	8/24/00 SUSPENSE 9/13/00 ENGINEER DC LOOGED KN THE DHC
	ABOVE THIS LINE FOR DIVISION USE ONLY 23826440 NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau -
	ADMINISTRATIVE APPLICATION COVERSHEET
	THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS
Applic	ation Acronyms: [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1]	TYPE OF APPLICATION - Check Those Which Apply for [A]
	[A] Location - Spacing Unit - Directional Drilling NSL NSP DD SD
-	Check One Only for [B] and [C] [B] Commingling - Storage - Measurement X DHC CTB PLC PC OLS OLM
	[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR
[2]	NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply [A] X Working, Royalty or Overriding Royalty Interest Owners
	[B] Offset Operators, Leaseholders or Surface Owner
	[C] Application is One Which Requires Published Legal Notice
	[D] XNotification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
	[E] For all of the above, Proof of Notification or Publication is Attached, and/or,
	[F] Waivers are Attached
[3]	INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding
I her	eby certify that I, or personnel under my supervision, have read and complied with all applicable Rules an

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statemen) must be completed by an individual with supervisory capacity.

Signature

Regulatory/Compliance Administrator

Print or Type Name

Peggy Cole

District I 1625 N. French Drive, Hobbs, NM 88240

District II 811 South First Street, A

. 4

District III 1000 Rio Brazos Road, Aztec, NM 87410

District IV

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

Form C-107A Revised May 15, 2000

### **OIL CONSERVATION DIVISION**

APPLICATION TYPE \_X\_Single Well \_Establish Pre-Approved Pools EXISTING WELLBORE \_\_X\_Yes \_\_\_No

2040 South Pacheco,	Santa Fe	, NM	87505	

sia. NM 88210

### 2040 South Pacheco Santa Fe, New Mexico 87505

APPLICATION FOR DOWNHOLE COMMINGLING

Burlington Resources Oil and Operator	Gas3401 East 30 <sup>th</sup> Street, F Add		
Fifield	4AN-2 Well No Unit Letter-5	1 – 30N – 11WSan Section-Township-Range	Juan County, New Mexico_ County
	v Code7017 API No30		
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Wildcat Chacra		Blanco Mesaverde
Pool Code			72319
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2942 – 3588'		4075 – 4785'
Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	643 psia (Original pressure in the Cooper #11)		1229 psia (From original SI wellhead pressure recorded 7/21/97)
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1196 MMBTU/MMCF (Cooper #11)		1245 MMBTU/MMCF
Producing, Shut-In or New Zone	New Zone		Producing
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: No Prior Production Rates: 75 MCF/D 0 BCPD	Date: Rates:	Date: April 2000 Rates: 174.6 MCF/D 0.0 BCPD
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas Supplied Upon Completion	Oil Gas % %	Oil Gas Supplied Upon Completion

### **ADDITIONAL DATA**

Are all working, royalty and overriding royalty interests identical in all commingled zones?	Yes	NoX	
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?	Yes	XNo	
Notified 8-1-00. No objections were received.			
Are all produced fluids from all commingled zones compatible with each other?	Yes	_XNo	
Will commingling decrease the value of production?	Yes	NoX_	
If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application?	Yes	_ <b>X</b> No	
NMOCD Reference Case No. applicable to this well:			

#### Attachments:

C-102 for each zone to be commingled showing its spacing unit and acreage dedication. Production curve for each zone for at least one year. (If not available, attach explanation.)

For zones with no production history, estimated production rates and supporting data.

Data to support allocation method or formula.

Notification list of working, royalty and overriding royalty interests for uncommon interest cases.

Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools List of all operators within the proposed Pre-Approved Pools Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application. Bottomhole pressure data.

I hereby certify that the information above is true and complete to	the best of my knowledge and belief.
SIGNATURE J. Jon Jove TITLE	Production Engineer DATE 7/31/00
nco	
TYPE OR PRINT NAME Lafell Thomas Loveland	TELEPHONE NO. ( 505 ) 326 - 9700

# FIFIELD #4A WELL UNIT N (SESW), SECTION 21, T30N, R11W SAN JUAN CO, NEW MEXICO

	TD.1394	TOC-ROCKY(P) NM7076D)	(P) 4 (P) *	MOKD) NN 742 (MD) 
Sinnons(P) Montgonery(D)	Aztec Con 20)	Gansales Aztec	NM 4105 5E M	4755 p-p8
3HKEYESP) SW. PRODOJ	MESA I	2 State C Con-349 16 DJ NM 7047 4 97 State NESA (P)	CONOCO 5 CONOCO	5 <u>2 39.12</u> 4 40.12 <u>3 39.91</u>
		State Con. CTP) + 17 NM 7047 NM 666661		5 ⊕ <sup>5</sup> → + + + + + + + + + + + + + + + + + + +
hce(P) arrond Smnons(D) TD. Taylor(P) TD. Taylor(P) 810 Taylor(Can.64)	TD 77    1017    State Con T19	.97	Bruington(P,MD) 6 41.31 17 4110	Morris 'A 1PM0 Dunp Mesa Fed.(D)
0CH_1D.1 3 38.59 2 38.53 1 38.73 KOCH EXPL. 2 XP. 484 ↓ (P) ★ Com/s/P	NM E NM 4752 701 E 1 71		NM 644 NM 711 IP 31 M	NN 4751 NN 4751 OID) <sup>(P)</sup> IAA
NM 712 4 39,00 5 39,20 NM 742	Fielfield BruingtonOc	AMOCO Brungton GasCon(P)	NM 712 Fulle	PPB
NM 649 NM 712(P) 6 39.76 NM 742 D) R Bruington(P) R				22 # 742P Ma 至TAO1   18
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	4 PC-PB 44 <sup>20,47</sup> 1,74 Norths A 197	2 LloydD1019 = D) 2 37.88	Morris W Enott	NM 700 ns:A1P) :A1Con:040 FederatO)
NM 712 2 39,62 1 40,05 NM 742(P) EP. 2 (D) √arrts'A' → T.D.2159	NM 710 3 39.3 NM 746 3 VT F-P	'2 39,62 '1 39,86 M 742(F,P) (D) 6 A →24-	3 39.7. 3 № 72 4 39.79	
(P) -3 39.63 4 39.88 5 NM NM 732 4584 P-PB	4 39.31 13R Morris'A'(F_P)	FC-PB	Murphy DOP	+ + & kurphy/C1Mi TederallA1Di Murphy/C1Pi
29 5 39.80 NM 742 1 520 TD	11 39,49 10 39,74 NM 733	28 6 3910 +7 40.04 9 3999 8 40.22	5 39.79 6 39.73 12 39.80 11 39.74 Murphy Crap BET	$-27 \frac{7}{10} \frac{39.68}{39.69} + \frac{8}{9} \frac{39.63}{39.64}$ 730 PM0 AD1
Joseph 201         Joseph 201           39.84         NN 643           Bruington (P)         Morris'/A 1(P)           Bruington 29(D)         Sancha Fed (D)           1         39.71         8 39.66         9 39.52	4 Morris(P) TD2334 Federar(C(D) 12 39.67 13 39.92	+ 1 + 5 0.40 Federat9(0)	B 2 H	
FRUITLAND SAND WELL	MESAVERDE WEL	.L		
FRUITLAND COAL WELL	BAKOTA WELL		FIFIELD #	4A WELL

