliffs	3580'	Graneros	7791'
			Lewis	3790 '	Dakota	7927 '
			Mesa Verde	e 5210'	Total Depth	8086 '

- B. Logging Program: GR-Ind. and GR-Density at 6365' and Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 5200', 5250', 5755', 6365', 6760', 7725', 7780', 7915', 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 3990'. Gas from intermediate casing to Total Depth.

IV. Materials:

Α.	Casing Progr	am: <u>Hole Siz</u>	<u>Depth</u>	Csg.Size	Wt.&Grade
		17 1/2"	200'	13 3/8"	48.0# H-40
		12 1/4"	3990 '	9 5/8"	40.0# N-80
		8 3/4"	3840'-6365	7"	23.0# N-80
		6 1/4"	6215'-8086	4 1/2"	11.6# K-55

- B. Float Equipment: 13 3/8" surface casing quide shoe.
 - 9 5/8" intermediate casing guide shoe and differential automatic fill up float collar. Five stabilizers, one each on every other joint above shoe. Run float collar two joints above shoe.
 - 7" liner 7" liner hanger with neoprene packoff. Geyser shoe and flapper type float collar. Four centralizers, one each on every other joint above shoe.
 - 4 1/2" liner 4 1/2" liner hanger with neoprene packoff. Geyser shoe and flapper type float collar.

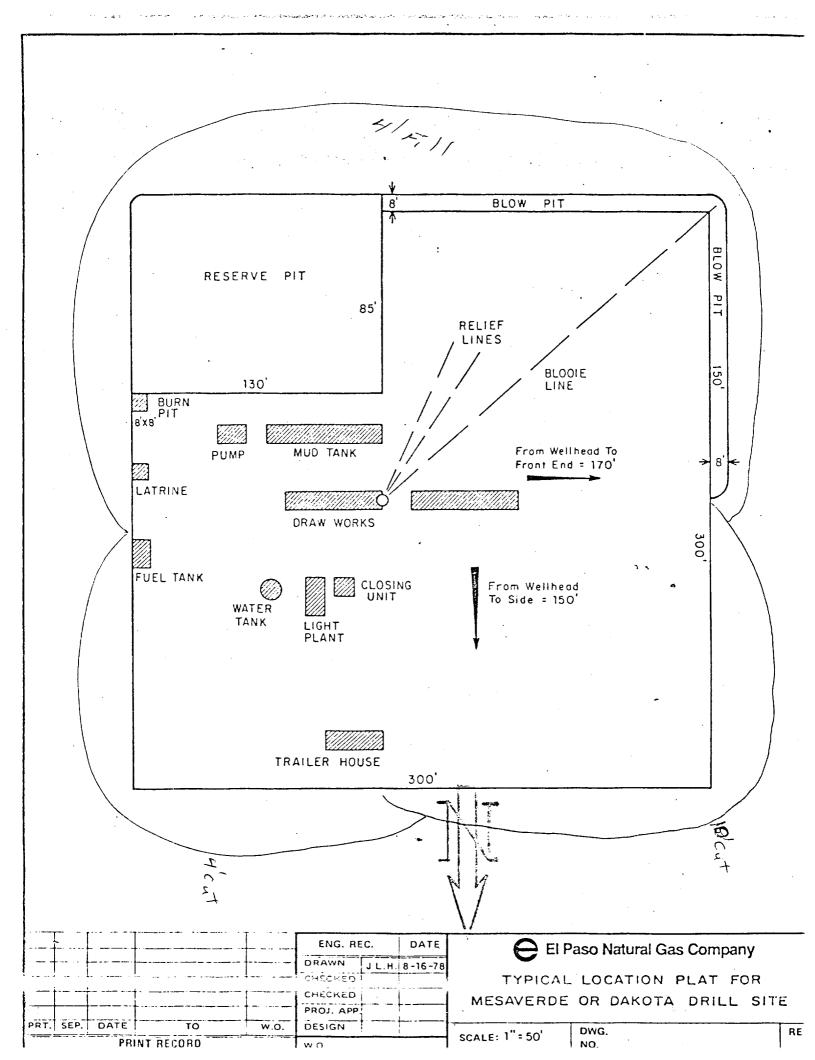
C. Tubing: 8086 of 2 3/8", 4.7#, J-55 EUE 8rd tubing open ended on bottom with common pump seating nipple and pump out plug one joint above bottom.

