

4	de	NMOC				
NOTE:	THIS FORMAT IS ISSUED	IN LIEU OF US	BLM :	FORM 3160	-3. O ARE	A MANAGE
APPRO	VED BYTI	TLE		DATE _		10V 16/1990
PERMI	T NO	_ APPROVAL	DATE		A.S	AWENCE
24.	AUTHORIZED BY: REG. DR	Challer ENGR.				PPROVED
	*SEE	OPERATIONS PI	 LAN			
23.	PROPOSEI	CASING AND	CEMENT	ING PROGE	MAS	
_	ELEVATIONS (DF, FT, GR, 6109'GL	ETC.)	22.			WILL START
	COMPL., OR APPLIED FOR ON THIS LEASE.			·	HMG GETER GOG G. I TO COMOLIA V.BGL PLOUGEM	S 70/00000ZED ARE NUE WHIL AITACHED
18.	DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. 300		OSED 1 2066'	DEPTH 20.	ROTARY OF	R CABLE TOOLS
10	PROPOSED LOCATION 80 TO NEAREST PROPERTY OR LEASE LINE.	<b>0</b> /	1440	NUS oc trocedi ecc sp	E/320.1 Clar in subject to the control of the contr	o sectionical and upot to 43 OPA <b>8185.3</b> - XX COTO press a
14.	DISTANCE IN MILES FROM 13 MILES SOUTH OF BLANC DISTANCE FROM	0		SAN JUAN	N	M
4.	LOCATION OF WELL 800'FNL 1490'FEL		11.	BASIN FRU SEC. T. R SEC. 2	L,OR WILD ITLAND CO . M OR BL 3 T27N RO	AL K.
3.	ADDRESS & PHONE NO. OF P O BOX 4289 FARMINGTON, NM 8749	OPERATOR		FARM OR L HUERFA WELL NO. 172	EASE NAME	
2.	EL PASO NATURAL CAS	71.1	7.		EMENT NAM	
	TYPE OF WELL GAS		6.	SF-078 IF INDIAN		TRIBE NAME
la.	TYPE OF WORK DRILL		5.		ABER	• <del>-</del> • • • • • •

CONSERVE HIS CONTRACTOR

Same of the second . हे - व अभिनेत्रिक केंद्रिक विकास का लिए सम्बंध प्राप्त के प्राप्त करते. Submit to Asymptome District Office State Lease - 4 copies Fee Lease - 3 copies

## State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

## OIL CONSERVATION DIVISION P.O. Box 2088

DISTRICT II
P.O. Drawer OD, Artesia, NM 88210

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT III 1000 Rio Brans Rd., Azzec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

