UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

FOR APPROVED

(See other Instructions on SEX. See Other InStructions on SEX. See Other InSection See Other InSection

											ł	SF- 0842 5	078425
WELL C	OMPL	ETIO	N OR R	ECO	MPLE	TI	ON REPO	RT AND	LOC	5 2009	6 IF	INDIAN, ALLOTTE	E OR TRIBE NAME
ta. TYPE OF			OIL WELL		SAS X		DRY Other				١.		~!!!
				ш °	WELL			Rumau	ofla	nd Manager	hemun	NT AGREEMENT	NAME
b TYPE OF	COMPLET	TION:						Fam	oi La	n Field Office	e H	San Juan 2	29-7 Unit ✓
	NEW X	WORK	DEEP-EN		PLUG BACK		DIFF RESVR Other	1 (2)	ııı ığızı		8 FA	RM OR LEASE N	AME, WELL NO.
	WELL] OAEII		— °			HESVR			-	1	San Juan 2	29-7 Unit 139M
2 NAME OF	OPERAT	OR									9 AP	I WELL NO	
BU	IRLING?	TON RE	SOURCES	S OIL &	& GAS	COI	WPANY					30-039-305	07-00CZ
3 ADDRESS	AND TEL	EPHONE	NO.								10 F	IELD AND POOL,	OR WILDCAT
			nington, NM				326-9700					Blanco MV	
4 LOCATION				-			vith any State req	uirements)*			1		BLOCK AND SURVEY
At surface	Uı	nit B (N	W NW) 1080'	' FNL, 2	2300' FE	L					9	OR AREA	
			NE	_	_						İ		ON R7W, NMPM
At top prod	d. interval	reported I	below	Sam	e as at	ov	е					KGVU	EO'05 AAM
At total do	nth C	ama a	s above									OIL C	ONS. DIV.
At total de	pui 🔾	anie u	Jabore									h'g	IST. A
					F	14. F	PERMIT NO.	DATE ISSUE	D		12 C	OUNTY OR	13. STATE
					ŀ						'	PARISH	
	50=0 Ls	5.TF T	D. DEAGUED		7 DATE C	OMB	L (Ready to prod)	J ,	La E	E. (1990) (1995)	(2.53.	Rio Arriba	New Mexico
15 DATE SPUE	0/09	1/30/	D REACHED	ľ			Closed Loc		GL	EVATIONS (DF, R 6764'	кв, нт. t КВ	6780'	19. ELEV CASINGHEAD
20. TOTAL DEP			21 PLUG, BAC	CKTDN			22. IF MULTIPLE CO			TERVALS		Y TOOLS	CABLE TOOLS
							HOW N			RILLED BY			
	8096'			8080			2				yes	-	
24 PRODUCTION	ON INTERV	AL (S) OF	THIS COMPLETI	ION-TOP,	, BOTTOM,	NAME	E (MD AND TVD)*					25 WAS DIRECT SURVEY MA	
Blanco	Mesa V	erde 45	580' - 6164'									SURVET MA	No
26 TYPE ELEC	TRIC AND	THER LO	GS RUN								27 WAS	S WELL CORED	
GR/CC	L/CBL										1		No
28	***************************************					CAS	SING RECORD (/	Report all strings	set in v	vell)			
CASING SIZE	/GRADE	WEIGH	IT, LBJFT.	DEPT	H SET (MI		HOLE SIZE			EMENTING RECO	RD	AN	NOUNT PULLED
					12 1/4" surface; 180 sx (230 cf-41 bbls)					19 bbls			
7"		20# J			3881'		8 3/4"	surface 631 s				TOC = 36	o'
4 1/2"		10.5#	11.6#J-55 LINER RE	نحسبه	3009'	!	6 1/4"		TUSX ((625 cf-112 b		PINC PECOND	
SIZE .	TOP (MD)	T an	TTOM (MD)	_	(S CEMENT	<u>- T</u>	SCREEN (MD)	30. SIZE		DEPTH SET (BING RECORD	CKER SET (MD)
- 5122	TOT (IND)	 	(IIID)	GAON	TO OLIMEIT	+	OCHLER (IND)	2 3/8" 4.7# J-	55	7979'	WID)		OKEN SET (MD)
		+		†		┪							
31 PERFORATI	ION RECOR	D (Interval	, size and numbe	er)		3	32.			T, FRACTURE,			
PLO/LMF @1						L	5772' - (8,965 gal 60Q N2
6164' -5772' = UMF/CH @19		S				ŀ			Slick	toam w/100,2	41# 20	/40 AZ Sand,	total N2-1,245,00
5278' - 5698;						⊦	5278' -			ze w/10 bble	HCI A	cid frac w/11	7,306 gal 60Q N2
Lewis @1SPI		•				F							total N2-1,156.000
4580' - 5034'	= 25 hole	8				r	4580' - 9						w/87,728# 20/40
Total holes =	75 /								AZ Sa	and. Total N2-	1,717	,300 SCF	
33. DATE FIRST PRO	DUCTION		PRODUCTION	ON MET	HOD (Flowin	na. na	PRC s lift, pumpingsize	ODUCTION and type of pump)				WELL STATUS /	Producing or shut-in)
3/13/09 C		op l		_	Flowing	a, ya	, p.apig 0.40	,po o. punip)			- I	SI	
DATE OF TEST		HOURS T	ESTED	CHOKE	SIZE P		N FOR OILB	BL	GAS	MCF	WATE		GAS-OIL RATIO
						EST F	PERIOD						
3/15/09		1	RESSURE		ATED -	0"	1.13 b		150.1		2 bw		OIL ORAYES ASSASS
FLOW. TUBING P	DECC I			C 41 C		OIL-	-DBL	GASMCF		WATERBBI	-		OIL GRAVITY-API (CORR)
