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-07926
AMENDED	01-01-02

WELL C	OMPL	ETION	NOR R	ECOMPL	LETION RE	PORT AN	D LO	G*	6. IF	NDIAN, ALLOTTE	E OR TRIBE NAME
1a TYPE OF	WELL.		OIL WELL	GAS WELL X	DRY Oth	er		····			
b TYPE OF	COMPLET	ION:					_	-	7 UN	IT AGREEMENT	NAME
- 111 201	NEW Y] WORK	DEEP-	PLUG	DIFF Oth			O Brin	8 FA	RM OR LEASE NA	AME, WELL NO
	WELL	OVER	EN	BACK	RESVR Oth		_ 1			VAUC	GHN 30N
2 NAME OF	F OPERATO	OR .					THE PLANT		9 AF	LAMELL NO	
				& Gas Comp	pany	<u> </u>		<u>line</u>		30-03	39-30533
3 ADDRES				197400 (5	505) 326-9700	100		, 20 00	10 F	IELD AND POOL,	39-30533 OR WILDCAT I DAKOTA R BLOCK AND SURVEY T26N, R6W
	N OF WEL				rdance with any Star	te requirements)	<i>'''</i>	1000	211.6S	EC, T, R, M, OF	R BLOCK AND SURVEY
At surface				SL & 1595' FW	•	,	9`	TONFIELD	usa	OR AREA	
							- 01	windia augin.			
At top pro	od. interval r	eported be	elow	N (SE/SW), 1	1107' FSL & 1837	'FWL	40	SUOTE	i	Sec. 28,	T26N, R6W
At total de	enth N	(SF/SW)	1107' FS	L & 1837' FW	n		Brie	,-			
At total de	epui 14	(02/011)	, 1107 10	L & 1031 1 11	_						
					14 PERMIT NO	DATE ISS	SUED		1	OUNTY OR	13 STATE
										PARISH io Arriba	New Mexico
15 DATE SPU			REACHED	17 DATE	COMPL (Ready to pr		18 El	LEVATIONS (DF, RKE	B, RT, BF	R, ETC)*	19 ELEV CASINGHEAD
01/24/1			/15/11	HOW T.D. NID OT	07/07/11 0		-	GL 6427'			ALDISTORIO
20 TOTAL DE	:P1H, MD &T\	יט	ZI PLUG, E	ACK T D , MD &T\		E COMPL , DW MANY*		TERVALS PRILLED BY	KUTAR	Y TOOLS	CABLE TOOLS
	77' / 7267'			553' / 7243' VE		2				yes	
24 PRODUCT	ION INTERVA	AL (S) OF TI	HIS COMPLE	TION-TOP, BOTTO	OM, NAME (MD AND T	VD)*		•		25 WAS DIRECT SURVEY MA	
Basin I	Dakota 7	20 <u>9' - </u> 7	497'							301.VL1 W/	YES
26 TYPE ELE		OTHER LOG	S RUN						27 WA	S WELL CORED	
GR/CC	CL/CBL								L		No
28	TE/CDADE	I WEIGH	T I D /CT	DEDTH SET /		RD (Report all st			20	·	ACUST BUILTS
9 5/8" /			T, LB /FT 2.3#	DEPTH SET (MD) HOLE SIZE						MOUNT PULLED 5bbls
7" / J			23#	4470'	8 3/4"	Surfac	e, 621s:	sx(1262cf-225bbls)		·	
4 1/2" /	L-80	1	1.6#	7573'	6 1/4"		3850', 23	34sx(474cf-84bb			
29 SIZE	TOP (MD)	ROT	LINER RE	SACKS CEME	NT* SCREEN (MI	30 D) SIZ		DEPTH SET (BING RECORD	CKER SET (MD)
SIZE	, or (wib)	1	. 5 (410)	OF TOTAL OCCIVIE	SOMELIA (INI	2 3/		7450'	,		COLL (IND)
								# / L-80			
Dakota w/ .3	TION RECOR	(Interval,	size and num	per)	32	09'- 7466'		OT, FRACTURE,			rc'd w/ 47,922gals 70%
2SPF @ 746		7368'.				, , , , , , , , , , , , , , , , , , , 		•			TLC Sand. Flushed
_	4', & 7295		oles		ļ			bls fluid flush.			
1SPF @ 720					ļ						% RECEIVE
2SPF @ 736	66' - 7466' 40'' daim.	= 28 Hole	es				}				2232-0-02
w 749 @ 2SPF		§ 7487' =	6 Holes.(n	ot stimulated)	İ						
DK Total Ho	•		·								& RECEIVE
33		PROD	UCTION								6 BILOTIVE
DATE FIRST PR			PRODUC		lowing, gas lift, pumpir	ngsize and type of	pump)				Producing Shut-in) JUL 2011
07/0 DATE OF TEST	7/11 GRC	HOURS T		WING CHOKE SIZE	PROD'N FOR O	(LBBL	GAS	-MCF	WATE	R-BBL	IGAS-CIE BATIONI CANS DIV DIS
		1,30,00			TEST PERIOD					was	OIL GRAVITY APPLICABLE 1
07/12			hr.	1/2"		0 / boph		18 mcf / h	1/	2 / bwph	VZ _X .
LOW TUBING	PRESS	CASING F	RESSURE	CALCULATED 24-HOUR RATE	OILBBL	GASM	CF	WATERBBL			OIL GRAVITY APLOSORR)
SI-5;			38psi		0 / bopd	427 m	cf/ d	12	/ bwp	od	
34 DISPOSITI		Sold, used	fdr fuel, vente	d, etc.)	•					TEST WITNESSE	ED BY
35 LIST OF AT	TTACHMENT		sold	/ /						L	
	1		Basin Dak	ota commin	gled well under l	DHC order 291	2AZ.				
					ete and correct as deter			s			
N/	110.1	11/	1/ml	II							
SIGNED #	MM	11/	11/0 17	TIT	rleS	Staff Regulator	y Techn	icain	DATE	A(WENTED FOR RECO
<i>"</i>	, ,	1/	*(\$4	ee Instructio	ons and Space	s for Additio	nal Dat	a on Reverse	Side	1	
Title 18 U S	C. Section	1001, m	1 ,		erson knowingly a				•		JUL 2 1 2011
			1		ts or representation				_	•	
		\	1							F	ARMINGTON FIELD OFF
		\ /	/		Ali	MOCD I	Λ			B'	y Sev
		/ /			141		4 .			_	-

