NO. OF COPIES RECI	6		
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SANTA FE	1		
FILE		4	
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LAND OFFICE			
TRANSPORTER	OIL	1	
TRANSFORTER	GAS	1	
OPERATOR	ス		
PRORATION OF			

NEW MEXICO OIL CONSERVATION COMMISSION REQUEST FOR ALLOWABLE

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65

	FILE		$\perp \! \! \perp$	1				AND				
	U.S.G.S.		↓		AUTH	HORIZATIO	N TO TRA	NSPORT	OIL AND	NATURAL (GAS	
	LAND OFFICE		 -	\vdash								
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	OPERATOR		<i>↓ス</i>									
I.	PRORATION OF Operator	FICE	_i									
	El Paso Na	tural	Gas	Com	pany							
	Address											
	Box 990, Fo	ermin	gton	, Ne	w Mexic	0						
	Reason(s) for filing	(Check	proper	box)					Other (Pleas	e explain)		
	New Well	^			Change	in Transporte	r of:					
	Recompletion				Oil		Dry Go	ıs 🔲				
	Change in Ownershi	ip[Casingh	head Gas 🔲	Conde	nsate 🗌				
		-				1.5.0						
	If change of owner and address of pre-											
	ana addices of pro											
II.	DESCRIPTION C	OF WEI	LL A	ND LE	EASE		7121			Kind of Leas		Lease No.
	Lease Name				!	o. Fool Name	Planco		a cliff	State, Federa		Lease No.
	Hardie E				5	I Tig	tev .			5,4,6,		
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	Unit Letter		- i —		Feet F	rom The		ne and		Feet From	The	
		16			28-1	4	Panao	8-w	, NMPI	, San	Juan	County
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	Name of Authorized	Transpo	orter c	f Oil	or or	Condensate	A	Address	(Give address	to which appro	ved copy of this for	rm is to be sent)
	El Paso Na							Вох	990, Fa	rmington,	New Mexico	
	Name of Authorized	Transpo	orter o	f Casin	ghead Gas	or Dry	Gas 🌋	1			ved copy of this for	rm is to be sent)
	El Paso Na	tural	Gas	Com	pany v		· .				New Mexico	
	If well produces oil	or liqui	ds,	1.	Jnit Se	ec. Twp.	Rge.	Is gas ac	tually connec	ted? Wh	ien	
	give location of tan				E	16 28	en Sw			, .		
	If this production i	is comm	ingle	d with	that from	any other lea	ase or pool,	give com	ningling ord	er number:		
V.	COMPLETION D										Plug Back San	ne Res'v. Diff. Res'v.
	Designate Ty	ne of (Comp	letion	-(X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Buck Sun	ne nes v.
		pc or c				<u> </u>	X	X			F.B.T.D.	
	Date Spudded			,	7-19-66	.Ready to Pro	oa.	Total De			F.B.11.D.	
	6-13-66	/B - B - B					No.	Top On/		<u> </u>	Tubing Depth	
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EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE	 July	1.9,	1.966_

Operator El Paso Natural Gas	Company	Hardie "E" No. 5			
Location 1780'N, 990'W, Sect	ion 16, T-28-N, R-8-W	County San Juan	State New Mexico		
Formation Pict	ured Cliffs	Pool South Blanco			
Casing: Diameter 2.875	Set At: Feet 2518	Tubing: Diameter No Tubing	Set At: Feet		
Pay Zone: From 2380	т . 2426	Total Depth: 2525	Shut In 7-11-66		
Stimulation Method Sand Wate	r Frac	Flow Through Casing	Flow Through Tubing		

Choke Size, Inches	Cho	Choke Constant: C						
•750		12.365		Tubingless Completion				
Shut-In Pressure, Casing, P	IG + 1	2 = PSIA 832	Days Shut-In 8	Shut-In Pressure, Tubing P	SIG	+ 12 = PSIA	-	
Flowing Pressure: P P	IG + 1	2 = PSIA 24	1.	Working Pressure: Pw P:	SIG	+ 12 = PSIA 50		
Temperature: T= 62 +F Ft=+998	n =	.85		Fpv (From Tables)		Gravity •650	Fg = .960	— 08

CHOKE VOLUME = Q = C x P, x F, x F_g x F_{pv}

$$Q = (12.365) (41) (.9981) (.9608) (1.004) = 488 \qquad MCF/D$$

OPEN FLOW = Aof = Q
$$\begin{pmatrix} & & & \\ & \frac{P_c}{P_c} & \\ & P_c & P_w \end{pmatrix}$$

Aof =
$$\begin{pmatrix} \frac{692,224}{689,724} \end{pmatrix}$$
 = (488) (1.0036)*85 = (488) (1.0030)

NOTE: Well blew dry gas throughout the test.

TESTED BY ____ Hermon E. McAnally

CHECKED WITNESSECKBY Tom B. Grant

JUL 21 1966

OIL CON. COM.

