Form 3160-4

(October 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATES

(See other instructions on reverse side) FOR APPROVED OMB NO 1004-0137

Expires: December 31, 1991

5 LEASE DESIGNATION AND SERIAL NO

A TYPE OF WELL:						i	SF-07899	17
	LETION OR	RECOMPI	ETION REP	ORT AND	LOG*	6 IF IND	IAN, ALLOTTEE	OR TRIBE NAME
	OIL WELL	GAS X	DRY Other			7		
	WELL	LJ "" LJ	لبسا			7 UNIT	GREEMENT N	AME
TYPE OF COMPLI					ENED	L		30-5 Unit
NEW NELL	WORK DEEP OVER EN	PLUG BACK	DIFF RESVE Other			8. FARM	OR LEASE NAM	ME, WELL NO
					-6-6-000		San Juan	30-5 Unit 73N
NAME OF OPERA				MAY	20 2009	9 APIW	ELL NO.	
	hillips Company	<u>′ </u>			····	<u> </u>	30-039-30	1374
ADDRESS AND T				Bureau of	Land Manageme	t 10 FIELI	AND POOL, O	R WILDCAT
	289, Farmington, I		05) 326-9700	<u>Forming</u>	HOW FIRM ()MICE	4	Dasiii Da	NULA
	ELL (Report location of	learly and in accor	dance with any State	requirements)**		1		BLOCK AND SURVEY
At surface						1		<i>J</i> D MAY 22 '09
	350' FNL & 2080' FEL	ı					011	CONS. DIV.
At top prod. interva	i reported below					Sec. 10,	130N, H5W	, NMPM
At total depth	Jnit H (SENE) 189	3' FNL & 778' F	EL			}		DIST. 3
,	,	_						
		[14. PERMIT NO.	DATE ISSUE	D	12. COU		13. STATE
		ł		1		Rio Arrib		NM
DATE SPUDDED 1	6. DATE T.D. REACHE	D 17. DATE C	OMPL. (Ready to prod.)	,	18 ELEVATIONS (DF, F			19. ELEV. CASINGHEAD
5/2/08	10/29/0		5/5/09		GR 6527' KB		,	1.0. 222. 0.0.0.0.0.0.0
TOTAL DEPTH, MD &		BACK T.D., MD &TVE	22 IF MULTIPLE C		23. INTERVALS	ROTARY TO	OOLS	CABLE TOOLS
0.070110.0101		5 0001	How	MANY	DRILLED BY			
8273'/8013'	VAL (S) OF THIS COMPI	/7999'	2		<u> </u>	yes	or was per	TOTIONAL
PHODUCTION INTER	IVAL (5) OF THIS COMPT	ETION-TOP, BOTTO	M, NAME IND AND IVE	")			25. WAS DIRE SURVEY	
Basin Dakota	8146' - 8238'							Yes
TYPE ELECTRIC AND						27. WAS W	ELL CORED	
BR/CBL/CCL								No
· · · · · · · · · · · · · · · · · · ·			CASING RECOR					
ASING SIZE/GRADE	WEIGHT, LB./FT	DEPTH SET (MI	12 1/4"		EMENT, CEMENTING RE			AMOUNT PULLED
9 5/8" H-40 7" L-80	32.3#	230' 4741'	8 3/4"		75sx(120cf-21 bbl 750sx (1553cf-276			3 bbls 75 bbls
4 1/2" L-80		8232'	6 1/4"		2 sx(540vf-96 bbls			70 0013
	LINER R	ECORD		30.		TUB	NG RECORD	
SIZE TOP (ME) BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SE	T (MD)	ŧ	PACKER SET (MD)
		<u> </u>	1	2 3/8" 4.7# L-	80 8193'			
								