	RESS	CASING P	RESSONE	CALCUL 24-HOUR				l					
	664#		589#	•		3	B bood	3604 mcf/d	-	48 bwad	/		
34 DISPOSITIO	664#		589#	24-HOUF		3	B bopd	3604 mcf/d	_	48 bwpd		TEST WITNESSEI	DBY
•	664# N OF GAS (3	Sold, usød To b e	589#	24-HOUF		3	3 bopd	3604 mcf/d		48 bwpd		TEST WITNESSE	D BY
34 DISPOSITION 35 LIST OF ATT	664# N OF GAS (3	Sold, usød To b e	589# for fuel, vented,	24-HOUF		3	3 bopd	3604 mcf/d	_	48 bwpd		TEST WITNESSEI	D BY
35 LIST OF ATT	664# N OF GAS (S ACHMENTS will be a	Sold, used To be Basin D	589# for fuel, vented, sold akota/Blanc	etc.)	a Verde v	vell t	peing DHC per	order number :	2999 /			TEST WITNESSE	D BY
35 LIST OF ATT	664# N OF GAS (S ACHMENTS will be a	Sold, used To be Basin D	589# for fuel, vented, sold akota/Blanc	etc.)	a Verde v	vell t		order number :	2999 /			TEST WITNESSEI	D BY
35 LIST OF ATT	664# N OF GAS (S ACHMENTS Will be a	To be Basin D	589# for fuel, vented, sold akota/Blanc d attached inform	etc.)	a Verde v	vell t	peing DHC per rect as determined f	order number i	2999 /			TEST WITNESSEI	
35 LIST OF ATT This 36 Thereby certa	664# N OF GAS (S ACHMENTS Will be a	To be Basin D	589# for fuel, vented, sold akota/Blanc d attached inform	etc.)	a Verde v	vell t	peing DHC per	order number i	2999 /	AZ.		TEST WITNESSE	3/23/09
35 LIST OF ATT	664# N OF GAS (S ACHMENTS Will be a	To be Basin D	589# for fuel, vented, e sold akota/Blance d attached inform // Www.	etc.)	a Verde v	vell t	peing DHC per rect as determined f	order number i rom all available rec ry Technician	2999 /	AZ.	DATE _		3/23/09
35 LIST OF ATT This 36 Thereby certs	664# N OF GAS (S FACHMENTS S will be a sity that the to	To be	589# for fuel, vented, e sold akota/Blance d attached inform ///// /// // See	etc.)	a Verde v	vell t	peing DHC per rect as determined f Staff Regulator d Spaces for	order number rom all available rec ry Technician	2999 / cords	AZ.	DATE _	ACCE	
35 LIST OF ATT This 36 Thereby carts SIGNED	664# N OF GAS (TACHMENTS will be a sty that the to	To be Basin D regoing an	589# for fuel, vented, e sold akota/Blance d attached inform *(See nakes it a crit	etc.) co Mesa mation is co	a Verde v complete ar TITLE uctions any pers	vell to	peing DHC per rect as determined f	order number of all available record all available record and a substitution of the condition of the conditi	2999 /	AZ. on Reverse say department	DATE Side) of age	ACCEI	3/23/09 PTED FOR RECORD
35 LIST OF ATT This 36 Thereby carts SIGNED	664# N OF GAS (TACHMENTS will be a sty that the to	To be Basin D regoing an	589# for fuel, vented, e sold akota/Blance d attached inform *(See nakes it a crit	etc.) co Mesa mation is co	a Verde v complete ar TITLE uctions any pers	vell to	being DHC per rect as determined to Staff Regulator d Spaces for mowingly and w presentations a	order number or all available record Technician Additional Experiments of the control of the co	2999 /	AZ. on Reverse say department	DATE Side) of age	ACCEI	3/23/09
35 LIST OF ATT This 36 Thereby carts SIGNED	664# N OF GAS (TACHMENTS will be a sty that the to	To be Basin D regoing an	589# for fuel, vented, e sold akota/Blance d attached inform *(See nakes it a crit	etc.) co Mesa mation is co	a Verde v complete ar TITLE uctions any pers	vell to	peing DHC per rect as determined f Staff Regulator d Spaces for nowingly and v	order number or all available record Technician Additional Experiments of the control of the co	2999 /	AZ. on Reverse say department	DATE Side) of age	ACCEI	3/23/09 PTED FOR RECORD

