## EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE - Oct. 16, 1979

Operator El Pas	o Natura	l Gas Company	Mudge #14A (	PM)
NW 21-	31-11		County San Juan	State New Mexico
Formation Pict	ured Cli	ff	Aztec Ext.	
Casing: Diameter	4.500	Set At: Foot 5230	Tubing: Diameter 1 1/4	Set At: Feet 2608
Pay Zone: From	2514	7° 2634	Total Depth: 5230 :	Shut In 9 - 27 - 79
Stimulation Method			Flow Through Casing	Flow Through Tubing
	Sand Wa	ter Frac	<b>∯</b>	

Choke Size, Inches		Choke Constant:	С			
.750			12.365			
Shut-In Pressure, Casing,	PSIG	+ 12 = PSIA	Days Shut-In	Shut-in Pressure, Tubing	PSIG	+ 12 = P5IA
753		765	19	67.	7	689
Flowing Pressure: P	PSIG	+ 12 = PSIA		Working Pressure: Pw	PSIG	+ 12 = PSIA
24		36		338	3	350
Temperature:		n =		Fpv (From Tables)		Gravity
T= 52 •F Ft=	1.008	.85		1.004		.670Fg=.9463

CHOKE VOLUME = Q = C x P, x F, x Fg x Fpv

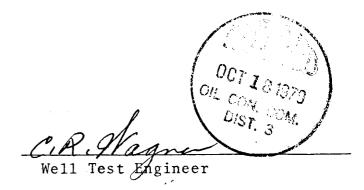
$$Q = (12.365)(36)(1.008)(9463)(1.004) = 426$$
 MCF/D

$$\label{eq:open_flow} \text{OPEN FLOW} = \text{Aof} = \text{Q} \quad \left( \begin{array}{c} & \\ & \frac{2}{P_c} \\ & P_c & P_w \end{array} \right)^{\!\!\!\!n}$$

Aof = 
$$Q\left(\begin{array}{c} 585225 \\ 462725 \end{array}\right)$$
 =

Aof = 
$$\frac{520}{MCF/D}$$

NOTE: Well Surging and Unloading Water Throughout Test, Well Vented 46 MCF/D to The Atmosphere.





NEW MEXICO OIL CONSERVATION COMMISSION PACKER SETTING REPORT

F-21-31-11

I,, being of lawful age and having full
Name of party making report
knowledge of the facts hereinbelow set out do state:
That I am employed by El Paso Natural Gas Company in the capacity of
Petroleum Engineer , that on September 27, , 19
I personally supervised the setting of a Baker Locator Seal Assembly in PBR
Make & type of packer in EPNG Mudge
Well no. 14A (PM) located in the Aztec PC Ext. & Blanco MV field,
San Juan county, state of New Mexico , at a subsurface depth of
feet, said depth measurement having been furnished me by
Pipe Record
That the purpose of setting this packer was to effect a seal in the annular space between two strings of pipe where the packer was set so as to prevent the commingling, in the bore of this well, of fluids produced from a stratum below the packer with fluids produced from a stratum above the backer; that this packer was properly set and that it did, when set, effectively and absolutely seal off the annular space between the two strings of pipe where it was set in such manner as that it prevented any movement of fluids across the packer.
Petroleum Engineer  22 Oct 79  (Date)



# EL PASO NATURAL GAS CO.

DEVIATION REPORT

ĺ									•			
Name of	of Compa	iny						Addre	cc			
 		E1	Paso	Natural				Р.		289, Farmington,	New Mexico	87401
Lease						Well No.	TUni	t	Sec	Township		
	Mudge					Well No. 14A(PM)	F	ने । व	21	31-7	Range 11-W	
Poo1								Coun	tv	L	<del></del>	
	<u>Aztec</u>	PC.	Ext.	€ Blanco	Mesa	Verde		l	San	Juan		

DEPTH	DEVIATION
225'	00
730'	1/2°
1300'	1/2°
1829'	1/2 <sup>0</sup>
2045'	3/4°
2550'	1°
2880'	3/4 <sup>0</sup>
3385'	3/4°
3890'	3/4°
4050'	3/4°
4561'	3/4 <sup>0</sup>
4808'	1°
5230'	3/4 <sup>0</sup>



I, the undersigned, certify that I, acting in my capacity as Petroleum Engineer of El Paso Natural Gas Company, am authorized by said Company to make this report; and that this report was prepared by me or under my supervision and directions and that the facts stated therein are true to the best of my knowledge and belief.

Subscribed and sworm to before me this 18th day of October , 19 79.

Notary Public in and for San Juan County, New Mexico

My Commission expires, October 5, 1980

Form 9-330 (Rev. 5-63)

# UNITED STATES

Form approved. Budget Bureau No. 42-R355.5.

SUBMIT IN DUPLICATE\* DEPARTMENT OF THE INTERIOR 5. LEASE DESIGNATION AND SERIAL NO. reverse side) GEOLOGICAL SURVEY SF078096 6. IF INDIAN, ALLOTTEE OR TRIBE NAME WELL COMPLETION OR RECOMPLETION REPORT AND LOG\* 1a. TYPE OF WELL: 7. UNIT AGREEMENT NAME Other b. TYPE OF COMPLETION: DEEP-EN NEW X WORK PLUG BACK DIFF. RESVR. S. FARM OR LEASE NAME Other Mudge 2. NAME OF OPERATOR El Paso Natural Gas Company 9. WELL NO. 14A (PM) 3. ADDRESS OF OPERATOR 10. FIELD AND POOL, OR WILDCAT Box 289, Farmington, New Mexico 87401 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\* Aztec PC Ext. Blanco MV 1560'N, 1685'W 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA At top pred. interval reported below Sec. 21, T-31-N, R-11-W N.M.P.M. At total depth 12. COUNTY OR PARISH 13. STATE 14. PERMIT NO. DATE ISSUED San Juan New Mexico 15. DATE SPUDDED 16. DATE T.D. REACHED | 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, RKB, RT, GR, ETC.) \* 19. ELEV. CASINGHEAD 4 - 6 - 794 - 15 - 795904' GL 10-16-79 22. IF MULTIPLE COMPL., 23. INTERVALS ROTARY TOOLS CABLE TOOLS 20. TOTAL DEPTH, MD & TVD 21. PLUG, BACK T.D., MD & TVD HOW MANY DRILLED BY 5213' 0-52301 25. WAS DIRECTIONAL 24. PRODUCING INTERVAL(S), OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TVD)\* SURVEY MADE 4523-5151' (MV) 2514-2634' (PC) No 26. TYPE ELECTRIC AND OTHER LOGS RUN 27. WAS WELL CORED CDL-GR; IEL- GR; Temp. Survey No 28. CASING RECORD (Report all strings set in well) CASING SIZE DEPTH SET (MD) CEMENTING RECORD WEIGHT, LB./FT HOLE SIZE AMOUNT PULLED 9 5/8' 219 ' 13 3/4" 36# 224 cf. 3/4" 2889 20# 462 cf. 29. LINER RECORD 30. TUBING RECORD DEPTH SET (MD) TOP (MD) BOTTOM (MD) SACKS CEMENT\* PACKER SET (MD) 4 1/2' 2734 5230' 222 cf. 2 3/8" 5111' 2744 2607' 1/4" 31. PERFORATION RECORD (Interval, size and number) 2514-2526 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 2530-2540,2546=2562,2571-2580,2592-2600, AMOUNT AND KIND OF MATERIAL USED DEPTH INTERVAL (MD) 2616-2634'W/14 SPZ. 4523,4530,4544,4553,4610,2514-2634 73,500# sd, 83,500 gal. 4718, 4755, 4761, 4767, 4772, 4784, 4790, 4804, 4810, 4523-5151 106,500#sd, 213,000 gal wtr 4816,4822,4847,4865,4872,4892,4922,4964,4978 5029,5052,5090,5103,5151' W/1 SPZ. PRODUCTION LL STATES (Producing of DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pump Flowing N. RECTORIC DATE OF TEST MV 10-9-79 PC 10-16-79 HOURS TESTED CHOKE SIZE PROD'N. FOR TEST PERIOD OIL-BBL. GAS-MCF GAS OH RATIO FARMINGTON, 3/4 variable hours FLOW. TUBING PRESS. CASING PRESSURE ALCULATED -MCF -BBL. 24-HOUR RATE SI MV 801 SI PC 689 MV 12,193 SI 765 4. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) EST WITNESSED, BY MV L. Fothergill PC C. Rhames 35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

HISCO SIGNED \_

TITLE Drilling Clerk

<u> 19</u>79 DATE October 18.