Hearing Learning of Well:    Same	El Pa	Se Naid Se	- di	Luc.		(SE-073	356)		Well No.	
Prompt Learning of Walt   North   Has and   1490   feet from the East   Has and   1490   feet from the East   Has and   1490   feet from the East   Has and   109   Fruit Land Coal   Four Land	t Letter		- Gas			anito (	Jnit		172	
a forces the force the North Has and 1490 feet from the East Has are the force the for	В		27 No	rth		st			_	
tion from the North Tenness and the control of the second control	ROOM LOCAL		·				NMPM	San	Juan	
1. Outlies the acrosspe destinated to the majoral word by colored period or leadings match on the past below.  2. If more than one lease of defining committing and destinated to the well, calling each and identify the committee flavored (both as to working manes and royalty).  3. If more than one lease of defining committee and identify the committee flavored (both as to working manes and royalty).  3. If more than one lease of defining committee and identify the committee flavored (both as to working manes and royalty).  3. If more than one lease of defining committee and identify the committee flavored by committee flavored by the c							fest from the	East	انت	
1. Cutilins the acrosspe desirated to the subject well by outcome panel or incliners marks as the plat below.  2. If more than one issue is desirated to the well, cutiline each and identify the communicy theoret (both as to welling statement and royalty).  3. If more than one issue of difference community is desirated to the well, have the interest of all comment issue consolidated by communitation. Succeeding the community of the communitation of the community	109'	-		Po					Dedicated Acres	<del>-</del>
2. If more then one tens is designed to the well, cuttine each and identify the coverable three one tens of different coverables in deficient to the well, have the inserest of all coverable three cases of different coverables as a large of the well for all a coverables as a large of the coverable to the well between a constitution.  If marrow or 'no' list the coverable and interest the well as a constitution in the coverable three accussions which have accussive the tensor coverable to the well as a large coverity than the second coverable with the constitution will be constituted by a constitution, the tensor coverable to the well as a coverable to the well as a large coverity than the second coverable to the well as a coverable to the same of a coverable to the coverable to the same of a coverable to the coverable to the same of a coverable to the coverable t	l. Outine s								320	Αæ
The second is the content and	2. If more of	họn can lenes to dedic	cated to the well, o	ustine each and idea	kily the ownership	p thereof (both s	is to working is	ternet and ro	yaky).	
this form if secondary.  No allowable will be sampled to be well said all secondaries dry content secondaries. (Use several said of secondaries and secondaries dry content secondaries and secondaries dry content secondaries and secondarie	$\mathbf{x}$	Yes	No if			unitian	tion	d by comm	entiration,	
OPERATOR CERTIFICATI  I horsely cavity that the in the state of photostering and complete house of photostering and halid.  Peggy Bradfield  Printed Name Regulatory Affair  Position El Paso Natural G.  Company O-9-9.  Date  SURVEYOR CERTIFICATI  I hereby cavity that the well lecation on this plan was platted from field contain survey make by me or an approxime, and that the name is a convent to the best of my hundred halid. 8-16-90  Date Suppyrie  6857  Considered to the best of my hundred halid. 8-16-90  Neale Suppyrie  Neale Converged to the state of my hundred halid. Neale Converged to the best of my hundred halid. Neale Converged to the best of my hundred halid. Neale Converged to the best of my hundred halid. Neale Converged to the best of my hundred halid. Neale Converged to the best of my hundred halid. Neale Converged to the best of my hundred halid. Neale Converged to the state of my hundred halid. Neale Converged to the st			and tract descripts	ons which have acts	nily been consolid	med. (Use seve	res ada of		<del></del>	
OPERATOR CERTIFICATI I hereby certify that the implementation of the state of properties of the state	No allowabi or testil a so	e will be assigned to e-excelered walk, elimi			conclidated (by co d by the Division	)	unstration, for	ced-pooting,	OF Otherwise)	
A baruby certify that the ing control of the ing co		<del></del>	52	55.58				DER ATT	7.000	_
SURVEYOR CERTIFICATI  I hereby certify that the well location on this plan was platted from field actival surveys made by me or an apparatus and that the same is a correct to the best of my branded belief. 8-16-90  Deta Surpryed  Signature Survey MERITY Professional Survey Merity Profession		بر ا		1						
SURVEYOR CERTIFICATI  I hereby certify that the well location on this plan was platted from field actival surveys made by me or an apparatus and that the same is a correct to the best of my branded belief. 8-16-90  Deta Surpryed  Signature Survey MERITY Professional Survey Merity Profession			n		8 !		CONTRA	ANTEN	in 1744 and com	
SURVEYOR CERTIFICATI  I hereby certify that the well location on this plan was platted from field actival surveys made by me or an apparatus and that the same is a correct to the best of my branded belief. 8-16-90  Deta Surpryed  Signature Survey MERITY Professional Survey Merity Profession		W W			9 !		1 1	My Incodes	~ /V ~ ~ .	-
SURVEYOR CERTIFICATI  I hereby certify that the well location on this plan was platted from field actival surveys made by me or an apparatus and that the same is a correct to the best of my branded belief. 8-16-90  Deta Surpryed  Signature Survey MERITY Professional Survey Merity Profession	R					1490'	500		JARRAL	_
SURVEYOR CERTIFICATI  I hereby certify that the well location on this plan was platted from field actival surveys made by me or an apparatus and that the same is a correct to the best of my branded belief. 8-16-90  Deta Surpryed  Signature Survey MERITY Professional Survey Merity Profession	. Œ (	in the same	. 👞 🛚						adfield	
SURVEYOR CERTIFICATI  I hereby certify that the well location on this plan was platted from field actival surveys made by me or an apparatus and that the same is a correct to the best of my branded belief. 8-16-90  Deta Surpryed  Signature Survey MERITY Professional Survey Merity Profession		b 3 1930	F. Elic		i i					
SURVEYOR CERTIFICATI  I hereby certify that the well location on this plan was platted from field actival surveys made by me or an apparatus and that the same is a correct to the best of my branded belief. 8-16-90  Deta Surpryed  Signature Survey MERITY Professional Survey Merity Profession	-4/4/	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Ar. ———						ry Affai	rs
SURVEYOR CERTIFICATI  I hereby certify that the well location on this plan was platted from field actival surveys made by me or an apparatus and that the same is a correct to the best of my branded belief. 8-16-90  Deta Surpryed  Signature Survey MERITY Professional Survey Merity Profession	Link	W. Ou.	3.		!		1	_		_
SURVEYOR CERTIFICATI  I hereby certify that the well location on this plan was platted from field actival surveys made by me or an apparatus and that the same is a correct to the best of my branded belief. 8-16-90  Deta Surpryed  Signature Survey MERITY Professional Survey Merity Profession		all Daist.	· • ·		ļ		El	Paso	Natural	Gā
SURVEYOR CERTIFICATI  I hereby certify that the well location on this plan was platted from field actival surveys made by me or an apparatus and that the same is a correct to the best of my branded belief. 8-16-90  Deta Surpryed  Signature Survey MERITY Professional Survey Merity Profession	;	3. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			ļ		Comp	•		_
SURVEYOR CERTIFICATI  I hereby certify that the well location on this plan was platted from field actival surveys made by me or an apparatus and that the same is a correct to the best of my branded belief. 8-16-90  Deta Surpryed  Signature Survey MERITY Professional Survey Merity Profession		i	li		i i			10-	9-90	
SF-078356  SF-078356  I hereby certify that the well location on this plat was platted from field actual survey made by me or to supervise, and that the same is to correct to the best of my branda belief.  8-16-90  Date Surveyord  Signature  Reference  6857  Cartificant  Neale  Cartificant  Carti		i	·		!		Date			
SF-078356  SF-078356  I hereby certify that the well location on this plat was platted from field actual survey made by me or to supervise, and that the same is to correct to the best of my branda belief.  8-16-90  Date Surveyord  Signature  Reference  6857  Cartificant  Neale  Cartificant  Carti		i		_	1		0			_
SF-078356  SF-078356  I hereby certify that the well location on this plat was platted from field actual survey made by me or to supervise, and that the same is to correct to the best of my branda belief.  8-16-90  Date Surveyord  Signature  Reference  6857  Cartificant  Neale  Cartificant  Carti		i	/4	7			<b>10</b> S1	JRVEYO	R CERTIFICA	TIC
SF-078356  SF-078366		i					10			
SF-078356  SF-078366		i			1		M / here	by certify th	at the well loca	tion
SF-070356  SEPTIMENT OF THE PROPERTY OF THE PR		i	1		ļ		actual	SENERAL DE	platies from fiel and by me or	4 A
Dela Survey (6857)  6857  Canadam Maria  Ne al a consumer de la co		j	l.	SF-078356	5 }		Superv	son, and L	hat the same is	107
6857  S252 941  Neal Clause Supercing Line Supercin		i	1		ļ.		11 1	to the bo	us of my brow	iod
6857 6857 Neal Cland Survey of Ward		i	#		!		belief.	8-16	5-90	
6857 6857 Neal Cland Survey of Ward			il il		!		Date S	STRYING	6	
6857 6857 Neal Cland Survey of Ward		- <del></del>			<u>+</u>			LB.	C ESCE	/
6857 6857 Neal Cland Survey of Ward			I		ļ		Signer		HEN TO	\
5252 94. Neal Neal Neal		i	1		ļ.		'''	12/8		
5252 94. Neal Neal Neal		i			ļ				ا روحی	-
5252.94		1	H		ļ			[t] {	382 ()	
5252.94		Į į			ļ			18l \	COE 7 / 8	ř
S252 94		ļ	1		ļ		Carrie			
		<del></del>		3.04				1481	STAM SAY	
0 660 990 1320 1680 1980 2310 2660 2000 1600 1000 con	30 660 220		1	2.44	l t			ieale~	adwar	d٤

