Ia. TIPE OF WORK DRILLX DEEPEN PLUG BACK 7. UNIT AGREEMENT NAME 01. GAS WELL OTHER SINGLE MULTIPLE San Juan 32-9 Unit 2. NAME OF OFERATOR F1 Paso Natural Gas Company San Juan 32-9 Unit 8. FARM OF LEASE NAME 3. ADDRESS OF OFERATOR 9. WELL NO. 82 P. DO NO VERATOR 82 10. FIELD AND FOOL, OR WILLCAT 82 10. FIELD AND POOL, OR WILLCAT 82 10. FIELD AND DIFFERENCE 82 11. SEC., T., R. M., OR FIEL 82 12. COUNTY OF PARISH 13. STATE 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OF POST OFFICE* 12. COUNTY OF PARISH 14. DISTANCE FROM PROFESED 16. NO. OF ACRES IN LEASE 17. NO. OF ACRES ASSIGNED 10. DISTANCE FROM PROFESED OF ACTEC, NM 18. DISTANCE FROM PROFESED LOCATION* 138.62 138.62 19. PROPOSED DEFTH 20. ROTARY OR CABLE TOOLS 138.62 19. PROPOSED DEFTH 20. ROTARY		DEPARTMEN	TED STATES T OF THE INTE DGICAL SURVEY	SUBMIT IN T. (Other instru reverse s	ictions on	Budget Bureau No. 42-R1425, SO - O SO - O S
DRULY DEEPEN PLUG BACK I. Corrections to sum 0. The of the second s	APPLICATIO	N FOR PERMIT	TO DRILL, DEEP	EN, OR PLUG	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
b. Trick or WeL Sam June 32-9 Unit 2. NAME OF OFFENATOR Sam June 32-9 Unit 2. NAME OF OFFENATOR Sam June 32-9 Unit 3. The start of OFFENATOR Sam June 32-9 Unit 3. The start of OFFENATOR Sam June 32-9 Unit 3. The start of OFFENATOR Sam June 32-9 Unit 3. The start of OFFENATOR Sam June 32-9 Unit 3. The start of OFFENATOR Sam June 32-9 Unit 3. The start of OFFENATOR Sam June 32-9 Unit 3. The start of OFFENATOR Sam June 32-9 Unit 3. The start of OFFENATOR Sam June 32-9 Unit 3. The start of OFFENATOR Sam June 32-9 Unit 3. The start of OFFENATOR Sam June 32-9 Unit 3. The start of OFFENATOR Sam June 32-9 Unit 3. The start of OFFENATOR Sam June 32-9 Unit 3. The start of OFFENATOR Sam June 32-9 Unit 3. The start of OFFENATOR Sam June 32-9 Unit 3. The start of OFFENATOR Sam June 32-9 Unit 3. The start of OFFENATOR Sam June 32-9 Unit 3. The start of OFFENATOR Sam June 32-9 Unit 3. The start of OFFENATOR Sam June 32-9 Unit 3. The start of OFFENATOR Sam June 32-9 Unit </td <td></td> <td></td> <td></td> <td>PLUG BA</td> <td>ск 🗆</td> <td>7. UNIT AGREEMENT NAME</td>				PLUG BA	ск 🗆	7. UNIT AGREEMENT NAME
x EL: Pageo Natural Gas Company 82 x E. Pageo Natural Gas Company 80 x E. Pageo Natural Gas Company 80 x E. Pageo Natural Gas Company 10.000 action for	b. TYPE OF WELL OIL WELL			INGLE MULTH		San Juan 32-9 Unit 8. FARM OF LEASE NAME
Image: Second						San Juan 32-9 Unit
It with displayed in the display light in discovance with any State requirements.) Blanco Pictured C1 At write in the state in the st	3. ADDRESS OF OPERATOR	tural Gas Cor	npany			
At proposed prod. 2000 At proposed prod. 20000 At proposed prod. 2000	4. LOCATION OF WELL (1 At surface			State requirements.*)		Blanco Pictured Cl
14. DURAGE IN MILES AND DIRECTION FROM PRAMEMENT FORM OF TORSE OFFICE 12. COUNTY OF FAMILIES 12. COUNTY OF FAMILIES 13. STATE 15. DIRECTOR NO REALEST 10. NO. OF ACMOS 10. NO. OF ACMOS 20. DURAGE 20. DURAGE 138. 62. 16. NO. OF ACMOS 10. NO. OF ACMOS 10. NO. OF ACMOS 10. DURAGE 10. DURAGE 138. 62. 17. DURAGE TO REALEST 20. DURAGE 20. DURAGE TOOLS 20. DURAGE TOOLS 138. 62. 18. DIREATOR FOR OUR DURAGE DURATERS. 32.95' 20. DURAGE TOOLS 20. DURAGE TOOLS 63.65 'GL 21. DURAGE AND CONTENT TO COMPANY 22. AFREST DURAGE DURAGE 22. AFREST DURAGE 121/4" 8.5/8" 24. OF 12.0' 10.6 CL. ft. to CITCULATE 63.65 'GL 22. AFREST DURAGE 24. OF 12.0' 10.6 CL. ft. to CITCULATE 63.74" 2.7/8" 6.4# 32.95' 59.2 CL. ft. to COVER OURSET 7. Second DURAGE DU	At proposed prod. zo:	•	0'W -			Sec.13, T-31-N, R-10