District I PO Box 1980. Hobbs, NM 88241-1980 District II PO Drawer DD. Artesia. NM 88211-0719 District III 1000 Rio Brazos Rd., Aztec. NM 87410 District IV PO Box

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

### OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

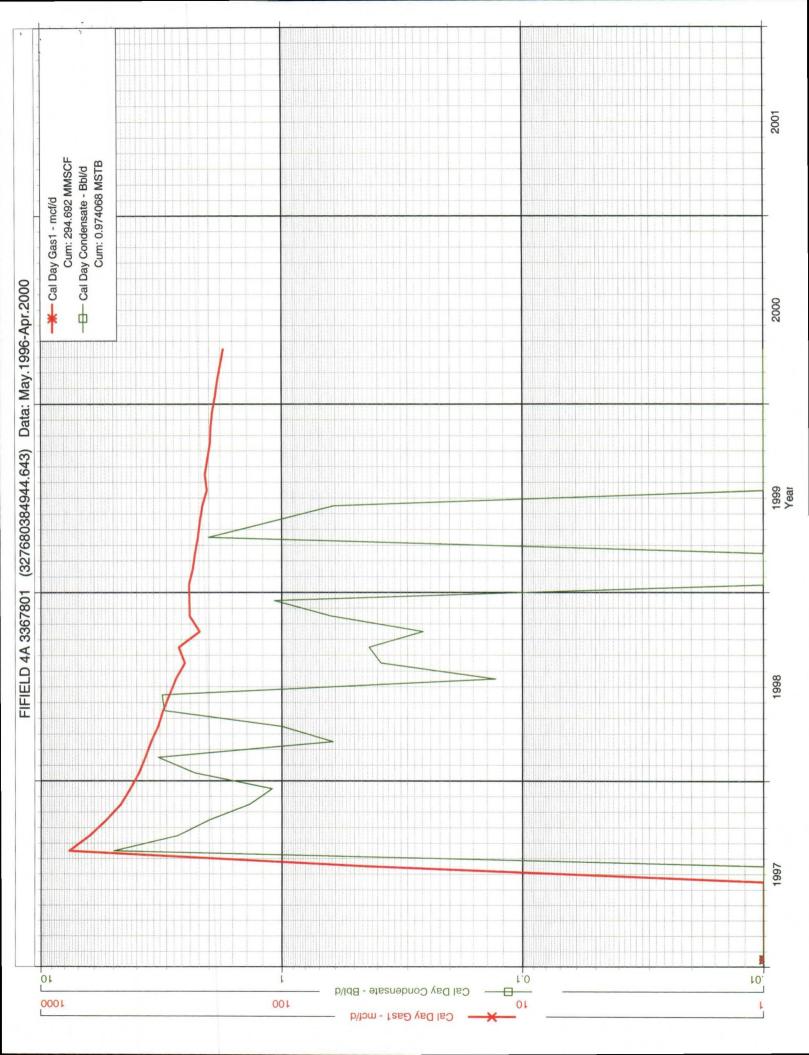
Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

t IV z 2088. Santa Fc. NM 87504	<b>2088</b>	
	WELL LOCATIO	N AND ACREAGE DEI
<sup>•</sup> API Number 0-045-29438	* Pool Co 72319/	de Blanco Mes
* Property Code		' Property Name
017		Fifield
' OGRID No.		' Operator Name
4538	BURLINGTON	RESOURCES OIL & GA
		<sup>10</sup> Surface Location

#### DICATION PLAT

API Number 'Pool Code 30-045-29438 72319/						Pool Nume						
		8	123		Blanco Mesaverde/WC:30N11W21 Chacra							
* Property	Code									Well Number		
7017 Fifield												4A
' <b>ogrid</b> 14538	No.			CHON	- •		Name OIL & GAS	00	<b>184 T1 7 NT 17</b>			'Elevation 5811 '
	1		URLIN	GTON				<u> </u>				5611
		*			" Sur	face	Location					
UL or lot no.	Section	Township	Range	الما اما			North/South line	1	et from the	East/West		County
N	21	30-N	<u>11-W</u>		990		South	1	460	Wes	st	S.J.
<sup>11</sup> Bottom Hole Location If Different From Surface												
UL or lot no.	Section	Toweship	Range	Lot Ide	n Feet from	the	North/South line	Fo	et from the	East/West	üDe	County
<sup>11</sup> Dedicated Ac		or infill   " C	onsolidation	a Code	<sup>18</sup> Order No.							
SW/15854					. <del></del>							
NO ALLO	WABLE						ON UNTIL ALL EEN APPROVED				EN CO	NSOLIDATED
16				51.0							CED	TIFICATION
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N									Date	<u></u>	<u> </u>	
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		066 SF	78138						6857		$\langle \! \rangle$	× AED
				195	.52'				Certificate N		ED PRO	State State
+			/	101							0111	PEN /



