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 DESIGNATION AND SERIAL NO

AMENDED	SF-079266
AMILIADED	31 -07 3200

WELL C	OMPL	ETIO	N OR R	RECOMPL	ETION RE	ORT AND	LOC	3*	6 IF	NDIAN, ALLOTTEI	E OR TRIBE NAME
1a TYPE OF			O!L WELL	GAS X	,				L		
b TYPE OF	COMPLET	ION:							7. UN	IT AGREEMENT N	IAME
711201	NEW X	WORK	DEEP-	PLUG BACK	DIFF RESVR Othe	r			8 FA	RM OR LEASE NA	ME, WELL NO
	WELL 1	J OVER	LLI EN	BACK	RESVR		·~ (F	THE STATE OF THE S			GHN 30N
2 NAME OF			0.,,					TEEN IS	9 AP	WELL NO	
3 ADDRES				& Gas Comp	oany	/(U) /ki	<u></u>	~ <u>Siji</u>	10. F	SU-U3 ELD AND POOL, (DR WILDCAT
	BOX 428			л 87499 (5	05) 326-9700	77	1	\ 50 °	~ffict	AN BASIN	DAKOTA
4 LOCATIO				-	dance with any Stat	e requirements)*	Ŋ	Field	2000	ECTT, R, M, OR	9-30533 DR WILDCAT DAKOTA BLOCK AND SURVEY T26N, R6W
At surface	e K	(NE/SW	/), 2520' FS	SL & 1595' FW	/L		_	windigur, d.M.	110-	JR AREA	
At top pro	od interval r	eported be	elow	N (SE/SW), 1	107' FSL & 1837'	FWL	Ł St	un elan		Sec. 28.	T26N, R6W
		·		,			Brie	au		ĺ	•
At total de	epth N	(SE/SW)), 1107' FS	L & 1837' FWI	<u>L</u>						
					14 PERMIT NO	DATE ISSU	JED			OUNTY OR	13 STATE
									1	PARISH io Arriba	New Mexico
15 DATE SPU	I .		D REACHED	17 DATE	COMPL (Ready to pro		18 EL	EVATIONS (DF, RK	B, RT, BF	R, ETC)*	19 ELEV CASINGHEAD
01/24/ 20 TOTAL DE			2/15/11	BACK T.D., MD &TV	07/07/11 G /D 22 IF MULTIPLE		23 1817	GL 6427'		442' Y TOOLS	CABLE TOOLS
			21 FLUG, 5	, will at v		W MANY*		RILLED BY	, wind	, 10010	J.,522 10020
	77' / 7267'			553' / 7243' VE	OM, NAME (MD AND T	2				yes 25 WAS DIRECT	PONAL
				. HON-LUP, BUTT	יאי, ואהאוב (ואוט AND 1)	(טי		•		SURVEY MA	DE
Basin 26 TYPE ELE	Dakota 7								27 \\\\	S WELL CORED	YES
	CL/CBL	YI HER LUC	SO RUN						2, VVA		No
28					CASING RECO	RD (Report all strir	ngs set in	well)	1		
CASING SIZ			IT, LB /FT	DEPTH SET (CEMENTING RECO		AN	IOUNT PULLED
9 5/8" / 7" / J		1	23#	234' 4470'	12 1/4" 8 3/4"			x(122cf-22bbls			5bbls 74bbls
4 1/2" /		1	1.6#	7573'	6 1/4"						
29			LINER RE	y		30				SING RECORD	OVER OFT (AID)
SIZE	TOP (MD)	ВОТ	TOM (MD)	SACKS CEMEN	NT* SCREEN (MI	9) SIZE 2 3/8'		DEPTH SET (7450'	MD)	PA	CKER SET (MD)
							4.7#	/ L-80			
	TION RECOR	RD (Interval,	size and num	nber)	32	9'- 7466'		OT, FRACTURE,	_		TC ic'd w/ 47,922gals 70%
Dakota w/ .3 2SPF @ 746		7368',				5-7-00					LC Sand. Flushed
734	14', & 7295	' = 10 H			ļ:		109b	bls fluid flush.	N2:2,2	23,000SCF.	
