STATEOF NEW MEXICO OIL CONSERVATION DIVIS N ENERGY AND MINERALS DEPARTMEN P. O. BOX 2088	GAS SUPPLEMENT NUMBER XXXXXX(SE)AR-619 DATE 6-3-85
OIL CONDITICETOP ASSIGNMENT OF ALLOWABLE TO	

The operator of the following well has complied with all the requirements of the Oil Conservation Division and the well is hereby assigned an allowable as shown below.

Operator Well No Dedicated Acr Acreage Facto Deliverability A x D Factor	Marati Robert 2 reage	N. Enfield	1 er <u>P</u> Rev .60 Rev	ised Acreage ised Acreage ised Acreage Fa	Indian 1 Bunnel 1 18 ctor	Bagin II/Penn	
Change	III der	cuye	Ø	in f	Caleman	OCD District No.	
		<u><u> </u></u>	ALCULATION	N OF SUPPLEN	NENTAL ALLO	WABLE	
Previous Stat	us Adjustnie	ents				REMA	
MONTH	% OF MO.	PREV. ALLOW.	REV. ALLOW.	PREV. PROD.	REV. PROD.	REMA	
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				+			
December		_				RECEIVE) BY
TOTALS	1	ifference	1	<u> </u>	_ <u>_</u>		
		U Status				JUN 121	<u>a.</u>
		U Status	Contraction of the local division of the loc	+		Effective In July	Schellule
Revised Ap		/ C Diatus				Current ClassDeation	<u>, o</u>
				l		ABTESIA C	

Note: All gas volumes are in MCF @ 15.025 psia.

R. L. Stamets, Division Director

By ____

State of New Mexico Energy/Minerals Department مر به مرود وند وکار به ا

. 1 Dil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Gas Supplement Number: NW-SE-X8X AR-619

Date · 3-22-85

NOTICE OF ASSIGNMENT OF ALLOWABLE TO A GAS WELL

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The operator of the following well has complied with all the requirements of the Oil Conservation Division and the well is hereby assigned an allowable as shown below.

				the of Simot	111	or Allowable Change				
Date of	Connectio	$\frac{3-20}{3-20}$	85 Da	ite of first	Indian	Basin U/Penn				
Purchase	er <u>Mar</u>	athon Oil Co	<u> </u>	Poo		Ederal				
Operator	Rob	<u>ert N. Entie</u>	Id			Federal	Banga 23			
Well NO.	2		stter	e Sec	•	Difference				
	d Acreage			vised Acreage		Difference _	······································			
Acreage	Factor	90	Rev	vised Acreage	e factor	Difference				
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AxDFa		•	Rev	/ised A X D			;;;;;;;			
	w Connect F 18231 M		e	La A	Julian 1	OCD District	No			
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		CALC	ULATION (OF SUPPLEM	ENTAL ALLO	OWABLE				
		justments								
	N OF MO.	PREV. ALLOW.		PREV. PROD.	REV. PROD.	REMARKS				
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March	<u> </u>				1					
TOTALS						0.0.0	<u>}</u>			
Allowable		ion Differend				ARTESIA, OFF				
April		le O/U Statu								
Revised	Feb	0/U Stati	15			<u> </u>				
				Effective			chedule			
				Current Classification NC To N						

Note: All gas volumes are in MCF@15.025 psia.

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R. L. STAMETS, Division Director