# NSTRUCTIONS

or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, capies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Feueral and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Hem 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions. General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency.

lem 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

lems 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing intervals, top(s), botton(s) and name(s) (if any) for only the interval reported in item 38. Submit a separate report (page) on this form, adequately identified, for each additional hart perfunent to such interval.

Hem 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Hem 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF DEPTH INTERVAL TESTED, CUSH	OUS ZONES: TANT ZONES OF POI TESTED, CUSHION	ROSITY AND CONT USED, TIME TOOL	MARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES	38.	GEOLOGIC MARKERS	
FORMATION	TOF	BOTTOM	DESCRIPTION, CONTENTS, ETC.	5	TOP	ď
				a la cu	MEAS. DEPTH	TRUE VERT. DEPTH
				P.C.	2510'	
				M.V.	4040'	
		· · · · · ·		P.L.	47441	

# OIL CONSERVATION DIVISION OIL CONSERVATION DIVISION P. O. BOX 2088 FIG. SANTA FE, NEW MILKICO 87501

STATE OF BLV7 MEXICO

TAND OFFICE  TANDOFFICE  TANDOFFICE  OFFICE  CAUGATION OFFICE		ST FOR ALLOWABLE AND FRANSPORT OIL AND NAT	-	0-045-23178
	cural Gas Company			and the second s
Box 289, Fa	armington, New Mexico 87401			
Feoson(s) for tiling ((tec	A proper box)  Change in Transporter of:	Other (Plea	se explain)	
flecompletion	011	Dry Gas		
Change in Ownershir	Casinghead Gaz	Condensate		
If change of ownership g and address of previous			— · · · · · · · · · · · · · · · · · · ·	
I. DESCRIPTION OF WE	CLL AND LEASE   Well No.   Pool Name, Incl.	uding Formulion	Kind of Leane	Lease No.
Mudge	14A Aztec P.C	Ext.	Stote, Federal &	SF078096
Location F Unit Letter	; 1560 Feet From The North	Line and1685	Feet From The West	t
Line of Section 21	Township 31-North Ran	gell- West , NMP	san Juan	County
	ANSPORTER OF OIL AND NATUR			
El Pasc Natura		E.	to which approved copy of this rmington, New Mexic	
Home of Authorized Truns	norter of Casinghead Gas or Dry Gas (		to which approved copy of this	
If well produces oil or liqu	Unit Sec. Twp. R	ge. Is gas octually connect	rmington, New Mexic	o 87401
	ningled with that from any other lease or		r number:	
Designate Tune of	Completion (Y) Gas	Well New Well Workover	Deepen Plug Back	Same Hesty, Dill. Resty.
Designate Type of	Date Compl. Heady to Prod.	X Total Depth	P.B.T.D.	<u> </u>
4-6-79	10-16-79	5230'	5213'	
Elevetions (DF, RKB, ET, 5904   GL	GR. etc., Name of Producing Formation Pictured Cliffs	Top ∰/Gas Pay 2514 '	Tubing Depth 2607	
Perforations 2514-252	6,2530-2540,2546-2562,2571-	2580 2592-2600 2616	Depth Casing 5230 *	Shoe
2514-252		AND CEMENTING RECOR		
13 3/4"	CASING & TUBING SIZE	E DEPTH 5	ET SAC 224 C	CKS CEMENT
8 3/4"	7''	2889'	462 (	
6 1/4"	4 1/2" Liner	2734-5230'	222 (	
	1 1/4"	5111'	tubir	
OIL WELL	able for t	t be after recovery of total volu this depth or be for full 24 hours	<i>)</i>	al to or exceed top allow-
Date First New Oil Run To	Tonza Date of Test	Froducing Mothes (Flow	, pump, gas tijt, esc.y	•
Length of Test	Tubing Pressure	Casing Ptessure	Choke Size	
Actual Prod. During Tool	OII-Bbis.	Water-Bole.	Gat-ACF	
CASPITA			200	723
GAS WELL  Actual Prod. Teal-MCF/D	Length of Test	Bbls. Condensate/MMC	Cravity of Co	ndebadie .
1 520	7 hours  Pr.) Tubing Pressure (Shat-is)	Casing Pressure (Shat-	-in) Chote Site	L' Commande de l'acceptant de l'acce
Calc. A.O.F.	689	765	3/4 var	······································
CERTIFICATE OF CO	MPLIANCE		DNSERVATION DIVISION	
Dielaisa have been comt	ules and regulations of the Oil Conserva died with and that the information gives its to the best of my knowledge and be	N		adrição
PD246 18 time and combin	to the heat of my knownedge and the	TITLE		
1 11	$\mathcal{L}$ .		be filed to compliance with	h AULE 1104.
<u> </u>	Huseo	35 13 (2 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	est for allowable for a new be accompanied by a tabul	ly delifed or despensed
		tests taken on the r	vall in accordance with MU	L& 111.
Drilling Cl	(Tille)	All sections of able on new and rec	this form must be filled out ompleted walls.	completely for ellow-
October 18	1979	Fift out only S	ections I, II, III, and VI ( , or transporter, or other auc	or changes of owner,
	(Patt)		C-104 must be filed for	