1SPF @ 720 2SPF @ 736											2324252622
_	40" daim.	- 20 1101	103								22/10
2SPF @ 749	•	% 7487' =	=6 Holes.(n	not stimulated)							2 ·
DK Total Ho	oles = 64										/≈ RECEIVED
33 DATE FIRST PR	ODUCTION	PROE	DUCTION	TION METHOD (F	lowing, gas lift, pumpin	a_size and type of p	imo)		•	WELL STATUS (F	Producing ar shut-in) 2011
	07/11 GRC		1	WING	, gao m, pampin	9 0.20 0 1940 0. 40	,- ,				E
DATE OF TEST		HOURS T	TESTED	CHOKE SIZE	PROD'N FOR OI	LBBL	GAS-	-MCF	WATI	RBBL	GAS-OLIGATIONIC CONS. DIV. DIST.
07/12	2/11	1	1hr.	1/2"		0 / boph	.	18 mcf / h	1.	2 / bwph	\iP _x
FLOW TUBING			PRESSURE	CALCULATED	OILBBL	GASMCI	F	WATER-BBL		•	OIL GRAVITY AFTIGORR)
SI-5	nsi	SL	638psi	24-HOUR RATE	0 / bopd	427 mg	:f/ d	12	:/bwj	od	67110165
34 DISPOSITI				ed, etc.)	L 3, nopu	767 1110	u		~***	TEST WITNESSE	D BY
25 HOT OF 4	TTACLINATION		esold	/ /,							
35 LIST OF A	1	1	Basin Dal	kota commine	gled well under l	OHC order 2912	AZ.				
					ete and correct as deter						
M_{\star}	\ 1 Dent	111/	1/101]]	_					_	
SIGNED -	Olon	<i>Y </i>	$W^{\bullet i_l}$	TIT	LE S	taff Regulatory	Techn	icain	DATE	A(WESTED FOR RECOR
	,	1/	,		ons and Space						1
		1			erson knowingly a	-		•	-	cy of the	JUL 2 1 2011
united State	s any faise	HICTITIOU	is or traudu	nent statement	ts or representation	nisasto any ma	auer Wit	ımı us junsaictio	и1.	,a.	ANAMOTOM CICI DIOCEK
			/		h						ARMINGTON FIELD OFFIC
			/		M	MOCD P	ł/			8	^
						-	₩				1.1

API # 30-039-30533			VAUGHN 30N		
Ojo Alamo	2092'	2248'	White, cr-gr ss.	Ojo Alamo	2092'
Kirtland	2248'	2526'	Gry sh interbedded w/tight, gry, fine-gr ss.	Kirtland	2248'
Fruitland	2526'	2823'	Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss.	Fruitland	2526'
Pictured Cliffs	2823'	3001'	Bn-Gry, fine grn, tight ss.	Pic.Cliffs	2823'
Lewis	3001'	3285'	Shale w/siltstone stringers	¿ Lewis	3001'
Huerfanito Bentonite	3285'	3773'	White, waxy chalky bentonite	Huerfanito Bent.	3285'
Chacra	3773'	4588'	Gry fn grn silty, glauconitic sd stone w/drk gry shale	Chacra	3773'
Mesa Verde	4588'	4610'	Light gry, med-fine gr ss, carb sh & coal	Mesa Verde	4588'
Menefee	4610'	5180'	Med-dark gry, fine gr ss, carb sh & coal	Menefee	4610'
Point Lookout	5180'	5622'	Med-light gry, very fine gr ss w/frequent sh breaks in lower part of formation	Point Lookout	5180'
Mancos	5622'	6217'	Dark gry carb sh.	Mancos	5622'
Gallup	6217'	7093'	Lt gry to brn calc carb micac glauc silts & very fine gr gry ss w/irreg. interbed sh	Gallup	6217'
Greenhorn	7093'	7151'	Highly calc gry sh w/thin lmst.	Greenhorn	7093'
Graneros	7151'	7207'	Dk gry shale, fossil & carb w/pyrite incl.	Graneros	7151'