By _

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NC. OF COPIES RECEIVED		DISERVATION COMMELLON	Form C-104
CANTA FE		FOR ALLOWABLE	Supervises Old C-101 and C-110 Effective 1-1-65
FILE LL		AND	
U.S.G.S.	AUTHORIZATION TO TRA	NSPORT OIL AND NATURAL GAS	1
LAND OFFICE			
IRANSPORTER GAS			
OPERATOR		RECEIVED BY	
PRORATION OFFICE		1004 00 1004	
Robert N. Enfield		NOV 29 1984	
Address D. 0401 Casta	NN 97501	O. C. D.	
P. O. Box 2431, Santa Reoson(s) for filing (Check proper bo		OtARTES Lase Cexplains	
tiew Well	Change in Transporter of:		
Recompletion	Oil Dry Gas		
Change in Ownership	Casinghead Gas Conden		
If change of ownership give name and address of previous owner			
DESCRIPTION OF WELL ANI	D LEASE Lease No. Well No. Fool Nar		(ind of Lease NM 0424859
Bunnel Federal Gas Co	m. 2 Indi	an Basin Upper Penn/Gas s	State, Federal cr Fee Federal
Location	South	330	East
Unit Letter	Pool Feet From The South	e and Feet From The	,
Line of Section 18 T	_{Cownship} 21 South _{Range}	23 East , NMFM,	Eddy County
	· · · · · · · · · · · · · · · · · · ·		
DESIGNATION OF TRANSPO	RTER OF OIL AND NATURAL GA	S Address (Give address to which approved	l copy of this form is to be sent)
Name of Authorized Transporter of C The Permian Corporati	on	1509 W. Wall, Midland, T	гх 79701
None of Authorized Transcorter of (Operator, Indian Basin G	Address (Give address to which approved	
Plant and Gathering	ystem Unit Sec. Twp. 'Ege.	P. O. Box 1324, Artesia	1
If well produces cil or liquids, give location of tanks.	Unit Sec. Twp. Ege.	No- Ville	2/15/84- 2-: 1-8-
	with that from any other lease or pool,	give commingling order number:	
If this production is commingred. COMPLETION DATA	Cil Well Gas Well	New Well Workover Deepen	Flug Back Same Res'v. Diff. Res'v.
Designate Type of Comple		X	
Date Spudded	Date Compl. Ready to Prod.	Totat Debut	P.B.T.D.
9/15/84	11/2/84	7600'	CIBP 7395'
Elevations (DF, RKB, RT, GR, etc. 4075.5 GR	Cisco Canyon	7229'	7288'
Perforations 7229' 31'	33'.		Depth Casing Shoe
47', 49', 51', 53', 6	57' 7273 84' 85' 86'		
	TUBING, CASING, AN CASING & TUBING SIZE	D CEMENTING RECORD	SACKS CEMENT
HOLE SIZE	13-3/8"	282'	375 Sx Class C
124"	8-5/8"	1622'	615 Sx Halliburton Ligh 450 Sx Halliburton Cl H
7-7/8"	4-1/2"	7288	
	COD ALLOWARLE (Tast must be	after recovery of total volume of load oil ar	nd must be equal to or exceed top allow-
OIL WELL		lepth or be for full 24 hours) Producing Method (Flow, pump, gas lift,	, etc.)
Date First New Oil Run To Tanks	Date of Test	Producing Komod (1 100), party 2	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Fendin of Logi		Water-Bbis.	Gcs - MCF
Actual Prod. During Test	Oil-Bbls.	Water-Bo.B.	
GAS WELL			Gravity of Condensate
Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Granity of Condensate
4260 Testing Mothed (pitot, back pr.)	1 hr Tubing Pressure	Casing Pressure	Choke Size
back pr.	1182	Packer	17/64"
1. CERTIFICATE OF COMPLI	ANCE		TION COMMISSION
		APPROVED	, 19
	ind regulations of the Oil Conservation ed with and that the information giver	n	
above is true and complete to	the best of my knowledge and belief		
()	TITLE	
RILL	'llon		compliance with RULE 1104.
Naberth, Gr	Lell	If this is a request for allow well, this form must be accompar	able for a newly drilled or deepened hied by a tabulation of the deviation dence with BULE 111.
Robert R. Bhrierd	Signature)	tasts taken on the well in account	dance with RULE 111. st be filled out completely for allow-
Operator	(Title)	i oble on new and recompleted we	118.
		Fill out only Sections I, II	, III, and VI for changes of owner,
11/27/84		I wall same or number. Of transport	
11/27/84	(Date)	I wall same or number. Of transport	t be filed for each pool in multiply

OIL CONSERVATION DIVISION DRAWER DD ARTESIA, NEW MEXICO

NOTICE OF GAS CONNECTION

DATE March 20, 1985

This is to notify the Oil Conservation Division that connection for the purchase Robert N. Enfield of gas from the <u>Marathon Oil Company</u>, <u>Bunnel Fed. Gas Com No. 2</u> Operator Lease <u>P</u>, <u>18 - 21S - 23E</u>, <u>Upper Penn</u>, <u>COMPANY OF AMERICA</u>, Well Unit S. T. R. Pool NATURAL GAS PIPELINE was made on <u>March 20, 1985</u>. (Marathon Oil Company is operator of the Indian Basin Gas Plant and gathering system. Natural Gas Pipeline Company of America is purchaser of the gas under contracts providing for delivery of processed gas at the plant.)