DATE: OCT 8,1990

Well Name: 172 HUERFANITO UNIT

172 HUERFANITO UNIT 800'FNL 1490'FEL Sec. 23 T27N R09W SAN JUAN NEW MEY

Sec. 23 T27N R09W SAN JUAN NEW MEXICO

BASIN FRUITLAND COAL Elevation 6109'GL

Formation tops: Surface- NACIMIENTO

Ojo Alamo- 1197

Kirtland- 1318 Fruitland- 1905

Fruitiand 1905

Fruitland Coal Top- 1972

Fruitland Coal Base- 2046 Total Depth- 2066

Pictured Cliffs- 2073

Logging Program: Mud logs from 1905 to total depth.

Mud Program: Interval Type Weight Visc. Fl. Loss
0 - 200 Spud 8.4 - 8.9 40-50 no control
200 - 2066 Non-dispersed 8.4 - 9.5 30-60 no control

Casing Program: Hole Size Depth Interval Csq. Size Weight Grade 12 1/4" 0 - 200 8 5/8" 24.0# K-40 7 7/8" 0 - 2066 5 1/2" 15.5# K-55 Tubing Program: 2 3/8" 0 - 2066 4.7# J-55

Float Equipment: 8.5/8" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

5 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1318' . Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 8 5/8" x 5 1/2" x 2 3/8" x 11" 3000 psi xmas tree assembl

## Cementing:

8 5/8" surface casing - cement with 211 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (248 cu ft. of slurry, 200% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi for 30 minutes.

5 1/2" production casing - lead with 313 sacks of 65/35 class "B" poz with 6% gel, 2% calcium chloride and 1/2 cu.ft. Perlite/sack (10.3 gallons of water/sack) tail with 100 sacks of class "B" with 2% calcium chloride. 722 cu ft. of slurry, 100% excess to circulate to surface. If hole conditions permit, a 600 ft spacer will be run ahead of the cement slurry to avoid mud contamination of the cement. WOC 12 hours. If cement does not circulate to surface, a temperature log will be run after 8 hours to determine TOC.