Form 3160-4 (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 1004-0137

Expires December 31, 1991 5 LEASE DESIGNATION AND SERIAL NO

SF-078640

***	COMPL	ETION OR F	RECOMPLE	TION REPO	ORT AND	LOG*	6 IF II	NDIAN, ALLOTTI	EE OR TRIBE NAME		
1a TYPE OF	F WELL:	OIL WELL	GAS WELL X	DRY Other					IUM-ACIPAF		
b TYPE OF	F COMPLETI	ON:	· ·		F		7 UNI	TAGREEMENT San Ju	NAME an 28-7 Unit		
	NEW X	WORK DEEP- OVER EN	PLUG BACK	DIFF RESVR Other	KL		8 FAF		AME, WELL NO		
							ļ		184P		
	F OPÉRATO O ncoPhill	R ips Company			•	EB 11 2010		WELL NO 30-0	39-30677 - 0002		
3 ADDRES	S AND TELE	PHONE NO.	nion Fie	ELD AND POOL,	OR WILDCAT						
		Farmington, NA	A 87499 (505) arty and in accordance	326-9700	EE		Jr 1889	Bidiloo	Mesaverde R BLOCK AND SURVEY		
At surfac		NWSW), 1425' FS	-	e with any state ret	julienients) —			D 4DE4	VD FEB 17'10		
At top pr	od interval re	eported below	SAME AS ABOV	E				Sec. 9, T27N, R7W			
At total d		ME AS ABOVE	CAME AG ABOT	_				OIL CONS. DIV.			
Al lotal a	ори Ог	ME AO ADOVE							DIST. 3		
			14	PERMIT NO. DATE ISSUED				COUNTY OR 13 STATE PARISH			
			147 5475 001				Ri	o Arriba	New Mexico		
15 DATE SPL 8/3/20	1	08/19/2009	17 DATE CON	IPL (Ready to prod.) 01/27/2010		18. ELEVATIONS (DF, GL 6723		•	19 ELEV CASINGHEAD		
	EPTH, MD &TV		BACK T.D., MD &TVD	22 IF MULTIPLE CO		23 INTERVALS	ROTARY		CABLE TOOLS		
	7708'	ļ	7702'	1	HOW MANY* DRILLED BY 2			yes			
24 PRODUCT		L (S) OF THIS COMPLE	TION-TOP, BOTTOM, I				1 - 1	25 WAS DIRECTIONAL			
Blanco	o Mesaver	rde 5036' - 5696	•					SURVEY M.	No		
		THER LOGS RUN					27 WAS	WAS WELL CORED			
	CL/CBL			ACING BECORD	Deport of strings	and in	1		No		
28 CASING SIZ	ZE/GRADE	WEIGHT, LB /FT.	DEPTH SET (MD)	ASING RECORD (SET IN WEIL) MENT, CEMENTING REC	ORD	A	MOUNT PULLED		
9 5/8"	/ H-40	32.3#	286'	12 1/4"		127sx(194cf-34bb	ils)		1 bbl		
7"/	J-55	20#	3517'	Surface, ST@2530' 8 3/4" 524sx(1088cf-193bbls)				62 bbls			
4 1/2"		11.6#	7704'	6 1/4"	TOC@2270						
29 SIZE	TOP (MD)	LINER RE	SACKS CEMENT*	SCREEN (MD)	30. SIZE	DEPTH SET		BING RECORD	CKER SET (MD)		
SILC	TOP (MD)	BOTTOM (MO)	SACING CEMENT	SCREEN (NID)	2 3/8", 4.7#,				ICKER SET (MID)		
									FTÖ.		
DEDECORA	TION DECOR	O (Interval are and ave	L		4.01	O OLIOT EDAGTUDE	- 05454				
		(Interval, size and num	•	32 5696' -		D, SHOT, FRACTURE					
	out / Lower	Menefee w/ .34"	•		5036'	Acidize w/ 10bbls SlickWater w/ 100	15% HC	L. Frac w/ 1	16,340gals 60%		
Point Looke 1SPF @ 569	out / Lower 96' - 5036' ≃	Menefee w/ .34" 25 Holes	•		5036'	Acidize w/ 10bbls	15% HC	L. Frac w/ 1	16,340gals 60%		
Point Look	out / Lower 96' - 5036' ≃	Menefee w/ .34" 25 Holes	•		5036'	Acidize w/ 10bbls SlickWater w/ 100	15% HC	L. Frac w/ 1	16,340gals 60%		
Point Looke 1SPF @ 569	out / Lower 96' - 5036' ≃	Menefee w/ .34" 25 Holes	•		5036'	Acidize w/ 10bbls SlickWater w/ 100	15% HC	L. Frac w/ 1	16,340gals 60%		
Point Looke 1SPF @ 569	out / Lower 96' - 5036' ≃	Menefee w/ .34" 25 Holes	•	5696' -	5036'	Acidize w/ 10bbls SlickWater w/ 100	15% HC	L. Frac w/ 1	16,340gals 60%		
Point Looke 1SPF @ 569 Mesaverde	out / Lower 96' - 5036' ≓ Total Holes	Menefee w/ .34" 25 Holes 3 = 25 ~	•	5696' -	5036'	Acidize w/ 10bbls SlickWater w/ 100 N2:942,800SCF.	15% HC	L. Frac w/ 1 20/40 Arizo	16,340gals 60%		