Dakota	7207'	7577'	Lt to dk gry foss carb sl calc sl silty ss w/pyrite incl thin sh bands clay Y shale breaks	Dakota	7207'



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.	-07	92	66

							3F	-0/9200
ELL COMPLI	ETION OR F	RECOMPL	ETION REPO	LOG*	6 IF	INDIAN, ALLOTTI	EE OR TRIBE NAME	
a TYPE OF WELL	OIL WELL	GAS WELL X	DRY Other		***************************************			
L T/DE 05 00 00 5		***CLL []					NIT AGREEMENT	
NEW Y	ION WORK' DEEP-	PLUG	DIFF			0 5	RMODIESES !	- to lease
WELL X	OVER EN	BACK	RESVR Other			8 +4	IRM OR LEASE N	MAINE, WELL NO
NAME OF OPERATO	NP			A	JUL 8 2011 July 18 2011 Farmington Fands	9 40	VAU	IGHN 30N
	Resources Oil 8	& Gas Comp	anv	Æ.		1 0 0	30-0	39-30533 -OD (
ADDRESS AND TELE		z cao comp.	<u>y</u>		1011	10 cF	ELD AND POOL	, OR WILDCAT
PO BOX 4289	9, Farmington, NN		05) 326-9700		_ \8 \	Chill USI	BASII	N DAKOTA
LOCATION OF WELL	L (Report location cle	arly and in accord	dance with any State re	equirements)*	11 / 18	6 7861 5	SEC,T,R,M,O	R BLOCK AND SURVEY
At surface K	(NE/SW), 2520' FS	3L & 1595' FW	L	,	me albig	Malia	OR AREA	
					MOJE BRO	`		
At top prod interval re	eported below	N (SE/SW), 11	107' FSL & 1837' FV	VL.	ESTAIL OF LE		Sec. 28	, T26N, R6W
At total depth N ((SE/SW), 1107' FS	L & 1837' FWL	_		"lear			
				₹	30.			
			14. PERMIT NO.	DATE ISSU	ED	12 (13 STATE
							PARISH	New Mexico
DATE SPUDDED 16	DATE T D REACHED	17 DATE	COMPL (Ready to prod.)		18 ELEVATIONS	(DF, RKB, RT.	io Arriba BR, ETC)*	19 ELEV CASINGHEAD
01/24/11	02/15/11		07/07/11 GR	3		427' KB	-	<u> </u>
TOTAL DEPTH, MD &TV	D 21 PLUG, E	BACK T.D., MD.&TV			23 INTERVALS	ROTAF	RY TOOLS	CABLE TOOLS
MD 75771 / 706713	VD MD 7	553' / 7243' VD	HOW M		DRILLED BY	1	voc	1
MD 7577' / 7267' \ PRODUCTION INTERVA) 2 DM, NAME (MD AND TVD)*		1	1	yes 25 WAS DIREC	CTIONAL
							SURVEY M	IADE
Basin Dakota 72						107.00	E WELL OCCU	YES
TYPE ELECTRIC AND O GR/CCL/CBL	THER LOGS RUN				•	27 WA	S WELL CORED	
GR/CCL/CDL		•	CACINO DECORDO	Donort +11 +4	o oot in w-#\		··· · · · · · · · · · · · · · · · · ·	No
CASING SIZE/GRADE	, WEIGHT, LB /FT	DEPTH SET (N	CASING RECORD (s set in well) MENT, CEMENTING	RECORD	1 ^	AMOUNT PULLED
9 5/8" / H-40	32.3#	234'	12 1/4"	<u> </u>	e, 76sx(122cf-2		 	5bbls
7" / J-55	23#	4470'	8 3/4"	-}	621sx(1262cf-2			74bbls
4 1/2" / L-80	11.6#	7573'	6 1/4"		50', 234sx(474c	f-84bbls)		
	LINER RE	g		30			JBING RECOR	
SIZE TOP (MD)	BOTTOM (MD)	SACKS CEMEN	NT* SCREEN (MD)	SIZE 2 3/8"		H SET (MD) 7450'	P.	ACKER SET (MD)
		 		2 5/0	4.7# / L-80	430		
PERFORATION RECOR	D (Interval, size and nun	nber)	32	AC	ID, SHOT, FRAC	TURE, CEME	NT SQUEEZE,	, ETC
kota w/ .34" diam.			7209'-	7466'	-			rac'd w/ 47,922gals
PF @ 7209' - 7348' =						•	•	20/40 TLC Sand.