# STATE OF HEW MEXICO ALIMATERA OF STATEMENT OF A SECTION total temptation THE

#### OIL CONSERVATION DIVISION P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Ĩ.	TRANSPORTER OIL OAL GERATOR PERCENTER OR FRANCE		OR ALLOWARLE AND PORT OIL AND NATURA		30-045-23178
•	El Paso Natural Gas	Company			
	Box 289, Farmington	, New Mexico 87401			
	Presents) for filing (Check proper box, slow Well X) Flecompletion Change in Ownership	Change in Transporter of: Oil Dry G Casinghead Gas Conde	~ [	iplain)	
	If change of ownership give name and address of previous owner				
II.	DESCRIPTION OF WELL AND	LEASE   Well No.   Pool Name, Including F	ormution K	ind of Leave	Linuse No.
	Mudge	14 A   Blanco Mesa V	erde .	Federal	SF078096
	Unit Letter F : 156	O Feet From The North Lie	ne and1685	Feet From The West	
	Line of Section 21 Tow	waship 31-N Range	11-W , ммри,	San Juan	County
٦.	DESIGNATION OF TRANSPORT	FER OF OIL AND NATURAL GA	15	which approved copy of this	form is to be sent)
	None of Authorized Transporter of Cil El Paso Natural Gas None of Authorized Transporter of Cos	Company Inghead Gas C cr Dry Gas X	Box 289, Farm	ington, New Mexic	form is to be sent)
	El Paso Natural Gas	Unit Sec. Twp. Rge.	ls gas actually connected?		.0 07101
	cive location of tanks.  If this production is commingled wit	1	give commingling order nu	ımber:	
	COMPLETION DATA  Designate Type of Completion	Oll Well Gas Well	New Well Workover		Same Resty, Diff. Resty.
	Date Spudded	Date Compl. Heady to Prod.	Total Depth	P.B.T.D.	
	4-6-79 Lievations (DF, RKB, KT, GR, etc.)	10-16-79 Name of Producing Formation	5230 Top Oil/Gas Pay	5213 Tubing Depth	
	F0041	Mesa Verde 553,4610,4718,4755,	4523' .4761.4767.4772,47	5111' 84,4790 Depth Coming	Shoe
	4804,4810,4816,4822,48	365,4872,4892,4922,4964,4	4978,5029,5052,509	0,5103, 5230'	
	5151' W/1 SPZ.	TUBBIG, CASING, AND CASING & TUBBIG SIZE	D CEMENTING RECORD DEPTH SET	· · · · · · · · · · · · · · · · · · ·	KS CEMENT
	13 3/4"	9 5/8"	219'	224 ci 462 ci	
	8 3/4" 6 1/4"	4 1/2" Liner	2734-5230'	222 ct	
		2 3/8"	5111'	tubing	<del></del>
₹.	TEST DATA AND REQUEST FOOL WELL.	able for this de	fier recovery of socal valume enth or be for full 24 hours)   Producing Method (Flow, p		at is by extend top unous
	Date First New Oil Hun To Tanks	Date of Test	Producing Kiethod (From, p		•
	Length of Test	Tubing Pressure	Casing Pressure	Choie Size	
	Actual Prod. During Test	Oil - Bbis.	water - Lible.	Gas-MÇF	
				*	
j	Actual Frod. Teet-MCF/D 12,193	Length of Test 3 hours	Bhie. Condensate/MMCF	Gravity bi Cor	ndenadia
	Calc. A.O.F.	Tubing Pressur (shut-in) 801	Casing Pressure (Shut-1)	Choice Size 3/4 var	iable
1	CERTIFICATE OF COMPLIANC	CE CE	OIL CON	ISERVATION DIVISION	NC
	I hereby certify that the rules and r Division have been complied with store to true and complete to the	best of my knowledge and belief.	TITLE	filed in cumpliance wit	
	Duilling Clark		If this to a request to the tage taken on the well	t for allowable for a new a accompanied by a tabu If in accordance with Fi	dy drilled or deepened letton of the deviction Juk 111.
	October 18, 1979	The transport of the selection of the se	Fill out only the wall name or number, o	tions 1, 11, 111, and VI risens positer, or other wo	for changes of owner, hickory of condition
	,, -		heperate forms (	3-104 must be thed for	sech pool in soultheir

Subnut 5 Copies Appropriate District Office DISTRICT J P.O. 16 to 1980, Hobbs, NM 88240

State of New Me. Energy, Minerals and Natural Res

epartment

Form C-104 Revised 1-1-89 See Instructions at Bottom of Page

#### OIL CONSERVATION DIVISION

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

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

NSTRICT III (XXI) Rio Brazis Rd., Aziec, NM 87410	REQUEST FOR ALLOWA	ABLE AND AUTHORIZ	ZATION			
	TO TRANSPORT O	IL AND NATURAL GA	S Well A	Pl No.		
•	any		30045	23178		======
	n and n and n	1. (0201				
	Box 800, Denver, Colora		in)			
r-i	Change in Transporter of:	(_)	•			
[1]	Oil Dry Gas					
Change in Operator 🔯	Casinghead Gas Condensate					
	neco Oil E & P, 6162 S.	Willow, Englewood	d, Color	ado 8015	55	
•	AND LEASE					
		ding Formation				
Compased Compass of Special Conference   No. Compass Compass Conference   No. Compass Compas						
Person   Address   Addre						
Unit Letter	Feet From The	Line and 1003	1·ce	et From The . 4.		Line
Section 21 Townsh	ip 31N Range 11W	, NMPM,	SAN JU	J <u>AN</u>		County
DESIGNATION OF TRAN	SPORTER OF OIL AND NAT	URAL GAS				
	or Condensate	Address (Give address to wh	ich approved	copy of this form	n is to be ser	u)
(			7.6	anno of this form	ie to he se	
•		- 1				Ψ)
					79	
			i			
	from any other lease or pool, give commit	ngling order number:				
V. COMPLETION DATA	louwill I cawall	New Well   Worksyer	Deepen	Plue Back IS	ame Res'v	Diff Res'v
Designate Type of Completion		I HEW WELL I WARROLL	Deepen	1108 1.455 1		[
		Tota. Depth		P.B.T.D.		
		Top Oil/Gas Pay		Tubing Daugh		
Elevations (DF, RKB, RF, GR, etc.)	Name of Producing Formation	Top Old Oak ray		Lubing Debau		
Perforations				Depth Casing	Shoe	
				<u> </u>		
			<u>D</u>		CKC CLM	 TAIT
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET		S.A	CK2 CEMI	2N1
				]		
V. TEST DÁTÁ AND REQUE	ST FOR ALLOWABLE		amable for this	e doub ar he fa	full 24 hou	rs.)
	•	Producing Method (Flow, pu	omp, gas lýt, e	ic.)	7111. 11	
Date (103) ben Oil Ruit to Taux	Date of Tex	, , , , , ,			–	
Length of Test	Tubing Pressure	Casing Pressure		Choke Size		
		Water Bhis		Gas- MCF		
Actual Prod. During Test	Oil - Bbis.	, , , , , , , , , , , , , , , , , , ,				
OACAUREI						
the state of the s	Longth of Test	Bbls. Condensate/MMCF		Gravity of Co	ndensate	
230 COMP   10 Pd   10 Pd   27 Pd   1 / 87						
lesting Method (paint, back pr.)	Tubing Pressure (Shut in)	Casing Pressure (Shut-in)		Choke Size		
				. l		
		OILCOM	ISERV	ATION F	IVISIO	NC
			100117			
		Data Approve	d A	אי אמ אסן	000	
	,	Date Approve	II	کاستان کاستانی ه	- 4 A	
J. J. Han	plan	Bv	3.	) dh	_/	
Supature		)) -	Allopov+	HIAN DIA		
J. L. Hampton S Prosted Name	Title	Title	-VF#K 7 &	einu niz	INIUI #	
Janaury 16, 1989	303-830-5025	-				
Date	Telephone No.	11				

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

State of New M Submit 5 Copies Appropriate District Office DISTRICT 1 P.O. Box 1980, Hobbs, NM 88240 Energy, Minerals and Natural R

