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

-							·		Amended	SF-080377			
VELL C	OMPL	ETIO	n or f			ION REP	ORT AP	ID LO	G*	6 IF INDIAN, ALLOTTE	E OR TRIBE NAME		
a TYPE OF	- WELL.		OIL	GAS WELL		ORY Other			<del>,</del>				
b. TYPF OF	COMPLETI	ON:			<b>→</b>			- PA 1012	·	7 UNIT AGREEMENT N San Juan 2			
2 31	NEW	WORK	X DEEP-	PLUG BACK		OIFF Other	K		WED	8 FARM OR LEASE NA			
	WELL	OVER	Z EN	BACK L	-i F	RESVROther				\$	29-6 Unit 72		
. NAME OF	F OPERATO	R					M	AR I C	2009	9. API WELL NO.			
	nocoPhill									30-039-07558			
	S AND TELE			M 87499 (	505) 3	326-9700	Bureau	of Land	Managame	10. FIELD AND POOL, OR WILDCAT  Blanco Mesaverde			
PO BOX 4289, Farmington, NM 87499 (505) 326-9700 Farmington Field Office  LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*										11. SEC., T., R., M., OR BLOCK AND SURVEY			
At surface	At surface Unit M (SWSW), 990' FSL & 990' FWL										OR AREA		
At Bottom							•			Sec. 22, T29N, R6W, NMPM			
At top pro	At top prod. interval reported below Same as above										RCVD MAR 17'09		
At total de	epth <b>Sa</b>	me as a	bove								OIL CONS. DIV.		
					114 P	ERMIT NO.	DATE ISS	SUED		12. COUNTY OR	DIST. 2 I 13. state		
					[""	Cition 110.		JOLO		PARISH			
. DATE SPU	IDDED 140	DATE T	D. REACHED	117 NATE	COMP	(Ready to prod.)	<u> </u>	10 6 5	ATIONS (DF, RKB	Rio Arriba	New Mexico		
	107/62		8/28/62	1		( <i>Ready to prod.)</i> 2/26/09 Paya	dd	GL	ATIONS (DF, RKB <b>6388</b>	, RT, BR, ETC.)* <b>KB 6401</b>	19. ELEV. CASINGHEAD		
	PTH, MD &TV			ACK T.D , MD &T		22. IF MULTIPLE CO	OMPL.,	23 INTER	RVALS	ROTARY TOOLS	CABLE TOOLS		
5663'			5609		- 1	HOW	NANY"	DRILL	LED BY	Yes			
	TION INTERVA	L (S) OF T			TOM, NA	ME (MD AND TVD)	)*	harran		25. WAS DIRECT			
Mesa V	erde 408	30'-55 <i>A</i>	2'							SURVEY MA	DE		
	CTRIC AND O					<u> </u>				27. WAS WELL CORED			
GR/CE	BL/CCL	· ·			-					no			
						SING RECORD							
ASING SIZE			T, LB./FT.	DEPTH SET		HOLE SIZE		CEMENT, C	EMENTING RECO	ORD A	WOUNT PULLED		
2°210". Ì	M-411 )	32.3#	1	124	1.	12-1 <i>1</i> 4"	Surface:		100ex				
9-5/8", F 7", J-55		32.3# 20#		124' 3394'		12-1/4" 8 3/4"	Surface: TOC 3105	,	100sx 130sx				
7", J-55 4.5", J-5		20#		3394' 566 <u>4</u> '		B 3/4"	TOC 3105 TOC 3393		130sx	TUBING RECORD			
7", J-55 4.5", J-5	55 TOP (MD)	20# 10.5#		3394' 5663' CORD SACKS CEMB		B 3/4"	TOC 3105 TOC 3393 30.	E	130sx 220sx DEPTH SET	TUBING RECORD	ACKER SET (MD)		
7", J-55 4.5", J-5	55	20# 10.5#	LINER RE	3394' 5663'		8 3/4" 6 1/4"	TOC 3105 TOC 3393	E	130sx 220sx DEPTH SET		ACKER SET (MD)		
7", J-55 4.5", J-5 SIZE	55 TOP (MD)	20# 10.5#	LINER RE TOM (MD) .6-3	3394' 5663' CORD SACKS CEME 220	ENT*	8 3/4" 6 1/4"	TOC 3105 TOC 3393 30. SIZ 2-3/8",4.1	, E <b>7# J-55</b>	130sx 220sx DEPTH SET 5596	(MD) PA			
7", J-55 4.5", J-5 SIZE YY2 PERFORA	TOP (MD)  3373  TION RECORD	20# 10.5#	LINER RE TOM (MD) .6-3	3394' 5663' CORD SACKS CEME 220	ENT*	8 3/4" 6 1/4"  SCREEN (MD)	TOC 3105 TOC 3393 30. SIZ 2-3/8",4.1	E 7# J-55 ACID, SHO	130sx 220sx DEPTH SET 5596'		ETC.		