PF @ 7366' - 7466' =	= 34 Holes				Flushed 109b	bls fluid flu	ısh. N2:2,223	3,000SCF.
w/.40" daim. PF @ 7497', 7495' &	. 7/87' =6 Holes (-	not etimulated)						_
ா மு 7497 , 7495 வ Total Holes = 64	01 -0110165.(1	oumulateuj			1			2021
								192021
E FIRST PRODUCTION	PRODUCTION PRODUC	CTION METHOD /F	lowing, gas lift, pumpings	ize and type of ou	mp)		WELL STATUS	7.95
07/07/11 GRC		WING	Sinding to the second	Jr. 5. pu	• •		SI	
TE OF TEST	HOURS TESTED		PROD'N FOR OILB	BBL	GASMCF	WAT	ERBBL	GAS-OIL RAHO OII
	١	4/011	TEST PERIOD		10.	. .		STA CONS
07/12/11 OW TUBING PRESS	1hr.	1/2"	. OILBBL	0 / boph GASMCF	18 mcf /	n 1 ERBBL	/2 / bwph	OIL GRAVITY API (CORR)
,, 100,401,400	J. C. T. KEGGONE	24-HOUR RATE		JAG-WOF	1			STEEL STOOMS
SI-5psi	SI-638psi		0 / bopd	427 mc	f/ d	12 / bw	pd	1
DISPOSITION OF GAS (Sold, used for fuel, vente	d, etc)		•			TEST WITNESS	SED BY
LIOT OF THE CONTRACT	To be sold						<u> </u>	
LIST OF ATTACHMENTS	li li	Λ	alad wall waster DUC	` ~~d~~ ^^4^	.7			
is is a Blanco Mesa			led well under DHC ete and correct as determin					
	177.1	[,]]	THE CONTROL BY MELENTINIA		200, 45		•	
:NED	M MANG	<i>X</i> { <i>/</i> } ===	IF Staff	Regulatory 1	Technicain	DATE		07/15/11
GNED	\/X/ UV 1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ 						TED FOR RECO
)*(Se	ee Instructio	ns and Spaces fo	r Additiona	l Data on Rev	erse Side	ACCEP	LDIOIL
tle 18 U.S C Section							ency of the	1111 4 0 0044
ted States any false	, fictitious or fraudi	ılent statement	ts or representations	as to any ma	itter within its jur	risdiction		JUL 1 9 2011
	\smile							
	-		* *	:			FARMIN	VIGTON FIELD OFF

NMOCD 4

API # 30-039-30533			VAUGHN 30N	-		
Ojo Alamo	2092'	2248'	White, cr-gr ss.		Ojo Alamo	2092'
Kirtland	2248'	2526'	Gry sh interbedded w/tight, gry, fine-gr ss.		Kirtland	2248'
Fruitland			Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss.	8	Fruitland	2526'
Pictured Cliffs	2823'	3001'	Bn-Gry, fine grn, tight ss.		Pic.Cliffs	2823'
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Mesa Verde	4588'	4610'	Light gry, med-fine gr ss, carb sh & coal	33	Mesa Verde	4588'
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Mancos	5622'	6217'	Dark gry carb sh.	ing pro-	Mancos	5622'
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Graneros	7151'	7207'	Dk gry shale, fossil & carb w/pyrite incl.	. ·	Graneros	7151'
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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

								l	SF-	079266	
WELL C	COMPLI	ETION OR F	RECOMPL	ETION RE	PORT AN	D LO	G*	6 IF	INDIAN, ALLOTTE	E OR TRIBE NAME	_
1a TYPE OF		OIL	GAS 🗸	DRY Oth							
		WELL	WELL _			·	•	7 UN	IIT AGREEMENT I	NAME .	_
b TYPE OF	F COMPLETI			_				R		to bearse	_