Ojo Alamo	2728′	2856'	White, cr-gr ss.	Ojo Alamo	2728′
Kirtland	2856′	3259′	Gry sh interbedded w/tight, gry, fine-gr ss.	Kirtland	2856′
Fruitland	3259′	3595′	Dk gry-gry carb sh, coal, grn silts, light-	Fruitland	3259'
•		-	med gry, tight, fine gr ss.		
Pictured Cliffs	35 95 ′	3775′	Bn-Gry, fine grn, tight ss.	Pic.Cliffs	3595 '
Lewis	3775′	4250′	Shale w/siltstone stringers	Lewis	3775′
Huerfanito Bentonite	4250′	4574'	White, waxy chalky bentonite	Huerfanito Bent.	4250'
Chacra	4574′	5149′	Gry fn grn silty, glauconitic sd stone	Chacra	4574'
		•	w/drk gry shale	Mesa Verde	5149′
Mesa Verde	5149′	5468′	Light gry, med-fine gr ss, carb sh	Menefee	5468′
		•	& coal	Point Lookout	5778 <i>'</i>
Menefee	5468′	5778'	Med-dark gry, fine gr ss, carb sh & coal	Mancos	6178′
Point Lookout	57:78'	6178'	Med-light gry, very fine gr ss w/frequent	Gallup	7013′
			sh breaks in lower part of formation	Greenhorn	7750′
Mancos	6178′	7013′	Dark gry carb sh.	Graneros	7807′
Gallup	7013′	7750'	Lt gry to brn calc carb micac glauc	Dakota	7855'
			silts & very fine gr gry ss w/irreg.interbed sh		
Greenhorn	7750′	7807′	Highly calc gry sh w/thin lmst.		
Graneros	7807′	7855′	Dk gry shale, fossil & carb w/pyrite incl.		

Lt to dk gry foss carb sl calc sl silty

ss w/pyrite incl thin sh bands clay & shale breaks

7855' 8002'

Dakota

(October 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

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

OMB NO 1004-0137

Expires December 31, 1991
5 LEASE DESIGNATION AND SERIAL NO.

SF- 08425	2 CHB EO

WELL (COMP	LET	ION OR R	EC	OMPL	ET.	ION I	REPC	RT AND	LO	G*	6 IF	INDIAN, ALLOTTE	E OR TRIBE NAME
1a TYPE O	F WELL:		OIL WELL	$- \square$	GAS WELL X		DRY	Other	DEC	>	MED	<u> </u>	18F -MNH	117B-DK1
b TYPE O	F COMPLE	ETION:							10 E	A 11	A Late s	7 U		
	NEW C				PLUG BACK	7	DIFF	Other	à a A (* 0000	8. F		
			-''	L	LINOR	3	THE STATE		WIA	2 0	r 2009		San Juan 2	9-7 Unit 139M
									Europe of		* 2			
TYPE OF COMMETION: TOTAL CEPTER DESCRIPTION DEPTH SET IND. DATE ISSUED DATE INSTRUCTION OF THE COUNTY DEPTH SET IND. DATE ISSUED DELICION OF THE COUNTY DEPTH SET IND. DATE ISSUED DATE ISSUED		07-00C1												
PC	O BOX 42	289, Fa	rmington, NM	8749	9 (5	505)	326-9	700		,		10. 1		
4 LOCATIO				-			with any	State req	uirements)*			1		BLOCK AND SURVEY
At surfac	e l	Unit B		' FNL	, 2300' F	EL						'		NA DOWN AND DA
At ton or	ad intania	l roporte	· · · 	Sar	na se s	hov	<i>1</i> 0					1		
At top pr		•		Jai	iie as c	, DO						1		
At total d	iepth S	Same	as above											
						14.	PERMIT	NO.	DATE ISSUE	D		12. 0		
												:		Now Movies
15. DATE SPU	UDDED 1	6. DAT	ETD REACHED		17. DATE	COMP	L (Read	ty to prod.)	<u> </u>	18. EI	LEVATIONS (DF. F	KB. RT.	THE PRICE	
20 TOTAL DE	20 TOTAL DEPTH, MD &TVD 21. PLUG, BACK T D., MD &TVD						22. IF MI					ROTAF	Y TOOLS	CABLE TOOLS
												yes	_	<u></u>
24 PRODUC	TION INTER	VAL (S)	OF THIS COMPLET	ION-TO	P, BOTTOM	, NAM	E (MD AN	ND TVD)*						
														