Department

Form C-104 Revised 1-1-89 See Instructions at Buttom of Page

#### OIL CONSERVATION DIVISION

P.O. Box 2088

DISTRICT II PO Drawer DD, Artesia, NM 88210

Santa Fe, New Mexico 87504-2088

DISTRICT III 000 Rio Brazes Rd., Aziec, NM 87410	REQUEST F	OR ALLOWAE	LE AND AU	THORI	ZATION	/		
•	TOTA	ANSPORT OIL	AND NATU	HAL G	AS Well A	PI No		
Operator								
Amoco Production Compa			90201		B0045	23178		
1670 Broadway, P. O. I	30x 800, Den	ver, Colorado		lease expl	ain)			
Reason(s) for Liling (Check proper box)	G	:- Tof	[] Other (r	rease expri	uin)			
New Well	- r	in Transporter of:						
Recompletion [_]	_	(-1						
Change in Operator		_ Condensate						
and and the state of the state		P, 6162 S.	Willow, En	glewoo	d, Color	ado 80	155	
1. DESCRIPTION OF WELL		- 157 153 - 1772.	- F		1 ·		- 1 1 <sub>e</sub>	ase No.
Lease Name	1	D. Pool Name, Include			FEDEI	) A T	SF078	
MUDGE LS	14A	BLANCO (MES	AVERDE)		TEDE		1	
Location F	1560	Feel From The	L Line an	, 1685	Fee	et From The	FWL	Line
Unit Letter					SAN JU			County
Section 21 Township		Rangel 1W	, NMPi	Mr	Dia o			
H. DESIGNATION OF TRAN Name of Authorized Transporter of Oil	SPORTER OF Or Conc		RAL GAS	kiress 10 w	hich approved	copy of this j	form is to be se	nt)
CONOCO	( )	X	P. O. BOX					
and the second s	ghead Gas	or Dry Gas [X]	Address (Give ac					nı)
Name of Authorized Transporter of Casing EL PASO NATURAL GAS COL		S. 2., See [48]	P. O. BOX					
If well produces oil or liquids,	Unit   Sec.	Twp. Rge.	is gas actually co					
give location of tanks.	J		ing union a					
I this production is commingled with that IV. COMPLETION DATA	from any other lease	or pool, give comming	ling order number:		·····			
	Oil W	ell Gas Well	New Well V	Vorkover	Deepen	Plug Back	Same Res'v	Diff Res'v
Designate Type of Completion	.,		ساني بين السا		.1	ا ا	l	L
Date Spudded	Date Compl. Ready	to Prod.	Total Depth			P.B.T.D.		
Flevations (DF, RKB, RT, GR, etc.)	Name of Producing	Formation	Top Oil/Gas Pay			Tubing Dep	ηth	
Perforations	. L		L			Depth Casi	ng Shoe	
		er er en		DECO		·		
		G, CASING AND				T	CACKE CEM	CNT
HOLE SIZE	CASING &	TUBING SIZE	DI	PTH SE			SACKS CEM	EIAI
						-		
				· · · · · · · · · · · · · · · · · · ·		1		
			J			.1		
V. TEST DĂTĂ ÂND REQUE	ST FOR ALLO	WABLE	, ,		0 Lt. F = 0 *	n famil a La	for full 2d k-	ar l
OIL WELL (Lest must be after ) Date First New Oil Run To Tank	Date of Test	me of load oil and mus	Producing Metho	eed top at od (Flow, p	iowabie for thi nump, gas lýt, i	s outen or be	jor juli 24 not	wa.)
						Tennel 6		
Length of Test	Tubing Pressure		Casing Pressure			Choke Size	;	
Actual Prod. During Test	Oil - Bbls.		Water - Bbls.			Gas- MCF		
Actual Liter Danink Legr	On - Dois.							
l	1		.1					
GAS WELL  [Actual Prod. Test - MCF/D	Length of Test		Bills. Condensat	e/MMCF		Gravity of	Condensate	
			1					
Testing Method (pitot, back pr.)	Tubing Pressure (S	համա)	Casing Pressure	(Shut-in)		Choke Siz	e	
III CONDO ATON CONTROL		ADI LANCE	1			_1		
VI. OPERATOR CERTIFIC			O!	L CO	NSERV	ATION	DIVISIO	NC
I hereby certify that the rules and regu	lations of the Oil Cor	iservation niven above						
Division have been complied with and is true and complete to the best of my	knowledge and belief	f.	D=1- 4	\nn=~	od ••	AV 00 4	000	
			Date A	Approv	eu	44 (0.8-1	инч	
(1. I Har	pton				, ·	. ~1	/	
Surface of a low	A con		Ву		المسط		<b>{</b>	
J. L. Hampton S	r. Staff Adm		-		AUPERVI	ION DI	STRICT #	3
Ponted Name Janaury 16, 1989		Title 3-830-5025	Title					
Date 1907		l'elephone No.						

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells,
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
   4) Separate Form C-104 must be filed for each pool in multiply completed wells.

### STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

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	 OIL

#### OIL CONSERVATION DIVISION P.O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-104 Revised 10-01-78 Format 06-01-83 Page 1

REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

RORATION OFFICE	AUTH	IUHIZA	HON TO	INAINOI	OIL OIL	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	P P	@ B = -	
Operator		- <del>-</del>						JE V	
Tenneco Cil Company							<u>&amp;</u>		1131
Address P. O. Box 3249, Engl	ewood, CO	8015	5			(2)	SE!	<sup>3</sup> 0 5 198 <b>5</b>	
Reason(s) for filing (Check proper box)						Other (Please ex	plain)	ON. DIV	,
New Well Chan	ge in Transporter of:							137 3	•
Recompletion	Oil		Dry Ga			Well No	ame		
Change in Ownership	Casinghead Gas		Conde						
change of ownership give name address of previous owner	El Paso N	latura	l Gas,	P.O.	Box 49	90, Farmi	ington, NM 87	499	
. DESCRIPT ON OF WELL A	ND LEASE	No. T D	ool Name, Inc	luding Form	ation		Kind of Lease	USA	Lease No.
Lease Name	14		aztec-P				State, Federal or Fee	SF	078096
Mudge LS									
Location F	1560			N		1:	1685	et From The	
Unit Letter	:	F	eet From The			Line and			
21	Township	3	3 1 N		Range	11W	, NMPM, S	an Juan	County
Name of Authorized Transporter of Oil CONOCO Inc. Surface Name of Authorized Transporter of Casing El Paso Natural Gas If well produces oil or liquids.	Transporta	Gas X	Twp.	Rge 11W	P. (	). Box 46	ich approved copy of this fo O, Hobbs, NM lich approved copy of this fo 90, Farmingto When	88240 orm is to be sent)	9
give location of tanks.		<u> </u>		order numbe					
If this production is commingled with that					,				
NOTE: Complete Parts IV an	d V on reverse	side if	necessar	y.					
VI. CERTIFICATE OF COMP! I hereby certify that the rules and regular with and that the information given is tr	LIANCE	rvation Div	rision have be	en complie	APPR	OVED	OIL CONSERVATION	SEP	0 6 19 <b>985</b>
Let M=	Kumay				<sup>-</sup>		in compliance with RULE allowable for a newly drille	1104.	his form must be acco
Sr. Regulatory Analy	st (Signature)				nanied	hy a tabulation of	the deviation tests taken of	in the well in accorda	ice with Holl it.
SE	THE ADDE				Fill o	ut only Section I, II r such change of c	nmust be filled out complet i, III, and VI for changes of c condition.	owner, well name and	or number, or transpor
	(Date)				Sepa	rate Forms C-104	must be filed for each poo	I in multiply complete	d wells.
					**				

Form C-104 Revised 10-01-78 Format 06-01-83 Page 2

#### IV. COMPLETION DATA

		<del></del>							
esting Method (pilot, back pr.)	(ni-turk) Presssure (Shut-in)		Sasing Pressure	(ni-tufl2)		Сhoke Size			
Actual Prod. Test - MCF/D	Length of Test		Bbls. Condensate	NWMCE		Gravity of Conde	- 9162r		
AS WELL						<del> </del>			
Actual Prod. During Test	Oil - Bbls.		Water - Bbls.			Gas - MCF			
Length of Test	enuesen9 pridu⊺		Casing Pressure			Choke Size			
V. TEST DATA AND REQUEST FOR	Pate of Test			r recovery of total v I 24 hours) (Flow, pump, gas		enbə əq ısnu pue	go or exceed top	ti 10i əidswolis c	
3ZIS 37OH	CASING & TUBING	SIZE SIZE	CEMENIIN	DEPTH SET		S	ACKS CEMEN	1	
	) aliant	div Sivisv	11121121120			Depth Casing S	воц		
Perforations	Name of Producing Formation		F9 Se2\iiO qoT	Aiged GniduT VE9					
Date Spudded Elevations (DF, RKB, RT, GR, etc.)	Date Compl. Ready to Prod.		Total Depth			.0.1.8.9	· · · · · · · · · · · · · · · · · · ·	·, · · · · ·	
Designate Type of Completion -		Gas Well	New Well	Молкочег	Deepen	Plug Back	Same Res'v	V'aqA Mid	
ATAU NOTITE TON DATA									

#### STATE ()F NEW MEXICO ENERGY AND MINERALS DEPARTMENT

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OPERATOR		
PRORATION OFFIC	E	

Operator

#### OIL CONSERVATION DIVISION P.O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-104 Revised 10-01-78 Format 06-01-83 Page 1

REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Tenneco Oil Company 🚟	- WINT IL						to to			
ddress P. O. Box 3249, Englew		0155					S	EP 06 (5	/ა <u>უ</u>	<u> ()</u>
eason(s) for filing (Check proper box)					Other (Please ex	plain)	UI!		11119	
¬	Transporter of:								two files	
i	, manaparter an	Dry G	as					The second second		
The completion	i-shood Coo	X Conde			Well Na	ame				
	inghead Gas									
change of ownership give name Education description   d address of previous owner	l Paso Nat	ural Gas,	P.O.	Box 499	00, Farmi	ington,	NM 87	499		
DESCRIPTION OF WELL AND	LEASE					Kind of Lea	se	USA		Lease No.
ease Name	Well No.	Pool Name, Inc		iation		State, Fede		SF		078096
Mudge LS	14 A	Blanco-	-MV						l	
Location F	1560	Feet From The	N		Line and	1685	Fe	et From The	J	
Unit Letter:		Feet From the					_	_		
21	Township	31 <b>N</b>		Range	11W		NMPM.	San Juan		County
Line of Section	TOWNSHIP									
			AL GAS	Address (Gr	ie address to while					
Conoco Inc. Surface Tr	ransportati	on		P. 0	. Box 460	0, Hobb	s, NM	88240		
Conoco Inc. Surface Tr	ransportati	on X		P. O	. Box 460	O, Hobk	opy of this fo	88240 orm is to be sent)		
Conoco Inc. Surface Tr Name of Authorized Transporter of Casinghead	ransportati I Gas = or Dry Gas	<b>X</b>		P. O	Box 460 ve address to white. Box 499	O, Hobk	opy of this fo	88240 orm is to be sent)		
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Form C-104 Revised 10-01-78 Format 06-01-83 Page 2

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iual Prod. Test - MCF/D	Length of Test	Bbis. Condensate	e/MMCF		Gravity of Cond	Gravity of Condensate		
'S MELL						<del></del> -		
tsaT gnind bor9 lsul	.eld8 · InO	Water - Bbls.			Gas · MCF			
ngth of Test	Finessard gniduT	Casing Pressure			Choke Size			
TEST DATA AND REQUEST  THE FIRST NEW OII RUN TO TRINKS	FOR ALLOWABLE OIL WE		er recovery of total ili 24 hours) 1 (Flow, pump, gas		pə əd isum bns lic	or exceed to	101 Adswolls o	
	CASING & TUBING		ТЭЅ НТЧЭСТ			2VCK2 CEMEN		
HOLE SIZE	TUBING, O	ND CEMENTING	С ВЕСОВО					
anoitaiohe					Depth Casing	Shoe		
evations (DF. AKB, AT. GR, etc.)	Name of Producing Formation	FG Oil/Gas Pa	Á		Tubing Depth			
ste Spudded	Date Compl. Ready to Prod.	Total Depth		<u>-</u> -	.0.T.8.9			
designate Type of Completi	ion veil (X) — n	liew wen	Workover	Deepen	bing Back	Same Res'v.	V. 29F. )b0	
COMPLETION DATA								

Submit 5 Copies
Appropriate District Office
DISTRICT 1
P.O. Box 1980, 16:0bs, NM 88240

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

Form C-104
Revised 1-1-89
See Instructions
at Buttom of Page

OIL CONSERVATION DIVISION DISTRICT II P.O. Drawer DD, Artesia, NM 88210 P.O. Box 2088 Santa Fe, New Mexico 87504-2088 DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410 REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS Well API No. Operator AMOCO PRODUCTION COMPANY 300452317800 P.O. BOX 800, DENVER, COLORADO 80201 Other (Please explain) Reason(s) for Filing (Check proper box) New Well Change in Transporter of:  $\Box$ Dry Gas Oil Recompletion Casinghead Gas Change in Operator If change of operator give name and address of previous operator II. DESCRIPTION OF WELL AND LEASE Kind of Lease Lease No. Well No. Pool Name, Including Formation Lease Name MUDGE LS State, Federal or Fee AZTEC PICTURED CLIFFS' (GAS) Location 1560 FWL Line and Feet From The Feet From The 21 31N 11W SAN JUAN NMPM. County III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS Address (Give address to which approved copy of this form is to be sent) Name of Authorized Transporter of Oil MERIDIAN OIL INC. 3535 EAST 30TH STREET, FARMINGTON NM 87401 Name of Authorized Transporter of Casinghead Gas or Dry Gas EL PASO NATURAL GAS COMPANY P.O. BOX 1492 EL PASO TX 79978 Is gas actually connected? When 7 Twp Rgc If well produces oil or liquids, give location of tanks. If this production is commingled with that from any other lease or pool, give commingling order number. IV. COMPLETION DATA Plug Back | Same Res'v | Diff Res'v Gas Well New Well Workover Deepen loir wait Designate Type of Completion - (X) Total Depth Date Spudded Date Compl. Ready to Prod. P.B.T.D. Top Oil/Gas Pay Elevations (DF, RKB, RT, GR, etc.) Name of Producing Formation Tubing Depth Perforations TUBING, CASING AND CEMENTING REC AUG 3 1996 ACKS CEMENT CASING & TUBING SIZE HOLE SIZE V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours) Producing Method (Flow, pump, gas lift, etc.) Date First New Oil Run To Tank Date of Test

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top altomable for this depth or be for full 24 hows.)

Date First New Oil Run To Tank

Date of Test

Producing Method (Flow, pump, gas lift, etc.)

Length of Test

Tubing Pressure

Casing Pressure

Choke Size

Actual Prod. During Test

Oil - Bbls.

Water - Bbls.

Gas- MCF

**GAS WELL** 

Actual Prof. Test - MCF/D Length of Yest Bbls. Condensate/MMCF Gravity of Condensate

Testing Method (pitot, back pr.) Tubing Pressure (Shut-in) Casing Pressure (Shut-in) Choke Size

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature
Doug W. Whaley, Staff Admin, Supervisor
Printed Name
Title
July 5, 1990
Date
Telephone No.

#### OIL CONSERVATION DIVISION

Date Approved \_\_\_\_\_\_AUG 2 3 1990

SUPERVISOR DISTRICT #3

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

 Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.

Title

- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

Submit 5 Copies
Appropriate District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240 DISTRICT II P.O. Drawer DD, Artesia, NM 88210