7", J-55 4.5", J-5 SIZE Y/2 PERFORA esa Verd 02'-5542	TOP (MD)  3373  TION RECORD	20# 10.5#	LINER RE TOM (MD) .6-3	3394' 5663' CORD SACKS CEME 220	ENT*	8 3/4" 6 1/4"  SCREEN (MD)  32 5102-5542	TOC 3105 TOC 3393 30. SIZ 2-3/8",4.1	E 7# J-55 ACID, SHO	130sx 220sx DEPTH SET 5596' DT, FRACTURE 95600 Gal W	(MD) PA , CEMENT SQUEEZE, later w/ 70000# san	ETC.		
7", J-55 4.5", J-5 SIZE YY9_ PERFORA Sa Verd 02'-5542 wis @ .3	TOP (MD) 33 73  ITION RECORD  16 2' 34" for 1s	20# 10.5#	LINER RETOM (MD)	3394' 5663' CORD SACKS CEME 220	ENT*	8 3/4" 6 1/4"  SCREEN (MD)	TOC 3105 TOC 3393 30. SIZ 2-3/8",4.1	E 7# J-55 ACID, SHO Frac w	130sx 220sx DEPTH SET 5596' DT, FRACTURE 95600 Gal W	(MD) PA , CEMENT SQUEEZE, /ater w/ 70000# san	ETC.		
7", J-55 4.5", J-5 SIZE YY9_ PERFORA Sa Verd 02'-5542 wis @ .3	TOP (MD) 33 73  ITION RECORD  16 2' 34" for 1s	20# 10.5# BOT 5 (	LINER RETOM (MD)	3394' 5663' CORD SACKS CEME 220	ENT*	8 3/4" 6 1/4"  SCREEN (MD)  32 5102-5542	TOC 3105 TOC 3393 30. SIZ 2-3/8",4.1	E 7# J-55 ACID, SHO Frac w	130sx 220sx DEPTH SET 5596' DT, FRACTURE 95600 Gal W	(MD) PA , CEMENT SQUEEZE, /ater w/ 70000# san	ETC. d HCL Acid		
7", J-55 4.5", J-5 SIZE 4'/2 PERFORA PSA VERD 02'-5542 Wis @ .3 80'-4798	TOP (MD) 33 73  ITION RECORD  16 2' 34" for 1s	20# 10.5# BOT 5 (	LINER RETOM (MD)	3394' 5663' CORD SACKS CEME 220	ENT*	8 3/4" 6 1/4"  SCREEN (MD)  32 5102-5542  4080-4798	TOC 3105 TOC 3393 30. SIZ 2-3/8",4.1	E 7# J-55 ACID, SHO Frac w	130sx 220sx DEPTH SET 5596' DT, FRACTURE 95600 Gal W	(MD) PA , CEMENT SQUEEZE, /ater w/ 70000# san	ETC. d HCL Acid		
7", J-55 4.5", J-5  SIZE  YV2  PERFORA esa Verd 02'-5542 wis @ .3 80'-4798	TOP (MD)  3373  THON RECORD  4e  24  34" for 1s	20# 10.5# BOT 5 (	LINER RETOM (MD) 6-3 size and num	3394' 5663' CORD SACKS CEME 220 aber)	ent*	8 3/4" 6 1/4"  SCREEN (MD)  32 5102-5542  4080-4798  Piges lift, pumping-s	TOC 3105 TOC 3393 30. SIZ 2-3/8",4.1	Frac w	130sx 220sx DEPTH SET 5596' DT, FRACTURE 95600 Gal W	(MD) P/ , CEMENT SQUEEZE, /ater w/ 70000# san :% KCL ,12 bbl 15% 20# LGF w/ 99860 i	ETC. d HCL Acid		
7", J-55 4.5", J-5 8. SIZE 4'/2. PERFORA esa Verd 102'-5542	TOP (MD)  3373  TION RECORD  22  34" for 1s	BOT S (Interval)	LINER RETOM (MD)  6-3  size and num  es	3394' 5663' CORD SACKS CEME 22 O	ent*	8 3/4" 6 1/4"  SCREEN (MD)  32 5102-5542  4080-4798  Plant pumping-8	TOC 3105 TOC 3393 30. SIZ 2-3/8",4.1	Frac w	130sx 220sx DEPTH SET 5596' DT, FRACTURE 95600 Gal W ed w/ 25 bbl 2 11680 Gal C	(MD) P/ , CEMENT SQUEEZE, /ater w/ 70000# san :% KCL ,12 bbl 15% ;20# LGF w/ 99860 f	ETC. d . HCL Acid # 20/40 Arizona sand		