	200 (111-111-1111					- 051451		
PERFORATION RECO	ORD (Interval, size and nu	nber)	32 8146' - 8238'		ID, SHOT, FRACTUR			
PERFORATION RECO	•	mber)	32 8146' - 8238'		CID, SHOT, FRACTUR Acidize w/10 bbls	15% HCL	Acid, frac v	v/106,245 gal
PERFORATION RECO	•	mber)			ID, SHOT, FRACTUR	15% HCL	Acid, frac v	v/106,245 gal
PERFORATION RECO diam @ 2SPF 6' - 8238' = 32 ho SPF	les	mber)			CID, SHOT, FRACTUR Acidize w/10 bbls	15% HCL	Acid, frac v	v/106,245 gal
PERFORATION RECO diam @ 2SPF 6' - 8238' = 32 ho SPF 6' - 8199' = 26 ho	les	mber)			CID, SHOT, FRACTUR Acidize w/10 bbls	15% HCL	Acid, frac v	v/106,245 gal
PERFORATION RECO diam @ 2SPF 6' - 8238' = 32 ho SPF 6' - 8199' = 26 ho	les	mber)			CID, SHOT, FRACTUR Acidize w/10 bbls	15% HCL	Acid, frac v	v/106,245 gal
PERFORATION RECO diam @ 2SPF 6' - 8238' = 32 ho SPF 6' - 8199' = 26 ho	les	mber)	8146' - 8238'		CID, SHOT, FRACTUR Acidize w/10 bbls	15% HCL	Acid, frac v	v/106,245 gal
PERFORATION RECO dlam @ 2SPF 6' - 8238' = 32 ho SPF 6' - 8199' = 26 ho al holes = 58	les les		8146' - 8238'	PRODUCTION	CID, SHOT, FRACTUR Acidize w/10 bbls Silckwater & 41,10	15% HCL	Acid, frac v Brady Sand	v/106,245 gal
PERFORATION RECO	eles PRODU	стіол метнор <i>(ғі</i> Flowing	8146' - 8238'	PRODUCTION lze and type of pump	SID, SHOT, FRACTUR Acidize w/10 bbls Silckwater & 41,10	15% HCL 30# 20/40	Acid, frac v Brady Sand Sand WELL STATUS SI	v/106,245 gal
PERFORATION RECO	les ies	CTION METHOD (<i>FI</i> O Flowing CHOKE SIZE P	8146' - 8238' wing, gas lift, pumping-s	PRODUCTION lze and type of pump	CID, SHOT, FRACTUR Acidize w/10 bbls Silckwater & 41,10	15% HCL 30# 20/40	Acid, frac v Brady Sand Sand WELL STATUS SI	v/106,245 gal
PERFORATION RECO	PRODU	CTION METHOD (FIG Flowing CHOKE SIZE P	8146' - 8238'	PRODUCTION lze and lype of pump	CID, SHOT, FRACTUR Acidize w/10 bbls Slickwater & 41,10	15% HCL 80# 20/40 WATERB	Acid, frac v Brady Sand Sand WELL STATUS SI	v/106,245 gal
PERFORATION RECO	eles PRODU	CTION METHOD (<i>FI</i> O Flowing CHOKE SIZE P	8146' - 8238' wing, gas lift, pumping-s	PRODUCTION lze and lype of pump	SID, SHOT, FRACTUR Acidize w/10 bbls Silckwater & 41,10	15% HCL 80# 20/40 WATERB	Acid, frac v Brady Sand Sand WELL STATUS SI	(Producing or shut-in)
PERFORATION RECO	PRODU	CTION METHOD (FIG Flowing CHOKE SIZE P T 1/2"	8146' - 8238' wing, gas lift, pumping-s ROD'N FOR EST PERIOD	PRODUCTION lze and type of pump	CID, SHOT, FRACTUR Acidize w/10 bbls Slickwater & 41,10 CONTRACTOR OF THE SIGNATURE OF THE	15% HCL 80# 20/40 WATERB	Acid, frac v Brady Sand Sand WELL STATUS SI	(Producing or shut-in)
PERFORATION RECO	PRODUCTION OF THE STATE OF THE	CTION METHOD (FIO Flowing CHOKE SIZE PT T T CALCULATED 24-HOUR RATE	8146' - 8238' wing, gas lift, pumping-s ROD'N FOR EST PERIOD	PRODUCTION lze and type of pump	CID, SHOT, FRACTUR Acidize w/10 bbls Slickwater & 41,10 CONTRACTOR OF THE SIGNATURE OF THE	15% HCL 80# 20/40 WATERB	Acid, frac v Brady Sand Sand WELL STATUS SI	(Producing or shut-in)
PERFORATION RECO	PRODUCTION OF THE STATE OF THE	CTION METHOD (FIO Flowing CHOKE SIZE PT T T CALCULATED 24-HOUR RATE	8146' - 8238' wing, gas lift, pumping-s ROD'N FOR EST PERIOD OILBBL	PRODUCTION lze and type of pump IBL GASMCF	CID, SHOT, FRACTUR Acidize w/10 bbls Silckwater & 41,10 CAS-MCF 7.5 mscf	15% HCL 80# 20/40 WATERB	Acid, frac v Brady Sand Sand WELL STATUS SI	(Producing or shul-in) GAS-OIL RATIO OIL GRAVITY-API (CORR.)
PERFORATION RECO	PRODUCTORY HOURS TESTED 1 CASING PRESSURE 568# (Sold, used for fuel, vent) To be sold	CTION METHOD (FIO Flowing CHOKE SIZE PT T T CALCULATED 24-HOUR RATE	8146' - 8238' wing, gas lift, pumping-s ROD'N FOR EST PERIOD OILBBL	PRODUCTION lze and type of pump IBL GASMCF	CID, SHOT, FRACTUR Acidize w/10 bbls Silckwater & 41,10 CAS-MCF 7.5 mscf	15% HCL 80# 20/40 WATERB	Acid, frac v Brady Sand WELL STATUS SI BL	(Producing or shul-in) GAS-OIL RATIO OIL GRAVITY-API (CORR.)
PERFORATION RECO	PRODUCTORY HOURS TESTED 1 CASING PRESSURE 568# (Sold, used for fuel, vent) To be sold	CTION METHOD (FIGURE SIZE PATHON PROPERTY PATH	8146' - 8238' Wing, gas lift, pumping-s. ROD'N FOR OILB COILBBL	PRODUCTION lize and type of pump GASMCF	CID, SHOT, FRACTUR Acidize w/10 bbls Silckwater & 41,10 CAS-MCF 7.5 mscf	15% HCL 80# 20/40 WATERB	Acid, frac v Brady Sand WELL STATUS SI BL	(Producing or shul-in) GAS-OIL RATIO OIL GRAVITY-API (CORR.)
PERFORATION RECO	PRODU Very HOURS TESTED 1 CASING PRESSURE 568# (Sold, used for fue), vent To be sold TS Dakota/Blanco Me	CHON METHOD (FIO FLOWING TOWN TO THE TOWN TO THE TOWN THE	8146' - 8238' wing, gas lift, pumping-s ROD'N FOR EST PERIOD OILBBL O	PRODUCTION lize and type of pump BL GASMCF 180 mcsf/d	CID, SHOT, FRACTUR Acidize w/10 bbls Silckwater & 41,10 CAS-MCF 7.5 mscf WATER-BE 7 bwpd	15% HCL 80# 20/40 WATERB	Acid, frac v Brady Sand WELL STATUS SI BL	(Producing or shul-in) GAS-OIL RATIO OIL GRAVITY-API (CORR.)
PERFORATION RECO	PRODUCTORY HOURS TESTED 1 CASING PRESSURE 568# (Sold, used for fuel, vent) To be sold The sold is the sold	CTION METHOD (FIO Flowing CHOKE SIZE PT T T T T T T T T T T T T T T T T T T	8146' - 8238' wing, gas lift, pumping-s ROD'N FOR EST PERIOD OILBBL O	PRODUCTION lize and type of pump BL GASMCF 180 mcsf/d	CID, SHOT, FRACTUR Acidize w/10 bbls Silckwater & 41,10 CAS-MCF 7.5 mscf WATER-BE 7 bwpd	15% HCL 80# 20/40 WATERB	Acid, frac v Brady Sand WELL STATUS SI BL	(Producing or shul-in) GAS-OIL RATIO OIL GRAVITY-API (CORR.)
PERFORATION RECO	PRODU Very HOURS TESTED 1 CASING PRESSURE 568# (Sold, used for fue), vent To be sold TS Dakota/Blanco Me	CTION METHOD (FIO Flowing CHOKE SIZE PT T T T T T T T T T T T T T T T T T T	8146' - 8238' Wing, gas lift, pumping-s ROD'N FOR EST PERIOD OILBBL O Deing DHC per ord and correct as determine	PRODUCTION lize and type of pump IBL GASMCF 180 mcsf/d Ier #2718 AZ d from all available of	CID, SHOT, FRACTUR Acidize w/10 bbls Silckwater & 41,10 CAS-MCF 7.5 mscf WATER-BE 7 bwpd	15% HCL 80# 20/40 WATERB	Acid, frac v Brady Sand WELL STATUS SI BL	(Producing or shul-in) GAS-OIL RATIO OIL GRAVITY-API (CORR.)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department of agency of the VAY 2 1 2009
United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