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

Furm C-104 Revised 1-1-89 See Instructions at Bottom of Page

#### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

ISTRICT III DUD Rio Brazos Rd., Aziec, NM B7410	REQUEST FOR ALLOWABI	_E AND AUTHORIZATIO	ON
•	TO TRANSPORT OIL	AND NATURAL GAS	Veil API Na
Operator AMOCO PRODUCTION COMPAI	NY		300452317800
P.O. BOX 800, DENVER,	COLORADO 80201	Other (Please explain)	
teason(s) for Filing (Check proper box)	Change in Transporter of:	Other (Freue expans)	
New Well Recompletion	Oil Dry Gas		
hange in Operator	Casinghead Gas Condensate		
change of operator give name and address of previous operator			
I. DESCRIPTION OF WELL	AND LEASE  Well No. Pool Name, Including	ig Formation	Kind of Lease Lease No.
MUDGE LS	14A BLANCO MES	AVERDE (PRORATED GAS	Sizie, reactar of rec
Location F	1560 Feet From The	FNL Line and	Feet From The FWL Line
Unit Letter	31N 11W	NMPM,	SAN JUAN County
Section Townshi			
II. DESIGNATION OF TRAN	ISPORTER OF OIL AND NATU	RAL GAS Address (Give address to which app	proved copy of this form is to be sent)
Name of Authorized Transporter of Oil MERIDIAN OIL INC.		SESE EACT SOTH STRE	ET FARMINGTON NM 87401
Name of Authorized Transporter of Casin	ghead Gas Or Dry Gas	P.O. BOX 1492, EL	proved copy of this form is to be sent)
EL PASO NATURAL GAS CO	MPANY   Unit   Soc.   Twp.   Rge.		When ?
if well produces oil or liquids, give location of tanks.	i i i	l l	
If this production is commingled with that	from any other lease or pool, give comming	ling order muliber.	
IV. COMPLETION DATA	Oil Well Gas Well	New Well   Workover   De	epen Plug Back Same Res'v Diff Res'v
Designate Type of Completion	1 - (X) Pandu to Prod	Total Depth	P.B.T.D.
Date Spudded	Date Compl. Ready to Prod.		
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth
Perforations			Depth Casing Shoe
	TUDING CASING AND	CEMENTING RECORD	
HOLE SIZE	CASING & TUBING SIZE	DEPTH S	CHARMENT
HOLE SILE			1000
		- 44	AUG 2 3 1990
	·		L CON. DIV.
V. TEST DATA AND REQUI	EST FOR ALLOWABLE r recovery of total volume of load oil and mu	et he equal to or exceed top allowable	e for the water for full 24 hows )
OIL WELL (Test must be after Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump,	eas lyft, etc.)
	D. D	Casing Pressure	Choke Size
Length of Test	Tubing Pressure		Gas- MCF
Actual Prod. During Test	Oil - Bbis.	Water - Bbls.	
CACNELL			
GAS WELL Actual Prod. Test - MCF/D	Leagth of Test	Bbls. Condensate/MMCF	Gravity of Condensate
	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Qioke Size
l'esting Method (pitot, back pr.)			
VI. OPERATOR CERTIF	ICATE OF COMPLIANCE	OIL CONS	ERVATION DIVISION
I hereby certify that the rules and re Division have been complied with a	rug flyst five tutotumities River moore		AUG 2 3 1990
is true and complete to the best of a	nly knowledge and belief.	Date Approved	Λ .
NU Illes	·	Ву	3 1) chang
Signature Doug W. Whaley, Sta	aff Admin. Supervisor	.	SUPERVISOR DISTRICT #3
Printed Name	7iile 303-830-4280	Title	
July 5, 1990	Telephone No.		

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

Submit 5 Copies
Appropriate District Office
DISTRICT |
P.O. Box 1980, Hobbs, NM 88240

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

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

Form C-104 Revised 1-1-89 See Instructions at Bottom of Page

#### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT III
1000 Rio Brazos Rd., Aziec, NM 87410

DECUEST FOR ALLOWARLE AND AUTHORIZATION

T	OTRA	NSP	ORT OIL	AND NAT	URAL	GAS				
		<del></del> -					Well Al	l No.		
							300	4523178		
OLORAD	0 8020	1		B) Oik	(Please	rolain)				
Oil		Dry G	📙		•	-	- Mud	dge. L	S #14	4
ND LEA	SE									- N.
	Well No.				LIFFS	)			1	18096
:1	1560	Feet F	rom The	FNL Line	and	168	5 F <b>e</b> c	t From The	FWL	line
311	N	Range	114	, NI	IPM,		SAN	JUAN		County
SPORTE	R OF O	IL A	ND NATU	RAL GAS						-4)
<u></u>	or Conde	nsale		P.O. B	OX 142	29 _B	LOOMF 1	ELD. NE	87413	
head Gas MPANY	LJ	or Di	y Cus []							
Unit	Soc.	Twp.	Rge.							
rom any oth	er lease or	pool, g	ive comming	ling order num	DET.					
	Oil Wel	<u></u> [-	Gas Well	New Well	Workov	er	Deepea	Plug Back	Same Res'v	Diff Res'v
	pl. Ready t	o Prod.		Total Depth	l	1_		P.B.T.D.		
Name of P	roducing F	onnatio	)A	Top Oil/Gas	Pay			Tubing Dep	th	
<u> </u>	<del></del>			.1				Depth Casi	ig Slice	
	TIBING	CAS	SING AND	CEMENT	NG REC	CORD				
					DEPTH	SET			SACKS CEM	ENT
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TEOR	AT LOW	ABL	E	<u> </u>				ل		
ecovery of the	otal volum	e of loa	d oil and mu	si be equal to a	exceed to	ор айож	ble for the	s depth or be	for full 24 hos	ers.)
				Producing N	lethod (Fi	ow, punq	o, gas iyi, i	nc.)		
Tubing Pr	SILESS			Casing Pres	mie		Į. P	6.6		
Oil - Ibls				Water - Bbi	<b>.</b>			-		3.0
				Fibis Conde	nusc/MM	CF		ATCC	<b>101126</b>	V
Tsugur or	ICM									
Tubing Pi	ressure (Si	iut-iis)		Casing Pres	eure (Shut	-ia) 		Choke Siz		
lations of th	e Oil Coru	ic rvatio	a		OIL C	ONS	SERV	ATION	DIVISION 29	ON 1990
knowledge	and belief.	,, ve H #C		Da	e App	roved				<del></del>
	<u> </u>	<del></del>		Ву						
<u>f Admir</u>		111	ie	Titl	e					
	Oil Casinghead  ND LEA  ND LEA  SPORTE  Out Company other  (X) Date Company other  CA  Tubing Properties of the Casinghead  Length of Tubing Properties of the Casinghead  Length of Tubing Properties of the Casinghead  Length of Tubing Properties of the Casinghead  CATE Of Lations of the Casinghead  Length of Tubing Properties of the Casing Prop	Change in Oil Casinghead Gas Casinghead Gas Well No. 14A  1560  31N  SPORTER OF O Or Condent MPANY  Unit Soc. Oil Well (X) Oil Well (X) Oil Well (X) TUBING CASING & T  TUBING CASING & T  TUBING CASING & T  TUBING CASING & T  Tubing Pressure Oil - Bbis.  Length of Yest Tubing Pressure (St  CATE OF COM lations of the Oil Cond that the information g knowledge and belief.	TO TRANSP  Y  OLORADO 80201  Change in Transp Oil Dry G Casinghead Gas Coade  ND LEASE  Well No. Pool P 14A AZ  : 1560  Feet F 31N Range  SPORTER OF OIL AP or Coadensate  Or Coadensate  CASING STUBING, CAS CASING STUBING  TUBING, CAS CASING STUBING  TUBING CAS CASING STUBING  TUBING, CAS CASING STUBING  TUBING CAS CAS CASING STUBING  TUBING CAS	TO TRANSPORT OIL  Y  OLORADO 80201  Change in Transporter of: Oil Dry Gas Casinghead Gas Condensate  ND LEASE  Well No. Pool Name, included AZTEC (PI  1560 Feet From The 31N Range 11th Or Condensate  Or Condensate  NPORTER OF OIL AND NATU  Or Condensate  NEW CONDENSATE OF OIL AND NATU  Or Condensate  NOT DRY Gas MENOW The Recommendation of Dry Gas Condensate  Oil Well Gas Well  (X) Gas Well Gas Well  (X) CASING AND CASING AND CASING & TUBING, CASING AND CASING & TUBING SIZE  TUBING, CASING AND CASING AND CASING & TUBING SIZE  TUBING CASING AND CASING AND CASING & TUBING SIZE  Tubing Pressure  Oil Bibls.  Length of Yest  Tubing Pressure (Shut-in)  CATE OF COMPLIANCE Lations of the Oil Conservation that the information given above	TO TRANSPORT OIL AND NAT Y  OLORADO 80201  Change in Transporter of: Oil Dry Gas NAM Casinghead Gas Condensate  Well No. Pool Name, Including Formation 14A AZTEC (PICTURED C  1560 Feet From The FNL Line 31N Range 11W NN  SPORTER OF OIL AND NATURAL GAS Or Condensate Address (Given PANY P.O. B  Unit Soc. Twp. Rge Is gas actually from any other lease or pool, give commingling order number of the producing Formation  Top Oil/Gas  TUBING, CASING AND CEMENTI CASING & TUBING SIZE  TUBING, CASING AND CEMENTI CASING Test Producing Formation  Tubing Pressure Oil - Bbls.  Length of Yest Producing Formation  Le	Change in Transporter of:  Oil Dry Gas NAME CHA  Catinghead Gas Condensate NAME CHA  NAME CHA  Catinghead Gas NAME CHA  Total Condensate NAME CHA  Catinghead Gas NAME CHA  NAME CHA  CATEC (PICTURED CLIFFS  NAME CHA  TOTAL CHAPTOR  NAME CHAPTOR  ACTEC (PICTURED CLIFFS  POLITICE ACTOR  NAME CHAPTOR  NAME CHAPTOR  NAME CHAPTOR  ACTOR  TOTAL CHAPTOR  NAME CHAPTOR  NAME CHAPTOR  ACTOR  TOTAL CHAPTOR  NAME CHAPTOR  ACTOR  TOTAL CHAPTOR  NAME CHAPTOR  ACTOR  TOTAL CHAPTOR  NAME CHAPTOR  ACTOR  ACTOR  NAME CHAPTOR  ACTOR  TOTAL CHAPTOR  NAME CHAPTOR  ACTOR  ACTOR  ACTOR  NAME CHAPTOR  ACTOR  ACTOR  ACTOR  NAME CHAPTOR  ACTOR  ACTOR  ACTOR  ACTOR  NAME CHAPTOR  ACTOR  AC	TO TRANSPORT OIL AND NATURAL GAS  Y  OLORADO 80201  Change in Transporter of: Oil	TO TRANSPORT OIL AND NATURAL GAS  Y  OLORADO 80201  Change in Transporter of: Oil Dry Gas NAME CHANGE — Much Change in Transporter of: Oil Dry Gas NAME CHANGE — Much AZTEC (PICTURED CLIFFS)  LISO Peet From The FNL Line and 1685 Foc 31N Range 11W NMPM, SAN  SPORTER OF OIL AND NATURAL GAS Or Condensate Address (Give address to which approved 2.0. BOX 1429 BLOCHTET)  Mead Gas Or Dry Gas Address (Give address to which approved 2.0. BOX 1429, EL PASC PLOYER (Give address to which approved 2.0. BO	TO TRANSPORT OIL AND NATURAL GAS  Y  OLORADO 80201    Change in Transporter of:   Oil	TO TRANSPORT OIL AND NATURAL GAS  Y  OLORADO 80201  Change in Transporter of: Oil Dry Can   NAME CHANGE - Mudge. LS MAI  Chainghead Gas   Coodenate   NAME CHANGE - Mudge. LS MAI  IND LEASE  Well No. Pool Name, Including Formation  IATE (PICTURED CLIFFS) FEDERAL SF0;  1560 Feet From The FNL Line and 1685 Feet From The FWL  31N Range 11W NMPM. SAN JUAN  SPORTER OF OIL AND NATURAL GAS  Or Coodenate   Active (Give address to which approved copy of this form is to be see of coodenate   P.O. BOX 1429 BLOOMF FELD. NM 8741.3.  Poet Gas   Or Dry Cas   Active (Give address to which approved copy of this form is to be see pen of the form is to be seen to many other lease or pool, give committingling order sambler:  Oil Well Soc. Typ Rge. It gas activally connected? When 7  Oil Well Gas Well New Well Workover Despea Ping Back Same Res'v  ACTE Compl. Ready to Prod. Total Depth Depth Depth Depth Casing From the producing Formation Top Oil/Gas Pay Tabing Depth Depth Casing Since  TUBING, CASING AND CEMENTING RECORD CASING & TUBING SIZE DEPTH SET SACKS CEM  Total Depth Casing Fressure (Sind-in) Casing Pressure (Sind-in) Casing Pressur