			LOGS RUN									27 WA	S WELL CORED	Na
	CLICBL	_				CAS	SING RE	CORD (6	Panort all etringe	cat in	wall)	<u> </u>		NO
	E/GRADE	WE	IGHT, LB./FT.	DEF	TH SET (I							ORD	AM	OUNT PULLED
				 			6 1/4" TOC 2160' 310sx (625 cf-112				(625 cf-112 b	bls)	TOC = 360	
													·· · · · · · · · · · · · · · · · · · ·	
SIZE	TOP (MD	D)	BOTTOM (MD)	SAC	CKS CEMEN	<u>۱۱۸</u>	SCREI	EN (MD)		55		(MD)	PA	CKER SET (MD)
									2 0,0 11.11					
	ATION RECO	RD (Inte	rval, size and numb	er)				90461	ACII					
	3' = 30 ho	les				ŀ	7000 -	0040						
		les				ŀ								
						į								
22								990	DUCTION					
DATE FIRST PR			PRODUCTI				as lift, pun				-			roducing or shut-in)
	Closed L		S TESTED			_	'N FOR	OILBE	3L	GAS	-MCF	WATE		GAS-OIL RATIO
			C PRESSI IRE			011	.001			40.6				OIL CHAVITY ARL/CORR \
TEOW. TOBING	rness.	OASII	a i ilessone		_	OIL-	-DUL	I	CAS-MOF	_	WATER-00			OIL GRAVII 1-API (CORR)
- BIABAARA					<u> </u>				976 mscf/d		4 bwpd 🖊			
34 DISPOSITI	ION OF GAS	•		eic.)									TEST WITNESSED) BY
35 LIST OF AT	TTACHMENT								·					
											AZ.	,		
36. I hereby ce	rtify that the I	toregoing	and attached infor	nation is	s complete a	and co	rrect as de	etermined fi	rom ali available rec	ords				
SIGNED \(\times \)	Mic	up	Man	w	TITL	E S	Staff Re	egulator	v Technician			DATE		3/23/09
		/								\	on Davis		1	H
Title 18 U.S.	C. Section	n 1001											§ .	
			ious or fraudule										N.A.	R 2 6 2009
									/				FARMIN	GTON FIELD OFFICE
							NN	IOCD	PS				BY TES	alyers