ANAMATON FIRM OFFICE

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Ojo Alamo	2846′	2950′	White, cr-gr ss.	Ojo Alamo	2846'
Kirtland	2950'	3417' .	Gry sh interbedded w/tight, gry, fine-gr ss.	Kirtland	2950
Fruitland	3417′	3699′	Dk gry-gry carb sh, coal, grn silts, light-	Fruitland	3417'
			med gry, tight, fine gr ss.		
Pictured Cliffs	3699'	3821'	Bn-Gry, fine grn, tight ss.	Pic.Cliffs	36991
Lewis	3821′	4488'	Shale w/siltstone stringers	Lewis	3821′
Huerfanito Bentonite	4488′	4871'	White, waxy chalky bentonite	Huerfanito Bent.	4488′
Chacra	4871′	5422'	Gry fn grn silty, glauconitic sd stone	Chacra	4871′
			w/drk gry shale	Mesa Verde	5422′
Mesa Verde	5422′	5749'	Light gry, med-fine gr ss, carb sh	Menefee	5749′
			& coal	Point Lookout	6024′
Menefee	5749′	6024'	Med-dark gry, fine gr ss, carb sh & coal	Mancos	6417′
Point Lookout	6024'	6417'	Med-light gry, very fine gr ss w/frequent	Gallup	7267′
			sh breaks in lower part of formation	Greenhorn	7988′
Mancos	6417′	7267′	Dark gry carb sh.	Graneros	8037′
Gallup	7267′	7988′	Lt gry to brn calc carb micac glauc	Dakota	8144'
			silts & very fine gr gry ss w/irreg.interbed sh		
Greenhorn	7988′	8037′	Highly calc gry sh w/thin lmst.		
Graneros	8037′	8144'	Dk gry shale, fossil & carb w/pyrite incl.		
Dakota	8144′		Lt to dk gry foss carb sl calc sl silty		
			ss w/pyrite incl thin sh bands clay & shale break	KS	

(October 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE (See other In-structions on reverse side)

FOR APPROVED

OMB	NO.	1004	-01	37
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Expires December 31, 1991
5 LEASE DESIGNATION AND SERIAL NO