Point Look 1SPF @ 569 Mesaverde	out / Lower 96' - 5036' = Total Holes RODUCTION N/A	Menefee w/ .34" 25 Holes 3 = 25 / PRODUC FLO	CTION METHOD (Flowing)	PR gg gas lift, pumping—si	ODUCTION ze and type of pum	Acidize w/ 10bbls SlickWater w/ 100 N2:942,800SCF.	15% HC	EL. Frac w/ 1 20/40 Arizo MELL STATUS (SI	16,340gals 60% na Sand. Producing or shut-in)		
Point Look 1SPF @ 569 Mesaverde	out / Lower 96' - 5036' = Total Holes RODUCTION N/A	Menefee w/ .34" 25 Holes 3 = 25 /	CTION METHOD (FIÓWING / CHOKE SIZE PRO	PR g, gas lift, pumping—si	ODUCTION ze and type of pum	Acidize w/ 10bbls SlickWater w/ 100 N2:942,800SCF.	15% HC	EL. Frac w/ 1 20/40 Arizo MELL STATUS (SI	16,340gals 60% na Sand.		
Point Looke 1SPF @ 569 Mesaverde 33 DATE FIRST PR DATE OF TEST 1/19/2	out / Lower 96' - 5036' = Total Holes RODUCTION N/A	Menefee w/ .34" 25 Holes 3 = 25 / PRODUC FLO HOURS TESTED 1 hr.	CTION METHOD (Flowing) WING CHOKE SIZE PROTES 1/2"	PR g, gas lift, pumping—si DD'N FOR T PERIOD	ODUCTION ze and type of pum.	Acidize w/ 10bbls SlickWater w/ 100 N2:942,800SCF.	0,541# of	EL. Frac w/ 1 20/40 Arizo MELL STATUS (SI	16,340gals 60% na Sand. Producing or shut-in)		
Point Looke 1SPF @ 569 Mesaverde 33 DATE FIRST PR DATE OF TEST 1/19/2	out / Lower 96' - 5036' = Total Holes RODUCTION N/A	Menefee w/ .34" 25 Holes 3 = 25 / PRODUC FLO	CTION METHOD (Flowing) WING CHOKE SIZE PROTES 1/2"	PR og, gas lift, pumping—si DO'N FOR OIL—B T PERIOD	ODUCTION ze and type of purn, BL GAS-MCF	Acidize w/ 10bbls SlickWater w/ 100 N2:942,800SCF. GAS-MCF 59 mcf/h WATER-E	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WELL STATUS (SI R-BBL	16,340gals 60% na Sand. Producing or shut-in)		
Point Looke 1SPF @ 569 Mesaverde 33 DATE FIRST PR DATE OF TEST 1/19/2 FLOW TUBING	Out / Lower P6' - 5036' = Total Holes RODUCTION N/A 2010 PRESS.	Menefee w/ .34" 25 Holes 3 = 25 / PRODUC FLO HOURS TESTED 1 hr.	CTION METHOD (FIOWING / CHOKE SIZE PROTES 1/2" CALCULATED O 24-HOUR RATE	PR g, gas lift, pumping—si DD'N FOR T PERIOD	ODUCTION ze and type of pum.	Acidize w/ 10bbls SlickWater w/ 100 N2:942,800SCF. GAS-MCF 59 mcf/h WATER-E	0 bwpd	WELL STATUS (SI R-BBL	16,340gals 60% na Sand. Producing or shut-in) GAS-OIL RATIO IOIL GRAVITY-API (CORR)		
Point Looke 1SPF @ 569 Mesaverde 33 DATE FIRST PR A/19/2 FLOW TUBING	Out / Lower P6' - 5036' = Total Holes RODUCTION N/A 2010 PRESS.	PRODUCE PRODUCE PRODUCE FLO HOURS TESTED 1 hr. CASING PRESSURE FOOD, Used for fuel, ventee To be sold	CTION METHOD (FIOWING / CHOKE SIZE PROTES 1/2" CALCULATED O 24-HOUR RATE	PR og, gas lift, pumping—si DO'N FOR OIL—B T PERIOD	ODUCTION ze and type of purn, BL GAS-MCF	Acidize w/ 10bbls SlickWater w/ 100 N2:942,800SCF. GAS-MCF 59 mcf/h WATER-E	0 bwpd	WELL STATUS (SI R-BBL	16,340gals 60% na Sand. Producing or shut-in) GAS-OIL RATIO IOIL GRAVITY-API (CORR)		