Image: Second of States in the stranger of the state of the stranger of the states in the stranger of the stran				:E *		
PROPOSED CASING AND CEMENTING PROFILE 138.62 18. Boy Extended off, and the magnetic property in the pr	15. DISTANCE FROM PROP	miles NE of	Aztec, NM	0. OF ACRES IN LEASE	17. NO. 0	
18. DETANCE FEM FROM SUBJECTION* TO PRAVE FEM FILM STATUS, CONFLICTION* MAPPED FOR, STATUS, CONFLICTION* MAPPED FOR, STATUS, CONFLICTION* MAPPED FOR, STATUS, CONFLICTION* MAPPED FOR, STATUS, CONFLICTION* G365'GL 10. ROTARY OR CALLE TOOLS ROTARY CONFLICTION* MAPPED FOR FOR THE ROOT SETENCE OF COLOR MAPPED FOR THE WORK WILL STATY G365'GL 21. REAVERAGE (Show whether DF, RT, GR. etc.) G365'GL 22. APPROX. DATE WORK WILL STATY G365'GL 22. APPROX. DATE WORK WILL STATY G365'GL 22. APPROX. DATE WORK WILL STATY G365'GL 23. REAVERAGE (Show whether DF, RT, GR. etc.) G365'GL SETENCE CASING AND CEMENTING PROCEAM 81EE OF TOLE SIEE OF CASING WEART THE FOOT G - 44 3295' 12. 1/4" 6. 5/8" 24. 0# 3295' 592 cu. ft. to cover 0jo J Selectively perforate and sandwater fracture the Pictured Cliffs formati blind and pipe rams will be used for blow cut preventer equipted with blind and pipe rams will be used for blow cut preventer equipted with blind and pipe rams will be used for blow cut prevent an off this well. JAN X OL This gas is dedicated. JAN X OL The SW/4 of Section 13 is dedicated to this well. MAPROVED at a set office Book AN IF proposal is to depen or plug back, give data on substate localions and measured and true vertical depths. Give blowow preventer programe, if any. MARKEN TITLE DATE MARKEN TITLE DATE MARKEN APPROVAD BY CONDITIONS OF APPROVAL PAY: TITLE	LOCATION TO NEARES PROPERTY OR LEASE	T LINE, FT.		Unit		HIS WELL
21. REWARDONS (Show whether DF, ET, GE, etc.) 22. APPROX. DATE WORK WILL START 6365'GL 22. APPROX. DATE WORK WILL START 23. PROPOSED CASING AND CEMENTING PROGRAM 33. SHE OF HOLE 34. SHE OF HOLE 12.1/4" 8.5/8" 24.0# 120' 16.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	TO NEAREST WELL, I	DRILLING, COMPLETED,				
PROPOSED CASING AND CEMENTING PROGRAM SIZE OF HOLZ SIZE OF HOLZ SIZE OF HOLZ SIZE OF HOLZ SIZE OF CASING WEIGHT PER FOOT SETING PROGRAM CONSTITUTO FEMENCE CONSTITUTO FEMENCE SETING PROGRAM CONSTITUTO FEMENCE SETING PROGRAM CONSTITUTO FEMENCE SETING PROGRAM OF HOLZ SETING PROGRAM CONSTITUTO FEMENCE SETING PROGRAM SETING PROGRAM SETING PROGRAM A 3000 psi WP and 6000 psi test double gate preventer equipped with blind and pipe rams will be used for blow cut prevent ion of this well. This gas is dedicated. JANY Y JANY Y OF SECTION 13 is dedicated to this well. IN ADVISE MEMONS FACE DESCHIP PROGRAM : IN PROPORT MICH REPORT DESCHIP PROFERED IN POLY ADVISE JANUACK THIS		appro.	x. 600'	3295'	Rotar	Y 22. APPROX. DATE WORK WILL START*