--BHPCALC--

Calculate BHP and Z-factor from surface shut-in pressure

06/08/00

WELL NAME :	Fifield #4	A (MV)			
GAS GRAVITY:	0.62		% N2	0.26	
CONDENSATE (YES=1):	1		% CO2	0.50	00
RESERVOIR TEMP:	144	F	% H2S	0.00	00
SURFACE TEMP:	60	F	Pc =	671.58	Ŷ
DEPTH OF ZONE:	4430	Foot	TC =	363.37	

SURFACE PRES	BHP	Z	BHP/Z
Psia	psia		psia
1104	1,229	0.8887	1,383

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# 1092 psig + 11.7 º 1104 psia

(October 1990) UNITED STATES DEPARTMENT OF THE INTERIOR								(See other in- structions on	OMB NO. 1004-0137			
							CF	IVE	() <sup>revenue</sup> side)	5 LE		OCEMBER 31, 1991 ON AND SERIAL NO.
			-			MANAGEME	HI	11			SF-078138	
WELL C	OMPL	ETIO	N OR F	RECOMP	LE	TION RE	PORT AN	DLC	<b>)G*</b> .08	6. IF	NDIAN, ALLOTT	EE OR TRIBE NAME
1a. TYPE OF			OL			the second s	97 AUG -		4-1: UQ-1			e e marine ;
. •			werr [		2		<u>gt hoo</u>	·		7. UN	IT AGREEMENT	NAME
b. TYPE OF	COMPLET	ION: WORK (	OEEP-{		7		070 FARM	AING	TON, YWW	0 EA		IAME WELL NO.
	WELL X	OVER	EN	BACK	]		010 17.1			0. FA		which ficth ray.
2. NAME OF		P			-					9. AP	Fifield #4A	
			URCES O	IL & GAS CO	MPA	NY					30-045-2943	38
3. ADDRESS									·	10. F	ELD AND POOL	
			ngton, NM			326-9700				11 C	Blanco Mes	BVOIDD R BLOCK AND SURVEY
4. LOCATIO At surface			460'FWL,	ny and in accord	Jance	with any State re	squirements)-				RAREA	N BUUCKARD BUKVET
			_									
At top pro	d. interval n	eported be	HOW									inder 1953 Alson of the state o
At total de	epth										Sec. 21, T-3	10-N, R-11-W
					14	PERMIT NO.	DATE ISSU	-0		12 0	OUNTY OR	13. STATE
						PERMIT NO.		-			PARISH	IS. SIAIE
				47.047			<u></u>	1			San Juan	New Mexico
15. DATE SPU 5-9-97		5-17-1	D. REACHED			PL. (Ready to prov 1-97	2)	18. E	EVATIONS (DF. RH 5811 GR. 582		BR. E1G.)"	19. ELEV. CASINGHE
20. TOTAL DE	PTH, MD &T		_	ACK T.D., MD &T	_	22. IF MULTIPLE			TERVALS	_	Y TOOLS	CABLE TOOLS
5120						HOM	MANY"	l °	RILLED BY		0-5120	-
	ION INTERV	AL (S) OF	I THIS COMPLE	ETION-TOP, BOT	TOM,	NAME (MD AND T	VD)*	<b>_</b>			25. WAS DIRE	CTIONAL
4075 47	85 Mesa										SURVEY I	NADE .
28. TYPE ELE			GS RUN							27. WA	S WELL CORED	)
HIR, DS	N/SDL, AI	IT, CMR			_						No	
28. CASING SIZ	EARADE	1 MEIGH	T. LB./FT.	DEPTH SET		CASING RECOR	D (Report all string		well) CEMENTING RECO		r	
9 5/8		32.3#		235	(	12 1/4	216 cu.ft.					
7		20#		2439		8 3/4	631 cu.ft.					
		<u>}</u>				<u> </u>		<u> </u>	·	_	<b> </b>	
29.		<u> </u>	LINER RE	CORD			30.			T	UBING RECOR	20
SIZE	TOP (MD)		TOM (MD)	SACKS CEME	NT*	SCREEN (MD			DEPTH SET (	MD)		PACKER SET (MD)
4 1/2	2252	5070		497 cu.ft.	_		2 3/8		4514		<u> </u>	
31 PERFORA	TION RECO	RD (Interva	, size and nu	mber)	-	32.	A	CID, SI	I. IOT, FRACTURE.	CEME	NT SQUEEZE	, ETC.
				2, 4297, 4302			NTERVAL (MD)			-	ID KIND OF MAT	
• •	-		-	8, 4480, 4487 4, 4538, 454		4075-4397		84,9	66 gai sik wtr. 6	5,000	# 20/40 Ariz	8d
			-	7, 4670, 4672		4478-4785		128,	940 gai sik wtr,	100,0	00# 20/40 A	riz sd
4678, 4688,	4696, 470	)5, <b>4713</b> ,	4721, 475	3, 4762, 4774	4,	4785	PRODUCTION					
DATE FIRST PR	RODUCTION		PRODUC	TION METHOD	(Flow	ng, gas lilt, pumpin	g-size and type of p	ump)			WELL STATUS	(Producing or shul-in) -
7-21-97		1.01.00			lowin							SI
DATE OF TEST		HOURS	IESTED	CHOKE SIZE	1	DD'N FOR OII ST PERIOD	881.	GAS	-MCF		ER881.	GAS-CIL RATIO
7-21-97 FLOW, TUBING		CARING	PRESSURE	CALCULATED	1-	HL-86L	CAR NO		Pitot Gauge			
- 2017. 100040				24-HOUR RATE			GAS-MC	-	WATER-BE	L		OIL GRAVITY-API (CC
34. DISPOSIT	ION OF	SI 10		d. etc.)					1		ITEST WITNES	SED BY
			SOIL								I COL WITHES	
35. LIST OF A	TTACHMEN	TS										
	artifications was	None Toregoing a		V	olete -	Ind compart pe size	mined from all avail	-		<u> </u>		
38 Lineman	Y										,	
36. Lhereby c	1											
38. Linereby C	alen	Dh	aap	<u>u</u> d 11	ITLE	Regulatory A	dministrator		<b>*</b> *			D FOR RECO