S	F.	07	72	qq	7

												SF-078997		
ELL C	OMP	LETIO	NOR	REC	OMP	LETIC	ON REF	PORTANI	$\sum_{i} LC_{i}$)G*		(AN, ALLOTTEE (OR TRIBE NAME	
TYPE OF			OIL WELL		SAS X			U D Brown W	0	IVED	র		,	
			AAET.	ш,	VELL	1	ш				7 UNIT	AGREEMENT NAM	ME	
TYPE OF	COMPLE							MAY	• • •	1 2000		San Juan		
	WELL	WORK OVER	DEEP-		LUG	DIFF		MAI	4 V	2009	8. FARM	OR LEASE NAME	E, WELL NO	
						_		Pires :		_			30-5 Unit 73	N
NAME O	F OPERA	TOR						Bureau of t	ang	Managemer	9. API W	ELL NO.		
			ompany	<u> </u>				r arrilling	ton F	ield Office	_L	30-039-303		
	S AND TE									~~.	10 FIELD	AND POOL, OR		
			nington, N				6-9700					Blanco Me		
		LL (Hepon	t location ci	ieariy an	d in acco	ordance w	ntn any State	requirements)*			1	, t , h , m., or bl area RCU	D MAY 22	· 'ሳባ
At surface											1			
-			2080' FEL									OIL	. CONS. DI	V.
At top pro	od. interval	reported b	oe iow								Sec. 10,	T30N, R5W,	NMPM	
At total de	eoth U	Init H (SE	ENE) 1893	3' FNL	% 778' F	EL					1		DIST. 3	
											i			
						14 PEF	MIT NO.	DATE ISSU	ED		12. COU	NTY OR	13 STATE	
								i			PAR		lana.	
DATE SPU	IDDED 144	DATET	D REACHED	D 11	7. DATE	COMPL /	Ready to prod.	<u>, l</u>	18 5	EVATIONS (DF, F	Rio Aribb		NM 19 ELEV CASI	INGHEAD
5/2/08	["	. DAIL!	10/29/08	- 1		5/5/09		•		6527' KB		.,,	I'S FFEA CAD	- VOLIEAD
	PTH, MD &T	TVD .	21 PLUG, E		., MD &TV		F MULTIPLE C		23. IN	TERVALS	ROTARY TO	OOLS	CABLE TOOLS	
		į				l		MANY*	D	RILLED BY	,		1	
8273'/80		(A) (C) CE -	8259'/		ND 007	014 1111	2		<u> </u>		yes	lae		·····
PHODUCT	ION INTER	VAL (S) OF T	IHIS COMPL	EHON-TO	JP, BUIT	OM, NAME	(MD AND TVE	<i>)</i> 1⁻				25. WAS DIRECT		
Blanco	Mesa V	erde 54/	124' - 633	34'								1	Yes	
	CTRIC AND	OTHER LOC	GS RUN								27. WAS W	ELL CORED		
BR/CE	3L/CCL												No	
						CAS	ING RECOR	D (Report all strii	ngs set	in well)				
	E/CDADE	WEIGH	T, LB/FT.	DEDT	H SET (N	40)	HOLE SIZE	TODOFO	CASCAIT	CEMENTING RE	CODD	Λ/	MOUNT PULLED	
												^		
9 5	/8" H-40		32.3#	2	30'	12	1/4"	TOC Surface	75sx	(120cf-21 bb	ls)		3 bbls	
9 5 7"	/8" H-40 L-80		32.3# 23#	4	30' 741'	12 8 3	1/4 " /4"	TOC Surface	75sx 750s	(120cf-21 bbl x (1553cf-276	is) Sbbis)	A.		
7"	/8" H-40		32.3# 23# 11.6#	2 4 8	30'	12	1/4 " /4"	TOC Surface TOC Surface TOC 2750' 19	75sx 750s	(120cf-21 bb	ls) 6bbls) s)		3 bbls	
9 5 7" 4 1,	/8" H-40 L-80		32.3# 23#	4 8 ECORD	30' 741'	12 8 3 6 1	1/4 " /4"	TOC Surface	75sx 750s	(120cf-21 bbl x (1553cf-276	is) Sbbis) s) TUB	ING RECORD	3 bbls	
9 5 7" 4 1,	/8" H-40 L-80 /2" L-80		32.3# 23# 11.6# LINER RI	4 8 ECORD	30' 741' 232'	12 8 3 6 1	1/4" /4" /4"	TOC Surface TOC Surface TOC 2750' 19	75sx 750s 92 sx((120cf-21 bbl x (1553cf-276 540cf-96 bbls	is) Sbbis) s) TUB	ING RECORD	3 bbls 75 bbls	
9 5 7" 4 1,	78" H-40 L-80 72" L-80) Вот	32.3# 23# 11.6# LINER RI TOM (MD)	4 8 ECORD SACK	30' 741' 232'	12 8 3 6 1	1/4" /4" /4"	TOC Surface TOC Surface TOC 2750' 19 30. SIZE 2 3/8" 4.7# L	75sx 750s 92 sx((120cf-21 bb) x (1553cf-276 540cf-96 bbls DEPTH SE 8193'	Is) Sbbis) S) TUB	NG RECORD	3 bbls 75 bbls ACKER SET (MD)	
9 5 7" 4 1/	7/8" H-40 L-80 72" L-80 TOP (MD) BOTI	32.3# 23# 11.6# LINER RI	2 4 8 ECORD SACK	30' 741' 232'	12 8 3 6 1 7 8 32	1/4" /4" /4" CREEN (MD)	TOC Surface TOC Surface TOC 2750' 19 30. SIZE 2 3/8" 4.7# L	75sx 750s 92 sx(-80	(120cf-21 bb) x (1553cf-276 540cf-96 bbls DEPTH SE 8193'	Is) 5bbis) TUB T (MD)	NG RECORD PA	3 bbls 75 bbls ACKER SET (MD)	
9 5 7" 4 1/ SIZE PERFORAT	78" H-40 L-80 72" L-80 TOP (MD) BOTH	32.3# 23# 11.6# LINER RI TOM (MD)	2 4 8 ECORD SACK	30' 741' 232'	12 8 3 6 1 7 8 32	1/4" /4" /4"	TOC Surface TOC Surface TOC 2750' 19 30. SIZE 2 3/8" 4.7# L	75sx 750s 750s 92 sx(-80	(120cf-21 bb) x (1553cf-276 540cf-96 bbls DEPTH SE 8193' HOT, FRACTUR Ize w/10bbls	TUB T(MD) TE, CEMENT 15% HCL	NG RECORD PA SQUEEZE, E Acid, frac w/	3 bbls 75 bbls ACKER SET (MD) TC. 49,390 gal 60	
9 5 7" 4 1/ 6 1/ 9 ERFORAT .34 diar 5' -6334'	78" H-40 L-80 72" L-80 TOP (MD TION RECOIM @ 1SP = 26 hole) BOTH	32.3# 23# 11.6# LINER RI TOM (MD)	2 4 8 ECORD SACK	30' 741' 232'	12 8 3 6 1 7 8 32	1/4" /4" /4" CREEN (MD)	TOC Surface TOC Surface TOC 2750' 19 30. SIZE 2 3/8" 4.7# L	75sx 750s 750s 92 sx(-80	(120cf-21 bb) x (1553cf-276 540cf-96 bbls DEPTH SE 8193' HOT, FRACTUR Ize w/10bbls	TUB T(MD) TE, CEMENT 15% HCL	NG RECORD PA SQUEEZE, E Acid, frac w/	3 bbls 75 bbls ACKER SET (MD)	
9 5, 7" 4 1, SIZE PERFORAT 0 .34 diar 5' -6334' F/CH @ 1	78" H-40 L-80 72" L-80 TOP (MD TION RECOIM @ 1SP = 26 hole) BOTT	32.3# 23# 11.6# LINER RI TOM (MD)	2 4 8 ECORD SACK	30' 741' 232'	12 8 3 6 1 7 8 32	1/4" /4" /4" CREEN (MD)	TOC Surface TOC Surface TOC 2750' 19 30. SIZE 2 3/8" 4.7# L	75sx 750s 750s 92 sx(-80	(120cf-21 bb) x (1553cf-276 540cf-96 bbls DEPTH SE 8193' HOT, FRACTUR Ize w/10bbls	TUB T(MD) TE, CEMENT 15% HCL	NG RECORD PA SQUEEZE, E Acid, frac w/	3 bbls 75 bbls ACKER SET (MD) TC. 49,390 gal 60	