NMOCD A

API # 30-039-30533			VAUGHN 30N			
Ojo Alamo	2092'	2248'	White, cr-gr ss.	Ä	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.	3.2	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	2.0	Chacra	3773'
Mesa Verde	4588'	4610'	Light gry, med-fine gr ss, carb sh & coal	1	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	Ý.	Point Lookout	5180'
Mancos	5622'	6217'	Dark gry carb sh.	9-	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.	Tì.	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

SUBMIT IN DUPLICATE*

FOR APPROVED

(See other In-structions on

OMB NO. 1004-0137

Expires	December 31, 1991

		DEP	AKTIMENT OF	INCINIERI	UK	reverse side)		December 31, 1991
		В	UREAU OF LAND	MANAGEMENT			5 LEASE DESIGNATI	ON AND SERIAL NO
							SF	-079266
WELL C	COMPLI	ETION OR F	ECOMPLET	TION REPO	RT AND	LOG*	6. IF INDIAN, ALLOTT	EE OR TRIBE NAME
1a TYPE OF		OiL						
		WELL	WELL X	DRY Other			7 LINIT ACREMENT	NAME
b TYPE O	F COMPLETI	ON					7 UNIT AGREEMENT	
	NEW Y	WORK DEEP-	PLUG	DIFF			8 FARM OR LEASE N	IAME. WELL NO
	WELL	OVER EN	BACK	RESVR Other			3741	IOLINI CON
							VAU	GHN 30N
	OF OPERATO			_	Ø.	A B 2011 A B 20	9 APIWELL NO	20 20522 4
		Resources Oil 8	Gas Company	<u> </u>		Car - 2017	30-L	39-30533~⊖DC
	SS AND TEL		(505)	200 0700		Jn. 141	TO FIELD AND POOL	, OR WILDCAT
		9, Farmington, NN		326-9700		10 00	MO BASII	R BLOCK AND SURVEY
		Report location cle	•	e with any State re	quirentents)	IL ' cie ^{lo} ca	SEC, I, R, M, C	R BLOCK AND SURVEY
At surfac	ce K	(NE/SW), 2520' FS	SL & 1595' FWL		,	Or "ULL'MAI.	OR AREA	
						ingle and.		
At top pr	rod interval re	eported below	N (SE/SW), 1107	' FSL & 1837' FW	/L	Million LL	Sec. 28	, T26N, R6W
					`	(agus		
At total o	depth N (SE/SW), 1107' FS	L & 1837' FWL		9	ure		
			144	DEDMIT NO	DATE ISSUE	, 	12 COUNTY OR	13 STATE
			14	PERMIT NO	DW1E 1990F		PARISH	IN SINIE
							Rio Arriba	New Mexico
15. DATE SP	UDDED 16	DATE T D REACHED	17 DATE COM	PL (Ready to prod)	•	18 ELEVATIONS (DF, R	KB, RT, BR, ETC)*	19 ELEV CASINGHEAD
01/24/		02/15/11		07/07/11 GRC	;	1 ' '	KB 6442'	,
20 TOTAL DI	EPTH, MD &TV	D 21 PLUG, E	ACK T.D., MD.&TVD	22 IF MULTIPLE CO	MPL,	23 INTERVALS	ROTARY TOOLS	CABLE TOOLS
				HOW M		DRILLED BY	•	1
	77' / 7267' '		553' / 7243' VD	2			yes	<u> </u>
24 PRODUC	TION INTERVA	L (S) OF THIS COMPLE	TION-TOP, BOTTOM, N	IAME (MD AND TVD)*			25 WAS DIREC	
Racin	Dakota 73	209' - 7497'					SURVEY M	YES
		THER LOGS RUN					27 WAS WELL CORED	
	CL/CBL	THE REGOOT NOW					I WAS WELL SOMES	No
	CL/CBL			 				140
28		,		ASING RECORD (
CASING SI		WEIGHT, LB /FT	DEPTH SET (MD)	HOLE SIZE		MENT, CEMENTING RECO		MOUNT PULLED
9 5/8"		32.3#	234'	12 1/4"		, 76sx(122cf-22bbls		5bbls
7" / . 4 1/2"		23# 11.6#	4470' 7573'	8 3/4" 6 1/4"		621sx(1262cf-225bb 0', 234sx(474cf-84b		74bbls