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OPER	AT	0	R
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FARMINGTON DISTRICT OFFICE

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ame Antois Nama	FIFIELD	4A 99	427		
nalysis Name					1:1
nalysis					
ffective Date	04/01/2000	🛐 Hydrogen (H.		DL Fraction M	0L Count 0.0000
HANNIN VULV	04/01/2000	Hydrogen (H. Helium (He)		0.00000	0.0000
ample Date	03/24/2000	Nitrogen (N2	) –	0.00260	0.0000
ressure Base BTU	14.7300	Carbon Dioxi	de (CO2)	0.00500	0.0000
/et/Dry	Dry 💌	Hydrogen Su	lphide (H2S)	0.00000	0.0000
eat Content	1.24500000	Methane (C1	) [	0.81830	0.0000
pecific Gravity	0.714	Ethane (C2)		0.09430	0.0000
oefficient Factor	0.0000	Propane (C3		0.04540	0.0000
Calculation Type -		Isobutane (II	34)	0.00930	0.0000
• Enter <u>P</u> ercentage	93	Butane		0.01120	0.0000
C Enter <u>G</u> PM		Isopentane (	IP5)	0.00410	0.0000
	<u>R</u> elated To	Pentane (P5	)	0.00290	0.0000
02%	0.00000	Hexane (C6)		0.00690	0.0000
Hexane Plus GPM	0.0000	Heptane (C7	)	0.00000	0.0000
C9 %	0.00000	Final Totals	Total	1.0000	0.00000
4 04/01/2000	4999 - 1996 - 1996 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	<b>FN</b> +	-		3:3

--BHPCALC--Calculate BHP and Z-factor from surface shut-in pressure 06/08/00 WELL NAME : Cooper #11 (Otero Chacra) GAS GRAVITY: 0.69 % N2 1.04 CONDENSATE (YES=1): 1 % CO2 0.19 % **117** F RESERVOIR TEMP: % H2S 0.00 % SURFACE TEMP: 60 F Pc = 664.65 % DEPTH OF ZONE: 3023 Foot TC = 377.19 SURFACE PRES Z BHP/Z BHP Psia psia psia 594 643 705 0.9122

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- The Cooper #11 was drilled and completed in the Mesaverde in 1991. Excessive water production led to the decision to plug the Mesaverde in January 1998. At that time, the well was recompleted in the Otero Chacra only, and will serve as an indication of the initial reservoir pressure that will be encountered in this area.