PROPOSED CASING AND CEMENTING PROCESS SETTOR DELT OF THE OF FOOT SETTING DELT IN COLSPAN 12-1/4" GENERT PER FOOT GENERT PER FOOT GENERT OF CASING AND CEMENTING PROCESS GENERT OF CASING AND CEMENTING PROCESS GENERT OF CASING AND CEMENTING PROCESS GENERT FOR CASING AND CEMENTING PROCESS GENERT OF CASING AND CEMENTING PROCESS GENERT FOR CASING AND CEMENTING PROCESS GENERT FOR CASING AND CEMENTING PROCESS GENERT FOR CASING AND CEMENTING PROCESS GENERT PROCESS GENERT PROCESS A 3000 psi WP and 6000 psi test double gate preventer equipped with blind and pipe rams will be used for blow cut prevention of this well. This gas is dedicated. JANUACE JANUACE PROCESS The SW/4 of Section 13 is dedicated to this Well. INTE						
12 1/4" 8 5/8" 24.0# 120! 106 cu.ft. to circulate 6 3/4" 2 7/8" 6.4# 3295' 592 cu.ft.to cover Ojo / Selectively perforate and sandwater fracture the Pictured Cliffs formation 592 cu.ft.to cover Ojo / 592 cu.ft.to cover Ojo / A 3000 psi WP and 6000 psi test double gate preventer equipped with blind and pipe rams will be used for blow cut prevent on one of this well. 104 This gas is dedicated. JAN & Old JAN & Old The SW/4 of Section 13 is dedicated to this well. JAN & Old IN ABOYS BYCE DESCHER PROPORD PROBAM : If proposal is to deepen or plug back, size data on present productive zone and proposed new productive preventer program. If any. 24. M. Multi or deepen directionally, give perilection data on subsurface locations and measured and true vertical depths. Give blow or preventer program. If any. 24. M. Multi or deepen directionally, give perilection data on subsurface locations and measured and true vertical depths. Give blow or preventer program. If any. 24. M. Multi or deepen directionally, give perilection data on subsurface locations and measured and true vertical depths. Give blow or preventer program. If any. 24. M. Multi or deepen directionally, give perilection data on subsurface locations and measured and true vertical depths. Give blow or preventer program. If any. 24.	23.	I	PROPOSED CASING AND	D CEMENTING ?ROGR.	АМ	· · · · · · · · · · · · · · · · · · ·
12 1/4 0 7/0 0.4 3295' 592 cu.ft.to cover Ojo F Selectively perforate and sandwater fracture the Pictured Cliffs formati A 3000 psi WP and 6000 psi test double gate preventer equipped with blind and pipe rams will be used for blow cut prevent ion on this well. The SW/4 of Section 13 is dedicated to this well. If any state provement productive blow and proposed use productive blow and measured and true vertical deptis. Give blow on prevent program. If any. 24 Store D Mathematication of the section	SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEI TH	_	QUANTITY OF CEMENT
Selectively perforate and sandwater fracture the Pictured Cliffs formation of the providence of the pr	<u> 12 1/4 </u>	8-5/8"	24.0#		1	
A 3000 psi WP and 6000 psi test double gate preventer equipped with blind and pipe rams will be used for blow cut prevention on this well. This gas is dedicated. The SW/4 of Section 13 is dedicated to this well. IN ABOVE PROPERTIE PROPOSED PROCESSE PROCESSE PROCESSE: If proposal is to deepen or plug back, give data on present productive sone and proposed new productive sone. If proposal is to drill or deepen directionally, give perlinent data on subsurface locations and measured and true vertical depths. Give blowou preventer program, if any. 24. SIGNED	6-3/4"	2-7/8"	6.4#	3295	1592 c	$\gamma \gamma f + + \alpha \alpha \alpha \gamma \alpha \gamma \beta \beta A$