29	7 L-00	LINER RE			30	U , 2345X(474CI-64D	TUBING RECOR	D
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (ACKER SET (MD)
3126	TOP (WID)	BOTTOWI (IVID)	SACKS CEMENT	SCREEN (IVID)	2 3/8"	7450'	IVID) (ACKER SET (MD)
	 				2 3/3	4.7# / L-80		
31 PERFORA	ATION RECOR		l	32	ACI	D, SHOT, FRACTURE,	CEMENT SOUEEZE	FTC
Dakota w/ .	34" diam			7209'-				rac'd w/ 47,922gals
1SPF @ 72		= 24 Holes				70% Foam Slickwa		, •
2SPF @ 73						Flushed 109bbls fl	•	
9	.40" daim.	04 110163				i lustica roobbis ii	ula 11a311. 112.2,220	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		. 7487' =6 Holes.(n	ot etimulated)					7000
DK Total He			or omnunatou,					\$920212223
								,320°
33		PRODUCTION		i				/80 PA
DATE FIRST PI		l l	CTION METHOD (Flowin	g, gas lift, pumpingsi.	ze and type of pur	np)	WELL STATUS	GAS-OIL RANG OIL CONS. DIV. DIS.
	07/11 GRC		WING				SI	GAS-OIL PAGE ON
DATE OF TEST	Т	HOURS TESTED	l I	D'N FOR OILBI	BL	GASMCF	WATERBBL	GAS-OIL RAPIO OII
07/4	2/44	45	1/2"	T PERIOD)/borb	10 mas / 5	4/2 / 5	15. A CONS SO
07/1 FLOW TUBING		1hr. CASING PRESSURE	***	ILBBL	O / boph GASMCF	18 mcf / h WATERBE	1/2 / bwph	OIL GRAVITY API (CORR)
, LOW TODING	J 1 11200	S. IOING PRESSURE	24-HOUR RATE		GAG-WICE	1 ************************************	-	100mm
SI-F	5psi	\$1-638psi	──	0 / bopd	427 mc1	7 d 13	2 / bwpd	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
		Sold, used for fuel, vente	ed, etc)	о, лора	, ,=, ,,,,,,	14	TEST WITNESS	SED BY
	TION OF GAS (To be sold						6879
	TION OF GAS (L	OIL GRAVITY API (CORR) OIL GRAVITY API (CORR) OIL GRAVITY API (CORR) OIL GRAVITY API (CORR)
34 DISPOSIT	ATTACHMENTS		A			_		
34 DISPOSIT	ATTACHMENTS	3	ota comminaled	well under DHC	order 2912A	Z.		
34 DISPOSIT	attachments Ianco Mesa							
34 DISPOSIT	attachments Ianco Mesa	vende / Basin Dak						
35 LIST OF A This is a BI 36 Thereby c	attachments Ianco Mesa	vende / Basin Dak	ormation is complete an	nd correct as determine	ed from all availabl	e records	DATE	
34 DISPOSIT	attachments Ianco Mesa	verde / Basin Dak pregung and alached in	ormation is complete an	d correct as determine	ed from all availabl	e records echnicain	DATE	07/15/11
34 DISPOSITION AND ADDRESS AS A This is a BI 36 Thereby of SIGNED	ATTACHMENTS lanco Mesa cents that the fo	vende / Basin Dak pregling and attached in *(Se	TITLE	Staff and Spaces fo	d from all available Regulatory T r Additional	echnicain Data on Reverse	Side) ACCEP	
34 DISPOSITION AND ADDRESS AS A This is a BI 36 Thereby of SIGNED	ATTACHMENTS lanco Mesa cents that the fo	vende / Basin Dak pregling and attached in *(Se	TITLE	Staff and Spaces fo	d from all available Regulatory T r Additional	e records echnicain	Side) ACCEP	