PERFORA PERFOR	TOP (MD)  3373  TION RECORD  22  34" for 1s	20# 10.5# BOT 5 (	LINER RETOM (MD)  6-3  size and num  es	3394' 5663' CORD SACKS CEME 2-2-0 nber)  51 Holes To	otal (Flowing,	8 3/4" 6 1/4"  SCREEN (MD)  32 5102-5542  4080-4798  Pl. gas lift, pumping-8	TOC 3105 TOC 3393 30. SIZ 2-3/8",4	Frac wi	130sx 220sx DEPTH SET 5596' DT, FRACTURE 95600 Gal W ad w/ 25 bbl 2 11680 Gal C	(MD) PA  , CEMENT SQUEEZE, /ater w/ 70000# san  % KCL .12 bbi 15% 20# LGF w/ 99860 i  WELL STATUS ( SI  WATER-BBL	ETC. d HCL Acid # 20/40 Arizona sand Producing or shut-in)		
7", J-55 4.5", J-5 SIZE 14/2 PERFORA P	TOP (MD) 3373  TION RECOR	20# 10.5#  BOT 5 (Intervel)  pf 24 hol	LINER RE TOM (MO) 6-3 . size and num es	3394' 5663' CORD SACKS CEME 2-2-0 nber)  51 Holes To	otal (Flowing,	8 3/4" 6 1/4"  SCREEN (MD)  32 5102-5542  4080-4798  PP. ges lift, pumping-s Flowing TN FOR OIL-1	TOC 3105 TOC 3393 30. SIZ 2-3/8",4.1	Frac w/ Acidize Frac w/ Acidize Frac w/ GAS-MC	130sx 220sx DEPTH SET 5596' DT, FRACTURE 95600 Gal W od w/ 25 bbl 2 11680 Gal C	(MD) P/ , CEMENT SQUEEZE, /ater w/ 70000# san 1% KCL .12 bbi 15% 20# LGF w/ 99860 f  WELL STATUS ( Si  WATER-BBL  0.00 bbi/h	ETC.  d  HCL Acid  # 20/40 Arizona sand  Producing or shut-in)		
97", J-55 4.5", J-5 9179 PERFORA PERFO	TOP (MD) 3373  TION RECOR	20# 10.5#  BOT 5 (Intervel)  pf 24 hol	LINER RE TOM (MD) 6-3 size and num es	3394' 5663' CORD SACKS CEME 2-2-0 nber)  51 Holes To	otal (Flowing, TEST	8 3/4" 6 1/4"  SCREEN (MD)  32 5102-5542  4080-4798  Piges lift, pumping-s Flowing PN FOR OIL-1	TOC 3105 TOC 3393 30. SIZ 2-3/8",4	Frac w/ Acidize Frac w/ Acidize Frac w/ GAS-MC	130sx 220sx DEPTH SET 5596' DT, FRACTURE 95600 Gal W ad w/ 25 bbl 2 11680 Gal C	(MD) P/ , CEMENT SQUEEZE, /ater w/ 70000# san 1% KCL .12 bbi 15% 20# LGF w/ 99860 f  WELL STATUS ( Si  WATER-BBL  0.00 bbi/h	ETC. d HCL Acid # 20/40 Arizona sand Producing or shut-in)		