clober 1990)			ARTMENT OF	THE INTERI	or REC	EIVE	(Serucito in-		OMB N Expines: Do E DESIGNATIO SF-077317	NPROVED 0. 1004-0137 scender 31, 1991 DN AND SERIAL NO.
		N OR F	RECOMPLE	TION REP	ORT AND	) LÕ	G*,.03	6. IF IN	DIAN, ALLOTT	E OR TRIBE NAME
A TYPE OF WELL:		WELL	WELL X		98 FEB 1	91		7 (INIT	AGREEMENT	NAME
b. TYPE OF COMP					070 FAR	uda	TON, NM	_		
NEW WELL	WORK OVER	DEEP-		OIFF. RESVR Other	070 FAN				Cooper #11	AME, WELL NO.
2. NAME OF OPER			L & GAS COMPAN						MEU. NO	7
ADDRESS AND			L & GAS COMPA	<b>TI</b>			•		LD AND POOL	
	4289, Farm			326-9700						B/Crouch Mesa MV
At surface		FSL, 1450'	ty and in accordance FWL,	with any State requ	irements )*				C. 1., R., M., O	
At top prod. inter	val reported b	elow								i sa
At total depth								;	Sec. 6, T-29	-N, R-11-W
			14. 1	PERMIT NO.	DATE ISSUE	D			UNTY OR ARISH	13. STATE
	140 04757	0.0010100							San Juan	New Mexico
15. DATE SPUDDED 7-29-91	16. DATE I	D. REACHED	17. DATE COMP 2-6-98	A. (Ready to prod.)			VATIONS (DF, RK 5 <b>755 GR</b>	(B, KI, B	R, EIG.J <sup>-</sup>	19. ELEV. CASINGRE
20. TOTAL DEPTH, M	ID &TVD	21. PLUG, 8	ACK T.D., MD &TVD	22. IF MULTIPLE CO		23. INTI	ERVALS ILLED BY	ROTARY	TOOLS	CABLE TOOLS
4759		3198						0-4759	)	1
4. PRODUCTION IN 2619-3178 Ct	nacra		ETION-TOP, BOTTOM, I	VAME (MD AND TVD	<b>)°</b>				25. WAS DIRE SURVEY N	
2619-3178 CP 2619-3178 CP 26. TYPE ELECTRIC CCL-GR	nacra					s set in v		27. WAS		
26. PRODUCTION IN 2619-3178 CF 28. TYPE ELECTRIC CCL-GR 28. CASING SIZE/GRAI	NACTA AND OTHER LO		C Depth set (MD)	CASING RECORD	(Report all string: TOP OF CEI	-		27. WAS	SURVEY N WELL CORED	
26. PRODUCTION IN 2619-3178 Cr 26. TYPE ELECTRIC CCL-GR 28.	NACITA AND OTHER LO	DGS RUN HT, LB <i>J</i> FT.	c	ASING RECORD	(Report all string:	-	voli) :	27. WAS	SURVEY N WELL CORED	
26. PRODUCTION IN 2619-3178 CP 28. TYPE ELECTRIC CCL-GR 28. CASING SIZE/GRAI 8 5/8	DE WEIG	DGS RUN HT, LB <i>J</i> FT.	C DEPTH SET (MD) 224	ASING RECORD HOLE SIZE 12 1/4	(Report all string: TOP OF CEI 188 Cu.ft.	-	voli) :	27. WAS	SURVEY N WELL CORED	
26. PRODUCTION IN 2619-3178 CF 28. TYPE ELECTRIC CCL-GR 28. CASING SIZE/GRAI 8 5/8 4 1/2	DE WEIG	DGS RUN HT, LB <i>J</i> FT.	0 DEPTH SET (MD) 224 4759	ASING RECORD HOLE SIZE 12 1/4	(Report all string: TOP OF CEI 188 Cu.ft.	-	voli) :	27. WAS	SURVEY N WELL CORED	
24. PRODUCTION IN 2619-3178 CF 26. TYPE ELECTRIC CCL-GR 28. CASING SIZE/GRAI 8 5/8 4 1/2 29.	NACINA AND OTHER LO DE WEIGH 244 10.5	DGS RUN HT, LBJFT.	0 DEPTH SET (MD) 224 4759	ASING RECORD HOLE SIZE 12 1/4	(Report all string: TOP OF CEI 188 cu.ft. 2830 cu.ft. 30. SiZE	AENT, CE	VOII) EMENTING RECO DEPTH SET (	27. WAS	SURVEY N WELL CORED No	
2619-3178 CP 2619-3178 CP 8. TYPE ELECTRIC CCL-GR 28. CASING SIZE/GRAI 8 5/8 4 1/2 29.	DE WEIGH	DGS RUN HT, LBJFT. #	C DEPTH SET (MD) 224 4759 CORD	ASING RECORD HOLE SIZE 12 1/4 7 7 /8	(Report all string: TOP OF CEI 188 cu.ft. 2830 cu.ft. 30.	AENT, CE	voli) EMENTING RECO	27. WAS	SURVEY N WELL CORED No	
26. PRODUCTION IN 2619-3178 CP 20. TYPE ELECTRIC CCL-GR 28. CASING SIZE/GRAI 8 5/8 4 1/2 29. SIZE TOP 9 PERFORATION F	DE WERA	DGS RUN HT, LBJFT. B LINER RE ITTOM (MD)	CORD SACKS CEMENT*	ASING RECORD HOLE SIZE 12 1/4 7 7 /8 SCREEN (MD)	(Report all string: TOP OF CEI 188 cu.ft. 2830 cu.ft. 30. SIZE 2 3/8 AC	AENT, CL	DEPTH SET ( 3104	27. WAS (RD TU (MD) . CEMER	SURVEY N WELL CORED No BING RECOR	AMOUNT PULLED
26. PRODUCTION IN           2619-3178 CF           28. TYPE ELECTRIC CCL-GR           28.           CASING SIZE/GRAI           8 5/8           4 1/2           29.           SIZE           1           PERFORATION F           619, 2629, 2648	DE WERA DE WERA 245 10.54 P (MD) BO RECORD (Interv , 2665, 2682	DGS RUN HT. LBJFT. LINER RE ITTOM (MD) RI. Size and nun 2, 2692, 270	CORD SACKS CEMENT* 5, 2715, 2726,	ASING RECORD HOLE SIZE 12 1/4 7 7 /8 SCREEN (MD)	(Report all string: TOP OF CEI 188 cu.ft. 2830 cu.ft. 30. SIZE 2 3/8 AC	ID. SHO	DEPTH SET ( 3104	27. WAS DRD TU (MD) . CEMER UNT AND	SURVEY N WELL CORED No BING RECOR	ANDE
26.         PRODUCTION IN           2619-3178 CP         28.           20.         CASING SIZE/GRAI           8 5/8         4 1/2           29.         SIZE           512E         TOF           1         PERFORATION F           619, 2629, 2648         748, 2778           748, 2764, 2778         857, 2874, 2887	DE WERG DE WERG 245 10.5 P (MD) BO RECORD (Interv , 2665, 2682 , 2791, 2804 , 2894, 2968	DGS RUN HT, LBJFT. LINER RE ITTOM (MD) 2, 2692, 270 5, 2816, 282 5, 2975, 299	CORD SACKS CEMENT* 5, 2715, 2726, 5, 2840, 2845, 0, 3012, 3027,	CASING RECORD HOLE SIZE 12 1/4 7 7 /8 SCREEN (MD) 32. DEPTH INTE 2619-2894 2968-3178	(Report all string: TOP OF CEI 188 cu.ft. 2830 cu.ft. 30. SIZE 2 3/8 AC	ID. SHO	DEPTH SET ( 3104 DT. FRACTURE, AMO 0 gai 30# x-link g	27. WAS DRD TU (MD) . CEMEN UNT AND Ik gel, 1 jel, 66.6	SURVEY N WELL CORED No BING RECOF	ANDE
26. PRODUCTION IN           2619-3178 CP           28. TYPE ELECTRIC CCL-GR           28.           CASING SIZE/GRAI           8 5/8           4 1/2           29.           SIZE           1           PERFORATION F           619, 2629, 2648           748, 2764, 2778           857, 2874, 2887           042, 3046, 3058	AND OTHER LC DE WERG 245 10.5 P (MD) BO RECORD (Interv , 2665, 2682 , 2791, 2804 , 2894, 2968 , 3067, 3078	DGS RUN HT, LBJFT. LINER RE ITTOM (MD) 2, 2692, 270 5, 2816, 282 5, 2975, 299 5, 3089, 390	CORD SACKS CEMENT* 5, 2715, 2726, 5, 2840, 2845, 0, 3012, 3027, 16, 3113, 3125,	CASING RECORD HOLE SIZE 12 1/4 7 7 /8 SCREEN (MD) 32. DEPTH INTE 2619-2894	(Report all string: TOP OF CEI 188 cu.ft. 2830 cu.ft. 30. 512E 2 3/8 CRVAL (MD)	ID. SHO	DEPTH SET ( 3104 DT. FRACTURE, AMO 0 gal 30# x-lin	27. WAS DRD TU (MD) . CEMEN UNT AND Ik gel, 1 jel, 66.6	SURVEY N WELL CORED No BING RECOF	ANDE AMOUNT PULLED RD PACKER SET (MD) . ETC. FERIAL USED /40 Ariz sd. Ariz sd. 577.509 SC
24. PRODUCTION IN 2619-3178 CF 28. TYPE ELECTRIC CCL-GR 28. CASING SIZE/GRAI 8 5/8 4 1/2 29.	AND OTHER LC DE WERG 24# 10.51 P (MD) BC RECORD (Interv , 2665, 2682 , 2791, 2804 , 2894, 2968 , 3067, 3078 , 3178, 3228	DGS RUN HT, LBJFT. LINER RE ITTOM (MD) 2, 2692, 270 9, 2816, 282 9, 2975, 299 9, 3089, 390 9, 3239, 325	CORD SACKS CEMENT* 5, 2715, 2726, 5, 2840, 2845, 0, 3012, 3027, 16, 3113, 3125,	CASING RECORD ( HOLE SIZE 12 1/4 7 7 /8 SCREEN (MD) 32. DEPTH INTE 2619-2894 2968-3178 3228-3427 Perforations co P	(Report all string: TOP OF CEI 188 cu.ft. 2830 cu.ft. 30. 30. SIZE 2 3/8 CRVAL (MD)	ID. SHO	DEPTH SET ( 3104 DT. FRACTURE, AMO 0 gai 30# x-link g	27. WAS DRD TU (MD) . CEMEJ UNT AN( ik gel, iei, 66,6 je, 97,0	SURVEY M WELL CORED No BING RECOF	ANDE AMOUNT PULLED RD PACKER SET (MD) . ETC. FERIAL USED /40 Ariz sd. Ariz sd. 577.509 SC
