#### SUBMIT IN TRIPLICATE\*

Frame approved.

(Other instructions on reverse side) UNITED STATES

20.	035	<u>-</u> 3	<u>a</u>	2	7
<u>,                                    </u>	<u>U</u>				亼

	DEPARTMENT	OF THE II		RIOR	10,6106 01	-0,	5. LEASE DESIGNATION AND SERIAL NO.
	GEOLOG		Jic.Contr.#152 W				
				-NI OD	DL LIC D	A CV	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
APPLICATI	on for permit t	O DRILL, L	)EEPI	EN, OR	PLUG B	ACK	
1a. TYPE OF WORK	DRILL X	DEEPEN [		P	LUG BAC	:к 🗆	7. UNIT AGREEMENT NAME
b. TYPE OF WELL	GAS []		SI	NGLE [	MULTIP	LE 🗀	S. FARM OR LEASE NAME
MELL OIL	WELL X OTHER		Z(	NE L	ZONE	<u> </u>	
2. NAME OF OPERATOR							Jicarilla 152 W
	Exploration Co	mpany			<u> </u>		
3. ADDRESS OF OPERA			_				5A
PO Box	289, Farmington	, NM 87		<del> </del>			So. Blanco Pic. Cliffs
4. LOCATION OF WELL At surface	(Report location clearly and		h any S	state require	ments.*)		Blanco Mesa Verde 11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA
<b>)</b>	790'S, 185	O.F					Sec.7,T-26-N,R-5-W
At proposed prod.							NMPM
14. DISTANCE IN MIL	ES AND DIRECTION FROM NEAR	EST TOWN OR POS	T OFFIC	E*			12. COUNTY OR PARISH 13. STATE
							Rio Arriba NM
22 MILE 15. DISTANCE FROM P	s southeast of	Blanco,	16. No	O. OF ACRES	IN LEASE		F ACRES ASSIGNED
LOCATION TO NEA PROPERTY OR LEA	SE LINE, FT.	7001		2.5	57.76	10/	60 E/320.00 -
(Also to nearest	drig, unit line, if any)	790 <b>'</b>	19 P	Z D ROPOSED DEP1		20. ROTA	RY OR CABLE TOOLS
TO NEAREST WELL OR APPLIED FOR, ON	L, DRILLING, COMPLETED,	25001	10. 1.			Data	
		2500 <b>'</b>	<u> </u>	91	65'	Rota	22, APPROX. DATE WORK WILL START*
	whether DF, RT, GR, etc.)						
6959 <b>'</b> GL							
23.	P	ROPOSED CASI	NG AN	D CEMENTI	NG PROGRA	AM.	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	00T	SETTIN	G DEPTH		QUANTITY OF CEMENT
12 2//!!	9 5/8"	36.0#			00'	224	cu.ft. to circulate
0 2/4	7"	<del>20.0#</del>		1	65.		cu.ft.to cover Ojo Alam
6 1/4" 4 1/2"liner 10.5# 3715-6165' 431 cu.ft.to c							
\(\sigma = 7 \cdot \)	1/			'		•	

Selectively perforate and sandwater fracture the Mesa Verde and Pictured Cliffs formation.

A 3000 psi WP and 6000 psi test double gate preventer equipped with blind and pipe rams will be used for blow out prevention o

This gas is dedicated.

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

The E/2 of Section 7 is dedicated to this well. IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new Muctive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical denths are blowout preventer program, if any. (This space for Federal or State office use)

TITLE .