Fruitland 3259' 3595' Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss. Pictured Cliffs 3595' 3775' Bn-Gry, fine grn, tight ss. Lewis 3775' 4250' Shale w/siltstone stringers Lewis Huerfanito Bentonite 4250' 4574' White, waxy chalky bentonite Huerfanito Bent. Chacra 4574' 5149' Gry fn grn silty, glauconitic sd stone Chacra w/drk gry shale Mesa Verde Stope & coal Menefee 5468' 5778' Med-dark gry, fine gr ss, carb sh & coal Mancos 6778' 6178' Med-light gry, very fine gr ss w/frequent Gallup sh breaks in lower part of formation Greenhorn Mancos 6178' 7013' Dark gry carb sh.	Fruitland 3259' 3595' Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss. Fruitland 325 Pictured Cliffs 3595' 3775' Bn-Gry, fine grn, tight ss. Pic.Cliffs 359 Lewis 3775' 4250' Shale w/siltstone stringers Lewis 377 Huerfanito Bentonite 4250' 4574' White, waxy chalky bentonite Huerfanito Bent. 425 Chacra 4574' 5149' Gry fn grn silty, glauconitic sd stone Chacra 457 Mesa Verde 5149' 5468' Light gry, med-fine gr ss, carb sh Menefee 546 Menefee 5468' 5778' Med-dark gry, fine gr ss, carb sh & coal Mancos 617 Point Lookout 5778' Med-dark gry, fine gr ss, carb sh & coal Mancos 617 Mancos 6178' 7013' Dark gry carb sh. Greenhorn Greenhorn 775 Mancos 6178' 7013' Dark gry carb sh. Greenhorn Graneros 780 Greenhorn 7750' Lt gry to brn calc carb m	Ojo Alamo	2728′	2856′	White, cr-gr ss.	Ojo Alamo	2728
med gry, tight, fine gr ss. Pictured Cliffs 3595' 3775' Bn-Gry, fine grn, tight ss. Pic.Cliffs 350 Lewis 3775' 4250' Shale w/siltstone stringers Lewis 370 Huerfanito Bentonite 4250' 4574' White, waxy chalky bentonite Huerfanito Bent. Chacra 4574' 5149' Gry fin grn silty, glauconitic sd stone Mesa Verde Mesa Verde Mesa Verde 5149' 5468' Light gry, med-fine gr ss, carb sh Menefee Menefee 5468' 5778' Med-dark gry, fine gr ss, carb sh & coal Mancos Point Lookout 5778' 6178' Med-light gry, very fine gr ss w/frequent Gallup Sh breaks in lower part of formation Greenhorn Mancos 6178' 7013' Dark gry carb sh. Graneros Gallup 7013' 7750' Lt gry to brn calc carb micac glauc silts & very fine gr gry ss w/irreg.interbed sh Highly calc gry sh w/thin lmst. Graneros 7807' 7855' Dk gry shale, fossil & carb wpyrite incl.	med gry, tight, fine gr ss.	Kirtland	2856′	3259′	Gry sh interbedded w/tight, gry, fine-gr ss.	Kirtland	2856
Lewis 3775' 4250' Shale w/siltstone stringers Lewis 37 Huerfanito Bentonite 4250' 4574' White, waxy chalky bentonite Huerfanito Bent. 4250' 4574' White, waxy chalky bentonite Huerfanito Bent. 4250' 4574' Si49' Gry fn grn silty, glauconitic sd stone Chacra W/drk gry shale Mesa Verde Menefee Side Coal Menefee Side Side Side Med-dark gry, fine gr ss, carb sh & coal Mancos Grint Lookout Med-light gry, very fine gr ss w/frequent Gallup Sh breaks in lower part of formation Greenhorn Graneros Gallup Side Side Med-dark gry fine gr gry ss w/irreg.interbed sh Highly calc gry sh w/thin lmst. Graneros 7807' 7855' Dk gry shale, fossil & carb w/pyrite incl.	Lewis 3775 4250' Shale w/siltstone stringers Lewis 377 Huerfanito Bentonite 4250' 4574' White, waxy chalky bentonite Huerfanito Bent. 4250 Chacra 4574' 5149' Gry fn grn silty, glauconitic sd stone Chacra 457 w/drk gry shale Mesa Verde 514 Mesa Verde 5149' 5468' Light gry, med-fine gr ss, carb sh Menefee 546 & coal Point Lookout 577 Menefee 5468' 5778' Med-dark gry, fine gr ss, carb sh & coal Mancos 617 Point Lookout 5778' 6178' Med-light gry, very fine gr ss w/frequent Gallup 701 sh breaks in lower part of formation Greenhorn 775 Mancos 6178' 7013' Dark gry carb sh. Graneros 780 Gallup 7013' 7750' Lt gry to brn calc carb micac glauc Dakota 785 Greenhorn 7750' 7807' Highly calc gry sh w/thin lmst. Graneros 7807' 7855' Dk gry shale, fossil & carb w/pyrite incl. Dakota 7855' 8002' Lt to dk gry foss carb sl calc sl silty		3259′	3595′		Fruitland	3259