Point Looke 1SPF @ 569 Mesaverde 33 DATE FIRST PR ATE OF TEST 1/19/2 FLOW TUBING 34 DISPOSITI	Out / Lower P6' - 5036' = Total Holes RODUCTION N/A 2010 PRESS.	PRODUCE PRODUCE FLO HOURS TESTED 1 hr. CASING PRESSURE Sold, used for fuel, vente To be sold	CTION METHOD (FIOWING / ICHOKE SIZE PROTES 1/2" CALCULATED O 24-HOUR RATE d, etc.)	PR ig. gas lift, pumping—si DD'N FOR T PERIOD IL—BBL 0	ODUCTION 20 and type of pum BL O GAS-MCF 1421 mcf	Acidize w/ 10bbls SlickWater w/ 100 N2:942,800SCF. P) GAS-MCF 59 mcf/h WATER-E	0 bwpd	WELL STATUS (SI R-BBL	16,340gals 60% na Sand. Producing or shut-in) GAS-OIL RATIO IOIL GRAVITY-API (CORR)		
Point Looke 1SPF @ 569 Mesaverde 33 DATE FIRST PR ATE OF TEST 1/19/2 FLOW TUBING 34 DISPOSITI	COULTION N/A CONTROL GAS (STACHMENTS OF TO Be a B	Menefee w/ .34" 25 Holes 3 = 25 / PRODUC FLO HOURS TESTED 1 hr. CASING PRESSURE To be sold asin Dakota/Blan	CTION METHOD (FIOWING / CHOKE SIZE PROTES 1/2" CALCULATED O 24-HOUR RATE	PR gg gas lift, pumping—si DD'N FOR OIL—B T PERIOD IIL—BBL 0 elli being DHC p	ODUCTION ze and type of pum BL GAS-MCF 1421 mcf er order # 314	Acidize w/ 10bbls SlickWater w/ 100 N2:942,800SCF. P) GAS-MCF 59 mcf/h WATER-E	0 bwpd	WELL STATUS (SI R-BBL	16,340gals 60% na Sand. Producing or shut-in) GAS-OIL RATIO IOIL GRAVITY-API (CORR)		
Point Looke 1SPF @ 569 Mesaverde 33 DATE FIRST PR ATE OF TEST 1/19/2 FLOW TUBING 34 DISPOSITI	COULTION N/A CONTROL GAS (STACHMENTS OF TO Be a B	Menefee w/ .34" 25 Holes 3 = 25 / PRODUC FLO HOURS TESTED 1 hr. CASING PRESSURE To be sold asin Dakota/Blan	CTION METHOD (Flowing WING TES 1/2" CALCULATED O 24-HOUR RATE O, etc.)	PR og. gas lift, pumping—si DD'N FOR T PERIOD IL—BBL O elli being DHC p d correct as determine	ODUCTION ze and type of pum BL OGAS-MCF 1421 mcf er order # 314 d from all available	Acidize w/ 10bbls SlickWater w/ 100 N2:942,800SCF. P) GAS-MCF 59 mcf/h WATER-E //d	0 bwpd	WELL STATUS (SI R-BBL	16,340gals 60% na Sand. Producing or shut-in) GAS-OIL RATIO IOIL GRAVITY-API (CORR)		
Point Looke 1SPF @ 569 Mesaverde 33 DATE FIRST PR ATE OF TEST 1/19/2 FLOW TUBING 34 DISPOSITI	COULTION N/A CONTROL GAS (STACHMENTS OF TO Be a B	Menefee w/ .34" 25 Holes 3 = 25 / PRODUC FLO HOURS TESTED 1 hr. CASING PRESSURE To be sold asin Dakota/Blan	CTION METHOD (Flowing WING TES 1/2" CALCULATED O 24-HOUR RATE O, etc.)	PR og. gas lift, pumping—si DD'N FOR T PERIOD IL—BBL O elli being DHC p d correct as determine	ODUCTION ze and type of pum BL GAS-MCF 1421 mcf er order # 314	Acidize w/ 10bbls SlickWater w/ 100 N2:942,800SCF. P) GAS-MCF 59 mcf/h WATER-E //d	0 bwpd	WELL STATUS (SI R-BBL	16,340gals 60% na Sand. Producing or shut-in) GAS-OIL RATIO IOIL GRAVITY-API (CORR)		
Point Looke 1SPF @ 569 Mesaverde 33 DATE FIRST PR DATE OF TEST 1/19/2 FLOW TUBING 34 DISPOSITI 35 LIST OF A This is goin 36 Thereby ce	COULTION N/A CONTROL GAS (STACHMENTS OF TO Be a B	PRODUCE PRODUCE PRODUCE FLO HOURS TESTED 1 hr. CASING PRESSURE Sold, used for fuel, vente To be sold asin Dakota/Blan regoing and attached inf	CTION METHOD (Flowing) WING TES 1/2" CALCULATED 24-HOUR RATE d, etc) CO Mesa Verde wommation is complete and	PR ID Y FOR T PERIOD IL-BBL O Colling DHC p d correct as determine	ODUCTION ze and type of purm BL OGAS-MCF 1421 mcf er order # 314 d from all available	Acidize w/ 10bbls SlickWater w/ 100 N2:942,800SCF. P) GAS-MCF 59 mcf/h WATER-E //d	0 bwpd	WELL STATUS (SI R-BBL bwph TEST WITNESSE	16,340gals 60% na Sand. Producing or shut-in) GAS-OIL RATIO IOIL GRAVITY-API (CORR)		