Form 9-331 (May 1963)	UNITED STATES	SUBMIT IN TRIPLICATE*	Form approved. Budget Bureau No. 42-R1424.
(,	DEPARTMENT OF THE INTER	IOR verse side)	5. LEASE DESIGNATION AND SERIAL NO.
	GEOLOGICAL SURVEY		SF 078499
	IDRY NOTICES AND REPORTS (form for proposals to drill or to deepen or plug Use "APPLICATION FOR PERMIT—" for such p		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
OIL GAS WELL WELL	Y OTHER		7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR			8. FARM OR LEASE NAME
El Paso Ne	atural Gas Company		Hardie E
3. ADDRESS OF OPERATOR			9. WELL NO.
Box 990, 1	Farmington, New Mexico		
4. LOCATION OF WELL (I See also space 17 bel At surface	Report location clearly and in accordance with any ow.)	State requirements.*	10. FIELD AND POOL, OR WILDCAT
1780' n, 99	90'W		11. SEC., T., B., M., OR RLE. AND SURVEY OR AREA
			See. 16, T-28-N, R-8-W N.N.P.M.
14. PERMIT NO.	15. ELEVATIONS (Show whether D	F, RT, GR, etc.)	12, COUNTY OF PARISH 13. STATE
	5954 ' GL		See Juan Hew Mexico
16.	Check Appropriate Box To Indicate N	Nature of Notice, Report, or O	ther Data
:	NOTICE OF INTENTION TO:	SUBSEQUI	ENT REPORT OF:
TEST WATER SHUT-O	FF PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CARING
SHOOT OR ACIDIZE	ABANDON*	SHOOTING OR ACIDIZING	ABANDON MENT*
REPAIR WELL	CHANGE PLANS	(Other)	The state of the s
(Other)		(Note: Report results of Completion or Recomple	of multiple completion on Well tion Report and Log form.)
17. DESCRIBE PROPOSED OF proposed work, If nent to this work.)	R COMPLETED OPERATIONS (Clearly state all pertines well is directionally drilled, give subsurface locs	nt details, and give pertinent dates, i tions and measured and true vertical	including estimated date of starting any depths for all markers and zones perti-
sand, 26,6 tr. pr. 21	5 perf. Pictured Cliffs 2380-9 528 gal. water w/4# FR-2/1.000 1.00-2200-2500#, dropped 1 set Lushed w/630 gal. water. ISII	gal. Max. pr. 4000/, of 30 balls and 1 set	RDF 1600#, of 20 balls. I.R.

		JUL	L 1966 1 OGICAL SURVEY	JUL 5 1966 OIL CON. CON. DIST. 3
18. I hereby certify that the foregoing is true and correct Original signed by SIGNED Carl E. Mothews		roleum Engineer	DATE 7-1	-66
(This space for Federal or State office use) APPROVED BY CONDITIONS OF APPROVAL, IF ANY:	TITLE		DATE	

Form 9-331 (May 1963)	UNITED STATES SUBMIT IN TRIE	
(May 1305)	DEPARTMENT OF THE INTERIOR (Other instruction verse side)	5. LEASE DESIGNATION AND SERIAL NO.
	GEOLOGICAL SURVEY	SF 078499
	SUNDRY NOTICES AND REPORTS ON WELLS e this form for proposals to drill or to deepen or plug back to a different reserve Use "APPLICATION FOR PERMIT—" for such proposals.)	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	AS ELL TOTHER	7. UNIT AGREDMENT NAME
2. NAME OF OPERAT	TOR	8. FARM OR LEASE NAME
El Paso	Hatural Gas Company	Rardie E
3. ADDRESS OF OPE	GRATOR	9. WELL NO.
Box 990,	Parmington, New Mexico	5
	ELL (Report location clearly and in accordance with any State requirements.*	10. FIRED AND POOL, OR WILDCAT
1780' H,	990' ¥	11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA SEC. 16, T-25-N, R-8-W N.M.P.M.
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY OR PARISH 13. STATE
	5954 CL	Box Juan New Mexico
16.	Check Appropriate Box To Indicate Nature of Notice, Rep	port, or Other Data
	NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:

(Other)

(Note: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. Describe Proposed or completed operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

WATER SHUT-OFF

(Other) _

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

On 6-21-66: Total depth 2519'. Ran 81 joints 2 7/8", 6.4#, N-80 casing, 2507.87' set at 2518.87' v/300 secks 50/50 posmix and class "C" cement, 2% gal.

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

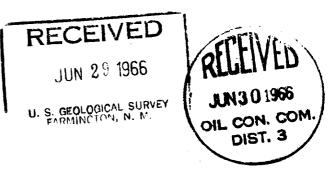
CHANGE PLANS

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL



REPAIRING WELL

ALTERING CASING

ABANDONMENT*

8. I hereby certify that the foregoing is true and correct signed by. SIGNED Carl E. Matthews	TITLE Petroleum Engineer	DATE JAME 24,1966
(This space for Federal or State office use)		
APPROVED BY	TITLE	DATE