MARATHON OIL COMPANY, Operator of the Indian Basin Gas Plant and Gathering System.

Representative - Plant Supt.

Г	RECEIVED BY
	MAR 201985
	O. C. D. ARTESIA, OFFICE
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cc: To Operator Oil Conservation Division - Santa Fe, N.M.

	Form Approved.
	Budget Bureau No. 42-R1424
UNITED STATES	5. LEASE NM-0424859
O. C. D. GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
ARTESIA OFFICE	7. UNIT AGREEMENT NAME
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9–331–C for such proposals.)	8. FARM OR LEASE NAME
1. oil gas well well well other	9. WELL NO.
2. NAME OF OPERATOR Robert N. Enfield	10. FIELD OR WILDCAT NAME
3. ADDRESS OF OPERATOR P.O. Box 2431, Santa Fe, NM 87501	Indian Basin Upper Penn 777 11. SEC., T., R., M., OR BLK. AND SURVEY OR
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	AREA Sec. 18, T21S, R23E
below.) AT SURFACE200' FSL & 330' FEL of Sec. 18 AT TOP PROD. INTERVAL:	12. COUNTY OR PARISH 13. STATE Eddy
AT TOTAL DEPTH:	14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD)
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	4075.5 GL
FRACTURE TREAT	
REPAIR WELL PULL OR ALTER CASING	(NOTE: Report results of multiple completion or zone change on Form 9–330.)
CHANGE ZONES	
(other) FULL COMPLETION X PAGE!	
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state including estimated date of starting any proposed work. If well is di measured and true vertical depths for all markers and zones pertinen	irectionally drilled, give subsurface locations and
10/18/84: Rigged up Mack Chase pulling unit.	
10/19/84: Spot 250 gal. 15% HCL w/additives. Close b 10/20/84: Ran GR cement bond log from 7541' to top c shots at 7407',08', 09', 10', 15', 16', 17 holes. Swabbed & recovered all load.	of cement at; 5786', Perforated 8
10/21/84: 12 hr SITP 550 PSI, swabbed 18 bls of flui pressure buildup. After 15" SIP 30 PSIG,	
10/22/84: 17 hr. SITP 650 PSI. Swabbed formation wa	iter.
10/23/84: Set CIBP at 7395' w/35' cement on top. Spc	ot 500 gal 15% acid w/additives.
10/24/84: Perforated w/Ultra shot gun 0.33 hole 1 sh 49', 51', 53', 67', 69', 73', 75', 84', 85	101/11. at 7229 5 31 5 33 5 47 5
set at 7188'. Hole took 108 bls fluid befo	pre setting packer. Swabbed,
recovered 52 bls. load.	
Subsurface Safety Valve: Manu. and Type	Set @ Ft.
18. I hereby certify that the foregoing is true and correct	
SIGNED CART UT TITLE Operator	DATE12/26/84
Robert CR. TENE FOR RECORD (This space for Federal or State offi	
APPROVED BY TITLE TITLE	DATE
(intal #2, MEW MEXICO +See Instructions on Reverse S	
(and at) DEW DEALCO +See Instructions on Reverse S	ide

c/SF.