Huerfanito Bentonite 4250' 4574' White, waxy chalky bentonite Huerfanito Bent. 4 Chacra 4574' 5149' Gry fn grn silty, glauconitic sd stone Wdrk gry shale Mesa Verde Mesa Verde 5149' 5468' Light gry, med-fine gr ss, carb sh Menefee & coal Point Lookout Menefee 5468' 5778' Med-dark gry, fine gr ss, carb sh & coal Mancos & Med-light gry, very fine gr ss w/frequent Gallup Sh breaks in lower part of formation Greenhorn Mancos 6178' 7013' Dark gry carb sh. Graneros Gallup To Silts & very fine gr gry ss w/irreg.interbed sh Greenhorn To	Huerfanito Bentonite 4250' 4574' White, waxy chalky bentonite Huerfanito Bent. 4250' Chacra 4574' 5149' Gry fin grn silty, glauconitic sd stone Chacra 4574' Mesa Verde 5144 Mesa Verde 5144 Mesa Verde 5145 Mesa Verde 51468' Light gry, med-fine gr ss, carb sh Menefee 5466 & coal Point Lookout 5775 Med-dark gry, fine gr ss, carb sh & coal Mancos 6175 Med-light gry, very fine gr ss w/frequent Gallup 7015 Sh breaks in lower part of formation Greenhorn 7755 Gallup 7013' 7750' Lt gry to brn calc carb micac glauc Silts & very fine gr gry ss w/irreg.interbed sh Greenhorn 7750' 7807' Highly calc gry sh w/thin lmst. Graneros 7807' 7855' Dk gry shale, fossil & carb w/pyrite incl. Dakota 7855' 8002' Lt to dk gry foss carb sl calc sl silty	Pictured Cliffs	3595′	3775′	Bn-Gry, fine grn, tight ss.	Pic.Cliffs	3595
Chacra 4574' 5149' Gry fn grn silty, glauconitic sd stone W/drk gry shale Mesa Verde Mesa Verde 5149' 5468' Light gry, med-fine gr ss, carb sh Menefee E Coal Point Lookout Menefee 5468' 5778' Med-dark gry, fine gr ss, carb sh & coal Mancos Point Lookout 5778' 6178' Med-light gry, very fine gr ss w/frequent Gallup Mancos 6178' 7013' Dark gry carb sh. Graneros Gallup 7013' 7750' Lt gry to brn calc carb micac glauc Dakota Greenhorn 7750' 7807' Highly calc gry sh w/thin lmst. Graneros 7807' 7855' Dk gry shale, fossil & carb w/pyrite incl.	Chacra 4574' 5149' Gry fin grn silty, glauconitic sd stone Chacra 457 w/drk gry shale Mesa Verde 514 Mesa Verde 5149' 5468' Light gry, med-fine gr ss, carb sh Menefee 546 & coal Point Lookout 577 Menefee 5468' 5778' Med-dark gry, fine gr ss, carb sh & coal Mancos 617 Point Lookout 5778' 6178' Med-light gry, very fine gr ss w/frequent Gallup 701 sh breaks in lower part of formation Greenhorn 775 Mancos 6178' 7013' Dark gry carb sh. Graneros 780 Gallup 7013' 7750' Lt gry to brn calc carb micac glauc Dakota 785 Greenhorn 7750' 7807' Highly calc gry sh w/thin lmst. Graneros 7807' 7855' Dk gry shale, fossil & carb w/pyrite incl. Dakota 7855' 8002' Lt to dk gry foss carb sl calc sl silty	Lewis	3775′	4250′	Shale w/siltstone stringers	Lewis	3775
Mesa Verde5149' 5468'Light gry, med-fine gr ss, carb sh & coalMenefeeMenefeeMenefee5468' 5778'Med-dark gry, fine gr ss, carb sh & coalMancosPoint Lookout5778' 6178'Med-light gry, very fine gr ss w/frequent sh breaks in lower part of formationGallupMancos6178' 7013'Dark gry carb sh.GranerosGallup7013' 7750'Lt gry to brn calc carb micac glauc silts & very fine gr gry ss w/irreg.interbed shGreenhorn7750' 7807'Highly calc gry sh w/thin lmst.Graneros7807' 7855'Dk gry shale, fossil & carb w/pyrite incl.	Mesa Verde5149'5468'Light gry, med-fine gr ss, carb sh & coalMenefee546Menefee5468'5778'Med-dark gry, fine gr ss, carb sh & coalPoint Lookout577Menefee5468'5778'Med-light gry, very fine gr ss w/frequent sh breaks in lower part of formationGallup701Mancos6178'7013'Dark gry carb sh.Graneros780Gallup7013'7750'Lt gry to brn calc carb micac glauc silts & very fine gr gry ss w/irreg.interbed shDakota785Graneros7807'Highly calc gry sh w/thin lmst.Teach w/pyrite incl.Teach w/pyrite incl.Dakota7855'Dk gry shale, fossil & carb w/pyrite incl.Lt to dk gry foss carb sl calc sl silty	Huerfanito Bentonite	4250'	4574'	White, waxy chalky bentonite	Huerfanito Bent.	4250