DEC 1 0 1979

ale 3 mh \*See Instructions On Reverse Side

S. GEOLOGICAL SURVEY MGO, COLO.

### 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

EL PASO EXPLORATION COMPANY	Contains		· · · · · · · · · · · · · · · · · · ·	Lease			Well No.
Note   Section   Township   Pack   Property   Pack   Pac	EL PASO EXPLORATION COMPANY				A 152 W		1
Section at wells   Dot   Item and   1850   Item from the   East   Item	Unit Letter	Section	Township				
Second Level Cere.   South	9	7	26N	5W	Ri	o Arriba	
Peer Color   Productive Promotion PICTURED   Peer SO, BLANCO PICTURED CLIFFS   Dedicates Account   Peer SO, BLANCO PICTURED CLIFFS   150,000 % 220,000 rece	Actual Footage La	ocction of Well:					
Pool SO, BLANCO PICTURED   CLIFFS   Fool SO, BLANCO PICTURED   CLIFFS   LEGA VERDE   160.00 to 230.00.cre			South	1850	foot from the	East	line
1. Outline the acreege 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			- 441	<del></del>	<del></del>		
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		l l				CHITTIO 1	· · · · · · · · · · · · · · · · · · ·
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.  CERTIFICATION  I hereby certify that the information consolidated herein is true and complete to the base of my home-ledge and kelled.  Name  Defiling Clerk Position  E1 Paso Exploration Co. Company December 3, 1979  Date  JICARILLA 152-W  JICARILLA 152-W  Date Surveys made by me of under the same is true and certer to the last of my knowledge and kelled.  Date Surveys made by the commission of the true to the last of my knowledge and kelled.  Date Surveys made by the content is true and certer to the last of my knowledge and kelled.  Date Surveys (1870)  Clob (1870)  Clob (1870)  Clob (1870)  Clob (1870)	<del> </del>		· · · · · · · · · · · · · · · · · · ·				
In 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	1. Outline t	he acreage ded	icated to the aubje	ct well by colored p	encil or hachure	marks on the pla	t below.
Yes   No   If answer is "yes," type of consolidation	interest a	and royalty).					
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, untization, forced-pooling, or otherwise) or until a non-standard unit, climinating 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 homeledge and belief.  Name  December 3, 1979  December 3, 1979  Determined herein is true and complete to the best of my homeledge and belief.  I hereby certify that the well location shown on this plut was plotted from field and the same is true and correct to the best of my knowledge and belief.  Date Surveys:  Application 1850  CERTIFIED 1950  COMMISSIONED 1850  CERTIFIED 1950	deted by	communitization	, unitization, force	-pooling. etc?		nterests of all c	owners been consoli-
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, climinating 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 moveledge and belief.  Name  Drilling Clerk  Position  F1 Paso Exploration Co.  Company  December 3, 1979  Date  I hereby certify that the well lecation shown on this plat was plotted from tield notes of actual surveys made by me or under my supervision, and that the same is a true and contect to the best of my knowledge and belief.  18501  Date Surveys (IRF)  Collab.  Feditares for forestimal Engineering and/or Linds Circular and/or Linds Circle	Yes	No 1:	answer is "yes;"	ype of consolidation			
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 howledge and belief.  Name  Prilling Clerk  Position  El Paso Exploration Co. Company  December 3, 1979  Date  7  JICARILLA 152-W  A like the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and carrect to the best of my knowledge and belief.  18501  Date Surveys  [1870]  Colline Frifeshianal Engineeric and the Lind Converting the contained from the desired from the	this form	if necessary.)_	·			<del></del>	
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I hereby certify that the information contained herein is true and complete to the best of my hnowledge and helief.  Just 1  Name  Drilling Clerk  Position  El Paso Exploration Co. Company December 3, 1979  Date  Jicarilla 152-W  I hereby certify that the well location shown on this play was platted 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 (SIRE)  Condenses of Sirveyed (SIRE)  Registered Professional Engineers and/or Lind Surveyed (SIRE)  Condenses of Sirveyed (SIRE)						650	TIEICATION
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I hereby certify that the well location shown on this plat was platted from tield 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.    1850		1	N	i		ı.	
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Sec.    Decition   Dilling Clerk   Position   El Paso Exploration Co.   Company   December 3, 1979   Date	}	l	И	1	K	toined herein Is	true and complete to the
Name Drilling Clerk Position E1 Paso Exploration Co. Company December 3, 1979 Date  JICARILLA 152-W  I hereby certify that the well location shown on this plat was platted 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 Surveye:  [IRID] Ciab  Registered Prefessional Engineeri and/or Lind Currylor(2)  Trad  Certificate tos. 633 13.		Į	K	i		best of my know	ledge and belief.
Name Drilling Clerk Position E1 Paso Exploration Co. Company December 3, 1979 Date  JICARILLA 152-W  I hereby certify that the well location shown on this plat was platted 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 Surveye:  [IRID] Ciab  Registered Prefessional Engineeri and/or Lind Currylor(2)  Trad  Certificate tos. 633 13.		1	N	i		1 11 11	Richard
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Sec.    Position   El Paso Exploration Co. Company   December 3, 1979     Date   Date		i I	K	l		Name	
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P. O. BOX 289 FARMINGTON, NEW MEXICO 87401 PHONE: 505-325-2841