	NEW X	WORK DEEP- OVER EN	PLUG BACK	DIFF. RESVR Oth	ner	_		8 FA	RM OR LEASE N	AME, WELL NO	
					te requirements)	A R B			VAU	GHN 30N	
2 NAME O	F OPERATO	PR			- F	Bar II	j e	9 AF	I WELL NO		_
		Resources Oil e	& Gas Compa	iny		1	~^4_		30-0	39-30533-OOCQ	
	SS AND TELE			•	R. Francisco	۰ ۵	. 5011	10 F	IELD AND POOL,	OR WILDCAT	
		9, Farmington, NN		(5) 326-9700) ,	$u_{\mathcal{I}_{\mathcal{I}}}$	2 - mi	,	BLANCO	MESAVERDE	_
4 LOCATIO		(Report location clea			te requirements)	100	Eield One	U⊕ , ε	EC,T,R,M,OR	BLOCK AND SURVEY	
At surfac	e K	(NE/SW), 2520' FS	SL & 1595' FWI	-		mail.	NA Manage		OR AREA		
						atinnia, t	ano.,				
At top pr	od. interval re	eported below	N (SE/SW), 11	07' FSL & 1837	7' FWL `	ean our			Sec. 28,	126N, R6W	
At total d	lenth M /	(SE/SW), 1107' FS	I & 1927' E\A/I		Ba					39-30533—0002 OR WILDCAT MESAVERDE BLOCK AND SURVEY	
At total o	iebin i4 (SEISWI, TIUI FS	L & 1037 FVVL								
			[1	14. PERMIT NO.	DATE ISS	SUED		12 C	OUNTY OR	13 STATE	_
		•	T						PARISH		
	1005- 1		[OMBI (B)		- 1:-			io Arriba	New Mexico	
15 DATE SPI		DATE T D REACHED	17 DATEC	OMPL (Ready to pr		18 EL	EVATIONS (DF, RI			19. ELEV CASINGHEAD	
01/24/	PTH, MD &TV	02/15/11	ACK T.D., MD.&TVD	07/07/11 (22 IF MULTIPL		23 IVI	GL 6427' TERVALS		Y TOOLS	CABLE TOOLS	_
LO TOTAL DE	_ctti,tVILJ&LIV	21 7406, 8	MU & IVD		DW MANY*		RILLED BY	ROTAR	1 10013	OVDIE 100F9	
MD 75	77' / 7267'	VD MD7	553' / 7243' VD	1	2				yes	1	
24 PRODUC	TION INTERVA	L (S) OF THIS COMPLE	TION-TOP, BOTTOM	I, NAME (MD AND T	VD)*				25 WAS DIREC		_
Dlama			•						SURVEY MA		
		rde 5154' - 5504 THER LOGS RUN						107 10/0	S WELL CORED	YES	_
	CL/CBL	THER LOGS RUN						27. VVA	5 WELL CORED	No	
- 10	OL/OBL			0.400.00 =====	55.45			l		No	_
28		T			RD (Report all str						_
CASING SIZ 9 5/8"		WEIGHT, LB /FT 32.3#	DEPTH SET (MI	•			EMENTING RECO		Al	MOUNT PULLED 5bbls	_
7"/		23#	4470'	8 3/4"	12 1/4" Surface, 76sx(122cf-22bble 8 3/4" Surface, 621sx(1262cf-225ble					74bbls	_
4 1/2"		11.6#	7573'	6 1/4"			1sx(474cf-84b			740013	_
29		LINER RE	<u> </u>		30	,			JBING RECORE)	_
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	T* SCREEN (M	ID) SIZ	E	DEPTH SET	(MD)	P/	ACKER SET (MD)	_
					2 3/		7450'				_
	<u> </u>						/ L-80				_
		D (Interval, size and num		32			OT, FRACTURE				_
		r Menefee w/ .34"	diam.	51	54'- 5504'		•			5% HCL. Frac'd w/	
5PF @ 51	54'- 5504' =	23 Holes		,			-	-		n pad w/ 99,414# 20/4 ush. N2:1,280,000SC	
IV Total H	nlas = 23					Anzo	ma Sanu. Fiu	sneu c	oublis iluiu ii		
33		PRODUCTION	 			+				Producing or shuming 232	T2E
ATE FIRST P	RODUCTION		CTION METHOD (FIG	owing, gas lift, pumpi	ng-size and type of	oump)			WELL STATUS (Producing or shariff 2332	
	07/11 GRC		WING						SI		_4