9 5 7" 4 1, 4 1, 6ize PERIFORAT .34 diar ''-6334'	TOP (MD TION RECOIM ### 15P ### 26 hold) BOTT	32.3# 23# 11.6# LINER RI TOM (MD)	2 4 8 ECORD SACK	30' 741' 232'	12 8 33 6 17 32 580	1/4" /4" /4" CREEN (MD)	TOC Surface TOC Surface TOC 2750' 19 30. SIZE 2 3/8" 4.7# L	75sx 750s 750s 92 sx(-80 -80 Acidi N2 Si 1,160	(120cf-21 bb) x (1553cf-276 540cf-96 bbls DEPTH SE 8193' HOT, FRACTUR Ize w/10bbls lickfoam w/10	TUB TUB T (MD) E, CEMENT 15% HCL 02,853# 20	ING RECORD PA I SQUEEZE, E Acid, frac w/ W40 Brady Sa	3 bbls 75 bbls ACKER SET (MD) TC. 49,390 gal 60	
9 5 7" 4 1/4 1/5 4 1/4 1/5 5 1/4 1/5	TOP (MD TION RECOIM ## 1SP ## 25 hold ## 25 hold) BOTT	32.3# 23# 11.6# LINER RI TOM (MD)	2 4 8 ECORD SACK	30' 741' 232'	12 8 33 6 17 32 580	1/4" /4" /4" CREEN (MD)	TOC Surface TOC Surface TOC 2750' 19 30. SIZE 2 3/8" 4.7# L	75sx 750s 750s 92 sx(-80 -80 Acidi N2 Si 1,160	(120cf-21 bb) x (1553cf-276 540cf-96 bbls DEPTH SE 8193' HOT, FRACTUR IZE W/10bbls ICKYOAM W/10, 0,000SCF IZE W/10 bbls foam w/87,71	TUB TUB T (MD) TE, CEMENT 15% HCL 15% HCL	r squeeze, e Acid, frac w//40 Brady Sa	3 bbls 75 bbls ACKER SET (MD) TC. 49,390 gal 60 and. Total N2-	
9 5 7" 4 1/4 1/5 1/5 1/5 1/5 1/5 1/5 1/5 1/5 1/5 1/5	TOP (MD TION RECOIM ## 1SP ## 25 hold ## 25 hold) BOTT	32.3# 23# 11.6# LINER RI TOM (MD)	2 4 8 ECORD SACK	30' 741' 232'	12 8 33 6 17 32 580	1/4" /4" CREEN (MD) 6' - 6334'	TOC Surface TOC Surface TOC 2750' 19 30. SIZE 2 3/8" 4.7# L	75sx 750s 750s 92 sx(-80 -80 Acidi N2 Si 1,160	(120cf-21 bb) x (1553cf-276 540cf-96 bbls DEPTH SE 8193' HOT, FRACTUR IZE W/10bbls lickfoam w/10 0,000SCF	TUB TUB T (MD) TE, CEMENT 15% HCL 15% HCL	r squeeze, e Acid, frac w//40 Brady Sa	3 bbls 75 bbls ACKER SET (MD) TC. 49,390 gal 60 and. Total N2-	
9 5 7" 4 1/ SIZE PERFORAT .34 diar ' -6334' //CH @ 1 ' - 5736'	/8" H-40 L-80 TOP (MD TION RECOIM @ 1SP = 26 hold ISPF = 25 hold) BOTT	32.3# 23# 11.6# LINER RI TOM (MD)	2 4 8 8 ECORD SACK	(30' (741' (232' (30EMEN	12 8 3, 6 1, 17 Si 32, 580	1/4" /4" CREEN (MD) 6' - 6334' 4' - 2736'	TOC Surface TOC Surface TOC 2750' 19 30. SIZE 2 3/8" 4.7# L	75sx 750s 750s 92 sx(-80 -80 Acidi N2 Si 1,160 Acidi Slick 1,227	(120cf-21 bb) x (1553cf-276 540cf-96 bbls DEPTH SE 8193' HOT, FRACTUR IZE W/10bbls ICKYOAM W/10, 0,000SCF IZE W/10 bbls foam w/87,71	TUB TUB T (MD) TE, CEMENT 15% HCL 15% HCL	r SQUEEZE, E Acid, frac w/ 0/40 Brady Sa Acid, frac w/ Brady Sand.	3 bbls 75 bbls ACKER SET (MD) TC. 49,390 gal 60 and. Total N2- /47,166 gal 60 Total N2-	DQ .
9 5 7" 4 1/ SIZE PERFORAT .34 diar ' -6334' /CH @ 1 ' - 5736' I holes =	TOP (MD TION RECOIM ## 1SP ## 25 hold ## 25 hold	BOTT BRD (Interval, Fees	32.3# 23# 11.6# LINER RI TOM (MD)	2 4 8 8 ECORD SACK	(30' (741' (232' (30EMEN	12 8 3, 6 1, 17 St 32, 580 542	1/4" /4" CREEN (MD) 6' - 6334' 4' - 2736'	TOC Surface TOC Surface TOC 2750' 19 30. SIZE 2 3/8" 4.7# L	75sx 750s 750s 92 sx(-80 -80 Acidi N2 Si 1,160 Acidi Slick 1,227	(120cf-21 bb) x (1553cf-276 540cf-96 bbls DEPTH SE 8193' HOT, FRACTUR IZE W/10bbls ICKYOAM W/10, 0,000SCF IZE W/10 bbls foam w/87,71	TUB TUB T (MD) IE, CEMENT 15% HCL 02,853# 20 15% HCL 6# 20/40 I	r SQUEEZE, E Acid, frac w/ 0/40 Brady Sa Acid, frac w/ Brady Sand.	3 bbls 75 bbls ACKER SET (MD) TC. 49,390 gal 60 and. Total N2-	DQ .
9 5 7" 4 1. SIZE PERFORAT .34 diar 3'-6334' 5'-6736' I holes =	1/8" H-40	BOTT BRD (Interval, Fees	32.3# 23# 11.6# LINER RI TOM (MD) size and nur	2 4 8 8 ECORD SACK	THOO (FI	12 8 3, 6 1, 17 St 32 580 542 542	1/4" /4" /4" /4" CREEN (MD) 6' - 6334' 4' - 2736'	TOC Surface TOC Surface TOC 2750' 19 30. SIZE 2 3/8" 4.7# L AC PRODUCTION	75sx 750s 750s 92 sx(-80 -80 Acidi N2 Si 1,160 Acidi Slick 1,227	(120cf-21 bb) x (1553cf-276 540cf-96 bbls DEPTH SE 8193' HOT, FRACTUR Ize w/10bbls lickfoam w/10 0,000SCF Ize w/10 bbls foam w/87,71 7,000 SCF	TUB TUB T (MD) IE, CEMENT 15% HCL 02,853# 20 15% HCL 6# 20/40 I	ING RECORD PA I SQUEEZE, E Acid, frac w/ Well status (I	3 bbls 75 bbls ACKER SET (MD) TC. 49,390 gal 60 and. Total N2- /47,166 gal 60 Total N2-	DQ .
9 5 7" 4 1. SIZE PERFORAT 3.4 diar 3'-6334' F/CH @ 1 1' - 5736' I holes = FIRST PRC SI W/O F OF TEST	1/8" H-40	BOTTI RD (Interval, F F BBS Very HOURS TE	32.3# 23# 11.6# LINER RI TOM (MD) size and nur	2 4 8 8 ECORD SACK	THOO (FI	12 8 3, 6 1, 17 St 32, 580 542	1/4" /4" /4" /4" CREEN (MD) 6' - 6334' 4' - 2736'	TOC Surface TOC Surface TOC 2750' 19 30. SIZE 2 3/8" 4.7# L AC PRODUCTION	75sx 750s 750s 92 sx(-80 -80 Acidi N2 Si 1,160 Acidi Slick 1,227	(120cf-21 bb) x (1553cf-276 540cf-96 bbls DEPTH SE 8193' HOT, FRACTUR IZE W/10bbls lickfoam w/10 0,000SCF IZE W/10 bbls foam w/87,71 7,000 SCF	S) TUB TUB T (MD) E, CEMENT 15% HCL 02,853# 20 15% HCL 6# 20/40 E	ING RECORD PA I SQUEEZE, E Acid, frac w/ Well status (I	3 bbls 75 bbls ACKER SET (MD) TC. 49,390 gal 60 and. Total N2- /47,166 gal 60 Total N2-	DQ .