NMOCD 4

FARMINGTON FIELD OFFICE

API # 30-039-30533			VAUGHN 30N	T		
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Gréenhorn	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'

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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

S	ᆮ	- 4	٦	7	۵	า	0	c

								J	SF-	079266	
WELL C	OMPLI	ETION OR F	RECOMPLI	ETION REPO	ORT AND	LOG	3 *	6 IF I	NDIAN, ALLOTTE	E OR TRIBE NAME	
1a TYPE OF		OIL	GAS V	DRY Other		_		1			
		WELL	WELL	Other				7 UN	IT AGREEMENT N	NAME .	_
b TYPE OF	COMPLET	ON:								to Leuse	
	NEW X	WORK DEEP-	PLUG	DIFF Other				8 FAS	RM OR LEASE NA	AME, WELL NO	
	AMELL 1	OVER EN	BACK	RESVR Other	equirements)	THE PROPERTY			VAH	GHN 30N	
2 NAME OF	OPERATO	DR		······		CONTRACTOR OF THE PARTY OF THE	4.0	9 API	WELL NO	STAT COLT	_
		 Resources Oil	& Gas Compa	'nν		THE REAL PROPERTY.		I .		39-30533-00CZ	•
		PHONE NO.	a cas compa		V. Service		<u>-71117</u>	10 FI	ELD AND POOL	RESAVERDE BLOCK AND SURVEY T26N, R6W	_
DO	DOV 400	0 Fannsinadan NB	VI 87499 (50	5) 326-9700	B 2	18	ω.		BLANCO	MESAVERDE	
⊿ LOCATIO	N OF WELL	(Report location cle	arly and in accorda	ance with any State re	equirements)		· JOHO	4 SE	C.T.R.M.OR	BLOCK AND SURVEY	_
At surface		(NE/SW), 2520' F		the min any state to	,30		a Field ande	0	R AREA		
At Surface	, r	(NE/SVV), 2520 F.	3L & 1333 FVVL	•	_	Olpnia	Wallos	1			
			N. (0=(0)10) 44		£ <i>a</i> m	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3LIC.	İ	0 00	TOCAL DOW	
At top pro	d Interval re	eported below	N (SE/SW), 110	07' FSL & 1837' F\	WL 31/468	MO.		j	Sec. 26,	I ZOIN, INDVV	
At total de	onth N/	(SE/SW), 1107' FS	1 & 1837' F\A/I		Pa.						
At total de	spui iii (3E/3W), 1107 F3	L & 1037 FVVL					ł			
			1	4 PERMIT NO	DATE ISSUE	D		12 C	DUNTY OR	13 STATE	_
			 		T			-	PARISH	1	
					į			1	o Arriba	New Mexico	
15 DATE SPU		DATE T D REACHED	17 DATE CO	OMPL (Ready to prod)		18 ELE	VATIONS (DF, R			19 ELEV. CASINGHEAD	
01/24/1		02/15/11		07/07/11 GR		<u> </u>	GL 6427'				
20 TOTAL DE	PTH, MD &TV	D 21. PLUG, E	BACK T.D., MD.&TVD			23 INT		ROTAR	Y TOOLS	CABLE TOOLS	_
w		=		HOW N		DR	ILLED BY	1		ı	
	7' / 7267'		553' / 7243' VD		2	L		Щ,	yes		_
24 PRODUCT	ION INTERVA	L (S) OF THIS COMPLE	HON-TOP, BOTTOM,	, NAME (MID AND TVD)*					25 WAS DIRECT SURVEY MA		
Blanco	Mesaver	rde 5154' - 5504							JONVET WIP	YES	
		THER LOGS RUN			-			27 WAS	WELL CORED		_
	L/CBL							"		No	
				CARINO DECODE	(Bana + -# -+	0.054		<u> </u>			_
28	E/CDASE	LAGOLETA	T penti ser	CASING RECORD (700		MOUNT DULLES	
9 5/8" /		WEIGHT, LB /FT	DEPTH SET (MD				MENTING RECO		Al	MOUNT PULLED	
		32.3#	234'	12 1/4"			122cf-22bbl				
7" / J 4 1/2" /		23#	4470'	8 3/4"			1262cf-225bl			74bbls	