7", J-55 4.5", J-5 4.5", J	TOP (MD)  3373  ATION RECORD  10  22  34" for 1s  RODUCTION	BOT 5 (Intervel)  pf 24 holi  CASING I	LINER RE TOM (MD) .6-3 . size and num es PRODUC ESTED 1 PRESSURE -32	3394' 5663'  CORD SACKS CEME 72 O  Ther)  51 Holes To CHOKE SIZE 1/4"  CALCULATED 24-HOUR RATE	otal (Flowing, TEST	8 3/4" 6 1/4"  SCREEN (MD)  32 5102-5542  4080-4798  PP. ges lift, pumping-s Flowing TN FOR OIL-1	TOC 3105 TOC 3393 30. SIZ 2-3/8",4 RODUCTION SIZE and type of GAS-M	Frac w/ Acidize Frac w/ Acidize Frac w/ GAS-MC	130sx 220sx DEPTH SET 5596' DT, FRACTURE 95600 Gal W ad w/ 25 bbl 2 11680 Gal C	(MD) PA  , CEMENT SQUEEZE, /ater w/ 70000# san  1% KCL ,12 bbl 15% 20# LGF w/ 99860 A  WELL STATUS ( SI  WATER-BBL  0.00 bbl/h  3L	ETC.  d  HCL Acid  F20/40 Arizona sand  Producing or shut-in)  GAS-OIL RATIO  OIL GRAVITY-API (CORR.)		
7", J-55 4.5", J-5 4.5", J	TOP (MD)  3373  ATION RECORD  22  34" for 1s  PRESS	20# 10.5# BOT 5 (Intervel) pf 24 hole CASING IF CP.	LINER RE TOM (MD) 36-3 , size and num es  PRODUC ESTED 1 PRESSURE -32	3394' 5663' CORD SACKS CEME 72 O ther)  51 Holes To CHOKE SIZE 1/4" CALCULATED 24-HOUR RATE 50. etc.)	otal (Flowing, TEST	8 3/4" 6 1/4"  SCREEN (MD)  32 5102-5542  4080-4798  Pigas lift, pumping—S Flowing PERIOD PERIOD ————————————————————————————————————	TOC 3105 TOC 3393 30. SIZ 2-3/8",4.  RODUCTION BIZE and type of GAS-M GAS-M 211	Frac will Acidize Frac will GAS-MC	130sx 220sx DEPTH SET 5596' DT, FRACTURE 95600 Gal W ad w/ 25 bbl 2 11680 Gal C	(MD) PA  CEMENT SQUEEZE, Jater w/ 7000# san  COMPANY SAN	ETC.  d  HCL Acid  F20/40 Arizona sand  Producing or shut-in)  GAS-OIL RATIO  OIL GRAVITY-API (CORR.)		
PERFORA PERFOR	TOP (MD)  3373  ATION RECORD  22  34" for 1s  PRESS	20# 10.5#  BOT  CASING I  CASING I  FCP- Sold, used  g for fa	LINER RE TOM (MD) 36-3 , size and num es  PRODUC ESTED 1 PRESSURE -32	3394' 5663' CORD SACKS CEME 72 O ther)  51 Holes To CHOKE SIZE 1/4" CALCULATED 24-HOUR RATE 50. etc.)	otal (Flowing, TEST	8 3/4" 6 1/4"  SCREEN (MD)  32 5102-5542  4080-4798  PROWING TOR OIL-I	TOC 3105 TOC 3393 30. SIZ 2-3/8",4.  RODUCTION BIZE and type of GAS-M GAS-M 211	Frac will Acidize Frac will GAS-MC	130sx 220sx DEPTH SET 5596' DT, FRACTURE 95600 Gal W ad w/ 25 bbl 2 11680 Gal C	(MD) PA  , CEMENT SQUEEZE, /ater w/ 70000# san  1% KCL ,12 bbl 15% 20# LGF w/ 99860 A  WELL STATUS ( SI  WATER-BBL  0.00 bbl/h  3L	ETC.  d  HCL Acid  F20/40 Arizona sand  Producing or shut-in)  GAS-OIL RATIO  OIL GRAVITY-API (CORR.)		