24. PRODUCTION IN 2619-3178 CP 28. TYPE ELECTRIC CCL-GR 28. CASING SIZE/GRAI 8 5/8 4 1/2 29. SIZE TOF 1 PERFORATION F 819, 2629, 2648 748, 2764, 2778 857, 2874, 2887 1042, 3046, 3058 1136, 3149, 3166 33. ATE FIRST PRODUC 2-6-98	AND OTHER L( 24# 10.5 24# 10.5 2000 24# 10.5 2000 2000 2000 2000 2000 2000 2000 2	DGS RUN HT, LB/FT. LINER RE TTOM (MD) 2, 2692, 270 2, 2816, 282 3, 3089, 390 3, 3239, 325 PRODUC	CORD 224 4759 CORD SACKS CEMENT* 5, 2715, 2726, 5, 2840, 2845, 10, 3012, 3027, 16, 3113, 3125, 12, 3264, 3277, CTION METHOD (Flowing)	ASING RECORD HOLE SIZE 12 1/4 7 7 /8 SCREEN (MD) 32. DEPTH INTI 2619-2894 2968-3178 3228-3427 Perforations co Ping, gas tift, pumping- Flowing	(Report all string: TOP OF CEI 188 cu.ft. 2830 cu.ft. 30. SIZE 2 3/8 CRVAL (MD) CRVAL (MD) CRVAL (MD) CRVAL (MD)	ID. SHC 16,39 326 b 387 b	DEPTH SET ( 3104 DT, FRACTURE, AMO 0 gal 30# x-link g bl 30# x-link g	27. WAS DRD TU (MD) . CEME! UNT AN( 1k gel, 1 rel, 66,6 je, 97,0	SURVEY M WELL CORED No BING RECOR UT SQUEEZE NIND OF MAT 130,000# 20 394# 20/40 / 00# 20/40 / WELL STATUS	AMOUNT PULLED AMOUNT PULLED D PACKER SET (MD) . ETC. ERIAL USED I/40 Ariz sd. Ariz sd. 577,509 SCI Ariz sd sqzd
24. PRODUCTION IN 2619-3178 CP 28. TYPE ELECTRIC CCL-GR 28. CASING SIZE/GRAI 8 5/8 4 1/2 29. SIZE TOF 1 PERFORATION F 619, 2629, 2648 748, 2764, 2778 857, 2874, 2887 1042, 3046, 3058 1136, 3149, 3166 33. ATE FIRST PRODUC 2-6-98 MATE OF TEST 2-8-98	DE WEIGH 244 10.54 (MD) BO RECORD (Interv , 2665, 2682 , 2791, 2804 , 2894, 2968 , 3067, 3078 , 3178, 3228 TTION	DGS RUN HT. LBJFT. LINER RE LINER RE TTOM (MD) 2, 2692, 270 , 2692, 270 , 2694, 320 , 3089, 390 , 3239, 325 PRODUCT	CORD 224 4759 CORD SACKS CEMENT* 5, 2715, 2726, 5, 2840, 2845, 0, 3012, 3027, 6, 3113, 3125, 2, 3264, 3277, CTION METHOD (Flowing CHOKE SIZE PRC TES	ASING RECORD HOLE SIZE 12 1/4 7 7 /8 SCREEN (MD) 32. DEPTH INTE 2619-2894 2968-3178 3228-3427 Perforations co Ping, gas titl, pumping- Flowing XON FOR OIL-6 T PERIOD	(Report all string TOP OF CEI 188 cu.ft. 2830 cu.ft. 30. SIZE 2 3/8 RVAL (MD) RVAL (MD)	ID. SHO 16,39 326 b 387 b 387 b 387 c	DEPTH SET ( 3104 DT. FRACTURE. AMO 0 gal 30# x-link g bl 30# x-link g bl 30# x-link g	27. WAS DRD TU (MD) . CEMEP UNT ANC INT ANC INT INT ANC INT INT INT ANC INT INT INT ANC INT INT INT ANC IN	SURVEY N WELL CORED No BING RECOF	AMOUNT PULLED AMOUNT PULLED BD PACKER SET (MD) . ETC. ERIAL USED /40 Ariz sd. Ariz sd. 577.509 SCI Ariz sd. 577.509 SCI Ariz sd sqzd S(Producing or shu4in) GAS-OIL RATIO
24. PRODUCTION IN 2619-3178 CP 28. TYPE ELECTRIC CCL-GR 28. CASING SIZE/GRAI 8 5/8 4 1/2 29. SIZE TOF 5 1 PERFORATION F 619, 2629, 2648 748, 2764, 2778 857, 2874, 2887 042, 3046, 3058 136, 3149, 3166 33. ATE FIRST PRODUC 2-6-98 ATE OF TEST 2-8-98	DE WEIGH 244 10.54 (MD) BO RECORD (Interv , 2665, 2682 , 2791, 2804 , 2894, 2968 , 3067, 3078 , 3178, 3228 TTION	DGS RUN HT, LBJFT. LINER RE TTOM (MD) 2, 2692, 270 3, 2816, 282 3, 2975, 299 3, 3089, 390 3, 3239, 325 PRODUCTESTED	CORD 224 4759 CORD SACKS CEMENT* 5, 2715, 2726, 15, 2840, 2845, 10, 3012, 3027, 16, 3113, 3125, 12, 3264, 3277, CTION METHOD (Flowing CHOKE SIZE PRO TES 	ASING RECORD HOLE SIZE 12 1/4 7 7 /8 SCREEN (MD) 32. DEPTH INTE 2619-2894 2968-3178 3228-3427 Perforations cco Flowing DO'N FOR OIL-6	(Report all string: TOP OF CEI 188 cu.ft. 2830 cu.ft. 30. SIZE 2 3/8 CRVAL (MD) CRVAL (MD) CRVAL (MD) CRVAL (MD)	ID. SHO 16,39 326 b 387 b 387 b 387 c	DEPTH SET ( 3104 DT. FRACTURE. AMO 0 gal 30# x-link g bl 30# x-link g bl 30# x-link g	27. WAS DRD TU (MD) . CEMEP UNT ANC INT ANC INT INT ANC INT INT INT ANC INT INT INT ANC INT INT INT ANC IN	SURVEY M WELL CORED No BING RECOR UT SQUEEZE NIND OF MAT 130,000# 20 394# 20/40 / 00# 20/40 / WELL STATUS	AMOUNT PULLED AMOUNT PULLED BD PACKER SET (MD) . ETC. ERIAL USED /40 Ariz sd. Ariz sd. 577.509 SC Vriz sd sqzd S(Producing or shu4in) GAS-OIL RATIO
24. PRODUCTION IN           2619-3178 CP           28. TYPE ELECTRIC CCL-GR           28.           CASING SIZE/GRAI           8 5/8           4 1/2           29.           SIZE           1           PERFORATION F           819, 2629, 2648           748, 2764, 2778           857, 2874, 2887           4042, 3046, 3058           136, 3149, 3166           33.           IATE FIRST PRODUC           2-6-98           IATE OF TEST           2-8-98           LOW. TUBING PRES	Dacra           AND OTHER LC           DE         WEKG           24#           10.51           24#           10.51           2           2           24#           10.51           2           2           2           10.51           2           3           3           3           3           3	DGS RUN HT, LBJFT. LINER RE ITTOM (MD) 2, 2692, 270 3, 2816, 282 3, 2975, 299 3, 3089, 390 3, 3239, 325 PRODUC TESTED	CORD 224 4759 CORD SACKS CEMENT* 5, 2715, 2726, 5, 2840, 2845, 10, 3012, 3027, 16, 3113, 3125, 12, 3264, 3277, CTION METHOD (Flow/ CHOKE SIZE PRO TES CALCULATED O 24-HOUR RATE	ASING RECORD HOLE SIZE 12 1/4 7 7 /8 SCREEN (MD) 32. DEPTH INTE 2619-2894 2968-3178 3228-3427 Perforations co Ping, gas titl, pumping- Flowing XON FOR OIL-6 T PERIOD	(Report all string TOP OF CEI 188 cu.ft. 2830 cu.ft. 30. SIZE 2 3/8 RVAL (MD) RVAL (MD)	ID. SHO 16,39 326 b 387 b 387 b 387 c	DEPTH SET ( 3104 DT. FRACTURE. AMO 0 gal 30# x-link g bl 30# x-link g bl 30# x-link g	27. WAS DRD TU (MD) . CEMEP UNT ANC INT ANC INT INT ANC INT INT INT ANC INT INT INT ANC INT INT INT ANC IN	SURVEY M WELL CORED No BING RECOR UT SQUEEZE NIND OF MAT 130,000# 20 394# 20/40 / 00# 20/40 / WELL STATUS	ANDE AMOUNT PULLED AMOUNT PULLED PACKER SET (MD) PACKER SET (MD) . ETC. ERIAL USED /40 Ariz sd. Ariz sd. 577.509 SCI Vriz sd - sqzd S (Producing or shuf-in) GAS-OIL RATIO OIL GRAVITY-API (CC
24. PRODUCTION IN 2619-3178 CF 28. TYPE ELECTRIC CCL-GR 28. CASING SIZE/GRAI 8 5/8 4 1/2 29. SIZE TOF 1 PERFORATION F 819, 2629, 2648 748, 2764, 2778 857, 2874, 2887 8457, 2874, 2887 1042, 3046, 3058 1136, 3149, 3166 33. INTE FIRST PRODUC 2-6-98 INTE OF TEST 2-8-98 IOW. TUBING PRES SI 580 34. DISPOSITION OI 35. LIST OF ATTACH	DE WEIGH 244 10.5 244 10.5 244 10.5 244 244 244 244 244 244 244 24	DGS RUN HT, LBJFT. LINER RE LINER RE TTOM (MD) 2, 2692, 270 2, 2692, 270 2, 2692, 270 3, 3089, 390 3, 3089, 390 3, 3239, 325 PRODUC TESYED PRODUC 1000 100	CORD 224 4759 CORD SACKS CEMENT* 5, 2715, 2726, 5, 2840, 2845, 10, 3012, 3027, 16, 3113, 3125, 12, 3264, 3277, CTION METHOD (Flow/ CHOKE SIZE PRO TES CALCULATED O 24-HOUR RATE	ASING RECORD HOLE SIZE 12 1/4 7 7 /8 SCREEN (MD) 32. DEPTH INTE 2619-2894 2968-3178 3228-3427 Perforations cc Ping, gas till, pumping- Flowing DON FOR OIL-6 T PERIOD	(Report all string: TOP OF CEI 188 cu.ft. 2830 cu.ft. 30. SIZE 2 3/8 2 3/8 CRVAL (MD) CRVAL (MD) CRVAL (MD) CRVAL (MD) CRVAL (MD) CRVAL (MD) CRVAL (MD) CRVAL (MD) CRVAL (MD) CRVAL (MD)	(ID. SHC) (ID. SHC) (ID. SHC) (IB. 39 (ID. SHC) (ID. SHC	DEPTH SET ( 3104 DT. FRACTURE, AMO 0 gai 30# x-link g bi 30# x-link g bi 30# x-link g MCF Pitot Gauge WATER-BE	27. WAS	SURVEY A WELL CORED No BING RECOR T SQUEEZE D KIND OF MAT 30,000# 20 394# 20/40 / 00# 20/40 / WELL STATUS SI R-BBL	ANDE AMOUNT PULLED AMOUNT PULLED PACKER SET (MD) PACKER SET (MD) . ETC. ERIAL USED /40 Ariz sd. Ariz sd. 577.509 SCI Vriz sd - sqzd S (Producing or shuf-in) GAS-OIL RATIO OIL GRAVITY-API (CC