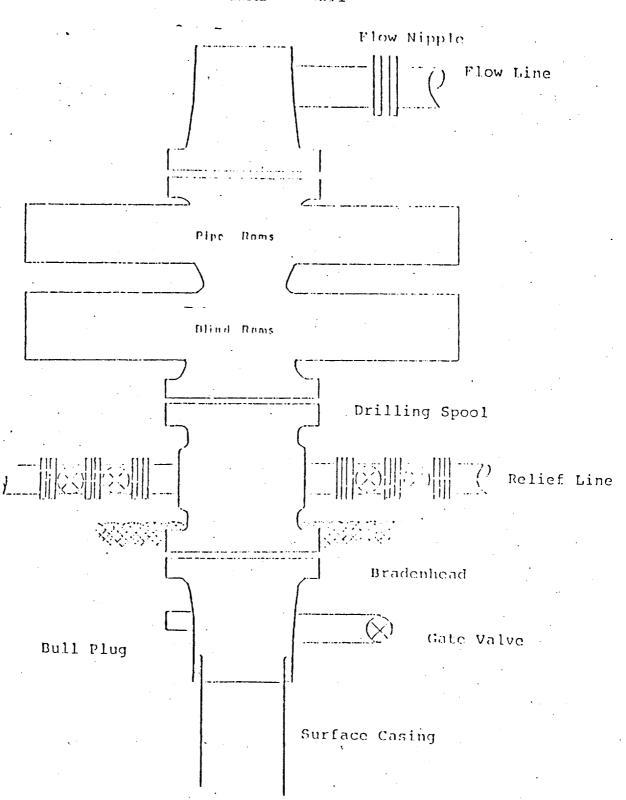
6365 of 1 1/2", 2.9#, J-55 EUE 10rd tubing with a perf sub and common pump seating nipple one joint above bottom. Bottom joint to be bull plugged.

D. Wellhead Equipment: 12" 3000 x 13 3/8" casing head. 12" 3000 x 10" 3000 dual xmas tree.

V. <u>Cementing:</u>

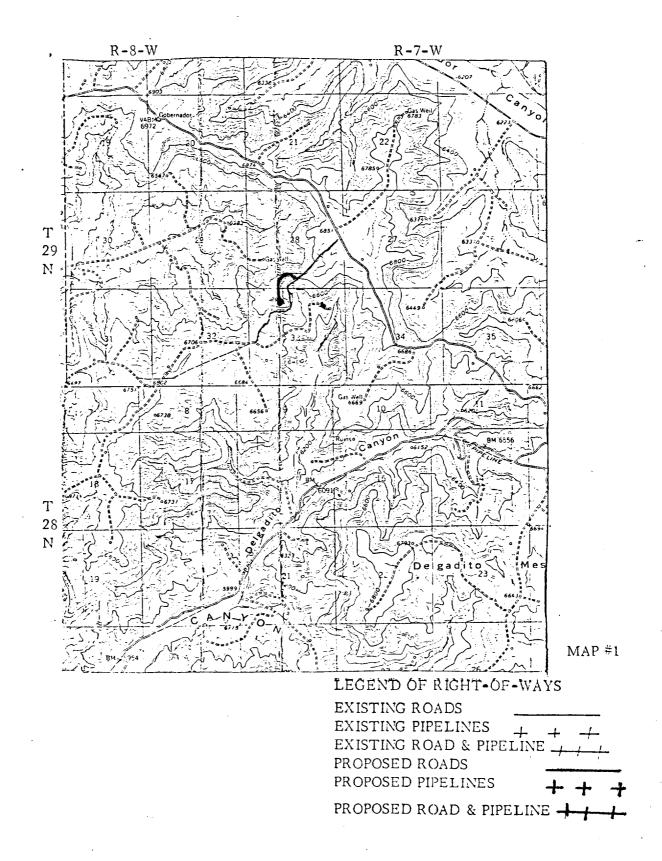
- 13 3/8" surface casing use 236 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (278 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.
- 9 5/8" intermediate casing use 300 sks. 65/35 Class "B" Poz with 6% gel, 2% calcium chloride and 8.3 gallons water per sack followed by 100 sks. Class "B" neat with 2% calcium chloride (604 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.
- 7" liner precede cement with 30 bbls. gel water (3 sks. gel). Cement with 465 sks. 50/50 Class "B" Poz with 2% gel, 6.25# gilsonite, 1/4# flocele and 0.6% Halad-9 (or equivalent fluid loss additive) (646 cu.ft. of slurry, 70% excess to circulate liner). WOC 12 hours. Test casing to 1200#/30 minutes.
- 4 1/2" liner precede cement with 40 bbls. gel water (4 sks. gel). Cement with 100 sks. Class "B" cement with 8% gel, 1/4 cu.ft. fine gilsonite per sack and 0.4% HR-7 followed by 100 sks. Class "B" cement with 1/4# fine tuf-plug per sack and 0.4% HR-7 (336 cu.ft. of slurry, 70% excess to fill to circulate liner). WOC 18 hours.





Scries 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 San Juan 29-7 Unit #114M (MD) NW 33-29-7



EL PASO NATURAL GAS COMPANY San Juan 29-7 Unit #114M (MD) NW 33-29-7

2 47A M EPNG 10 11 48A 12 35A 38A EPNG EPNG 20 E PNG 28 27 Juan 29 7 Uni an 29-7Unit EPNG **EPNG** EPNG 32 33 34 35 36

MAP #2

Proposed Location