LFB 1 7 7010 FARMINGTON FIELD OFFICE

NMOCD

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API # 30-039-30677			San Juan 28-7 Unit 184P	5	
Ojo Alamo	2404'	2522'	White, cr-gr ss.	Ojo Alamo ¹	2404'
Kirtland	2522'	2934'	Gry sh interbedded w/tight, gry, fine-gr ss.	Kirtland	2522'
Fruitland	2934'	3198'	Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss.	Fruitland	2934'
Pictured Cliffs	3198'	3339'	Bn-Gry, fine grn, tight ss.	Pic.Cliffs	31,98'
Lewis	3339'	3740'	Shale w/siltstone stringers	Lewis	3339'
Huerfanito Bentonite	3740'	4168'	White, waxy chalky bentonite	Huerfanito Bent.	3740'
Chacra	4168'	4817'	Gry fn grn silty, glauconitic sd stone w/drk gry shale	Chacra	4168'
Mesa Verde	4817'	4919'	Light gry, med-fine gr ss, carb sh & coal	Mesa Verde	4817'
Menefee	4919'	5482'	Med-dark gry, fine gr ss, carb sh & coal	Menefee '	4919'
Point Lookout	5482'	5871'	Med-light gry, very fine gr ss w/frequent sh breaks in lower part of formation	Point Lookout	5482'
Mancos	5871'	6638'	Dark gry carb sh.	Mancos	5871'
Gallup	6638'	7387'	Lt gry to brn calc carb micac glauc silts & very fine gr gry ss w/irreg. interbed sh	Gallup	6638'
Greenhorn	7387'		Highly calc gry sh w/thin lmst.	Greenhorn	7387'
Graneros	£ 7445'	7478'	Dk gry shale, fossil & carb w/pyrite incl.	Graneros	7445'
Dakota	7478'	1	Lt to dk gry foss carb sl calc sl silty ss w/pyrite incl thin sh bands clay Y shale breaks	Dakota	7478'
Morrison		1	Interbed grn, brn & red waxy sh & fine to coarse grn ss	Morrison :	, '