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Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department and willfully to make to any department and willfully to make to any department and the person of th

Gas Analysis Informa	ation				
<u>Name</u>	COOPER	11 353	33		
Analysis Name					
Analysis:					1:1
Analysis				MOL Fraction	MOL Count
Effective Date	04/01/2000	Hydrogen (H2)	E F	0.00000	0.0000
		— Helium (He)	Ē	0.00000	0.0000
Sample Date	04/01/2000	Nitrogen (N2)		0.01037	0.0000
Pressure Base BTU	14.7300	Carbon Dioxide	(CO2)	0.00188	0.0000
Wet/Dry	Dry	Hydrogen Sulp	hide (H2S)	0.00000	0.0000
Heat Content	1.19600000	Methane (C1)		0.84948	0.0000
Specific Gravity	0.685	Ethane (C2)		0.06742	0.0000
Coefficient Factor	0.0000	Propane (C3)		0.04254	0.0000
Calculation Type -		Isobutane (IB4	) [	0.00627	0.0000
C Enter Percentage	*	Butane		0.01115	0.0000
C Enter <u>G</u> PM		Isopentane (IP	5)	0.00349	0.0000
	Related To	Pentane (P5)	ļ	0.00294	0.0000
02%	0.00000	Hexane (C6)		0.00000	0.0000
Hexane Plus GPM	0.0000	Heptane (C7)		0.00000	0.0000
C9 %	0.00446	Final Totals	Total	0.9955	0.00000