9 5 7" 4 1/ SIZE PERFORAT .34 diar '-6334' '-5736' I holes = FIRST PRC SI W/O F OF TEST	TOP (MD TOP (M	PRD (Interval, Feb. 1) BOTT BOTT BOTT BOTT BOTT BOTT BOTT BOT	32.3# 23# 11.6# LINER RI TOM (MD) PRODUCESTED	2 4 8 8 ECORD SACK	THOO (F)	12 8 3, 6 1, 17 Si 32 580 542 542 542 FROD'N FI	1/4" /4" CREEN (MD) 6' - 6334' 4' - 2736' Iff, pumping-s OR OILE	TOC Surface TOC Surface TOC 2750' 19 30. SIZE 2 3/8" 4.7# L AC PRODUCTION Size and type of pum 3BL	75sx 750s 750s 92 sx(-80 -80 Acidi N2 Si 1,160 Acidi Slick 1,227	(120cf-21 bb) x (1553cf-276 540cf-96 bbls DEPTH SE 8193' HOT, FRACTUR IZE W/10bbls Ickfoam w/10 0,000SCF IZE w/10 bbls foam w/87,71 7,000 SCF	S) Sbbis) TUB T (MD) TE, CEMENT 15% HCL 02,853# 20 15% HCL 6# 20/40 E	ING RECORD PA I SQUEEZE, E Acid, frac w/ Well status (I	3 bbls 75 bbls ACKER SET (MD) TC. 49,390 gal 60 and. Total N2- V47,166 gal 60 Total N2- Producing or shul-i	DQ n)
9 5 7" 4 1/ 4 1/ 4 1/ 4 1/ 4 1/ 4 1/ 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	TOP (MD TOP (M	PRD (Interval, Feb. 1) BOTT BOTT BOTT BOTT BOTT BOTT BOTT BOT	32.3# 23# 11.6# LINER RI TOM (MD) size and nur	2 4 8 8 ECORD SACK	THOO (FI	12 8 3, 6 1, 17 St 32 580 542 542	1/4" /4" CREEN (MD) 6' - 6334' 4' - 2736' Iff, pumping-s OR OILE	TOC Surface TOC Surface TOC 2750' 19 30. SIZE 2 3/8" 4.7# L AC PRODUCTION	75sx 750s 750s 92 sx(-80 -80 Acidi N2 Si 1,160 Acidi Slick 1,227	(120cf-21 bb) x (1553cf-276 540cf-96 bbls DEPTH SE 8193' HOT, FRACTUR IZE W/10bbls lickfoam w/10 0,000SCF IZE W/10 bbls foam w/87,71 7,000 SCF	S) Sbbis) TUB T (MD) TE, CEMENT 15% HCL 02,853# 20 15% HCL 6# 20/40 E	ING RECORD PA I SQUEEZE, E Acid, frac w/ Well status (I	3 bbls 75 bbls ACKER SET (MD) TC. 49,390 gal 60 and. Total N2- /47,166 gal 60 Total N2-	DQ n)
9 5 7" 4 1/ 4 1/ 4 1/ 4 1/ 4 1/ 4 1/ 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	TOP (MD TOP (M	PRD (Interval, Feb. 1) BOTT BOTT BOTT BOTT BOTT BOTT BOTT BOT	32.3# 23# 11.6# LINER RI TOM (MD) PRODUCESTED	2 4 8 8 ECORD SACK	THOO (FI	12 8 3, 6 1, 17 Si 32. 580 Si 542 Si PROD'N FI TEST PER OILBBI	1/4" /4" CREEN (MD) 6' - 6334' 4' - 2736' Iff, pumping-s OR OILE	TOC Surface TOC Surface TOC 2750' 19 30. SIZE 2 3/8" 4.7# L AC PRODUCTION Size and type of pum SBL GAS-MCF	975sx 9750s 9750s 92 sx(-80 -80 -80 -80 -80 -80 -80 -80 -80 -80	(120cf-21 bb) x (1553cf-276 540cf-96 bbls DEPTH SE 8193' HOT, FRACTUR IZE W/10 bbls ICK/10am w/10 0,000SCF IZE W/10 bbls foam w/87,71 7,000 SCF	S) Sbbis) TUB T (MD) TE, CEMENT 15% HCL 02,853# 20 15% HCL 6# 20/40 E	ING RECORD PA I SQUEEZE, E Acid, frac w/ Well status (I	3 bbls 75 bbls ACKER SET (MD) TC. 49,390 gal 60 and. Total N2- V47,166 gal 60 Total N2- Producing or shul-i	DQ n)
9 5 7" 4 1/ 4 1/ 6/2E PERFORAN 34 diar ' -6334' /CH @ 1 ' - 5736' holes = FIRST PRC BI W/O F DF TEST 1/22/09 TUBING F	18" H-40 L-80 TOP (MD TOP (M	BOTT RD (Interval, Fees ess ery HOURS TE 1 CASING PI 568#	32.3# 23# 11.6# LINER RI TOM (MD) PRODUCESTED	2 4 8 8 ECORD SACK THOM ME F CHOKE: 1/2" CALCUL 24-HOUF	THOO (FI	12 8 3, 6 1, 17 Si 32 580 542 542 542 FROD'N FI	1/4" /4" CREEN (MD) 6' - 6334' 4' - 2736' Iff, pumping-s OR OILE	TOC Surface TOC Surface TOC 2750' 19 30. SIZE 2 3/8" 4.7# L AC PRODUCTION Size and type of pum BBL	975sx 9750s 9750s 92 sx(-80 -80 -80 -80 -80 -80 -80 -80 -80 -80	(120cf-21 bb) x (1553cf-276 540cf-96 bbls DEPTH SE 8193' HOT, FRACTUR IZE W/10bbls Ickfoam w/10 0,000SCF IZE w/10 bbls foam w/87,71 7,000 SCF	S) Sbbis) TUB T (MD) TE, CEMENT 15% HCL 02,853# 20 15% HCL 6# 20/40 E	ING RECORD PA I SQUEEZE, E Acid, frac w/ Well status (I	3 bbls 75 bbls ACKER SET (MD) TC. 49,390 gal 60 and. Total N2- Producing or shut-i	DQ n)
9 5 7" 4 1 SIZE PERFORAN .34 diar '-6334' '-6334' '-5736' I holes = FIRST PRC SI W/O F OF TEST 4/22/09 TUBING F	18" H-40 L-80 TOP (MD TOP (M	BOTT RD (Interval, Fees ess ery HOURS TE 1 CASING PI 568#	32.3# 23# 11.6# LINER RI TOM (MD) PRODUCESTED RESSURE	2 4 8 8 ECORD SACK THOM ME F CHOKE: 1/2" CALCUL 24-HOUF	THOO (FI	12 8 3, 6 1, 17 Si 32. 580 Si 542 Si PROD'N FI TEST PER OILBBI	1/4" /4" CREEN (MD) 6' - 6334' 4' - 2736' Iff, pumping-s OR OILE	TOC Surface TOC Surface TOC 2750' 19 30. SIZE 2 3/8" 4.7# L AC PRODUCTION Size and type of pum SBL GAS-MCF	975sx 9750s 9750s 92 sx(-80 -80 -80 -80 -80 -80 -80 -80 -80 -80	(120cf-21 bb) x (1553cf-276 540cf-96 bbls DEPTH SE 8193' HOT, FRACTUR IZE W/10 bbls ICK/10am w/10 0,000SCF IZE W/10 bbls foam w/87,71 7,000 SCF	S) Sbbis) TUB T (MD) TE, CEMENT 15% HCL 02,853# 20 15% HCL 6# 20/40 E	ING RECORD PA I SQUEEZE, E Acid, frac w//40 Brady Sa Acid, frac w/ Brady Sand. WELL STATUS (I	3 bbls 75 bbls ACKER SET (MD) TC. 49,390 gal 60 and. Total N2- Producing or shut-i	DQ n)