PERFORA PERFOR	TOP (MD)  3373  TION RECOR  16  2'  34" for 1s  RODUCTION  PRESS  TON OF GAS (  d. Waitin  TTACHMENT:  is a stall	20# 10.5#  BOT 5 (Intervel)  pf 24 hol  CASING I  FCP Sold, used g for fas	LINER RETOM (MO)  66'3  size and num  es  PRODUCT  ESTED  1  PRESSURE  -32  Hor ruel, ventes  acilities to	3394' 5663' CORD SACKS CEME 2-2-0 ther)  51 Holes To CHOKE SIZE 1/4" CALCULATED 24-HOUR RATE 24-HOUR RATE 50, etc.) o be set be	property of the west of the we	SCREEN (MD)  32 5102-5542  4080-4798  PP. gas int, pumping-3 Flowing PN FOR OIL-1 PERIOD	TOC 3105 TOC 3393 30. SIZ 2-3/8",4  RODUCTION SIZE and type of gas—M 211  Pred.  pleted in	Frac will Acidize Frac will Frac wil	130sx 220sx  DEPTH SET 5596'  OT, FRACTURE 95600 Gal W dd w/ 25 bbl 2 11680 Gal C	(MD) PA  CEMENT SQUEEZE,  Jater w/ 70000# san  WELL STATUS ( SI  WATER-BBL  0.00 bbi/h  JEST WITNESSI	ETC.  d  HCL Acid  F20/40 Arizona sand  Producing or shut-in)  GAS-OIL RATIO  OIL GRAVITY-API (CORR.)		
7", J-55 4.5", J-5 9. SIZE 4'/2_ PERFORA esa Verd 02'-5542 ewis @ .3 180'-4798 3. TE FIRST PR SI TE OF TEST 23/09 DW. TUBING N/A 4. DISPOSITIO D be sold 5. LIST OF A his well	TOP (MD)  3373  TION RECOR  16  2'  34" for 1s  RODUCTION  PRESS  TON OF GAS (  d. Waitin  TTACHMENT:  is a stall	20# 10.5#  BOT 5 (Intervel)  pf 24 hol  CASING I  FCP Sold, used g for fas	LINER RETOM (MO)  66'3  size and num  es  PRODUCT  ESTED  1  PRESSURE  -32  Hor ruel, ventes  acilities to	3394' 5663' CORD SACKS CEME 2-2-0 ther)  51 Holes To CHOKE SIZE 1/4" CALCULATED 24-HOUR RATE 24-HOUR RATE 50, etc.) o be set be	property of the west of the we	SCREEN (MD)  SCREEN (MD)  SCREEN (MD)  32  5102-5542  4080-4798  Pi gas lift, pumping—S  Flowing PN FOR OIL—I  —————————————————————————————————	TOC 3105 TOC 3393 30. SIZ 2-3/8",4  RODUCTION SIZE and type of gas—M 211  Pred.  pleted in	Frac will Acidize Frac will Frac wil	130sx 220sx  DEPTH SET 5596'  OT, FRACTURE 95600 Gal W dd w/ 25 bbl 2 11680 Gal C	(MD) PA  CEMENT SQUEEZE,  Jater w/ 70000# san  WELL STATUS ( SI  WATER-BBL  0.00 bbi/h  JEST WITNESSI	ETC.  d  HCL Acid  F20/40 Arizona sand  Producing or shut-in)  GAS-OIL RATIO  OIL GRAVITY-API (CORR.)  ED BY  the Lewis 2/26/09		
PERFORA PERFOR	TOP (MD)  3373  TION RECOR  16  2'  34" for 1s  RODUCTION  PRESS  TON OF GAS (  d. Waitin  TTACHMENT:  is a stall	20# 10.5#  BOT 5 (Intervel)  pf 24 hol  CASING I  FCP Sold, used g for fas	LINER RETOM (MO)  66'3  size and num  es  PRODUCT  ESTED  1  PRESSURE  -32  Hor ruel, ventes  acilities to	3394' 5663' SACKS CEME 720 shor)  51 Holes To THON METHOD  CHOKE SIZE 1/4" CALCULATED 24-HOUR RATE 24-HOUR RATE 30, etc.) o be set be  Verde, the formation is comp	PRODITEST OIL	SCREEN (MD)  SCREEN (MD)  SCREEN (MD)  S2  5102-5542  4080-4798  PROPRIOR OIL-I	TOC 3105 TOC 3393 30. SIZ 2-3/8",4.  RODUCTION SIZE and type of GAS-M 211  Pred.  pleted in ned from all ava	Frac will Acidize Frac will Frac wil	130sx 220sx  DEPTH SET 5596'  OT, FRACTURE 95600 Gal W dd w/ 25 bbl 2 11680 Gal C	(MD) PA  CEMENT SQUEEZE, Vater w/ 70000# san  COM LGF w/ 99860 A  WELL STATUS ( SI  WATER-BBL  0.00 bbi/h  BL  bbi/d  TEST WITNESSI  ted a payadd of	HCL Acid HCL Acid H20/40 Arizona sand Producing or shut-in)  GAS-OIL RATIO  OIL GRAVITY-API (CORR.)  ED BY  the Lewis 2/26/09		