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

Subnut 5 Copies
Appropriate District Office
DISTRICT 1
P.O. Box 1980, 11cbbs, NM 88240

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

Form C-104 Revised 1-1-89 See Instructions at Bottom of Page

-1-

#### OIL CONSERVATION DIVISION

P.O. Box 2088

O. Drawer DD, Arlesia, NM 88210	Sa	P anta Fe, No	O. Box ew Mexi	2088 ico 875 <b>0</b> 4	1-2088				
DISTRICT III OW Rio Brazos Rd., Aziec, NM 87410	REQUEST F	OR ALLC	)WABLI	E AND A	UTHORIZ	ATION			
•	TO TRA	ANSPOR	T OIL A	ND NA	URAL GA	Well AP	l No.		
Operator AMOCO PRODUCTION COMPAN	Y					300	4523178		
Address P.O. BOX 800, DENVER, C	OLORADO 802	01		NT OL	(Please expla		4323170		
Reason(s) for Filing (Check proper box)	Chann i	n Transporter							_
Keconstruction		Dry Gas		NAM	E CHANG	E - Muc	dge. A	LS \$ 141	1
Change in Operator  I change of operator give name and address of previous operator	Caunghead Cas _	, солоши							
II. DESCRIPTION OF WELL A	ND LEASE							1	se No.
Lease Name	Well No.	1				Kind of		1	
MUDGE /B/	144	A BLANC	CO (MES	SAVERDE	<u>}</u>	1 FED	ERAL	SF07	2030
Location Unit LetterF	:1560	Feet From	The	FNL Lie	and1	685 Fee	From The _	FWL	Line
Section 21 Township	31N	Range	11W	, NA	ирм,	SAN	JUAN	<del></del> ,	County
III. DESIGNATION OF TRANS	SPORTER OF C	OIL AND	NATUR	AL GAS				<del></del>	
Name of Authorized Transporter of Oil	or Cond	ensale	J /		e address to w	hich approved t	opy of this fo	rm is to be sen	"
CONOCO Diereden C				P.O. B	<u>0X 1429</u> ,	BLUOMF I	ELD, NM copy of this fo	rm is to be sen	)
Name of Authorized Transporter of Casing		or Dry Ga	• [ ]	PO. R	OX 1492.	EL PASO	TX 7	9978	
EL PASO NATURAL GAS CO	Unit Soc.	Twp	Rge. I	is gas actuali	y connected?	When	r'		
If well produces oil or liquids, give location of tanks.	i i					L			
If this production is commingled with that f	rom any other lease of	or pool, give o	comminglin	ig order num	ber:				
IV. COMPLETION DATA	loii w	ell Car	Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Designate Type of Completion	- (X)	i	1	Total Depth	<u> </u>	<u>i</u>	P.B.T.D.	l	L
Date Spudded	Date Compl. Ready	ID FIOL		• • • • • • • • • • • • • • • • • • • •					
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing	Formation .		Top Oil/Gas	Pay		Tubing Dep		
Perforations			L				Depth Casi	ig Shoe	,
	TUBIN	G. CASING	G AND C	CEMEN'I	NG RECO	SD	,		
HOLE SIZE		TUBING SIZ			DEPTH SE	<u></u>	ļ	SACKS CEM	-NI
							ļ		
	<del> </del>								
V. TEST DATA AND REQUE	ST FOR ALLO	WABLE				Hamable for the	is denth or be	for full 24 hou	rs.)
OIL WELL (Test must be after t	recovery of total volu	me of load oil	l and must	be equal to a	hethod (Flow,	pump, gas lift,	elc.)	<i></i>	
Date First New Oil Rua To Tank	Date of Test								<del></del>
Length of Test	Tubing Pressure			Casing Pres	nu		Chuke Size		
Actual Prod. During Test	Oil - Bbls.			Water - Bb	s.		UC1 2	9 1938	3. 4.0
				L		~	אוו ככ	N. Di	<i>I</i>
GAS WELL Actual Prod. Test - MCT/D	Length of Test			Bbls. Cond	ensaic/MMCF	<u>`</u>	Giavily	Coorientale	
Actual Frod. 1881 - MC17D				l			Choke Siz		
l'esting Method (pitot, back pr.)	Tubing Pressure (	Shut-us)		Casing Pic	seure (Shut-in)			- 	
VI. OPERATOR CERTIFIC	CATE OF CO	MPLIAN	ICE	1		MICEDI	/ΔΤΙΩΝ	DIVISIO	NC
VI. OPERATOR CERTAIN				11	OIL CC	MOEUA			
the miles and men	ulations of the Oil Co	MECLASTION		11			n.	CT 29 19	90
I hereby certify that the rules and regu- Division have been complied with and is true and complete to the best of my	ulations of the Oil Co d that the information	a Bisen apose	ı	Da	te Appro			CT 2 9 19	90
I hereby certify that the rules and regularity have been complied with an	ulations of the Oil Co d that the information	a Bisen apose		Da			0 ZL	1	90
I hereby certify that the rules and regularity have been complied with an	ulations of the Oil Co d that the information y knowledge and beli	niscrvation n given above cf.		Ву			31	1	/

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

Date

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.