29.	L-6U	11.6# LINER RE	7573'	6 1/4"	30	u , 2349	sx(474cf-84b		BING RECORD	· · · · · · · · · · · · · · · · · · ·	—
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	* SCREEN (MD)	SIZE		DEPTH SET			ACKER SET (MD)	_
QIZE.	TOP (IVIU)	BOTTOWI (IVID)	SAUKS CEIVIENT	SOMEEN (IVID)	2 3/8"		7450'	(יייט)	PA	ONEN OLI (MD)	_
					200	4.7# /					_
PERFORA	TION RECOR	D (Interval, size and num	nber)	32	ACI			. CEMF	NT SQUEEZE,	ETC.	_
,		"Menefee w/ .34			- 5504'					5% HCL. Frac'd w/	_
ISPF @ 515										n pad w/ 99,414# 20/	40
	5501	_3								ush N2:1 280 000SC	F
MV Total Ho	les = 23										
33		PRODUCTION								Producing or shuttle 232	425
DATE FIRST PRO	ODUCTION		CTION METHOD (Flo	wing, gas lift, pumpings	size and type of pum	ρ)			WELL STATUS (A	Producing or shutth	35
07/0	7/11 GRC	FLC	OWING						SI	Producing or shutth	A
DATE OF TEST		HOURS TESTED		ROD'N FOR OIL-E	BL .	GASN	MCF	WATE	RBBL	GAS-OFFATIOREC	
			1	EST PERIOD						1/6 1/EC	Elvi
07/12		1hr.	1/2"		0 / boph	2	8 mcf / h		2 / bwph	Enn	
LOW TUBING	PRESS	CASING PRESSURE	CALCULATED	OILBBL	GASMCF		WATERBE	3L		OIL GEAVITY-API'(CORR	2011
01.5	:	01.000	24-HOUR RATE	0 / h1		, ,		0 / b	- al	OIL CONS. D)n.
SI-5 ₁		SI-638psi Sold, used for fuel, vente	d etc)	0 / bopd	667 mcf	<i>i</i> u	17	2 / bw	pa Test witnesse	ID BY	<u>IV</u> DIST
34 DISTOSTI	OI GAS (u, 010. j						IEST ANTIMESSE	ты /ڇ.	- 1.
35 LIST OF AT	TACHNENE	To be sold								ED BY CILLOL	— .
			kota comminal	led well under DH	IC order 2012/	17				-41101	68L
				and correct as determine							
7//	NI		a	5555t d5 d6t6tfffff6	, _ , , un avanable						
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	MMM	W/MI	/]	_	4 Daniel - 4 · · · · · · · · · ·			D.=-		07/45/44	
SIGNED \	1/00,1	/L/	TITLE	Staff	f Regulatory To	ecnnic	ain	DATE ACCO	FPTED FC	HAECORD	
1		1 7/8/	e Instruction	s and Spaces fo	or Additional	Data	on Reverse	C: -1			
Title 18 U.S.	C Section	1001 makes it a	crime for any no	s and Spaces ro rson knowingly and s or representations	d willfully to ma	ke to a	ny denartme	nt of so	enouve of the -		
United State	s anv faled	fictitious or fraud	ulent statements	s or representations	s as to any me	nterwit	thin its innedia	nt or ay ction	~"JUL"¶ 9	3 2011	
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API # 30-039-30533			VAUGHN 30N			
Ojo Alamo	2092'	2248'	White, cr-gr ss.	ì	Ojo Alamo	2092'
Kirtland	2248'	2526'	Gry sh interbedded w/tight, gry, fine-gr ss.	9	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.	. 3	Pic.Cliffs	2823'
Lewis	3001'	3285'	Shale w/siltstone stringers	- 1	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	3	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			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'

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