Inited livy Feet

NEW MEXICO OIL CONSERVATION COMMISSION

GAS WELL TEST DATA SHEET - SAN JUAN BASIN

Pool	AZTEC	Formation	PC_		County	SJ
Well Name	HARDIE E 45				-	
UnitE_s]	<u>16 t 23</u> R 8 Pay Zone	<u>2380</u> to <u>2</u>	426	Flow String	CASING	
Casing O D	2 • 375 ID 2 • 441 Set at	2519_	Tubing O D_	NONE ID	\\	Top Perf.
	PASO NATURAL GAS CO					
Pd: % Of	Pc Comm. Designated Pc, psia		Period Of Tes	st Flow	SIE	^o Measured
80	Fr	-om13-23-	66 To	10-31-66		7-19-66
	Deadweight Flor	wing Pressure, psia			Flowin	g Pressure, psia
Casing	(a) 1	ubing	(b)	Meter((c) Chart	(d)
	Deadweight Shu	t-In Pressures, psia		Meter Error		Friction Loss
Casing	<u> — მხ6</u> (J)	ubing	(k)	0008	e)	<u>_</u>
	7 Day-Avg. Flow	ving Pres., psia				
Chart	<u>497</u> (g) Cor	rected4	9 7 _(h)	Pt <u>497</u> (i) Gravity	•655
G. l. =	15591-e **	• 13	<u>.7</u>	F _c 5.551	(F _c Q) ²	<u>.315</u>
(1-e ^{-s})	$(F_cQ)^2 = R^2 = 34$	P ;	<u> 2470</u>	09	P 3 = U	SE PT2
Q =	$\frac{1 \cdot (1)}{\text{(integrated)}} \text{X} \boxed{\sqrt{\frac{(c)}{(d)}}}$	1.00	900 =	1.0000	=	101
D=Q	$\frac{1 \cdot 1}{(P^2 - P)} \times \begin{bmatrix} \frac{(P^2 - P)}{(P^2 - P)} \end{bmatrix}$	$\begin{bmatrix} \frac{2}{d} \\ \frac{2}{d} \end{bmatrix} = \begin{bmatrix} 263 \\ 485 \end{bmatrix}$	511 727	(•5425) ⁿ •5946	=	66

REMARKS

New Well First Delivered 9-23-66.



SUMMARY

$$P_c = \frac{856}{}$$
 $Q = \frac{101}{}$

$$P_{W} = \frac{497}{685}$$

$$P_{d} = \frac{685}{66}$$

By H.L. KENDRICK
AREA GAS WELL TEST ENGINEER

Witnessed By

Company

NEW MEXICO OIL CONSERVATION COMMISSION

GAS WELL TEST DATA SHEET - SAN JUAN BASIN

Pool	Aztec	Formatio	n Picta	red CLIFF	Co	ountySJ
Well NameH	ardie E No. 5				75432	
Unit_E s_16	_T_28_R_8_ Pay Z	one 2 <u>3</u> 80 To_	2426	Flow String_	CASING	·
Casing O D 2.	875 ID 2.44	1_Set at <u>2519</u>	Tubing O	NONE 1)	_LTop Perf
Operator	EL PASO NATURAL	GAS COMPANY	Purchasing F	ipeline <u>FIL PA</u>	SO NATURAL	GAS COMPANY
Pd: % Of Pc	Comm. Designate	ed Pc, psia	Period Of Te	est Flow		SIP Measured
80		_ From		то. <u>10-31-</u>	66	7-19-66
	Deadw	eight Flowing Pressure	e, psia			Flowing Pressure, psi
Casing	(a)	Tubing	(b)	Meter	(c)	Chart(c
	Deadw	eight Shut-In Pressure	s, psia	Mete	r Error	Friction Loss
Casing	<u>832</u> (J)	Tubing	(k)	000)+ _(e)	0(i
	7 Day-	Avg. Flowing Pres., p	sia	/		
Chart	497 (g)	Corrected	497 (h)	P+ 149	7 (i)	Gravity <u>655</u>
						•
G. L. =	<u> 1559</u>	1-e -s = .1 (07	Fc 5•55 .	L (F _c (31.5
(1-e-s) (F _c	$_{c}Q)^{2}=R^{2}=$	34	P,² =	247009	P	= USE P 2
	Γ. /			- 000	_ 7	
Q =	101 (integrated) x	(c) (d)	1.0000	= 1.000	<u> </u>	101
	L	·			_	
D=Q	x \[\begin{align*} \(\frac{0}{0} \end{align*} \]	$P_c^2 - P_d^2$	248668/	(•5585		62 /
	[($P_c^2 - P_w^2$	445215	- <u>.6096</u>		
REMA	ARKS					
	New Well First D	elivered 9-23	- 66 .			
	CORRECTED COPY				OFFEIL O	
			iC		ALLIVE TO SELECTION OF THE SECTION O	$\langle y \rangle$
		Č	TIC	Qu d	102 4 1967 CON CON	~)
					COM COM	ı./
	MARY					
	=832		Company _	EL JASO NAT	VAL GAS	COMPANY
	= 101		Ву	f. L. Kendr	ick	ney
	= 497/		Title _	Regional We	ll Test Er	gineer
P _d =	666		Witnessed By _			
D :	=62/	<u> </u>	Company _			
						1