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

Expires December 31, 1991
5 LEASE DESIGNATION AND SERIAL NO

SF-078640

WELL COMPL	ETION OR F	RECOMPL	ETION F	REPO	ORT AND	LOG	; *	6 IF INDIA	N, ALLOTTI	EE OR TRIBE NAME
1a TYPE OF WELL:	OIL WELL	GAS WELL X	DRY	Other					NMNN	1-78413C-DKI
b TYPE OF COMPLET		1122		_	KE		EIVE	7 UNIT AG	REEMENT	NAME
NEW T	TON. WORK DEEP-	PLUG [l DIFF	1	y vena		41.00 to 12.00g		Sail Su	an 28-7 Unit AME, WELL NO
WELL	OVER EN	BACK	RESVR	Other			1 1 2010	0 17444		184P
2 NAME OF OPERATO	OR .				<u> </u>	LD.	I I ZUIU	9 API WEL		1045
ConcoPhil	lips Company				Aimani	of La	and Adrigand	meni	30-0	39-30677- 00C1
3 ADDRESS AND TEL			05) 000 05				n Field Off	10 FIELD		
PO BOX 428 4 LOCATION OF WEL	9, Farmington, NI		05) 326-97							n Dakota R BLOCK AND SURVEY
	(NWSW), 1425' FS	•	and man any	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	junctions j			OR AR	EA	
7.1. 54.1.455	(,,								RC	VD FEB 17'10
At top prod. interval reported below SAME AS ABOVE									Sec. 9,	T2ZN RZW IL CUNS. DIV.
At total depth SA	AME AS ABOVE								(1)	DIST. 3
/ it total doptil	WILL 740 7120 VE									U131. 0
			14. PERMIT N	PERMIT NO DATE ISSUED				12 COUNT PARIS		13 STATE
								- Rio A		New Mexico
15 DATE SPUDDED 16		17 DATE	COMPL. (Ready		-	18 ELE	VATIONS (DF, R	(B, RT, BR, E	TC)*	19 ELEV CASINGHEAD
8/3/2009 20 TOTAL DEPTH, MD &TV	08/19/2009	BACK T.D., MD &T\	01/27 D 22 IF MUL		MPI	23 INTE	GL 6723' ERVALS	ROTARY TO		CABLE TOOLS
		•		HOW			ILLED BY			1
7708' 24 PRODUCTION INTERV	AL (S) OF THE CORE	7702'	OM NAME (ME A	2				ye	S NAS DIREC	TIONAL
		LINOIN-TOP, BUT IS	OW, NAME (MD A	(טעו טייו					SURVEY M	ADE
Basin Dakota 7								1	· conen	No
GR/CCL/CBL	THER LOGS RON							27 WAS WEI	LL CORED	No
28			CASING RE	CORD (Report all strings	set in w	vell)			110
CASING SIZE/GRADE	WEIGHT, LB /FT	DEPTH SET (TOP OF CEN	ENT, CE	MENTING RECO		A	MOUNT PULLED
9 5/8" / H-40	32.3#	286'	12 1	/4"			(194cf-34bbis	5)		1 bbl
7" / J-55	20#	3517'	8 3/	4"		-	ST@2530' cf-193bbis)			62 bbls
4 1/2" / J-55	11.6#	7704'		8 3/4" 524sx(1088cf-193bbls) 62 6 1/4" TOC@2270', 295sx(593cf-106bbls)						
29	LINER RE	,	1 000		30				RECOR	
SIZE TOP (MD)	BOTTOM (MD)	SACKS CEMEN	NT* SCREEN	(MD)	SIZE 2 3/8", 4.7#,	J-55	DEPTH SET (I	VIU)	P/	ACKER SET (MD)
31 PERFORATION RECOR	RD (interval, size and nun	nber)	32	7480' -		o, sho	T, FRACTURE,	CEMENT S	QUEEZE,	ETC.
Dakota w/ .34" diam. 2SPF @ 7669' - 7614' :	= 26 Holes			7 400 -		Acidiz	o w/ 10hhle 1	5% HCl F	Frac w/ 1	05,067gals SlickWater —
1SPF @ 7590' - 7480' :							,336# of 20/4			oo,oor gais onekreater
B I 4 W-4-111 I										
Dakota Total Holes =	54									
33				PR	ODUCTION					
DATE FIRST PRODUCTION	1	CTION METHOD (F	lowing, gas lift, pu			0)	<u>,, , , , , , , , , , , , , , , , , , ,</u>			Producing or shut-in)
N/A DATE OF TEST	FLC	OWING /	PROD'N FOR	OIL-B	BI	GAS-N	ACE.	SI "		IGAS-OIL RATIO
		J. JOILE OILE	TEST PERIOD		 	J,.J-14		· · · · · · · · · · · · · · · · · · ·	~	5.5-5.2.7
1/27/2010 -	1 hr.	1/2"	→	L	0	6	3 mcf/h	tra	ce	lou on week the second
FLOW TUBING PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL-BBL		GASMCF	1	WATER-BBI	_		OIL GRAVITY-API (CORR)
SI - 1418psi	SI - 1197psi		0		1521 mcf	/d T	14	bwpd 1		
34 DISPOSITION OF GAS (ed, etc)						TEST	WITNESSI	ED BY
35 LIST OF ATTACHMENTS	To be sold									•
This is going to be a E		ico Mesa Verd	e well being	DНС р	er order # 314	6AZ				
36 I hereby certify that the fo							· · · · · · · · · · · · · · · · · · ·			
	10-1	1		-		-11		2	111/2	h (n
SIGNED	tal 1/4	sega TITI			gulatory Tech			DATE <u>کر</u>		100
		e Instruction	-					•		
Title 18 U.S.C. Section	1001, makes it a c	nme for any pe	rson knowingl	y and v	vilifully to make	to any	department o	t agency o	the	FED 1 2 2010