9 5 7" 4 1. SIZE PERFORAN .34 diar .34	18" H-40 L-80 TOP (MD TOP (M	PERD (Interval, Fees Pees Pees Pees Pees Pees Pees Pees	32.3# 23# 11.6# LINER RI TOM (MD) PRODUCESTED RESSURE	2 4 8 8 ECORD SACK THOM ME F CHOKE: 1/2" CALCUL 24-HOUF	THOO (FI	12 8 3, 6 1, 17 Si 32. 580 Si 542 Si PROD'N FI TEST PER OILBBI	1/4" /4" CREEN (MD) 6' - 6334' 4' - 2736' Iff, pumping-s OR OILE	TOC Surface TOC Surface TOC 2750' 19 30. SIZE 2 3/8" 4.7# L AC PRODUCTION Size and type of pum SBL GAS-MCF	975sx 9750s 9750s 92 sx(-80 -80 -80 -80 -80 -80 -80 -80 -80 -80	(120cf-21 bb) x (1553cf-276 540cf-96 bbls DEPTH SE 8193' HOT, FRACTUR IZE W/10 bbls ICK/10am w/10 0,000SCF IZE W/10 bbls foam w/87,71 7,000 SCF	S) Sbbis) TUB T (MD) TE, CEMENT 15% HCL 02,853# 20 15% HCL 6# 20/40 E	ING RECORD PA I SQUEEZE, E Acid, frac w//40 Brady Sa Acid, frac w/ Brady Sand. WELL STATUS (I	3 bbls 75 bbls ACKER SET (MD) TC. 49,390 gal 60 and. Total N2- Producing or shut-i	DQ n)
9 5 7" 4 1. SIZE PERFORAT .34 diar .34	I/8" H-40 L-80 TOP (MD TOP (MD TION RECOIM 1 SPF = 26 hold SPF = 25 hold First Deliv PRESS. 730# DN OF GAS TACHMENT A Basin C	PRD (Interval, F F P P P P P P P P P P P P P P P P P	32.3# 23# 11.6# LINER RITOM (MD) PRODUCE PRODUCE PRODUCE RESSURE For fuel, vente Sold Ianco Mee	24 4 8 8 ECORD SACK The sack sack sack sack sack sack sack sack	THOO (FI	12 8 3, 6 1, 17 St 580 542 542 542 OitBBI 0	1/4" /4" CREEN (MD) 16' - 6334' 4' - 2736' iift, pumpling-s OR OIL-E OD O	TOC Surface TOC Surface TOC Surface TOC 2750' 19 30. SIZE 2 3/8" 4.7# L. AC PRODUCTION Size and type of pum SBL GAS-MCF 2376 mcf/d	9 75sx 9 750s 9 2 sx(-80 -80 -80 -80 -80 -80 -80 -80 -80 -80	(120cf-21 bb) x (1553cf-276 540cf-96 bbls DEPTH SE 8193' HOT, FRACTUR IZE W/10bbls lickfoam w/10 0,000SCF IZE W/10 bbls foam w/87,71 0,000 SCF MCF WATER-BE	S) Sbbis) TUB T (MD) TE, CEMENT 15% HCL 02,853# 20 15% HCL 6# 20/40 E	ING RECORD PA I SQUEEZE, E Acid, frac w//40 Brady Sa Acid, frac w/ Brady Sand. WELL STATUS (I	3 bbls 75 bbls ACKER SET (MD) TC. 49,390 gal 60 and. Total N2- Producing or shut-i	DQ n)
9 5 7" 4 1. SIZE PERFORAT 0 .34 diar 3'-6334' F/CH @ 1 1'-5736' Il holes = FIRST PRO SI W/O F OF TEST 4/22/09 7. TUBING F DISPOSITIO LIST OF AT will be a	I/8" H-40 L-80 TOP (MD TOP (MD TION RECOIM 1 SPF = 26 hold SPF = 25 hold First Deliv PRESS. 730# DN OF GAS TACHMENT A Basin C	PRD (Interval, F F P P P P P P P P P P P P P P P P P	32.3# 23# 11.6# LINER RITOM (MD) PRODUCE PRODUCE PRODUCE RESSURE For fuel, vente Sold Ianco Mee	24 4 8 8 ECORD SACK The sack sack sack sack sack sack sack sack	THOO (FI	12 8 3, 6 1, 17 St 580 542 542 542 OitBBI 0	1/4" /4" CREEN (MD) 16' - 6334' 4' - 2736' iift, pumpling-s OR OIL-E OD O	TOC Surface TOC Surface TOC Surface TOC 2750' 19 30. SIZE 2 3/8" 4.7# L AC PRODUCTION Size and type of pum SBL GAS-MCF 2376 mcf/d	9 75sx 9 750s 9 2 sx(-80 -80 -80 -80 -80 -80 -80 -80 -80 -80	(120cf-21 bb) x (1553cf-276 540cf-96 bbls DEPTH SE 8193' HOT, FRACTUR IZE W/10bbls lickfoam w/10 0,000SCF IZE W/10 bbls foam w/87,71 0,000 SCF MCF WATER-BE	S) Sbbis) TUB T (MD) TE, CEMENT 15% HCL 02,853# 20 15% HCL 6# 20/40 E	ING RECORD PA I SQUEEZE, E Acid, frac w//40 Brady Sa Acid, frac w/ Brady Sand. WELL STATUS (I	3 bbls 75 bbls ACKER SET (MD) TC. 49,390 gal 60 and. Total N2- Producing or shut-i	DQ n)
9 5 7" 4 1. SIZE PERFORAN 3-4 diar 3-6334' 5'-6334' 5'-6736' 1 holes = FIRST PRO SI W/O F OF TEST 4/22/09 TUBING F DISPOSITIO	TOP (MD TOP (M	BOTTO BO	32.3# 23# 11.6# LINER RITOM (MD) PRODUCE PRODUCE PRODUCE RESSURE For fuel, vente Sold Ianco Mee	2 4 8 8 ECORD SACK The sack sack sack sack sack sack sack sack	THOO (FI	12 8 3, 6 1, 17 St 580 542 542 542 OiL-BBI O being D e and corre	1/4" 1/4" CREEN (MD) 16' - 6334' 4' - 2736' Iift, pumpling-s OR OIL-E OD O	TOC Surface TOC Surface TOC Surface TOC 2750' 19 30. SIZE 2 3/8" 4.7# L. AC PRODUCTION Size and type of pum SBL GAS-MCF 2376 mcf/d	9 75sx 9 750s 9	(120cf-21 bb) x (1553cf-276 540cf-96 bbls DEPTH SE 8193' HOT, FRACTUR IZE W/10bbls lickfoam w/10 0,000SCF IZE W/10 bbls foam w/87,71 0,000 SCF MCF WATER-BE	S) TUB TUB T (MD) SE, CEMENT 15% HCL 02,853# 20 15% HCL 6# 20/40 E	ING RECORD PA I SQUEEZE, E Acid, frac w//40 Brady Sa Acid, frac w/ Brady Sand. WELL STATUS (I	3 bbls 75 bbls ACKER SET (MD) TC. 49,390 gal 60 and. Total N2- Producing or shut-i	DQ n)