Mesa Verde 5149' 5468' Light gry, med-fine gr ss, carb sh & coal Menefee \$ coal Menefee \$ coal Med-dark gry, fine gr ss, carb sh & coal Point Lookout Med-light gry, very fine gr ss w/frequent Sh breaks in lower part of formation Mancos Gallup 7013' Gallup 7013' Tr50' Lt gry to brn calc carb micac glauc Silts & very fine gr gry ss w/irreg.interbed sh Greenhorn 7750' Highly calc gry sh w/thin lmst. Graneros 7807' 7855' Dk gry shale, fossil & carb w/pyrite incl.	Mesa Verde 5149' 5468' Light gry, med-fine gr ss, carb sh Menefee 546 & coal Point Lookout 577 Menefee 5468' 5778' Med-dark gry, fine gr ss, carb sh & coal Mancos 617 Point Lookout 5778' 6178' Med-light gry, very fine gr ss w/frequent Gallup 701 sh breaks in lower part of formation Greenhorn 775 Mancos 6178' 7013' Dark gry carb sh. Graneros 780 Gallup 7013' 7750' Lt gry to brn calc carb micac glauc Dakota 785 Greenhorn 7750' 7807' Highly calc gry sh w/thin lmst. Graneros 7807' 7855' Dk gry shale, fossil & carb w/pyrite incl. Dakota 7855' 8002' Lt to dk gry foss carb sl calc sl silty	Chacra	4574′	5149′	Gry fn grn silty, glauconitic sd stone	Chacra	4574
& coal Menefee 5468' 5778' Med-dark gry, fine gr ss, carb sh & coal Mancos 6 Point Lookout 5778' 6178' Med-light gry, very fine gr ss w/frequent Gallup Sh breaks in lower part of formation Greenhorn Mancos 6178' 7013' Dark gry carb sh. Graneros 7 Gallup 7013' 7750' Lt gry to brn calc carb micac glauc Dakota silts & very fine gr gry ss w/irreg.interbed sh Greenhorn 7750' 7807' Highly calc gry sh w/thin lmst. Graneros 7807' 7855' Dk gry shale, fossil & carb w/pyrite incl.	Menefee 5468' 5778' Med-dark gry, fine gr ss, carb sh & coal Mancos 617 Point Lookout 5778' 6178' Med-light gry, very fine gr ss w/frequent Gallup 701 sh breaks in lower part of formation Greenhorn 775 Mancos 6178' 7013' Dark gry carb sh. Graneros 780 Gallup 7013' 7750' Lt gry to brn calc carb micac glauc Dakota 785 Greenhorn 7750' 7807' Highly calc gry sh w/thin lmst. Graneros 7807' 7855' Dk gry shale, fossil & carb w/pyrite incl. Dakota 7855' 8002' Lt to dk gry foss carb sl calc sl silty		,		w/drk gry shale	Mesa Verde	5149
Menefee 5468' 5778' Med-dark gry, fine gr ss, carb sh & coal Mancos 6778' 6178' Med-light gry, very fine gr ss w/frequent Gallup sh breaks in lower part of formation Greenhorn Gallup Dark gry carb sh. Graneros Gallup Dakota Silts & very fine gr gry ss w/irreg.interbed sh Greenhorn 7750' 7807' Highly calc gry sh w/thin lmst. Graneros 7807' 7855' Dk gry shale, fossil & carb w/pyrite incl.	Menefee5468'5778'Med-dark gry, fine gr ss, carb sh & coalMancos617Point Lookout5778'6178'Med-light gry, very fine gr ss w/frequentGallup701Mancos6178'7013'Dark gry carb sh.Graneros780Gallup7013'7750'Lt gry to brn calc carb micac glauc silts & very fine gr gry ss w/irreg.interbed shDakota785Graneros7807'Highly calc gry sh w/thin lmst.Highly calc gry sh w/pyrite incl.Dakota7855'Dk gry shale, fossil & carb w/pyrite incl.Dakota7855'8002'Lt to dk gry foss carb sl calc sl silty	Mesa Verde	5149′	5468′	Light gry, med-fine gr ss, carb sh	Menefee	5468