ATE OF TEST		HOURS TESTED			OILBBL	GAS-	-MCF	WATI	ERBBL	GAS-ON PATIO REA	~
07/1	2144	46	I I	TEST PERIOD	0 / boph		20 maf / h		10 / h	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	EIVI
OW TUBING		1hr. CASING PRESSURE	1/2"	OILBBL	GASM		28 mcf / h WATERBE] 1.	/2 / bwph	OILGEAVITY-API'(CORR)	تاريخ
011 100,110	77 11200	OAGING I REGOOKE	24-HOUR RATE	OIE-DDE		51	1	,_		0 011 00.	<u11< td=""></u11<>
SI-5	ipsi	SI-638psi	 →	0 / bopd	667 n	ncf/ d	1:	2 / bw	pd	ED BY OIL COMS. D	IV Dia
		Sold, used for fuel, vente	d, etc)	- 1					TEST WITNESSE	D BY \a_	'2/15'
		To/be sold									
	TTACHMENTS									£11101	aaL
is is a B		verde / Basin/Dal					**********			-011	
o ineretty	erupy that the fib	regoing and attached inf	ornation is complete	and correct as deter	iminea from all availa	ible records					
-W	\	Without II	J	_						07/45/44	
IGNED \	MAN	/L// ** \	TITLI	ES	taff Regulator	/ Techni	cain	DATE	FPTED R	HAECORD -	
1		1 Visa	e Instruction	s and Space	s for Addition	nal Data	on Reverse	Side	·		
itle 18 U.S	.C. Section	1001, makes it a d	rime for any ne	rson knowingly	and willfully to	make to	any departmen	nt of a	nengy of the	004	
Inited State	es any false	fictitious or fraud	ulent statements	s or represental	tions as to anv	matter w	ithin its iurisdic	ction.	``JUL```I \	3 2011	
	, 10100		2.3.0011.				, jan.oun				
		~		•	-					FIELD OFFICE	7
					MMACA			BY_	Sco		N
						41 .		_			11

API # 30-039-30533		VAUGHN 30N		
Ojo Alamo	2092'	2248' White, cr-gr ss.	Ojo Alamo	2092'
Kirtland	2248'	2526' Gry sh interbedded w/tight, gry, fine-gr ss.	Kirtland	2248'
Fruitland	2526'	2823' Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss.	💉 Fruitland	2526'
Pictured Cliffs	2823'	3001' Bn-Gry, fine grn, tight ss.	Pic.Cliffs	2823'
Lewis	3001'	3285' Shale w/siltstone stringers	Lewis	3001'
Huerfanito Bentonite	3285'	3773' White, waxy chalky bentonite	Huerfanito Bent.	3285'
Chacra	3773'	4588' Gry fn grn silty, glauconitic sd stone w/drk gry shale	Chacra	3773'
Mesa Verde	4588'	4610' Light gry, med-fine gr ss, carb sh & coal	Mesa Verde	4588'
Menefee	4610'	5180' Med-dark gry, fine gr ss, carb sh & coal	Menefee	4610'
Point Lookout	5180'	5622' Med-light gry, very fine gr ss w/frequent sh breaks in lower part of formation	Point Lookout	5180'
Mancos	5622'	6217' Dark gry carb sh.	Mancos	5622'
Gallup	6217'	7093' Lt gry to brn calc carb micac glauc silts & very fine gr gry ss w/irreg. interbed sh	Gallup	6217'
Greenhorn	7093'	7151' Highly calc gry sh w/thin lmst.	Greenhorn	7093'
Graneros	7151'	7207' Dk gry shale, fossil & carb w/pyrite incl.	Graneros	7151'
Dakota	7207'	7577' Lt to dk gry foss carb sl calc sl silty ss w/pyrite incl thin sh bands clay Y shale breaks	Dakota	7207'