#### Multi-Point Surface Use Plan Jicarilla 152 W #5A

- 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 Jicarilla Tapacito Water Hole.
- 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 rolling hills with pinon, sage and juniper growing. 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.

L. A. Almes

Project Drilling Engineer

## Operations Plan Jicarilla 152 W #5A

I. Location: 790'S, 1850'E, Section 7, T-26-N, R-5-W, Rio Arriba County, NM

Field: So.Blanco PC & Blanco MV Elevation: 6959'GR

#### II. Geology:

Α.	Formation	Tops:	Surface	San Jose	Lewis	3665 <b>'</b>
		-	Ojo Alamo	2950 <b>'</b>	Mesa Verde	5155 <b>'</b>
			Kirtland	3065 <b>'</b>	Menefee	52 <b>4</b> 5 <b>'</b>
			Fruitland	3180'	Point Lookout	5 <b>715</b> '
			Pic.Cliffs	3475 <b>'</b>	Total Depth	6165'

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 5145', 5235', 5705' 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 3865'. Gas from intermediate casing to Total Depth.

#### IV. Materials:

Α.	Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
	3	13 3/4"	200'	9 5/8"	36.0 # H-40
		8 3/4"	3865 <b>'</b>	7"	20.0# K-55
		6 1/4"	3715-6165'	4 1/2"	10.5# K-55

B. Float Equipment: 9 5/8" surface casing - cement guide shoe.

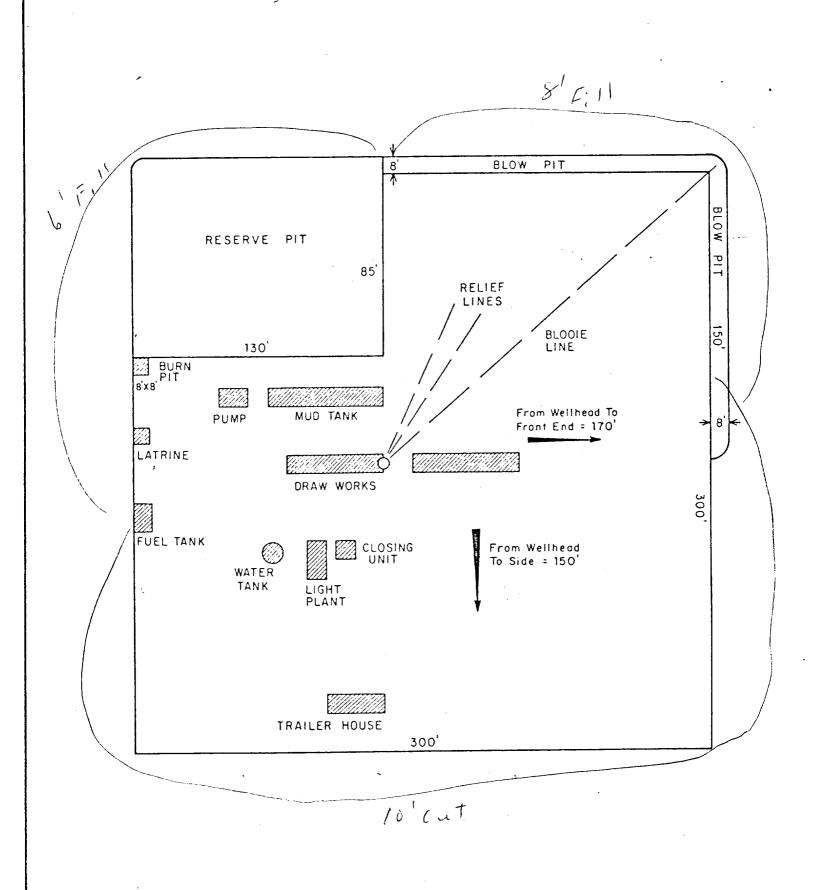
7" intermediate casing - cement guide shoe and self-fill insert float valve, 5 stabilizers every other joint above shoe. Run float two joints above shoe.