  3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
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STATE OF NEW MEXICO ENERGY and MINERALS DEPARTMENT

Location of Well: F213111 Page

# OIL CONSERVATION DIVISION NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator: AMOCO PRODUCTION COMPANY Lease/Well #:MUDGE B 014A
Meter #:90801 RTU:2-109-05 County:SAN JUAN

	NAME RESER	RVOIR OR P	OOL	TYPE PROD	METHOD PI	ROD MEDIUM PROD
				— GAS	FLOW	TBG
R MP	MUDGE LS 01	L4A APC 90	800	0215		
īR .	MUDGE LS 0	14A BMV 90	801	GAS	FLOW	TBG
MP						
	.	PRE	-FLOW SHUT-I	N PRESSURE D	ATA	
	Hour/Date	Shut-In	Length of T	ime Shut-In	SI Press	. PSIG   Stabilzed
R	06/01/92					
MP		1	/ )	22	44	5 ifa
VR OMP	06/01/92			/	24	/ ixes
<del></del>			FLOW TE	ST DATE NO.1		
omme	enced at (ho	ur,date)*			Zone	Producing (Upr/Lw)
	TIME	LAPSED T	IME	PRESSURE	Prod	T
(hc	our, date)	SINCE		er Lower	Temp.	
	06/01/92	Day 1				Both Zones SI
	06/02/92	Day 2	2			Both Zones SI
	06/03/92	Day	3			Both Zones SI
	06/04/92	Day 4				Marved lower 4
	06/05/92	Day !	5	1.		4
- (	06/06/92	Day	5 -			1
rodi	uction rate	during te	st	BBLs in	Hrs	Grav GOR _
il: as:			based on MFCPD:Teste MID-TEST SHU	d theu (Orifi	ice or Mete	
	Hour, Date		gth of Time			Stabilized (yes/no
PR OMP	,		, 4 <del>-</del>	4/3		10 D
WR	<u> </u>					
OMP	'	· ]			1	

JUN2 2 1992
OIL CON. DIV.

#### FLOW TEST NO. 2

mmorred el (beur, del	44		Zone producing (Upper or Lower):			
TIME	LAPSED TIME	PRES		PROD. ZONE	REMARKS	
Province, destrait	\$1902 **	Upper Completion	Lower Completion	1247.		
				:		
<del></del>					•	
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			}			
	1	<u> </u>	1	٦		
roduction rate o	during test					
Dil:	ВО	PD based on	Rhle i	Hour	s GOR	
		•				
Gas:		МС	FPD: Tested thr	u (Orifice or Mete	rr):	
Remarks:						
<del></del>					<u> </u>	
I hereby cerrify	that the informa	tion herein mars	ined is some and .	complete to the h	est of my knowledge.	
	JIIN 2 2	1992	med is due and	complete w me b		
Approved	0011 & &	1992	19	Cperator	moco frod.	
New Mexico	Oil Conservation	Division			(thille)	
12.0	grat Der a her			Ву	1-24	
Ву	· · · · · · · · · · · · · · · · · · ·	en en Vitable and C		Title	eld tech	
Tiele DEPU	TY OIL & GAS INS	PECTOR, DIST. #3			6/17/92	
דועכ			<del></del>	Date	it 1.1 1 1 1 0	

#### NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

- A packer leakage was shall be commerced on each multiply completed well within seven days after seroal completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion. Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or chemical or fracnute measurement, and whenever semedial work has been done on a well during which the packer or the rubing have been districted. Tests shall also be taken at any time that communication is suspected or when requested by the Division.
- At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Division in writing of the exact time the test is to be commenced. Offset operators shall also be so notified.
- The packer leakage test shall commence when both zones of the dual completion are shut-in for pressure stabilization. Both zones shall remain shut-in medi the well-head pressure in each has stabilized, provided however, that they need not remain shut-in more than seven days.
- 4. For Flow Text No. 1, one zone of the dual completion shall be produced as the normal rate of production while the other zone remains shur-in. Such text shall be continued for seven days in the case of a gas well and for 24 hours in the case of an oil well. Note: if, on an initial packer leakage text, a gas well is being flowed to the atmosphere due to the lack of a pipeline connection the flow period shall be three hours.
- 5. Following completion of Flow Test No. 1, the well shall again be abut-in, in accordance with Paragraph 3 above.
- 6. Flow Tex 'No. 2 shall be conducted even though no leak was indicated during Flow Tex No. 1. Procedure for Flow Tex No. 2 is to be the same as for Flow Tex No. 1 except

- that the previously produced zone shall remain abus-in while the zone which was previously shut-in is produced.
- 7. Pressures for gas-zone tests must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 3 hours tests: immediately prior to the beginning of each flow-period, at fifteen-minute intervals during the first hour thereof, and at hourly intervals thereafter, including one pressure measurement immediately prior to the conclusion of each flow period. 7-day tests: immediately prior to the beginning of each flow period, at least one time during each flow period (at approximately the midway point) and immediately prior to the conclusion of each flow period. Other pressures may be taken as desired, or may be requested on wells which have previously shown questionable test data.

24-hour oil some tests: all pressures, throughout the envire test, shall be continuously measured and recorded with recording pressure gauges the accuracy of which must be checked at least rwice, once at the beginning and once at the end of each seat, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas dual completion, the recording gauge shall be required on the oil some only, with deadweight pressures as required above being taken on the gas some.

8. The results of the above-described sens shall be filed in triplicate within 13 days after completion of the rent. Tens shall be filed with the Aster Durint Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 10-01-78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas suots only) and gravity and GOR (oil stones only).





#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

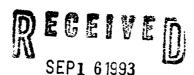
OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800



COMMINGLING ORDER PC-840

Amoco Production Company P.O. Box 800 Denver, CO 80201

OIL CON. DIV.

Attention: J.W. Hawkins

LEASE NAME:

Mudge "B" Well No. 14-A

**DESCRIPTION:** 

Blanco Mesaverde: N/2 and, Blanco Pictured Cliffs: NW/4 of Section 21,

Township 31 North, Range 11 West, San Juan County, New Mexico.

The above-named company is hereby authorized to commingle Blanco Mesaverde and Blanco Pictured Cliffs Pool production in a common separator and meter run, and to determine the production from each pool by well tests to be conducted on a bi-annual basis. (All commingled production must be of marginal nature; further, the operator shall notify the Santa Fe office of the Division in the event any well in the commingled battery becomes capable of top allowable production, at which time the Division will amend this order or take such other action as may be appropriate.

FURTHER: The operator shall notify the Aztec District Office of the Division upon implemenation of the commingling process.

NOTE: This installation shall be installed and operated in accordance with the applicable provisions of Rule 303 of the Division Rules and Regulations and the Division "Manual for the Installation and Operation of Commingling Facilities." It is the responsibility of the producer to notify the transporter of this commingling authority.

DONE at Santa Fe, New Mexico, on this 1st day of September, 1993.

WILLIAM J. LEMAY,

Director

cc: Oil Conservation Division- Hobbs

US Bureau of Land Management - Farmington (Attention: John Keller)