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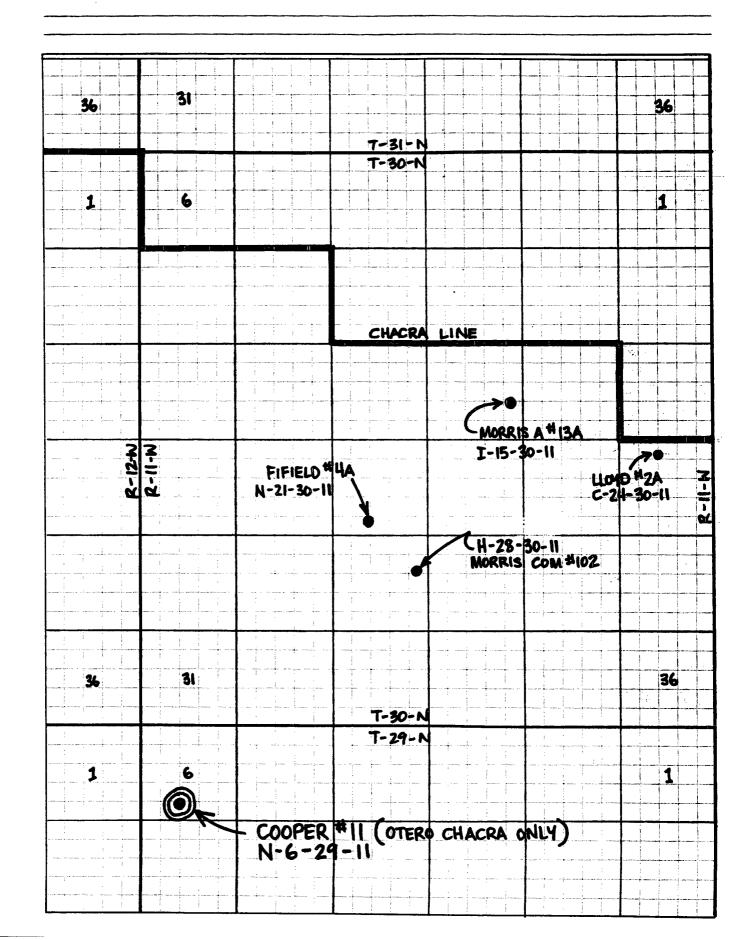
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## LOCATION OF COOPER #11



### INTEREST OWNERS FIFIELD 4A WELL - JUNE 20, 2000

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**CATHERINE L FIFIELD** GARY C TISONE AND ETHEL F GARRISON ZENOR BUREAU OF LAND MANAGEMENT CARL ENGFER DOROTHY SWANSON **CROSS TIMBERS OIL COMPANY BYRON FOSTER ROYCE &** JO ANNE MOSS TRELOAR **EDWINA PETERSEN TRUSTEE** ELLIOTT INDUSTRIES **ELLIOTT-HALL COMPANY** EARL B SULLIVAN TRUSTEE JOSEPH SULLIVAN LEWIS SULLIVAN **KAYLA ANN PERRYMAN** KIRK GRAVES SOUTHWOOD FINANCIAL LLC