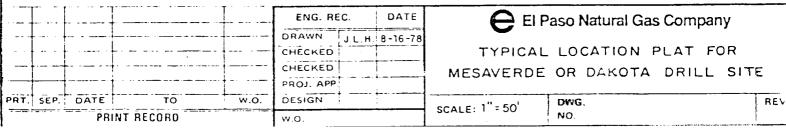
- 4 1/2" liner 4 1/2" liner hanger with neoprene packoff. Geyser shoe and flapper type float collar
- C. Tubing: 6165' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple one joint above bottom. Tubing will be open ended.

  3865' of 1 1/4", 2.3#, J-55, IJ tubing with a common pump seating nipple above a perforated joint plugged on bottom. Isolate producing formations with a packer.
- D. Wellhead Equipment: 10" 900 x 9 5/8" casing head. 10" 900 x 6" 900 dual 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 55 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 (207 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 310 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (431 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

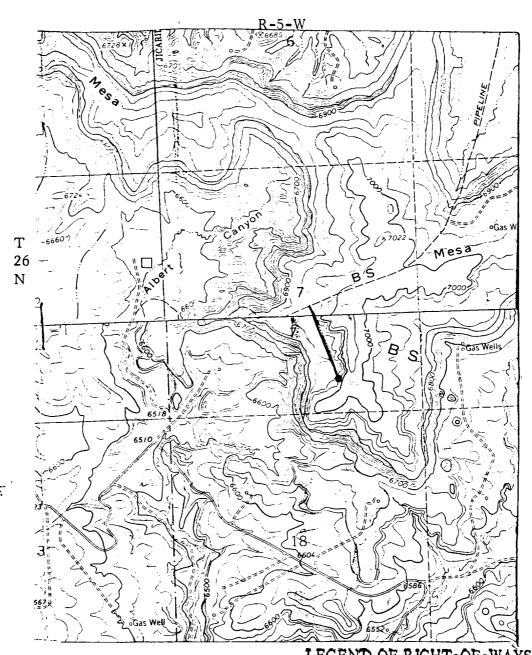




#### Typicar N.O.1 - Indiallation for Nega Verde Well

Flow Hipple
Pipe Rams
Offinel Rens
Tilling Heave
Drilling Spool
Bull Plug Gale Valve
Surface Casing

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



MAP 1

#### LEGEND OF RIGHT-OF-WAYS

EXISTING ROADS EXISTING PIPELINES EXISTING ROAD & PIPELINE PROPOSED ROADS

PROPOSED PIPELINES

PROPOSED ROAD & PIPELINE

### R - 5 - W

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		** "**	5 2 2 3 6 0 3		* 0.30°	***
	30 49	11.H-1129	28 die 251	27	وين اور ده	Supron 25 P
	TOTAL CITIES TO	Jiasrilla 158	Jimprille	Joseph S		O'P Jicarilla y
	di Aroco lo	Amoes (Vm)	Marathon 12	Marathon	12 So Union	So.Union
	3 17 2 Burn	y Jicham's	33 (	34	35	€) 36 <sub>13</sub> ,
	and to the	H-10 Bin A:	(PP)	1400 U D	(2 ) (B)	
	Dicerille 155	Jicariila 133	Vicarille	Milla	Jicarilla	Jicarilla J

MAP 2

Proposed Location