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

FEB 1 2 2010

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API # 30-039-30677			San Juan 28-7 Unit 184P		<u>5</u>	 -
Ojo Alamo	2404'	2522'	White, cr-gr ss.	w	Ojo Alamo 4	2404'
Kirtland	2522'	2934'	Gry sh interbedded w/tight, gry, fine-gr ss.		Kirtland	2522'
Fruitland	2934'		Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss.		Fruitland	2934'
Pictured Cliffs	3198'		Bn-Gry, fine grn, tight ss.		Pic.Cliffs	3198'
Lewis	3339'	3740'	Shale w/siltstone stringers		Lewis	3339'
Huerfanito Bentonite	3740'	4168'	White, waxy chalky bentonite		Huerfanito Bent.	3740'
Chacra 7	4168'	4817'	Gry fn grn silty, glauconitic sd stone w/drk gry shale		Chacra	4168'
Mesa Verde	4817'	4919'	Light gry, med-fine gr ss, carb sh & coal	4	Mesa Verde	4817'
Menefee	4919'	5482'	Med-dark gry, fine gr ss, carb sh & coal		Menefee	4919'
Point Lookout	5482'	5871'	Med-light gry, very fine gr ss w/frequent sh breaks in lower part of formation		Point Lookout	5482'
Mancos	5871'	6638'	Dark gry carb sh.		Mancos	5871'
Gallup	6638'	7387'	Lt gry to brn calc carb micac glauc silts & very fine gr gry ss w/irreg Interbed sh		Gallup	6638'
Greenhorn	7387'	7445'	Highly calc gry sh w/thin lmst.		Greenhorn	7387'
Graneros	7445'	7478'	Dk gry shale, fossil & carb w/pyrite incl.		Graneros	7445'
Dakota	7478'	1	Lt to dk gry foss carb sl calc sl silty ss w/pyrite incl thin sh bands clay Y shale breaks		Dakota	7478'
Morrison		1	Interbed grn, brn & red waxy sh & fine to coarse grn ss		Morrison	