Point Lookout 5778' 6178' Med-light gry, very fine gr ss w/frequent Gallup sh breaks in lower part of formation Greenhorn Mancos 6178' 7013' Dark gry carb sh. Graneros Gallup 7013' 7750' Lt gry to brn calc carb micac glauc Dakota silts & very fine gr gry ss w/irreg.interbed sh Greenhorn 7750' 7807' Highly calc gry sh w/thin lmst. Graneros 7807' 7855' Dk gry shale, fossil & carb w/pyrite incl.	Point Lookout 5778' 6178' Med-light gry, very fine gr ss w/frequent Gallup 701 sh breaks in lower part of formation Greenhorn 775 Mancos 6178' 7013' Dark gry carb sh. Graneros 780 Gallup 7013' 7750' Lt gry to brn calc carb micac glauc Dakota 785 silts & very fine gr gry ss w/irreg.interbed sh Greenhorn 7750' 7807' Highly calc gry sh w/thin lmst. Graneros 7807' 7855' Dk gry shale, fossil & carb w/pyrite incl. Dakota 7855' 8002' Lt to dk gry foss carb sl calc sl silty				& coal	Point Lookout	5778
sh breaks in lower part of formation Greenhorn Mancos 6178' 7013' Dark gry carb sh. Graneros Gallup 7013' 7750' Lt gry to brn calc carb micac glauc Dakota silts & very fine gr gry ss w/irreg.interbed sh Greenhorn 7750' 7807' Highly calc gry sh w/thin lmst. Graneros 7807' 7855' Dk gry shale, fossil & carb w/pyrite incl.	sh breaks in lower part of formation Greenhorn 775 Mancos 6178' 7013' Dark gry carb sh. Graneros 780 Gallup 7013' 7750' Lt gry to brn calc carb micac glauc Dakota 785 silts & very fine gr gry ss w/irreg.interbed sh Greenhorn 7750' 7807' Highly calc gry sh w/thin lmst. Graneros 7807' 7855' Dk gry shale, fossil & carb w/pyrite incl. Dakota 7855' 8002' Lt to dk gry foss carb sl calc sl silty	Menefee	5468′	5778'	Med-dark gry, fine gr ss, carb sh & coal	Mancos	6178
Mancos 6178' 7013' Dark gry carb sh. Graneros 7 Gallup 7013' 7750' Lt gry to brn calc carb micac glauc Dakota silts & very fine gr gry ss w/irreg.interbed sh Greenhorn 7750' 7807' Highly calc gry sh w/thin lmst. Graneros 7807' 7855' Dk gry shale, fossil & carb w/pyrite incl.	Mancos 6178' 7013' Dark gry carb sh. Graneros 780 Gallup 7013' 7750' Lt gry to brn calc carb micac glauc Dakota 785 silts & very fine gr gry ss w/irreg.interbed sh Greenhorn 7750' 7807' Highly calc gry sh w/thin lmst. Graneros 7807' 7855' Dk gry shale, fossil & carb w/pyrite incl. Dakota 7855' 8002' Lt to dk gry foss carb sl calc sl silty	Point Lookout	5778'	6178'	Med-light gry, very fine gr ss w/frequent	Gallup	7013
Gallup 7013' 7750' Lt gry to brn calc carb micac glauc Dakota silts & very fine gr gry ss w/irreg.interbed sh Greenhorn 7750' 7807' Highly calc gry sh w/thin lmst. Graneros 7807' 7855' Dk gry shale, fossil & carb w/pyrite incl.	Gallup 7013' 7750' Lt gry to brn calc carb micac glauc Dakota 785 silts & very fine gr gry ss w/irreg.interbed sh Greenhorn 7750' 7807' Highly calc gry sh w/thin lmst. Graneros 7807' 7855' Dk gry shale, fossil & carb w/pyrite incl. Dakota 7855' 8002' Lt to dk gry foss carb sl calc sl silty		•		sh breaks in lower part of formation	Greenhorn	7750
silts & very fine gr gry ss w/irreg.interbed sh Greenhorn 7750' 7807' Highly calc gry sh w/thin lmst. Graneros 7807' 7855' Dk gry shale, fossil & carb w/pyrite incl.	silts & very fine gr gry ss w/irreg.interbed sh Greenhorn 7750' 7807' Highly calc gry sh w/thin lmst. Graneros 7807' 7855' Dk gry shale, fossil & carb w/pyrite incl. Dakota 7855' 8002' Lt to dk gry foss carb sl calc sl silty	Mancos	6178′	7013′	Dark gry carb sh.	Graneros	7807
Graneros 7807' 7855' Dk gry shale, fossil & carb w/pyrite incl.	Graneros 7807' 7855' Dk gry shale, fossil & carb w/pyrite incl. Dakota 7855' 8002' Lt to dk gry foss carb sl calc sl silty	Gallup	7013′	7750′	_	Dakota	7855
	Dakota 7855' 8002' Lt to dk gry foss carb sl calc sl silty	Greenhorn	7750′	7807 <i>'</i>	Highly calc gry sh w/thin lmst.		
Dakota 7855' 8002' Lt to dk gry foss carb sl calc sl silty		Graneros	7807′	7855′	Dk gry shale, fossil & carb w/pyrite incl.		
	ss w/pyrite incl thin sh bands clay & shale breaks	Dakota	7855′	8002'	Lt to dk gry foss carb sl calc sl silty		
ss w/pyrite incl thin sh bands clay & shale breaks				Ÿ	ss w/pyrite incl thin sh bands clay & shale brea	ks	

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