United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



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Ojo Alamo	2846′	2950′	White, cr-gr ss.	Ojo Alamo	2846′
Kirtland	2950′	3417′	Gry sh interbedded w/tight, gry, fine-gr ss.	Kirtland	2950
Fruitland	3417′	3699′	Dk gry-gry carb sh, coal, grn silts, light-	Fruitland	3417'
			med gry, tight, fine gr ss.		
Pictured Cliffs	3699′	3821'	Bn-Gry, fine grn, tight ss.	Pic.Cliffs	3699'
Lewis	3821′	4488'	Shale w/siltstone stringers	Lewis	3821′
Huerfanito Bentonite	4488′	4871′	White, waxy chalky bentonite	Huerfanito Bent.	4488'
Chacra	4871′	5422′	Gry fn grn silty, glauconitic sd stone	Chacra	4871'
		-	w/drk gry shale	Mesa Verde	5422′
Mesa Verde	5422′	5749′	Light gry, med-fine gr ss, carb sh	Menefee	5749'
·			& coal	Point Lookout	6024′
Menefee	5749′	6024'	Med-dark gry, fine gr ss, carb sh & coal	Mancos	6417′
Point Lookout	6024'	6417'	Med-light gry, very fine gr ss w/frequent	Gallup	7267′
			sh breaks in lower part of formation	Greenhorn	7988′
Mancos	6417′	7267′	Dark gry carb sh.	Graneros	8037′
Gallup	7267′	7988′	Lt gry to brn calc carb micac glauc	Dakota	8144′
			silts & very fine gr gry ss w/irreg.interbed sh	•	
Greenhorn	7988′	8037′	Highly calc gry sh w/thin lmst.		
Graneros	8037′	8144′	Dk gry shale, fossil & carb w/pyrite incl.		
Dakota	8144′		Lt to dk gry foss carb sl calc sl silty		
			ss w/pyrite incl thin sh bands clay & shale brea	ks	

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