form 9–33		Form Approved. Budget Bureau No. 42-R1424
Dec. 1973	UNITED STATES DEPARTMENT OF THE INTERIOR	5. LEASE NM-0424859
	GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUN	NDRY NOTICES AND REPORTS ON WELLS set this form for proposals to drill or to deepen or plug back to a different	7. UNIT AGREEMENT NAME
reservoir.		8. FARM OR LEASE NAME Bunnel Federal
well	Generation de la constant de la cons	9. WELL NO. 41-02-11 10-02-12 2 9. 02-02-12 10-02-12
	N. Enfield	10. FIELD OR WILDCAT NAME Indian Basin Upper Penn
	RESS OF OPERATOR Fe, NM 87501	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
h al a	ATION OF WELL (REPORT LOCATION CLEARLY. See space 17	Sec. 18, T21S, R23E
AT AT	surfade200' FSL & 330' FEL of Sec. 18 TOP PROD. INTERVAL:	12. COUNTY OR PARISH Eddy
	TOTAL DEPTH: CK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	14. API NO. 문제품 문 호 호 화 등 등 고 전문 문 전 문 문 전 문 문 문
	ORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD) 4075.5 GL
-	T FOR APPROVAL TO: SUBSEQUENT REPORT OF:	
	ATER SHUT-OFF	· · · · · · · · · · · · · · · · · · ·
		(NOTE: Report results of multiple completion or zone
REPAIR PULL O	R ALTER CASING	change on Form 9–330.) :-
		· · · · · · · · · · · · · · · · · · ·
(other)	FULL COMPLETION X - PAGE 2	
incl me	SCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly stat luding estimated date of starting any proposed work. If well is d asured and true vertical depths for all markers and zones pertiner	nt to this work.)*
25/84:	Swabbed-well kicked off & flowed, 1/2" cho 750 MCF. Recovered all load. Treated from HCL, treated 7267'-75' w/1000 gal 15% HCL, gal 15% HCL, treated 7229'-33' w/1000 gal.	treated 7247'-53' w/100
	recovered 10 bls.	이 아이
26/84:	Made 37 swab runs, recovered 144 bls, good	I kick on last 13 runs.
27/84:	13 hr. SITP 280 PSI. Swabbed, at 12:00 no choke w/200 PSIG, At 12 midnight 180 PSI o	on, flowing to pit on 3/4" on 3/4" on 3/4" on 3/4" choke, est. 2550
28/84:	MCF/day, mist Flowing to pit, 6:00 AM 188 PSI on 3/4" ch	noke, est. 2900 MCF/day - dry_
	gas. SI for pressure build up. In 15 min hrs. 1350 PSI.	
		는 H 의 문 프로그램 이 가지 않는 것이다. 이 제품은 프로그램은 가지 않는 것이다.
Subsur	face Safety Valve: Manu. and Type	Set @ Ft
18. h	erepy certify that the foregoing is true and correct	
SIGNED	Poport N Enfield	date 12/26/84
	(This space for Federal or State of	fice use) The second seco
APPROV	ED BY TITLE	DATE
CONDITI	ONS OF APPROVAL, IF ANY:	
		· 소송되는 · · · · · · · · · · · · · · · · · · ·

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*See Instructions on Reverse Side