PERFORA PERFOR	TOP (MD)  3373  TION RECOR  16  2'  34" for 1s  RODUCTION  PRESS  TON OF GAS (  d. Waitin  TTACHMENT:  is a stall	20# 10.5#  BOT 5 (Intervel)  pf 24 hol  CASING I  FCP Sold, used g for fas	LINER RETOM (MD) 66-3 . size and num es PRODUC ESTED 1 PRESSURE -32 TOT TUE!, Vente aclities t	3394' 5663' CORD SACKS CEME 72.0  Ther)  51 Holes To CHOKE SIZE 1/4"  CALCULATED 24-HOUR RATE 24-HOUR RATE 30, etc.)  o be set be Verde, th	PRODITEST OIL Store (	SCREEN (MD)  32 5102-5542  4080-4798  PP. gas int, pumping-3 Flowing PN FOR OIL-1 PERIOD	TOC 3105 TOC 3393 30. SIZ 2-3/8",4  RODUCTION SIZE and type of gas—M GAS—M 211  pred from all ava echnician	Frac will Acidize Frac will Ac	130sx 220sx DEPTH SET 5596'  OT, FRACTURE 95600 Gal W od w/ 25 bbl 2 11680 Gal G	(MD) PA  CEMENT SQUEEZE, later w/ 70000# san  WKCL ,12 bbl 15% 20# LGF w/ 99860 d  WELL STATUS (SI WATER-BBL 0.00 bbl/h  ITEST WITNESSI  ted a payadd of	ETC.  d  HCL Acid  F20/40 Arizona sand  Producing or shut-in)  GAS-OIL RATIO  OIL GRAVITY-API (CORR.)  ED BY  the Lewis 2/26/09		

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		•	-	
•		•		
O'- A1				
Ojo Alamo	2420	2584 White, cr-gr ss.	Ojo Alamo	2420
Kirtland	2584	3000 Gry sh interbedded w/tight, gry, fine-gr ss.	Kirtland	2584
		Dk gry-gry carb sh, coal, grn silts, light-med gry, tight,		
Fruitland	3000	3273 fine gr ss.	Fruitland	3000
Pictured Cliffs	3273	3350 Bn-Gry, fine grn, tight ss.	Pictured Cliffs	<b>327</b> 3
Lewis	3350	3543 Shale w/siltstone stringers	Lewis	3350
Huerfanito Bentonite	3543	4007 White, waxy chalky bentonite	Huerfanito Bentonite	3543
Chacra	4007	4983 Gry fn grn silty, glauconitic sd stone w/drk gry shale	Chacra	4007
Mesa Verde	4983	5173 Light gry, med-fine gr ss, carb sh & coal	Mesa Verde	4983
Menefee	5173	5453 Med-dark gry, fine gr ss, carb sh & coal	Menefee	<del>1</del> 303 5173
Woholoo	3173	Med-light gry, very fine gr ss w/frequent sh breaks in	Mellelee	3179
Point lookout	5453	5617 lower part of formation	Point lookout	5453
Mancos	5617	0 Dark gry carb sh.	Mancos	5617
	0017	Lt gry to brn calc carb micac glauc silts & very fine gr	Marioos	5511
Gallup	0	0 gry ss w/irreg.interbed sh	Gallup	
Greenhorn	0	Highly calc gry sh w/thin lmst.	Greenhorn	
Graneros	Ō	0 Dk gry shale, fossil & carb w/pyrite incl.	Graneros	
	-	Lt to dk gry foss carb sl calc sl silty ss w/pyrite incl thin	- · <del>-</del> · · · · · ·	
Dakota	0	sh bands clay & shale breaks	Dakota	
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