The SW/4 of Section 13 is dedicated to this well. IN ABOVE SPACE DESCRIBE PROFOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive preventer program, if any. 24. SIGNED						
IN ABOVE SPACE DESCRIBE PROFOSED 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 blowou preventer program, if any. 24. SIGNED	A 3000 psi blind and	i WP and 6000 pipe rams wi	and sandwater	r fracture th uble gate pre	 ne Pict	tured Cliffs formati r equipped with
SIGNED Juices TITLE Drilling Clerk DATE (This space for Federal or State office use) PERMIT NO. APPROVED BY CONDITIONS OF APPROVAL, F ANY :	A 3000 psi blind and	i WP and 6000 pipe rams wi	and sandwater	r fracture th uble gate pre	 ne Pict	tured Cliffs formati r equipped with
APPROVAL DATE	A 3000 psi blind and This gas i The SW/4 o IN ABOVE SPACE DESCRIBI ZONE. If proposal is to	i WP and 6000 pipe rams wi is dedicated. of Section 13 FROPOSED PROGRAM: If J drill or deepen directiona	and sandwater psi test dou 11 be used fo is dedicated proposal is to deepen or p	d to this we	ne Pict	tured Cliffs formati r equipped with tion on this well.
APPROVED BY TITLE DATE	A 3000 psi blind and This gas i The SW/4 of IN ABOVE SPACE DESCRIBI ZONE. If proposal is to preventer program, if an 24.	WP and 6000 pipe rams wi is dedicated. of Section 13 e PROFOSED PROGRAM: If J drill or deepen directiona y.	and sandwater psi test dou 11 be used fo is dedicated proposal is to deepen or g Ily, give pertinent data o	d to this we	ne Pict	tured Cliffs formati r equipped with tion on this well. JAT OI
CONDITIONS OF APPROVAL, IF ANY:	A 3000 psi blind and This gas i The SW/4 o IN ABOVE SPACE DESCRIBI ZONE. If proposal is to preventer program, if an 24.	i WP and 6000 pipe rams wi is dedicated. of Section 13 e PROFOSED PROGRAM: If 1 drill or deepen directiona y. W. Bucco	and sandwater psi test dou 11 be used fo is dedicated proposal is to deepen or g Ily, give pertinent data o	d to this we	ne Pict	tured Cliffs formati r equipped with tion on this well. JAT OI
*See Instructions On Reverse Side	A 3000 psi blind and This gas i The SW/4 (IN ABOVE SPACE DESCRIBI zone. If proposal is to preventer program, if an 24. SIGNED (This space for Feder	i WP and 6000 pipe rams wi is dedicated. of Section 13 e PROFOSED PROGRAM: If 1 drill or deepen directiona y. W. Bucco	and sandwater psi test dou 11 be used fo is dedicated proposal is to deepen or p lly, give pertinent data o	d to this we Diug back, give data on p Diug back, give data on p Diug back, give data on p Diug back, give data on p	ne Pict	tured Cliffs formati r equipped with tion on this well. JAT OI
ALE HISHALIDHS LAN APPEND AND	A 3000 psi blind and This gas i The SW/4 (IN ABOVE SPACE DESCRIBI zone. If proposal is to preventer program, if an 24. SIGNED	i WP and 6000 pipe rams wi is dedicated. of Section 13 e PROFOSED PROGRAM: If y drill or deepen directiona y. <u>M. Lucco</u> tral or State office use)	and sandwater psi test dou ll be used fo is dedicated proposal is to deepen or p lly, give periment data o	d to this we Diug back, give data on p Diug back, give data on p Diug back, give data on p Diug back, give data on p	ne Pict	tured Cliffs formati r equipped with tion on this well. JA Cl utive zone and proposed new productive and true vertical depths. Give blowout