- Form 9–331 Dec. 1973	Form Approved. Budget Bureau No. 42–R1424
UNITED STATES DEPARTMENT OF THE INTERIOR	5. LEASE NM-0424859
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different	7. UNIT AGREEMENT NAME
reservoir. Use Form 9-331-C for such proposats.)	8. FARM OR LEASE NAME Bunnel Federal
1. oil gas well ⊠ other 2. NAME OF OPERATOR ✓	9. WELL NO. 512 - 113
Robert N. Enfield 🖌	10. FIELD OR WILDCAT NAME
3. ADDRESS OF OPERATOR P.O. Box 2431, Santa Fe, NM 87501	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)	Sec. 18, T215, R23E
AT SURFACE200' FSL & 330' FEL of Sec. 18 AT TOP PROD. INTERVAL:	12. COUNTY OR PARISH Eddy
AT TOTAL DEPTH: 16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	14. API NO.
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD) 4075.5 GL
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF: TEST WATER SHUT-OFF FRACTURE TREAT	
SHOOT OR ACIDIZE	(NOTE: Report results of multiple completion or zone change on Form 9–330.)
PULL OR ALTER CASING U U MULTIPLE COMPLETE U U CHANGE ZONES U U	
ABANDON* (other) FULL COMPLETION X - PAGE 3	
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly stat	irectionally drilled, give subsurface locations and
measured and true vertical depths for all markers and zones pertiner 10/29/84: 24 hr. SITP 1400 PSIG. GIH w/Baker Loc-se 10/30/84: Well flowing, at 5:00 PM 900 PSI on 1/4" of	et packer, set at 7212'.
10/31/84: Flow to pit for 3 hrs, stabilized at 350 F MCF/day.	-SI on 1/2" choke, est. 2300
11/1/84: Treated well w/10,000 gal. 70 quality 20% SCF nitrogen.	
11/2/84: Flowed for 2 hrs. 1100 PSI on 1/4" choke, 11/14/84: Ran 4 point test and BHP bomb	estimated 1600 MCF/day
Subsurface Safety Valve: Manu. and Type	Set @ Ft.
18. I hereby certify that the foregoing is true and correct	는 독자 원이 있는 것 같이 가져준다. 이 이 고려와 이 이 것 같이 가지?
SIGNED AMA MARCA TITLEPerator	DATE 12/26/84
Robert N. Enfield (This space for Federal or State off	fice use)
APPROVED BY TITLE CONDITIONS OF APPROVAL, IF ANY:	
	가 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가
the last stime of Beyers	한테르크 & 공료로 -

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*See Instructions on Reverse Side

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SI	Sir-			,		<u> </u>		140		+		18.		
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2.	<u>3.07 X</u>			230.			<u>76.</u>	136				79. 24.	9/64 14/64	
3. A	<u>3.07 ×</u> 3.07 ×			235.	49		<u>84.</u> 79.	129 118				48.	17/64	
5.										<u> </u>				Ľ
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3	21.3		110		248		0.	9777	1	.2539	1.	0191	2	937
4	21.3	2	159	.11	248	3.2	0.	9822	11	.2539	$-\frac{1}{1}$	0198		260
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3.	0.36	<u>536</u> 544			0.961		ecific Gravity Flowing Fluid X Itical Processore 669.		_Z X X X P.6.1.A.					
4	0.37	539			0,962	Critic	al Temper	alure	3	61.		I	361	
<u>5 </u>	1440.8	$\frac{1}{r_c^2 - 20}$	176	l_		l	-				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
10	P12	Pw		2	$r_{2}^{2} - r_{2}^{2}$ 45.	0.	Pc*	• 5_	. 479	0	(2)	n.²	-]" . 4. Post #1 Post #1 Eomp	2.79
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	lute Open Fi		1	8231.				15.025	Angle	of Slope 🔂 .	49	1.5	Slope, n	0.3
A158-0		BOTT	OM HOLI	E PRES	SURES N	1EASU	JRED WI	TH AME	RADA	PRESSU	RE ELE	MENTS		
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BENNETT & CATHEY PRODUC' N TESTING 2987 **BACK PRESSURE CURVE** Operator ROBERT ENFIELD LEASE BUNNEL Fecturene Well No. 2 Location____ 18 215 28E Field 855 Angle of Slope 49,5 _Slope "n"_ 18,231.0 Calc. Abs. Potential_ 10 9 7 4 In Thousands 46 7400 Ъ<u>v</u> ŝ ł 2 Po Do ۰ċ ∼£ 6 ° o Bo AP? Pc2-Pu 4 ¥ 3 Q 2 LOGARITHMIC 3 X 3 CYCLES ' KEUFFEL & ESSER CO. MADE IN U.2.A CAOF 18,231.0 10 Э 8 7 ō 5 $\int_{e}^{2} \int_{\mu}^{2}$ 6 AP3 A 3 Q_2 2 5 6 7 8 9 10 3 4 5 6 7 8 9 10 2 $\overline{AP_{1}^{2}} PC^{2} - Pw^{2} = 400$ Q In MCF/Day LOG Q = 3.654 $\overline{\Delta P_{1}^{2}} P C^{2} - P W^{2} = \underline{40}$ LOG G1= 2,799 $Q_1 = \frac{4508}{1.30}$ ri = ,855