*

NEW MEXICO OIL, CONSERVATION COMMISSION

All distances must be from the outer boundaries of the Section. Well No. Operator Lease San Juan 32-9 Unit (NM-0608) El Paso Natural Gas Company 82 Section County Unit Letter Township Range 31N М 13 100 San Juan Actual Footage Location of Well: South line and 800 1070 West feet from the feet from the Producing Formation Ground Level Elev: Pool Dedicated Acreage: 6365 Pictured Cliffs Blanco Pictured Cliffs 138.62 Acres 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 consolixdated by communitization, unitization, force-pooling. etc? Unitization If answer is "yes," type of consolidation _____ Yes No 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. Ducid Drilling Clerk El Paso Natural Gas Co. Jánuary 16, 1978 Date I hereby certify that the well location 13 shown on this plot 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. NM-01594 Date Surveyed 6004 October ?, 1977 **Registered Professional Engineer** NM0608 and Land Surveyor such Aur? Fred B. Kerr Jr.

Scale:

1,000

Certificate No. 3950

Form C -102 Supersedes C-128 Effective 1-1-65

WELL LOCATION AND ACREAGE DEDICATION PLAT

EPaso NATURAL GAS

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

Multi-Point Surface Use Flan San Juan 32-9 Unit #82

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 a water hole located at Hart Canyon Water Well.
- 6. Source of Construction Materials No additional materials will be required to build either the access road or the proposed location.

Multi-Point Surface Use Plan

Page Two

- 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 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 #2 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 green (Federal Standard #595-34127)
- 11. Other Information The terrain is rolling hills and sagebrush flats covered with sagebrush, pinon and cedar. Cattle graze the proposed project site.

Multi-Point Surface Use Plan

Page Three

12. Operator's Representative -

W. D. Dawson, Post Office Box 990, Farmington, New Mexico 87401

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.

January 13, 1978

D. R. Read

Division Drilling Engineer

DRR:pb

4

Operations Plan - San Juan 32-9 Unit #82

- I. Location: 1070'S, 800'W, Section 13, T-31-N, R-10-W, San Juan County, NM Field: Blanco Pictured Cliffs <u>Elevation:</u> 6365'GL
- II. Geology:

A. Surface Formation: San Jose

Sub-surface	Formation Tops:		
Ojo Alamo	1355'	Pictured Cliffs	3155'
Kirtland	1445'	Lewis	3255 '
Fruitland	2765'	Total Depth	3295'

- B. Logging Program: Induction Electric and Gamma Ray Density at TD.
- C. Coring: none
- D. Testing: none

III. Drilling:

A. Anticipated Starting Date and Duration of the Project:

1978 Drilling Program - approximately 4 days to complete.

B. Circulating Medium: Treated water and a low solids gel base mud will` be used from surface to TD.

IV. Materials:

A. Casing Pro	gram: <u>Hole Size</u>	Depth	<u>Csg.Size</u>	Wt.&Grade
	12 1/4"	120'	8 5/8"	24.0# J-55
	6 3/4"	3295'	2 7/8"	6.4# J-55

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

2 7/8" production casing - 10' shoe joint with notched collar for guide shoe and 2 7/8" latch down baffle on top. Two 3 1/16" balls and one 2 7/8" latch down plug.

- C. Tubing: none
- D. Wellhead Equipment: Larkin wellhead (fig. 75)
- V. Cementing:

8 5/8" surface casing - 90 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (106 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hrs. Test casing wellhead and BOP to 600#/ 30 minutes.

2 7/8" production - 329 sks. 65/35 Class "B" Poz with 12% gel and 15.52 gallons water per sack followed by 50 sks.Class "B" neat cement (592cu.ft. slurry, 50% excess to cover Ojo Alamo). Run temperature survey after 12 hr



Seule : 4

1. 1.





ŧ I

- ED PASO EA FUR AL GAS COLIPALA San Juan 32-9 Unit "80" SW 7. -31-10



MAP #1

gabarga (j. 1997) - Alitza



MAP #2

Proposed Location